



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAS of MNGL.

Bid No.: MNGL/CP/2026-27/38



MAHARASHTRA NATURAL GAS LIMITED

(A joint venture of GAIL(India) Ltd & BPCL)

CNG & CITY GAS DISTRIBUTION PROJECT

**Bid document for
Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH
Gas Engine Driven (GED) and Electric Motor Driven (EMD)
Compressor Packages for CNG and CGD Network of all GAS
of MNGL.**

UNDER OPEN DOMESTIC COMPETITIVE BIDDING

(THROUGH E-TENDERING MODE)

Bid Document No.: MNGL/CP/2026-27/38 Dt: 15.05.2026.



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SECTION I

1. INVITATION FOR BIDS (IFB)

 MAHARASHTRA NATURAL GAS LIMITED	<p>Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.</p> <p style="text-align: center;">Bid No.: MNGL/CP/2026-27/38</p>
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INVITATION FOR BIDS (IFB)

M/s Maharashtra Natural Gas Ltd., Pune invites online bids (Technical & Financial) **UNDER TWO BID SYSTEM** from eligible bidders for the item(s) in complete accordance with the Bid Documents.

1.0 TENDER INFORMATION

Tender document number	MNGL/CP/2026-27/38 dated 15.05.2026.
Item(s)	Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.
Type of Bid	Open Domestic Competitive Bidding
Time Schedule	As per Scope of Work of tender document
Earnest Money Deposit (EMD) / Bid Security	Rs. 2,00,000/- in the form of eBG (electronic Bank Guarantee) / Online payment through etender portal. NOTE: Bidders registered with NSIC / MSME are exempted from furnishing above EMD / Bid Security upon producing registration certificate.
Bid Security Validity	6 (Six) months from bid due date
Tender Fee ((Non-refundable)	Not applicable
Bid Validity	4 (Four) months from the bid due date
Pre-bid meeting date and time	22.05.2026 @ 11:30am Meeting link: https://meet.google.com/ojh-mhru-ygg
Bid Submission at	https://etenders.gov.in
Bid submission due date and time	<u>05.06.2026 till 15:00 Hrs. IST</u>
Techno-commercial bid opening date and time	08.06.2026 at 10:00 Hrs. IST
Price bid opening date and time	Date and time shall be intimated later
Address for submission of EMD/Bid Security and venue for pre-bid meeting and opening of bids	Deputy Manager (C&P) Maharashtra Natural Gas Limited, Pride Purple Coronet, 2 nd Floor, Baner Road, Baner, Pune – 411045
Contact details	Telephone: +91 (20) 2561 1157 / 1190 Email: balakrishna.thatikonda@mngl.in / gasaid@mngl.in
Bidders Eligibility Criteria and Bid Evaluation Criteria	As per Annexure – I to IFB

NOTE: Bidders are advised to complete the registration with e-tender portal (<https://etenders.gov.in>) at least two working days prior to bid submission date.



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Please note that in accordance with the general conditions of tender, MNGL may amend these dates of the tender process at its sole discretion. In case any of the specified dates are declared a public holiday, the deadline shall be the next working date.

2.0 BIDDING PROCEDURE

Bidding will be conducted through Open Domestic Tendering. Single Stage Two Bid system is adopted for this tender. The submission and opening of bids will be through e-tendering mode at <https://etenders.gov.in/eprocure/app>. Tender document can be downloaded from the website <https://etenders.gov.in/eprocure/app> or from e-tender link given on official MNGL website www.mngl.in.

Note: To participate in the e-tendering, it is mandatory for the bidders to have user ID & password. For this purpose, the bidder has to register itself on CPPP's website <https://etenders.gov.in/eprocure/app>. Please also note that the bidder has to obtain digital signature token for applying in the tender and in general, activation of registration may take 24 hours subject to the submission of all requisite documents required in the process.

Note: MNGL in no way shall be responsible if the bidder fails to apply due to non-possession of Digital Signature & non-registration.

(The bids have to be submitted online in electronic form on <https://etenders.gov.in/eprocure/app> only. No physical bids will be accepted.)

3.0 DOWNLOADING OF TENDER DOCUMENT

The tender document is available for downloading from CPPP's e-tendering website <https://etenders.gov.in/eprocure/app> or from e-tender link given on official MNGL website www.mngl.in for viewing / participation of the eligible bidders. Bidders meeting the bid evaluation criteria who intend to submit their bid may download the tender for submission by the bid due date and time. Bidder shall give an undertaking on his letter head that the contents of the bidding document have not been altered or modified. Bid evaluation criteria shall be applicable for all the bidders.

Disclaimer clause: Bidders are advised to visit CPPP's e-tendering website and MNGL website regularly for any updates on the tender. The ignorance to visit the website will not be accepted as a reason for any gap / missing information like corrigenda, amendments, clarifications etc.

4.0 PRE-BID MEETING

The bidder(s) or their designated representatives, who have downloaded the bid document, or to whom tender document has been issued and intend to bid are invited to attend the pre-bid meeting. Bidder(s) queries if any, must reach Purchaser office at least one day prior to pre-bid meeting date. The pre bid meeting can be organized through video conferencing or physically. In case of physical meeting, the venue of pre bid meeting is MNGL office at Pride Purple Coronet, 2nd Floor, Baner Road, Baner, Pune – 411045.



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Non-attendance of the pre-bid meeting will not be a cause for disqualification of a bidder. Corrigendum / addendum, if any, to the tender document, shall be hosted on the website subsequent to the pre-bid meeting.

Bidders may also note that the registration process for new bidders on e-tender portal shall take a minimum of 24 hrs. Hence, bidders are advised to kindly complete their registration on e-tender portal well in advance of the pre-bid meeting.

In case of pre-bid meeting through video conferencing, Link shall be sent to all the interested bidders by the purchaser.

Instructions to bidders for Pre-bid meeting through video conferencing: All bidders intending to attend pre-bid meeting must send their interest through email (at least 2 hours prior to the scheduled time of pre-bid meeting) to the purchaser. E-mail received from bidders within specified timeline shall be invited through email to attend the meeting.

Advisories for the bidders attending the pre-bid meeting:

(1) All the Bidders who have submitted their registration details and interest to attend the pre-bid meeting will be invited to join as guests through the link shared in mail.

(2) All bidders/participants mandatorily have to pin MNGL screen on their computer screens during the pre-bid meeting.

(3) Bidders shall be allowed to discuss their queries in sequence of their responses received.

(4) Time slot shall be allotted to each bidder to ask his queries.

(5) Recording of the pre-bid meeting by the bidders is strictly prohibited. Subsequent to pre-bid meeting, corrigendum shall be issued by the purchaser regarding clarifications or queries raised during meeting.

5.0 OTHERS

5.1 Bid Document is non-transferable.

5.2 Bids complete in all respects should reach on or before the BID DUE DATE AND TIME. Bids through Fax/ E-mail shall not be considered.

5.3 The Bid Document calls for offers on single point "Sole Bidder" responsibility basis. Order will be placed on the "Sole Bidder" alone (in whose name the bid document has been issued) who will be responsible for all contractual purposes. Further the bidders are advised to ensure that their offer is on single bidder responsibility basis and in total compliance of scope of supply as specified in Bid Document.

5.4 The bid should be prepared by the "Sole Bidder" and should be sent to MNGL directly. MNGL reserve the right to reject offers made by intermediaries' representatives.

5.5 Bidder shall ensure that Bid Security having a validity of 06 (Six) months from the bid due date, must accompany the offer in the format made available in the Bid Document.



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- 5.6 This Invitation for Bids (IFB) is an integral and inseparable part of the enclosed Bid Document.
- 5.7 MNGL reserves the right to accept or reject any or all offers without assigning any reason, whatsoever.

5.8 ZERO DEVIATION TENDER

Bidder shall note that if any deviations are taken to the under mentioned provisions of bid documents by the bidder the bid is liable to be rejected: -

- i) Do not meet BEC Criteria
- ii) Bid Security
- iii) Performance Security (Contract Performance Bank Guarantee) – As specified in GCC
- iv) Delivery Period
- v) Terms of Payment
- vi) Force Majeure
- vii) Resolution of Dispute / Arbitration
- viii) Termination of Contract,
- ix) Warranty and Guarantee
- x) Offer not submitted for complete scope of work
- xi) Firm prices
- xii) Prices not quoted as per Schedule of Rates formats.
- xiii) The Bidder is not put on Black / holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
- xiv) Bidder is under liquidation.
- xv) Bids not conforming to technical specification/requirements.
- xvi) Any other such provisions if specifically stipulated elsewhere in the Bid Document.
- xvii) Price Reduction Schedule.

However, MNGL reserve the right to request the bidder to withdraw the deviations against above-mentioned provisions of Bid Documents.

THIS IS NOT AN ORDER

Yours faithfully,
for Maharashtra Natural Gas Limited, Pune

Balakrishna Thatikonda
Deputy Manager (C&P)

Note: Please confirm your intention to quote or not within 5 (Five) days. In case not intending to quote then please give your valuable feedback to us.



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SECTION I
2. BIDDERS ELIGIBILITY CRITERIA (BEC)
AND
BIDDER EVALUATION CRITERIA
(ANNEXURE - I to IFB)



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ANNEXURE-I to IFB

BIDDER'S ELIGIBILITY CRITERIA (BEC) AND BID EVALUATION CRITERIA

1. Brief Project Details:

Maharashtra Natural Gas Limited (**MNGL**) is a joint venture company of M/s. GAIL (India) Limited & M/s. Bharat Petroleum Corporation Limited (BPCL). MNGL has been set up to distribute natural gas for household / commercial sectors including setting up CNG filling stations for vehicle in Pune, Nashik-Dhule, Buldana-Nanded-Parbhani & Sindhudurg Geographical Areas in Maharashtra, Ramanagara in Karnataka and Nizamabad-Adilabad-Nirmal-Mancherial-Kumuram Bheem Asifabad-Kamareddy in Telangana.

2. Brief Scope and Quantity of Supply:

This tender deals with Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.

2.1 Supply Portion

2.1.1 Scope includes Design, Engineering, Manufacturing, Assembly, Inspection, Supply, Transportation, Unloading at MNGL Site / Store, Installation, Testing & Commissioning and Performance Acceptance Test of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages.

The requirement is as under:

Sr. No.	Item Description	Requirement (Qty in Nos)		
		1200 SCMH (3 Stage)	1600 SCMH (2 Stage)	Total
1	Gas Engine Driven (GED) Compressor Packages	42	5	47
2	Electric Motor Driven (EMD) Compressor Packages	15	5	20
Total		57	10	67

2.1.2 Capacity as per the specifications and other details given in Technical Specifications of respective part, including Supply, Erection and Commissioning spares as required.

2.1.3 The Compressors are to be dispatched in lots as defined in Time Schedule for supply hereinafter.

2.1.4 Installation, Testing, Commissioning and Performance Acceptance Test of each compressor package after intimation from MNGL.



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2.2 Operation and Comprehensive Maintenance Portion

2.2.1 Operation Services during Warranty Period & Nine years after Warranty period.

2.2.2 Comprehensive Maintenance Services during Warranty Period & nine years after the Warranty period, inclusive of consumables and Spares (including services for major overhaul of Engine and Compressor).

2.2.2 Bidder must quote for complete quantity and scope of work i.e. Supply, Installation, Testing, Commissioning, Performance Acceptance Test, Operation & Comprehensive Maintenance. Bid submitted for partial scope of any part shall be rejected.

2.3 Type and Duration of Contract

2.3.1 Rates will be firm and fixed during the contract period.

2.3.2 Supply of Compressors:

The duration of contract shall be for 02 (Two) years from the date of issuance of PO / LOA / NOTIFICATION OF AWARD.

2.3.3 Operation and Comprehensive Maintenance:

The duration for comprehensive maintenance shall be 10 (Ten) years (01 year during warranty and 09 years post-warranty).

2.4 Time Schedule / Schedule for Supply:

Delivery of compressors shall be in lots. All Compressors shall be supplied & commissioned as per schedule given below:

2.4.1 Supply Portion:

Delivery order shall be released by MNGL in quantities required as per our target and plan. The bidder should agree to supply the quantity mentioned in the delivery order as follows:

Delivery basis to be on FOT store / site basis.

Sr. No.	Item Description	Completion Period
1.	Design, Engineering, Testing, Supply (FOT Site basis) including packaging, forwarding, transportation, customs clearance, etc.	05 (Five) months from date of written intimation / Delivery Order by MNGL.

2.4.2 Service Portion:

Sr. No.	Item Description	Completion Period
1.	Erection, Testing & Commissioning of GED / EMD Compressor Packages at site.	Within 10 days from the date of intimation by MNGL for each compressor package.



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2.4.3 After commissioning of compressor package, Performance Acceptance Test will be carried out as per terms and conditions.

2.4.4 For applicability of PRS calculation, date of receipt at site / stores shall be considered as date of delivery.

3. Bidder's Eligibility Criteria (BEC):

The following are the BEC parameters: -

A. BEC – Technical:

A.1 The Bidder shall have the single point responsibility for manufacturing / packaging, supplying, installing, and commissioning of Gas Engine Driven (GED) and Electric Motor Driven (EMD) CNG Compressor Package.

The Bidder shall submit undertaking for single point responsibility for manufacturing / packaging supplying, installing, commissioning and comprehensive O&M of CNG online Gas Engine Driven and Electric Motor Driven compressors.

A.2 The Bidder shall be a regular manufacturer / authorized supplier / authorized service provider of Gas Engine Driven (GED) and Electric Motor Driven (EMD) CNG Compressor Package.

The Bidder shall submit following documents:

- i) In case of Original Equipment Manufacturer (OEM), confirmation on their letter head stating that they are a manufacturer of CNG GED compressors and EMD compressors in line with the specification mentioned in the tender.
- ii) In case of Authorized Supplier / Authorized Service Provider, a valid authorization letter on the letterhead of OEM showing the name of the Bidder as their Authorized Supplier / Authorized Service Provider for executing the entire tender and giving reference no. of the tender & name of the tender. The authorization shall be valid for 6 (Six) months beyond contract tenure of the tender.

A.3 The Bidder in last Seven years , reckoned from the submission of bid date, must have designed, engineered, manufactured / packaged, tested, supplied & commissioned in India from the proposed facility of manufacturing / packaging at least **10 Nos. of 1200 SCMH or higher capacity** to the proposed package in terms of type of Compressor (i.e. Reciprocating Hydrocarbon Gas Compressor / Electric Motor Driven Compressor), size of equipment (i.e. Shaft Power, Compressor Capacity, Discharge Pressure) and type of driver i.e. Gas Engine / Electric Motor and which have completed the continuous trouble free operation for minimum 8000 hrs as on the bid due date.

The Bidder shall provide copies of detailed Purchase Order, approved technical data sheet / inspection certificate, release note from Client / Consultant, Performance certificate from Client indicating year of supply, number of packages and date when minimum 8000 hours have been clocked.



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- A.4 The Bidder must have full-fledged service support setup in India to provide the Operation & Maintenance Service.

The Bidder shall submit following on their letter head:

- i) Details of present service set up
- ii) List of manpower to be made part of service set up for Maharashtra Natural Gas Ltd. (MNGL) for handling maintenance activities.
- iii) Self-declaration for deploying the required manpower for meeting MNGL's requirement.

- A.5 The Bidder must confirm willingness to provide their data address and protocol for automation and Supervisory Control and Data Acquisition (SCADA) integration.

The Bidder shall submit confirmation on their letter head stating that necessary data address and protocol will be submitted along with QAP (Quality Assurance Plan), drawing approval and also whenever demanded by MNGL.

To meet the technical qualification criteria as stated above, bidder shall provide documentary evidence specified above in support of his claim.

In absence of requisite documents, MNGL reserves the right to reject the bid without making any reference to the bidder.

B. BEC – Financial:

B.1 Turnover:

The bidder should have achieved a **minimum annual turnover of Rs. 4285 Lakhs** in any one of the last 03 (Three) audited financial years i.e. **2023-24, 2024-25 and 2025-26.**

B.2 Net worth:

Net worth must be positive as per the last audited financial statement i.e. for the year **2025-26.**

B.3 Working Capital:

The bidder should have a **minimum working capital of Rs. 857 Lakhs** as per the latest audited balance sheet i.e. for the year **2025-26.**

If the bidder's working capital is inadequate, the bidder should supplement this with a letter from the bidder's bank, having a net worth of not less than Rs. 100 crores, confirming the availability of a line of credit to cover the inadequacy of the previous year and meet the current working capital requirement.



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Bidder must submit documentary evidence such as balance sheet & Profit & Loss A/c Statement for the last three audited financial years i.e. 2023-24, 2024-25 and 2025-26 in support of the above.

If the audited financial results of the immediately preceding financial year i.e. 2025-26 are not available, then the audited financial results of the year immediately prior to 2025-26 i.e. 2024-25 shall be considered for calculation of Net Worth and Working Capital and Audited Financial Results of the year 2022-23, 2023-24 & 2024-25 shall be considered for calculation of Annual Turnover as specified in Clause B of BEC-Financial Criteria.

In the absence of requisite documents, MNGL reserves the right to reject the bid without making any reference to the bidder.

4. Evaluation and Award of Work:

- 4.1 The Purchaser will evaluate and compare the bids which have been determined to be substantially responsive.
- 4.2 Prices shall be evaluated on an overall basis including GST quoted, to arrive at the lowest evaluated cost (L1) to Purchaser. Bidder must quote against all the items of the quoted part(s), failing which bid shall be liable for rejection.
- 4.3 The evaluated price of bidders shall include the following:

Sr. No.	2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages
i)	Total value for supply of compressor, air compressor, HCV Trailer Panel, tools & tackles and string test including Packing, Forwarding & transportation charges and re-transportation charges.
ii)	Total value towards Installation, Erection and Commissioning, performance acceptance test (PAT)
iii)	Total value towards Operation
iv)	Total value towards Comprehensive Maintenance
v)	GST on above (i), (ii), (iii) & (iv)
vi)	Technical loading towards gas loss and gas / power consumption as defined in tender document.

- 4.4 Ranking of bidders i.e. L1, L2, L3 & L4 shall be decided based on the total evaluated price as defined in Clause No. 4.3 above. The lowest evaluated price for complete SOR shall be considered as L1 price.

Note: In case of tie in more than one bidder(s), the inter-se ranking shall be decided on the basis of highest turnover in any one of the preceding 03 (Three) financial years i.e. 2023-24, 2024-25 and 2025-26 amongst the bidders.



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- 4.5 **Further, it is intended to award this job to 02 (Two) parties at L1 rate in the ratio of 60% (L1) : 40% (L2).**

In order to do so, the L2 bidder shall be asked to match the item-wise rates of L1 bidder. In case L2 bidder fails to match the item-wise rates of L1 bidder, an opportunity shall be given to L3, L4, L5 bidders and so on to match the item-wise rates of L1 bidder and order shall be placed accordingly.

In case of 2 parties, an award shall be made in the **ratio of approx. 60%:40%** as specified below:

- **40 Nos. Compressor Packages to L1 bidder as per below breakup**
 - 25 Nos. 3 stage 1200 SCMH Gas Engine Driven (GED) Compressors
 - 3 Nos. 2 stage 1600 SCMH Gas Engine Driven (GED) Compressors
 - 9 Nos. 3 stage 1200 SCMH Electric Motor Driven (EMD) Compressors
 - 3 Nos. 2 stage 1600 SCMH Electric Motor Driven (EMD) Compressors
- **27 Nos. Compressor Packages to L2 bidder as per below breakup**
 - 17 Nos. 3 stage 1200 SCMH Gas Engine Driven (GED) Compressors
 - 2 Nos. 2 stage 1600 SCMH Gas Engine Driven (GED) Compressors
 - 6 Nos. 3 stage 1200 SCMH Electric Motor Driven (EMD) Compressors
 - 2 Nos. 2 stage 1600 SCMH Electric Motor Driven (EMD) Compressors

In case none of the bidder agrees to match L1 rate, **the entire quantity shall be awarded to L1 bidder i.e. 67 Nos. Compressor Packages to L1 bidder** as per below breakup

- 42 Nos. 3 stage 1200 SCMH Gas Engine Driven (GED) Compressors
- 5 Nos. 2 stage 1600 SCMH Gas Engine Driven (GED) Compressors
- 15 Nos. 3 stage 1200 SCMH Electric Motor Driven (EMD) Compressors
- 5 Nos. 2 stage 1600 SCMH Electric Motor Driven (EMD) Compressors

Important Notes:

1. **Purchase Order shall be placed for combined quantity as per breakup given above, however, actual required quantities for 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) may vary within the overall Purchase Order value, depending on actual site requirements.**
2. **While matching the rates of L1 bidder, technical loading towards the power consumption shall be equally distributed (on positive / negative side) in the comprehensive maintenance period of 10 (Ten) years.**



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SECTION II

3. INSTRUCTION TO BIDDERS (ITB)



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 - 20. Mode of Payment
 - 21. Agent/ Consultant/ Representative/ Retainer/ Associate
- D. Submission of Bids
 - 22. Deadline for Submission of Bids
 - 23. Late Bids
 - 24. Modification and Withdrawal of Bids
- E. Bid Opening and Evaluation
 - 25. Bid Opening
 - 26. Process to be Confidential
 - 27. Contacting the Employer
 - 28. Examination of bids and Determination of Responsiveness
 - 29. Opening of Price Bids
 - 30. Correction of Errors
 - 31. Conversion to Single Currency for Comparison of Bids
 - 32. Evaluation and Comparison of Bids
 - 33. Preference for Domestic bidders
 - 34. Purchase Preference
 - 35. Compensation of Extended Stay – **Not Applicable**



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F. Award of Contract

36. Award
37. Employer's Right to accept any bid and to reject any or all Bids
38. Notification of Award
39. Signing of Agreement
40. Contract Performance Security
41. Corrupt or Fraudulent Practices
42. Failure by the contractor to comply with the provisions of the contract
43. Termination of contract
44. Additions to GCC
45. Procurement From a Bidder Which Shares a Land Border With INDIA



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INSTRUCTIONS TO BIDDERS

INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement (CPP) Portal i.e. <http://etenders.gov.in/eprocure/app>, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<https://etenders.gov.in>) by clicking on the link "Online Bidder Enrolment" option available on the home page. **Enrolment on the CPP Portal is free of charge.**
- (ii) During enrolment/ registration, the bidders should provide the correct / true information including valid email-id & mobile no. All the correspondence shall be made directly with the contractors / bidders through email-id provided.
- (iii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (iv) For e-tendering, possession of valid Digital Signature Certificate (Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY / nCode / eMudra or any Certifying Authority recognized by CCA India on eToken / SmartCard.
- (v) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.
- (vi) Only one valid DSC should be registered by a bidder. Bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse and should ensure safety of the same.
- (vii) Bidders can then log into the site through the secured login by entering their user ID/ password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords, etc., to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.



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- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS:

- (i) For preparation of bid, Bidders shall search the tender from published tender list available on site and download the complete tender document and should take into account corrigendum if any published before submitting their bids.

After selecting the tender document same shall be moved to the 'My favourite' folder of bidders account from where bidder can view all the details of the tender document.

- (ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- (iii) Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.
- (iv) Bidders should get ready in advance the bid documents in the required format (PDF/xls/rar/dwf/jpg formats) to be submitted as indicated in the tender document/schedule. **Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.**
- (v) Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, EPF & other details etc., under "My Space/ Other Important Document" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.

SUBMISSION OF BIDS:

- (i) Bidder should log into the site well in advance for bid submission so that he/ she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay.
- (ii) Bidder should prepare the EMD as per the instructions specified in the NIT / tender document. The details of the eBG / DD / BG / others physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- (iii) While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accepts the same in order to proceed further to submit their bid.
- (iv) Bidders shall select the payment option as offline to pay the EMD and enter details of the eBG / DD / BG / others.
- (v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.
- (vi) Bidders shall note that the very act of using DSC for downloading the tender document



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and uploading their offers is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.

- (vii) Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. For the file size of less than 1 MB, the transaction uploading time will be very fast.
- (viii) If price quotes are required in XLS format, utmost care shall be taken for uploading Schedule of quantities & Prices and any change / modification of the price schedule shall render it unfit for bidding.

Bidders shall download the Schedule of Quantities & Prices i.e. Schedule of Rates, in XLS format and save it without changing the name of the file. Bidder shall quote their rate in figures in the appropriate cells, thereafter, save and upload the file in financial bid cover (Price bid) only.

If the template of Schedule of Quantities & Prices file is found to be modified/corrupted in the eventuality by the bidder, the bid will be rejected and further dealt as per provision of clause no 16.0 of ITB including forfeiture of EMD.

The bidders are cautioned that uploading of financial bid elsewhere i.e. other than in cover 2 will result in rejection of the tender.

- (ix) Bidders shall submit their bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). **The TIA will not be held responsible for any sort of delay, or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.**
- (x) After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the bidders shall **take print out of system generated acknowledgement** number and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.
- (xi) Bidders should follow the server time being displayed on bidder’s dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.
- (xii) All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology.



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ASSISTANCE TO BIDDERS:

- (i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.
- (ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24X7 CPP Portal Helpdesk. The 24 x 7 Help Desk Number 0120-4001002, 0120-6277787 and 0120-4001005. The helpdesk email id is support-eproc@nic.in



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A: GENERAL

1. Scope of Bid

- 1.1 The Purchaser as defined in the General Conditions of Contract, hereinafter "the Purchaser" wishes to receive bids through e-tendering mode for the supply of goods as described in Technical Specifications of this tender document.
- 1.2 The successful bidder will be expected to complete the Scope of supply within the period stated in Scope of Supply of Goods.
- 1.3 Throughout these bidding documents, the terms "bid" and "tender" and their derivatives ("bidder / tenderer", "bid / tendered", "bidding / tendering", etc.) are synonymous, and day means calendar day. Singular also means plural.

2. Eligible Bidder

- 2.1 Bidders shall, as part of their bid, submit a written power of attorney, authorizing the signatory of the bid to bind the bidder.
- 2.2 This Invitation for Bids is open to any bidder and to pre-qualified bidders in case of limited tender.
- 2.3 Bidders should not be associated or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
- 2.4 The bid should be from actual manufacturers.
- 2.5 The bidder shall not be under a declaration of ineligibility by Purchaser for corrupt or fraudulent practices as defined in ITB.
- 2.6 While evaluating the bids, pursuant to Bid Evaluation Criteria as specified in the Global notice of IFB, bidders past performance shall also be assessed for ascertaining the responsiveness of the bid. In such a case the decision of Purchaser shall be final and binding on the bidder.
- 2.7 The Bidder is not put on Black / holiday list by MNGL / MoP&NG /Oil Public Sector Enterprise(s).

3. Bid Evaluation Criteria: -

3.1 Technical Eligibility Criteria - As per Annexure – I of IFB

3.2 Financial Eligibility Criteria - As per Annexure – I of IFB

4. VOID



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5. One Bid per Bidder

5.1 A firm shall submit only one bid in the same bidding process. A bidder who submits or participates in more than one bid will cause all the proposals in which the bidder has participated to be disqualified.

5.2 More than one bid means bid(s) by bidder(s) having same Proprietor / Partners / Limited Liability Partner in any other bidder(s). Further, more than one bids shall also include two or more bidders having common power of attorney holder.

Failure to comply this clause during tendering process will disqualify all such bidders from process of evaluation of bids.

5.3 Alternative Bids shall not be considered.

5.4 The provisions mentioned at Sl. No. 5.1 and 5.2 shall not be applicable wherein bidders are quoting for different Items / Sections / Parts / Groups / SOR items of the same tender which specifies evaluation on Items / Sections / Parts / Groups / SOR items basis.

6. Cost of Bidding

6.1 The bidder shall bear all costs associated with the preparation and submission of the bid, and MNGL will in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

7. Site Visit

7.1 The bidder may visit and examine the site of works and its surroundings and obtain for himself on his own responsibility, all information that may be necessary for preparation of the bid and entering into contract. The cost of visiting the site shall be at bidder's own expenses.

7.2 The bidder or any of its personnel or agents will be granted permission by the Purchaser to enter upon its premises and land for the purpose of such visits, but only upon the express condition that the bidder, its personnel, and agents will release and indemnify the Purchaser and its personnel and agents from and against all liabilities in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any loss, damage, costs, and expenses incurred as a result of the inspection.



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B. BIDDING DOCUMENTS

8. Content of Bidding Document

- 8.1 The Bidding Documents/ Tender Documents are those stated below and should be read in conjunction with any addenda issued in accordance with ITB Clause 10.
- 8.2 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. The Invitation for Bids (IFB) together with all its attachments thereto, shall be considered to be read, understood and accepted by the bidders. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at bidder's risk and may result in the rejection of his bid.

9. Clarification of Bidding Documents

- 9.1 A prospective Bidder requiring any clarification of the bid documents may notify the Owner and / or the Consultant as the case may be, in writing or by cable (hereinafter, the term 'cable' is deemed to include electronic mail and facsimile) at the address indicated in the tender. The Owner / Consultant will respond in writing to any request for clarification of the bid documents which it receives after issue of the bid documents but prior to at least one (01) working day before the pre-bid meeting date. Owner will not entertain any queries received after 1800 HRS post one (1) day of pre-bid meeting. Written copies of the Owner's/ Consultant's response (including an explanation of the query but without identifying the source of inquiry) will be hosted on CPPP's e-procurement website <https://etenders.gov.in> and MNGL website along with the corrigendum before the bid due date. All such clarifications issued shall deem to form a part and parcel of the Bid documents.

Any Clarification or information required-by the bidder but same not received by the Employer, one (01) working day prior to the pre-bid meeting date, the same is liable to be considered as no clarification/information required.

10. Amendment of Bidding Documents

- 10.1 At any time prior to the bid due date, the PURCHASER may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents, by issuing addenda.
- 10.2 Any addendum /corrigendum/ clarifications to bidders query thus issued shall be part of the bidding documents pursuant to ITB Clause- 8.0 and shall be hosted on the on website www.mnql.in and CPPP's e-tendering website before bid due date. All the prospective bidders who have attended the Pre-Bid meeting/ submitted bid document fee, shall be informed by email/ post about the addendum/ corrigendum/ clarifications to bidders query for their reference. Bidders desirous to submit its bid have to take into consideration of all the addendum(s)/ corrigendum (s)/ clarifications to bidders query hosted on the above websites before submitting the bid.
- 10.3 Bidders are advised to visit MNGL's websites and CPPP's e-tendering website from time to time to get updated information / documents.



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- 10.4 In case of any inconsistency between an addendum and this tender document, the addendum shall prevail and in similar case between two or more addenda, the last issued addendum shall prevail.
- 10.5 The Purchaser may, at its discretion, extend the bid due date in order to allow prospective bidders, a reasonable time to furnish their most competitive bid taking into account the addenda / corrigenda issued.



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C. PREPARATION OF BIDS

11. Language of Bid

- 11.1 The bid prepared by the bidder and all-correspondence/drawings and documents relating to the bid exchanged by bidder and MNGL shall be written in English language. Any printed literature furnished by the bidder may be written in another language so long as accompanied by an ENGLISH translation duly authenticated by the chamber of commerce of Bidders country, in which case, for the purpose of interpretation of the bid, the ENGLISH translation shall govern. Metric measurement system shall be applied.

12. Documents Comprising the Bid

- 12.1 The bid prepared by the bidder shall comprise of the following components that are required to be provided on the e-tendering portal:

12.1.1 Technical cover:

Scanned documents (duly signed by the authorized signatory) to be uploaded by the bidder on the portal as per list below:

- i) EMD/Bid Security payment details.
- ii) Duly Signed and Stamped BIDDERS ELIGIBILITY CRITERIA and BID EVALUATION CRITERIA (Annexure-I to IFB)
- iii) Documents for qualification of BEC - Technical.
- iv) Documents for qualification of BEC - Financial.
- v) Line of credit for Negative Working Capital.
- vi) Duly filled, signed and stamped Forms and Formats.
- vii) Power of Attorney in favour of person(s) signing the bid.
- ix) Addendum, Corrigendum and Other Documents if any.
- x) Copy of GST Certificate and PAN Card.
- xi) Cancelled Cheque / Bank Mandate.
- xii) Duly signed and stamped copy of Schedule of Rates (SOR) Instructions.
- xiii) Technical details of offered Compressor Packages along with Guaranteed Parameters to be submitted by the bidder.

12.1.2 Financial cover:

Price bid SOR as per prescribed format (xls) on the e-tender portal.

IMPORTANT NOTE: Bidders are cautioned that uploading of financial bid elsewhere i.e. other than in financial cover will result in rejection of the bid.

- 12.2 All the documents submitted shall be duly signed and stamped on each page by the bidder or an authorized signatory of the bidder.
- 12.3 Bidders are advised to submit quotations based strictly on the terms and conditions and specifications contained in the bid document and not stipulate any deviations. Should it, however, become unavoidable, deviations should be stipulated only in the prescribed Pro forma. Owner reserves the right to evaluate quotations containing



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deviations having financial implications after adding the cost for such deviations as determined by Owner.

- 12.4 Original schedule of rates duly filled in shall not contain any condition whatsoever. Any condition given in this part shall not be considered and shall render the offer liable for rejection.
- 12.5 All signatures in bids shall be dated, as well as all pages of bids shall be initialed at lower right-hand corner by the Bidder or by a person holding power of attorney authorizing him to sign on behalf of the bidder before the submission of bids.
- 12.6 The Bidder's bid is central to the evaluation and selection process. Therefore, it is important that the Bidder carefully prepares the bid and answers all questions completely. Missing information and vague answers may delay the evaluation of a bid and may impair the Bidder's chances of success.
- 12.7 Information received by Purchaser from the Bidder will be disclosed to Purchaser's employees and/or advisers or external consultants for the purpose of evaluating the bid response.

13. Bid Prices

- 13.1 The Bidder shall indicate in the appropriate Price Schedule, the unit prices (where applicable) and total price of the services / works it proposes to execute under the contract. If quoted in separate sheets and any variation in item description, unit or quantity is noticed, the bid is liable to be rejected.
- 13.2 Prices quoted by the bidder, shall remain firm, fixed and valid until completion of the contract and will not be subjected to any variation, except statutory variation (as specified in tender document) or provision for price variation in the tender document.
- 13.3 All corrections and alterations in the entries shall be signed in full by the bidder with date. No erasures or over-writings are permissible in the submitted documents.
- 13.4 Bidder shall quote the all-inclusive prices as per scope of work and SOR, taking into consideration applicable GST, overheads and if applicable, all provision of safety gadgets to their personnel, cost of material as per scope of work, transportation, conveyance, trainings, recruitments, communication charges, cost for providing tools & tackles, equipment, machineries, minimum spares, etc. and nothing extra shall be payable by the Purchaser.
- 13.5 Bid prices must be arrived at without agreement with any other Bidder of this tender for the purpose of restricting competition. Prices quoted by the Bidder must not be disclosed to any other Bidder of this tender. Bidder must not attempt to induce any other Bidder to submit or not submit a bid for restricting competition.
- 13.6 Alternative bids shall not be considered.
- 13.7 Conditional discount, if offered, shall not be considered for evaluation.



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- 13.8 The bidder shall have to raise the Cenvatable invoice.
- 14. Bid Currencies**
Bidders shall submit their bids in Indian Rupees only.
- 15. Bid Validity**
15.1 Bids shall be kept valid for 4 (Four) months from the final bid due date.
- 15.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing or by fax / e-mail. A bidder may refuse the request without forfeiture of his bid security, A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of its bid security for the period of the extension and in accordance with Clause 16 in all respects.
- 16. Bid Security**
16.1 The bidder shall furnish, as part of his bid, bid security in the amount specified in the Invitation for Bids (IFB).
- 16.2 The bid security is required to protect MNGL against the risk of bidder's conduct which would warrant the security's forfeiture, pursuant to Clause-16.7
- 16.3 VOID
- 16.4 Any bid not secured in accordance with Clause-16.1 may be rejected by MNGL as nonresponsive.
- 16.5 Unsuccessful bidder's bid security will be discharged/ returned as promptly as possible after award of contract and signing of agreement.
- 16.6 The successful bidder's bid security will be discharged upon the bidder's accepting the award & signing the Agreement, pursuant to Clause-39 and furnishing the Contract Performance Security pursuant to Clause-40.
- 16.7 The bid security may be forfeited:
a) If a bidder withdraws his bid during the period of bid validity.
b) in the case of a successful bidder, if the bidder fails:
i) to accept the Notification of Award/Service Order (SO) or
ii) to furnish Contract Performance Security in accordance with Clause-40.
iii) to accept arithmetical corrections,
c) If the Bidder changes the proposed manufacturer after submission of his bid.
- 16.8 Bid Security should be in favour of Maharashtra Natural Gas Limited and addressed to MNGL. In case Bid Security is in the form of Bank Guarantee or Letter of Credit, the same must indicate the Bid Document and the work for which the bidder is quoting. This is essential to have proper co-relation at a later date. The Bid Security shall be in the form provided at F-4 (Bank Guarantee).



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- 16.9 The Indian / Domestic firms registered with NSIC/MSME, under its single point registration scheme are exempted from furnishing Tender Fee & Bid Security, provided they are registered for the items / work they intend to quote and subject to their enclosing with their bid a copy of latest and current registration certificate.**
- 17. Pre-Bid Meeting – As per IFB**
- 17.1 The bidder(s) or his designated representative, who have purchased bid document, are invited to attend a pre-bid meeting which will take place as indicated in IFB
- 17.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 17.3 Text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted without delay (without identifying the sources of the question) to all purchasers of the bidding documents. Any modification of the bidding documents listed in ITB Sub-Clause 8.1 that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 and not through the minutes of the pre-bid meeting.
- 17.4 Non-attendance of the pre-bid meeting will not be a cause for disqualification of a bidder.
- 18. Format and Signing of Bid**
- 18.1 The original of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the bidder. The name and position held by each person signing, must be typed or printed below the signature. All pages of the bid except for unamended printed literature where entries or amendments have been made shall be initialed by the person or persons signing the bid.
- 18.2 The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.
- 19. Zero Deviation**
- 19.1 Bidders shall note that if any deviation are taken to the under mentioned provisions of Bid Document by the Bidder the bid is liable to be rejection.
- i) Do not meet BEC Criteria
 - ii) Bid Security
 - iii) Performance Security (Contract Performance Bank Guarantee), As specified hereinafter
 - iv) Delivery Period
 - v) Terms of Payment
 - vi) Force Majeure
 - vii) Resolution of Dispute/Arbitration
 - viii) Termination of Contract,
 - ix) Warranty and Guarantee
 - x) Offer not submitted for complete scope of work
 - xi) Firm prices



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- xii) Prices not quoted as per Schedule of Rates formats.
- xiii) The Bidder is not put on Black / holiday list by MNGL/MoP&NG/Oil Public Sector Enterprise(s).
- xiv) Bidder is under liquidation.
- xv) Bids not conforming to technical specification/requirements.
- xvi) Any other such provisions if specifically stipulated elsewhere in the Bid Document.
- xvii) Price Reduction Schedule.

However, MNGL reserve the right to request the bidder to withdraw the deviations against above mentioned provisions of Bid Documents.

20. Mode of Payment

Maharashtra Natural Gas Limited will issue A/C payee cheque for payment payable at par in case work is awarded to bidder.

21. Agent/ consultant/ Representative/ Retainer/ Associate [Applicable for LCB tenders only]

21.1 MNGL would prefer to deal directly with the manufacturers/ principals abroad but in case they decide to have their Agent/Consultant/Representative/Retainer/ Associate in India and pay commission for their services against a particular tender, it should be bare minimum, and the principal would have to certify that such a commission is commensurate with the services rendered to them by such an Agent/ Consultant /Representative/ Retainer/ Associate in India. The principal will also have to broadly list out services to be rendered by the Agent/ Consultant/ Representative Retainer/ Associate in India.

21.2 In the event bidder is having as Agent/ Consultant/ Representative/ Retainer/ Associate/ servicing facilities in India (who is not an employee of the bidder) the bidder should indicate in their offer the name of such an Agent/ Consultant/ Representative/Retainer / Associate, they have for services in India. The bidder must also clearly indicate the commission payable to the Agent/Consultant/ Representative Retainer/Associate in rupees in terms of Agreement (enclosing copy of the same). The bidder, in his bid will indicate the nature and extent of service to be provided by such an Agent/Consultant Representative/Retainer/ Associate on behalf of the bidder and remuneration therefore provided in the price, as a separate item, quoted by the bidder to MNGL. Such remuneration/commission will be paid by MNGL in non-convertible Indian currency in India. Should it be established at any subsequent point of time that the above statement of the bidder is not correct or that any other amount of remuneration commission either in India or abroad is being paid to anyone (who is not an employee of the bidder), the bidder would be liable to be debarred from participating in the future tenders of MNGL.

The following particulars will also be furnished by the bidder:

- (i) The precise relationship between the foreign manufacturer/principal and their Agent/Consultant Representative / Retainer/ Associate in India.



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- (ii) The mutual interest which the manufacturer/principal and the Agent/ Consultant/ Representative Retainer/Associate in India have in the business of each other.
- (iii) Any payment which the Agent/ Consultant/ Representative/ Retainer/ Associate receives in India or abroad from the manufacturer/principal whether as a commission for the contract or as a general fee.
- (iv) All services to be rendered by the Agent Consultant Representative / Retainer/Associate.

21.3 Overseas bidder should send their bids directly and not through Agent/ Consultant/ Representative / Retainer /Associate Agent Consultant Representative Retainer/ Associate of the overseas manufacturers/suppliers are, however, permitted to purchase bidding documents and attend bid opening provided such as Agent/ Consultant / Representative/ Retainer/ Associate has a power of attorney/ letter of authority setting out very clearly his role, which will be limited to such areas of activity as purchase of bidding documents, attending of bid opening and claiming of payment for their services, provided further that such a power of attorney/letter of authority is submitted to MNGL in advance for scrutiny and acceptance or otherwise.



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D. SUBMISSION OF BIDS

22.0 PREPARATION OF BIDS

- 22.1 Scanned documents (duly signed by the authorized signatory) and/or pre-formatted excel files to be uploaded by the bidder on the portal which shall comprise of the documents mentioned in Clause No. 10 of ITB.

Note: All pages of the bid offer to be signed and stamped by an authorized representative (as described in bid document) of the bidder.

Bidder must ensure numbering of all pages submitted in bid document. Further total number of pages submitted in bid document must be mentioned in the covering letter of bid submitted.

- 22.2 The price bid shall contain Schedule of Rates dully filled in the prescribed format available on the e-portal.

23. DEADLINE FOR SUBMISSION OF BID

- 23.1 The bid must be submitted on the specified e-tendering portal as specified in IFB not later than the time and date as specified in IFB. The online e-tendering portal will not allow any bid or part thereof whatsoever to be submitted after the due time on the due date.

- 23.2 The Purchaser may, in exceptional circumstances and at its discretion, on giving reasonable notice by email or any written communication to all prospective bidders who have been issued the bid document to extend the deadline for the submission of bids in which case all rights and obligations of the Purchaser and bidders, previously subject to the original deadline will thereafter be subject to deadline as extended.

24. LATE BIDS

Any Bid Security / EMD received by the Purchaser after the deadline for submission of bid may render the bid to be declared "Late" and such bid is liable for rejection; such EMD may be returned unopened to the bidder at the sole discretion of the Purchaser.

25. MODIFICATION AND WITHDRAWAL OF BIDS

- 25.1 The bidder may modify or withdraw its bid after the bid submission, but, before the due date of submission as per provisions provided on the e-tendering portal. After the bid due date & time however, no modifications whatsoever are allowed in the bid.

- 25.2 No bid shall be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid form. In case of request in written by the authorized signatory for withdrawal of a bid during this interval, the Bidder's bid security shall be forfeited.



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E. BID OPENING AND EVALUATION

26. Bid Opening

- 26.1 The Purchaser will open all bids on the e-tendering portal in the presence of bidder(s) representatives who choose to attend, at the time, on the date and place (as specified in IFB). The bidder(s) representatives, who are present, shall sign an attendance sheet evidencing their attendance, if so required by the Purchaser.
- 26.2 The Bidder's names and the presence or absence of requisite Bid Security (EMD) and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for bids without EMD.
- 26.3 Bids that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Bidder's specific attention is drawn to this stipulation to enable the representative of the Bidder at the bid opening time to bring out to the attention for the Purchaser any documents pertaining to its bid is not being acknowledged and relevant portions read out.
- 26.4 The Purchaser will prepare a bid opening statement to be signed by all representatives present during bid opening.

27. Process to be Confidential

- 27.1 Information relating to the examination, clarification, evaluation and comparison of bids, and recommendations for the award of a contract, shall not be disclosed to bidders or any other persons officially concerned with such process. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of the bidder's bid.

28. Contacting the Employer

- 28.1 From the time of bid opening to the time of Contract award, if any bidder wishes to contact the Employer on any matter related to the bid, it should do so in writing.
- 28.2 Any effort by the bidder to influence the Employer in the Employer's bid evaluation, bid comparison, or Contract award decisions may result in the rejection of the bidder's bid.

29. Examination of bids and Determination of Responsiveness

- 29.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid.
- a) meets the Bid Evaluation Criteria.
 - b) has been properly signed.
 - c) is accompanied by the required securities.
 - d) is substantially responsive to the requirements of the bidding documents; and
 - e) provides any clarification and/ or substantiation that the Employer may require to determine responsiveness pursuant to Sub-Clause 28.2.
- 29.2 A substantially responsive bid is one which conforms to all the terms, conditions, and specifications of the bidding documents without material deviations or reservations. A material deviation or reservation is one.



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- a) that affects in any substantial way the scope, quality, or performance of the Works.
- b) that limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the bidder's obligations under the contract; or
- c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

29.3 If a bid is not substantially responsive, it will be rejected by the Employer and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

30. Opening Of Price Bid

30.1 In case of two-part bidding, the Bidders whose bids are found substantially responsive shall be invited to attend the opening of price bid. Such bidders may be required to attend the price bid opening at a short notice. The place, date and time of price bid opening will be informed to all such Bidders. The Bidder's representatives who are present shall sign a register evidencing their attendance.

30.2 The bid prices stated in the price schedules will be announced during price bid opening.

31. Correction of Errors

31.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- a) where there is a discrepancy between the amounts in words and in figures, the amount in words will govern; and
- b) where there is a discrepancy between the unit rate and the total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

31.2 The amount stated in the bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the bid security shall be forfeited.

32. Evaluation and Comparison of Bids

32.1 The evaluation and comparison of bids will be done as per the provisions of the bid evaluation criteria as per Annexure – I to ITB (to be separately enclosed along with bidding document against individual tenders).

33. Preference for Domestic Bidders - VOID

34. Purchase Preference - VOID

35. Compensation for extended stay - Not Applicable



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F. AWARD OF CONTRACT

36. Award

36.1 Subject to Clause 28, MNGL will award the contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest, is determined to be qualified to satisfactorily perform the contract.

37. Employer's Right to Accept Any Bid and to Reject Any or all Bids

37.1 MNGL reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligations to inform the affected bidder or bidders of the ground for MNGL'S ACTION.

38. Notification of Award

38.1 Prior to the expiration of period of bid validity MNGL will notify the successful bidder in writing by fax, cable or telex to be confirmed in writing, that his bid has been accepted. The notification of award/ Service Order will constitute the formation of the Contract.

38.2 Delivery/ completion period shall be counted from the date of notification of award / Service Order.

The notification of award will constitute the formation of a Contract, until the Contract has been effected pursuant to signing of Contract as per Clause 39 of ITB.

Upon the successful bidder's furnishing of contract performance security, pursuant to Clause 40 of ITB, MNGL will promptly notify each unsuccessful bidder and will discharge his bid security, pursuant to Clause 16 of ITB.

39. Signing of Agreement

39.1 MNGL will award the Contract to the successful bidder, who, within 15 days of receipt of the same, shall sign and return the acceptance copy to MNGL.

39.2 The successful bidder shall be required to execute an AGREEMENT in the proforma given in of this standard bidding document on non-judicial paper of appropriate value (the cost of stamp paper shall be borne by the Contractor), within 15 days of the receipt by him of the Notification of Acceptance of Tender. In the event of failure on the part of the successful bidder to sign the AGREEMENT within the above stipulated period, the Bid Security shall be forfeited, and the acceptance of the tender shall be considered as cancelled.

40. Contract Performance Security

40.1 Unless mentioned in notification of award /Fax of Intent / Purchase Order within 15 days of the receipt of the Delivery Order from the PURCHASER, the successful bidder shall furnish the performance guarantee, preferably eBG (electronic Bank Guarantee), in accordance with Clause 12 of General Conditions of Contract in the form provided in the bidding documents. The electronic Bank Guarantee / Letter of Credit towards performance guarantee shall be in the currency of the Contract.

40.2 The performance guarantee shall be for an amount equal to 10% of Delivery Order Value towards faithful performance of the contractual obligations and performance of



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equipment. This electronic Bank Guarantee / Letter of Credit shall be from any Indian scheduled bank or a branch of an international bank situated in India and registered with Reserve bank of India as scheduled foreign bank. This electronic Bank Guarantee / Letter of Credit shall be valid for a period as-stated in Clause-12 of General Conditions of Contract.

- 40.3 Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event MNGL may award the order to the next lowest evaluated bidder or call for new bids.

Detail required for eBG (electronic Bank Guarantee):

Details \ Units	
CONSTITUTION OF COMPANY	Public Limited Company
NAME	Maharashtra Natural Gas Limited
LOCAL ADDRESS	Pride Purple Coronet, 2nd Floor, Baner Road, Baner, Pune, 411045
REGISTERED ADDRESS	Plot No. 27, A-Block, 1st Floor, Narveer Tanajiwadi, P.M.T. Bus Depot, Commercial Bldg., First Floor, Shivaji Nagar, Pune - 411 005.
PAN NUMBER	AAECM5536G
DATE OF INCORPORATION OF THE BENEFICIARY	13-JAN-2006
CONTRACT NO. / SO REFERENCE NO. / TENDER NO.	
BU CODE	AAECM5536G
ACTIVE MOBILE NUMBER OF THE BENEFICIARY	7718865953
ACTIVE E MAIL ID OF THE BENEFICIARY	balakrishna.thatikonda@mngl.in
PIN CODE/ZIP CODE	411045
BANK NAME	State Bank of India
IFSC CODE (FOR SFMS)	SBIN0008966
ACCOUNT NO	35310073625

41. Corrupt or Fraudulent Practices

41.1 MNGL requires that bidders/ contractors observe the highest standard of ethics during the execution of contracts. In pursuance of this policy, the Employer:

- a) defines, for the purposes of this provision, the terms set forth below as follows:
 - i) “corrupt practice” means the offering, giving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the



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detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.

- b) will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- c) will declare a firm ineligible and put on holiday, either indefinitely or for a stated period of time if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a contract.

42. Failure by the contractor to comply with the provisions of the contract

42.1 If the CONTRACTOR refuses or fails to execute the WORK or any separate part thereof with such diligence as will ensure its completion within the time specified in the CONTRACT or extension thereof or fails to perform any of his obligation under the CONTRACT or in any manner commits a breach of any of the provisions of the CONTRACT it shall be open to the EMPLOYER at its option by written notice to the CONTRACTOR:

- a) TO DETERMINE THE CONTRACT in which event the CONTRACT shall stand terminated and shall cease to be in force and effect on and from the date appointed by the EMPLOYER on that behalf, whereupon the CONTRACTOR shall stop forthwith any of the CONTRACTOR's work then in progress, except such WORK as the EMPLOYER may, in writing, require to be done to safeguard any property or WORK, or installations from damage, and the EMPLOYER, for its part, may take over the work remaining unfinished by the CONTRACTOR and complete the same through a fresh contractor or by other means, at the risk and cost of the CONTRACTOR, and any of his sureties if any, shall be liable to the EMPLOYER for any excess cost occasioned by such work having to be so taken over and completed by the EMPLOYER over and above the cost at the rates specified in the schedule of quantities and rate/prices.
- b) WITHOUT DETERMINING THE CONTRACT to take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh contractor or by other means at the risk and cost of the CONTRACTOR. The CONTRACTOR and any of his sureties are liable to the EMPLOYER for any excess cost over and above the cost at the rates specified in the Schedule of Quantities/ rates, occasioned by such works having been taken over and completed by the EMPLOYER.

42.2 In such events of Clause 42.1(a) or (b) above.

- a) The whole or part of the Contract Performance Security furnished by the CONTRACTOR is liable to be forfeited without prejudice to the right of the EMPLOYER to recover from the CONTRACTOR the excess cost referred to in the sub-clause aforesaid, the EMPLOYER shall also have the right of taking possession and utilizing in completing the works or any part thereof, such as materials equipment and plants available at work site belonging to the CONTRACTOR as may be necessary and the CONTRACTOR shall not be entitled for any compensation for use or damage to such materials, equipment and plant.



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b) The amount that may have become due to the CONTRACTOR on account of work already executed by him shall not be payable to him until after the expiry of Six (6) calendar months reckoned from the date of termination of CONTRACT or from the taking over of the WORK or part thereof by the EMPLOYER as the case may be, during which period the responsibility for faulty materials or workmanship in respect of such work shall, under the CONTRACT, rest exclusively with the CONTRACTOR. This amount shall be subject to deduction of any amounts due from the CONTRACT to the EMPLOYER under the terms of the CONTRACT authorized or required to be reserved or retained by the EMPLOYER.

42.3 Before determining the CONTRACT as per Clause 42.1(a) or (b) provided in the judgement of the EMPLOYER, the default or defaults committed by the CONTRACTOR is/are curable and can be cured by the CONTRACTOR if an opportunity given to him, then the EMPLOYER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.

42.4 The EMPLOYER shall also have the right to proceed or take action as per 42.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favour of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the EMPLOYER to give any prior notice to the CONTRACTOR.

42.5 Termination of the CONTRACT as provided for in sub-clause 42.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued up to the date of such termination.

43. Termination of contract

43(A) TERMINATION OF CONTRACT FOR DEATH:

If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partner dies then unless, the EMPLOYER is satisfied that the legal representative of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing CONTRACT, he (the EMPLOYER) is entitled to cancel the CONTRACT for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR'S firm on account of the cancellation of CONTRACT. The decision of the EMPLOYER in such assessment shall be final and binding on the parties. In the event of such cancellation, the EMPLOYER shall not hold the estate of the deceased CONTRACTOR and/or the surviving partners of the CONTRACTOR'S firm liable for any damages for non-completion of CONTRACT.

43(B) TERMINATION OF CONTRACT IN CASE OF LIQUIDATION / BANKRUPTCY ETC.

If the Contractor shall dissolve or become bankrupt or insolvent or cause or suffer any receiver to be appointed of his business or any assets thereof compound with his



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Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a Receiver for the benefits of its Creditors any of them, EMPLOYER shall be at liberty:-

To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by notice in writing to the Contractor or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to his providing a guarantee up to an amount to be agreed upon by EMPLOYER for due and faithful performance of the contract.

43 (C) In case of termination of CONTRACT herein set forth (under clause 42.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by Maharashtra Natural Gas Limited against any type of tender nor their offer will be considered by MNGL against any ongoing tender (s) where contract between MNGL and that particular CONTRACTOR (as a bidder) has not been finalized] for 03 (Three) years from the date of termination by Maharashtra Natural Gas Limited to such CONTRACTOR.

43 (D) Termination for convenience

MNGL may by written notice sent to contractor, terminate the contract, in whole or part, at any time for its convenience. However, the payment shall be released to the extent to which performance of work executed as determined by MNGL till the date upon which such termination becomes effective.

44. Procurement From a Bidder Which Shares a Land Border With INDIA

I. Order (Public Procurement No. 1) dated 23.07.2020, Order (Public Procurement No. 2) dated 23.07.2020 and Order (Public Procurement No. 3) dated 24.07.2020, Department of Expenditure, Ministry of Finance, Govt. of India refers. The same are available at website <https://doe.gov.in/procurement-policy-divisions>.

II. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. For details of competent authority refer to Annexure I of Order (Public Procurement No. 1) dated 23.07.2020. Further the above will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs, Govt. of India

III. "Bidder" (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) for purpose of this provision means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.



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- IV. "Bidder from a country which shares a land border with India" for the purpose of this:
- An entity incorporated, established or registered in such a country; or
 - A subsidiary of an entity incorporated, established or registered in such a country; or
 - An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - An entity whose beneficial owner is situated in such a country; or
 - An Indian (or other) agent of such an entity; or
 - A natural person who is a citizen of such a country; or
 - A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- V. "Beneficial owner" for the purpose of above (4) will be as under:
- In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.
Explanation—
 - "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;
 - "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
 - In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 - In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 - Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 - In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- VI. "Agent" for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.



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- VII. SUBMISSION OF CERTIFICATE IN BIDS: Bidder shall submit a certificate in this regard as Form-I to Section-II. If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate rejection of the bid/termination and further action as per "Procedure for Action in case of Corrupt/Fraudulent/ Collusive / Coercive Practices" of tender document.
- VIII. The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.



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SECTION III

4. GENERAL CONDITIONS OF CONTRACT (GCC)



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**GENERAL CONDITIONS OF CONTRACT - GOODS
(GCC - GOODS)**

FOR SUPPLY

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27. Rejections, Removal of Rejected Equipment & Replacement
28. Termination of Contract
29. Force Majeure
30. Resolution of Disputes/Arbitration
31. Governing Language
32. Notices
33. Taxes & Duties
34. Books & Records
35. Permits & Certificates
36. General
37. Import License
38. FALL CLAUSE
39. Publicity & Advertising
40. Limitation of Liability



**MAHARASHTRA NATURAL
GAS LIMITED**

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1 Definitions

In this document, General Conditions of Contract (GCC-Supply), the following terms shall have the following respective meanings:

- 1.1 The "APPOINTING AUTHORITY" for the purpose of arbitration shall be the MANAGING DIRECTOR or any other person so designated by the EMPLOYER.
- 1.2 "APPROVED" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "APPROVAL" means approval in writing including as aforesaid
- 1.3 BIDDER: Designates the individual or legal entity which has made a proposal, a tender or a bid with the aim of concluding a Contract with the PURCHASER.
- 1.4 CONTRACT shall mean Purchase Order/Contract and all attached exhibits and documents referred to therein and all terms and conditions thereof together with any subsequent modifications thereto.
- 1.5 CONTRACT PRICE shall mean the price payable to the Seller under the Contract for the full and proper performance of his contractual obligations.
- 1.6 COMPLETION DATE shall mean the date on which the goods are successfully commissioned by the Seller and handed over to the PURCHASER.
- 1.7 COMMERCIAL OPERATION shall mean the condition of the operation in which the complete equipment covered under the Contract is officially declared by the PURCHASER to be available for continuous operation at different loads upto and including rated capacity.
- 1.8 The "CONTRACTOR" means the person or the persons, firm or Company or corporation whose tender has been accepted by the EMPLOYER and includes the CONTRACTOR's legal Representatives his successors and permitted assigns.
- 1.9 "CONSTRUCTION EQUIPMENT" means all appliances/equipment and things whatsoever nature for the use in or for the execution, completion, operation, or maintenance of the work or temporary works (as hereinafter defined) but does not include materials or other things intended to form or to be incorporated into the WORK or camping facilities.
- 1.10 "CONTRACT DOCUMENTS" means collectively the Tender Documents, Designs, Drawings, Specification, Schedule of Quantities and Rates, Letter of Acceptance and agreed variations if any, and such other documents constituting the tender and acceptance thereof.
- 1.11 The "CHANGE ORDER" means an order given in writing by the ENGINEER-IN-CHARGE to effect additions to or deletion from and alteration in the works.



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- 1.12 The "COMPLETION CERTIFICATE" shall mean the certificate to be issued by the ENGINEER-IN-CHARGE when the works have been completed entirely in accordance with CONTRACT DOCUMENT to his satisfaction.
- 1.13 COMMISSIONING" shall mean pressing into service of the system including the plant(s), equipment(s), vessel(s), pipeline, machinery(ies), or any other section or sub-section of installation(s) pertaining to the work of the CONTRACTOR after successful testing and trial runs of the same.
- 1.14 "COMMISSIONING" can be either for a completed system or a part of system of a combination of systems or sub-systems and can be performed in any sequence as desired by EMPLOYER and in a manner established to be made suited according to availability of pre-requisites. Any such readjustments made by EMPLOYER in performance of "COMMISSIONING" activity will not be construed to be violating CONTRACT provisions and CONTRACTOR shall be deemed to have provided for the same.
- 1.15 "DAY" means a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day
- 1.16 DELIVERY terms shall be interpreted as per INCOTERMS 2010 in case of Contract with a foreign Bidder and as the date of FOT Site in the case of a contract with an Indian Bidder.
- 1.17 DRAWINGS shall mean and include Engineering drawings, sketches showing plans, sections and elevations in relation to the Contract together with modifications and/or revisions there.
- 1.18 ENGINEER or Engineer-in-Charge of the Project SITE shall mean the person designated from time to time by PURCHASER at SITE and shall include those who are expressly authorized by him to act for and on his behalf for operation of this CONTRACT.
- 1.19 FINAL ACCEPTANCE shall mean the PURCHASER's written acceptance of the Works performed under the Contract after successful completion of performance and guarantee test.
- 1.20 The "FINAL CERTIFICATE" in relation to a work means the certificate regarding the satisfactory compliance of various provision of the CONTRACT by the CONTRACTOR issued by the ENGINEER-IN-CHARGE/EMPLOYER after the period of liability is over.
- 1.21 GOODS shall mean articles, materials, equipment, design and drawings, data and other property to be supplied by Seller to complete the contract.
- 1.22 INSPECTOR shall mean any person or outside Agency nominated by PURCHASER / CONSULTANT through CONSULTANT to inspect equipment, stage wise as well as final, before dispatch, at SELLER's works and on receipt at SITE as per terms of the CONTRACT.



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- 1.23 INITIAL OPERATION shall mean the first integral operation of the complete equipment covered under the Contract with subsystems and supporting equipment in service or available for service.
- 1.24 "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction equipment, aids, tools tackles including setting of site offices with facilities such as power, water, communication etc. establishing manpower organization comprising of Resident Engineers, Supervising personnel and an adequate strength of skilled, semi-skilled and un-skilled workers, who with the so established infrastructure shall be in a position to commence execution of work at site(s), in accordance with the agreed Time Schedule of Completion of Work. "MOBILISATION" shall be considered to have been achieved, if the CONTRACTOR is able to establish infrastructure as per Time Schedule, where so warranted in accordance with agreed schedule of work implementation to the satisfaction of ENGINEER-IN-CHARGE/ EMPLOYER
- 1.25 "NOTICE IN WRITING OR WRITTEN NOTICE" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the addressee and shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.26 PURCHASER/EMPLOYER/OWNER/COMPANY/MNGL shall mean MAHARSHRATRA NATURAL GAS LIMITED (MNGL) having its registered office at Pune (Maharashtra) PURCHASER includes successors, assigns of MNGL.
- 1.27 "PLANS" shall mean all maps, sketches and layouts as are incorporated in the CONTRACT in order to define broadly the scope and specifications of the work or works, and all reproductions thereof.
- 1.28 PERFORMANCE AND GUARANTEE TESTS shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency and operating characteristics as specified in the Contract documents.
- 1.29 PROJECT designates the aggregate of the Goods and/or Services to be provided by one or more Contractors.

Quantities – Bills of quantities
Bills of quantities

Designate the quantity calculations to be taken into account when these calculations are made from detailed or construction drawings, or from work actually performed, and presented according to a jointly agreed breakdown of the Goods and/or Services.

- 1.30 SELLER/SUPPLIER/CONTRACTOR shall mean the person, firm or company with whom PURCHASE ORDER/AWARD OF WORK/CONTRACT is placed/entered into by



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PURCHASER for supply of equipment, materials and services. The term Seller includes its successors and assigns.

- 1.31 SERVICE shall mean erection, installation, testing, commissioning, provision of technical assistance, training and other such obligations of the Seller covered under the Contract.
- 1.32 SITE designates the land and/or any other premises on, under, in or across which the Goods and/or Services have to be supplied, erected, assembled, adjusted, arranged and/or commissioned.
- 1.33 SPECIFICATIONS shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.
- 1.34 SUB-CONTRACT shall mean order placed by the Seller, for any portion of the contracted work, after necessary consent and approval of PURCHASER.
- 1.35 SUB-CONTRACTOR shall mean the person named in the CONTRACT for any part of the work or any person to whom any part of the CONTRACT has been sub-let by the SELLER with the consent in writing of the CONSULTANT/PURCHASER and will include the legal representatives, successors, and permitted assigns of such person.
- 1.36 START-UP shall mean the time period required to bring the equipment covered under the Contract from an inactive condition, when construction is essentially complete to the state of readiness for trial operation. The start-up period shall include preliminary inspection and check out of equipment and supporting subsystems, initial operation of the complete equipment covered under the Contract to obtain necessary pre-trial operation data, perform calibration and corrective action, shutdown inspection and adjustment prior to the trial operation period.
- 1.37 TESTS shall mean such process or processes to be carried out by the Seller as are prescribed in the Contract or considered necessary by PURCHASER or his representative in order to ascertain quality, workmanship, performance and efficiency of equipment or part thereof.
- 1.38 TESTS ON COMPLETION shall mean such tests as prescribed in the Contract to be performed by the Seller before the Works are taken over by the PURCHASER.
- 1.39 "TEMPORARY WORKS" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of works.
- 1.40 "VALUE OF CONTRACT" or "TOTAL CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the prices accepted in tender and/or the CONTRACT rates as payable to the CONTRACTOR for the entire execution and full completion of the work, including change order



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- 1.41 "WORKING DAY" means any day which is not declared to be holiday or rest day by the EMPLOYER.
- 1.42 "WEEK" means a period of any consecutive seven days.
- 1.43 "METRIC SYSTEM" - All technical documents regarding the construction of works are given in the metric system and all work in the project should be carried out according to the metric system. All documents concerning the work shall also be maintained in the metric system.
- 2 Seller to Inform**
- 2.1 The Seller shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Seller of his responsibility to fulfill his obligation under the Contract.
- 3 Application**
- 3.1 These General Conditions of Contract (GCC-Supply) shall apply to the extent that they are not superseded by provisions of other parts of the Contract.
- 4 Country of Origin**
- 4.1 For purposes of this Clause "origin" means the place where the Goods were mined, grown or produced, or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 5 Scope of Contract**
- 5.1 Scope of the CONTRACT shall be as defined in the PURCHASE ORDER/CONTRACT specifications, drawings and Annexure thereto.
- 5.2 Completeness of the EQUIPMENT shall be the responsibility of the SELLER. Any equipment, fittings and accessories which may not be specifically mentioned in the specifications or drawings, but which are usual or necessary for the satisfactory functioning of the equipment (successful operation and functioning of the EQUIPMENT being SELLER's responsibility) shall be provided by SELLER without any extra cost.
- 5.3 The SELLER shall follow the best modern practices in the manufacture of high-grade EQUIPMENT notwithstanding any omission in the specifications. The true intent and meaning of these documents is that SELLER shall in all respects, design, engineer, manufacture and supply the equipment in a thorough workmanlike manner and supply the same in prescribed time to the entire satisfaction of PURCHASER.
- 5.4 The SELLER shall furnish three (3) copies in English language of technical documents, final drawings, preservation instructions, operation and maintenance manuals, test certificates, spare parts catalogues for all equipment to the PURCHASER.



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- 5.5 The documents once submitted by the SELLER shall be firm and final and not subject to subsequent changes. The SELLER shall be responsible for any loss to the PURCHASER/CONSULTANT consequent to furnishing of incorrect data/drawings.
- 5.6 All dimensions and weight should be in metric system.
- 5.7 All equipment to be supplied and work to be carried out under the CONTRACT shall conform to and comply with the provisions of relevant regulations / Acts (State Government or Central Government) as may be applicable to the type of equipment/work carried out and necessary certificates shall be furnished.
- 5.8 The Seller shall provide cross sectional drawings, wherever applicable, to identify the spare part numbers and their location. The size of bearings, their make and number shall be furnished.
- 5.9 Specifications, design and drawings issued to the SELLER along with RFQ and CONTRACT are not sold or given but loaned. These remain property of PURCHASER or its assigns and are subject to recall by PURCHASER. The SELLER and his employees shall not make use of the drawings, specifications and technical information for any purpose at any time except for manufacture against the CONTRACT and shall not disclose the same to any person, firm or corporate body, without written permission of PURCHASER. All such details shall be kept confidential.
- 5.10 SELLER shall pack, protect, mark and arrange for dispatch of EQUIPMENT as per instructions given in the CONTRACT.

6 Standards

- 6.1 The GOODS supplied under the CONTRACT shall conform to the standards mentioned in the Technical Specifications, or such other standards which ensure equal or higher quality, and when no applicable standard is mentioned, to the authoritative standard appropriate to the GOODS' country of origin and such standards shall be the latest issued by the concerned institution.

7 Instructions, Direction & Correspondence

- 7.1 The materials described in the CONTRACT are to be supplied according to the standards, data sheets, tables, specifications and drawings attached thereto and/or enclosed with the CONTRACT, itself and according to all conditions, both general and specific enclosed with the contract, unless any or all of them have been modified or cancelled in writing as a whole or in part.
- All instructions and orders to SELLER shall, excepting what is herein provided, be given by PURCHASER.
 - All the work shall be carried out under the direction of and to the satisfaction of PURCHASER.
 - All communications including technical/commercial clarifications and/or comments shall be addressed to PURCHASER and shall always bear reference to the CONTRACT.
 - Invoices for payment against CONTRACT shall be addressed to PURCHASER.



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- e. The CONTRACT number shall be shown on all invoices, communications, packing lists, containers and bills of lading, etc.

8 Contract Obligations

- 8.1 If after award of the contract, the Seller does not acknowledge the receipt of award or fails to furnish the performance guarantee within the prescribed time limit, the PURCHASER reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract.
- 8.2 Once a contract is confirmed and signed, the terms and conditions contained therein shall take precedence over the Seller's bid and all previous correspondence.

9 Modification in Contract

- 9.1 All modifications leading to changes in the CONTRACT with respect to technical and/or commercial aspects including terms of delivery, shall be considered valid only when accepted in writing by PURCHASER by issuing amendment to the CONTRACT. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of contract in any manner except to the extent mutually agreed through a modification of contract.
- 9.2 PURCHASER shall not be bound by any printed conditions or provisions in the SELLER's Bid Forms or acknowledgment of CONTRACT, invoices, packing list and other documents which purport to impose any conditions at variance with or supplemental to CONTRACT.

10 Use of Contract Documents & Information

- 10.1 The Seller shall not, without the PURCHASER's prior written consent, disclose the CONTRACT or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the PURCHASER in connection therewith, to any person other than a person employed by the SELLER in the performance of the CONTRACT. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purpose of such performance.
- 10.2 The SELLER shall not, without the PURCHASER's prior written consent, make use of any document or information enumerated in Article 10.1. except for purpose of performing the CONTRACT.

11 Patent Rights, Liability & Compliance of Regulations

- 11.1 SELLER hereby warrants that the use or sale of the materials delivered hereunder will not infringe claims of any patent covering such material and SELLER agrees to be responsible for and to defend at his sole expense all suits and proceedings against PURCHASER based on any such alleged patent infringement and to pay all costs, expenses and damages which PURCHASER may have to pay or incur by reason of any such suit or proceedings.
- 11.2 The SELLER shall indemnify the PURCHASER against all third party claims of infringement of patent, trade mark or industrial design rights arising from use of the GOODS or any part thereof in the PURCHASER's country.



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11.3 SELLER shall also protect and fully indemnify the PURCHASER from any claims from SELLER'S workmen/employees or their heirs, dependents, representatives, etc. or from any other person/persons or bodies/companies etc. for any acts of commissions or omission while executing the CONTRACT.

11.4 SELLER shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the PURCHASER from any claims/penalties arising out of any infringements.

12 Performance Guarantee

12.1 Within 15 days after the SELLER's receipt of Delivery Order, the SELLER shall furnish Performance Guarantee in the form of electronic Bank Guarantee (preferably) / irrevocable Letter of Credit to the PURCHASER, in the form provided in the Bidding Documents, for an amount equivalent to 10% of Contract / Delivery Order Value against each Delivery Order.

12.2 The proceeds of Performance Guarantee shall be appropriated by the PURCHASER as compensation for any loss resulting from the SELLER's failure to complete his obligations under the CONTRACT without prejudice to any of the rights or remedies the PURCHASER may be entitled to as per terms and conditions of CONTRACT. The proceeds of this Performance Guarantee shall also govern the successful performance of Goods and Services during the entire period of Contractual Warrantee/Guarantee.

12.3 The performance guarantee shall be denominated in the currency of the CONTRACT.

12.4 The Performance Guarantee shall be valid for the duration of 90 days beyond the expiry of Warrantee/Guarantee period. The Bank Guarantee will be discharged by PURCHASER not later than 6 months from the date of expiration of the Seller's entire obligations, including any warrantee obligations, under the CONTRACT.

Detail required for eBG (electronic Bank Guarantee):

Details \ Units	
CONSTITUTION OF COMPANY	Public Limited Company
NAME	Maharashtra Natural Gas Limited
LOCAL ADDRESS	Pride Purple Coronet, 2nd Floor, Baner Road, Baner, Pune, 411045
REGISTERED ADDRESS	Plot No. 27, A-Block, 1st Floor, Narveer Tanajiwadi, P.M.T. Bus Depot, Commercial Bldg., First Floor, Shivaji Nagar, Pune - 411 005.
PAN NUMBER	AAECM5536G
DATE OF INCORPORATION OF THE BENEFICIARY	13-JAN-2006
CONTRACT NO. / SO REFERENCE NO. / TENDER NO.	



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BU CODE	AAECM5536G
ACTIVE MOBILE NUMBER OF THE BENEFICIARY	7718865953
ACTIVE E MAIL ID OF THE BENEFICIARY	balakrishna.thatikonda@mngl.in
PIN CODE/ZIP CODE	411045
BANK NAME	State Bank of India
IFSC CODE (FOR SFMS)	SBIN0008966
ACCOUNT NO	35310073625

13 Inspection, Testing & Expediting

- 13.1 The PURCHASER or its representative shall have the right to inspect and/or to test the GOODS to confirm their conformity to the CONTRACT specifications. The special conditions of CONTRACT and/or the Technical Specifications shall specify what inspections and tests the PURCHASER requires and where they are to be conducted. The PURCHASER shall notify the SELLER in writing the identity of any representative(s) retained for these purposes.
- 13.2 The inspections and tests may be conducted on the premises of the SELLER or his sub-contractor(s), at point of DELIVERY and/or at the GOODS' final destination, when conducted on the premises of the SELLER or his sub-contractor (s), all reasonable facilities and assistance including access to the drawings and production data shall be furnished to the inspectors at no charge to the PURCHASER.
- 13.3 Should any inspected or tested GOODS fail to conform to the specifications, the PURCHASER may reject them and the SELLER shall either replace the rejected GOODS or make all alterations necessary to meet Specifications' requirements, free of cost to the PURCHASER.
- 13.4 The PURCHASER's right to inspect, test and where necessary reject the GOODS after the GOODS' arrival in the PURCHASER's country shall in no way be limited or waived by reason of the GOODS having previously been inspected, tested and passed by the PURCHASER, or their representative prior to the GOODS shipment from the country of origin.
- 13.5 The INSPECTOR shall follow the progress of the manufacture of the GOODS under the CONTRACT to ensure that the requirements outlined in the CONTRACT are not being deviated with respect to schedule and quality.
- 13.6 SELLER shall allow the INSPECTOR to visit, during working hours, the workshops relevant for execution of the CONTRACT during the entire period of CONTRACT validity.
- 13.7 In order to enable PURCHASER's representatives to obtain entry visas in time, SELLER shall notify PURCHASER two months before assembly, testing and packing of main EQUIPMENT. If requested, SELLER shall assist PURCHASER's



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representatives in getting visas in the shortest possible time (applicable only in case of foreign order).

- 13.8 SELLER shall place at the disposal of the INSPECTOR, free of charge, all tools, instruments, and other apparatus necessary for the inspection and/or testing of the GOODS. The INSPECTOR is entitled to prohibit the use and dispatch of GOODS and/or materials which have failed to comply with the characteristics required for the GOODS during tests and inspections.
- 13.9 SELLER shall advise in writing of any delay in the inspection program at the earliest, describing in detail the reasons for delay and the proposed corrective action.
- 13.10 ALL TESTS and trials in general, including those to be carried out for materials not manufactured by SELLER shall be witnessed by the INSPECTOR. Therefore, SELLER shall confirm to PURCHASER by fax or e-mail about the exact date of inspection with at least 30 days' notice. SELLER shall specify the GOODS and quantities ready for testing and indicate whether a preliminary or final test is to be carried out.
- 13.11 If on receipt of this notice, PURCHASER should waive the right to witness the test, timely information will be given accordingly.
- 13.12 Any and all expenses incurred in connection with tests, preparation of reports and analysis made by qualified laboratories, necessary technical documents, testing documents and drawings shall be at SELLER's cost. The technical documents shall include the reference and numbers of the standards used in the construction and, wherever deemed practical by the INSPECTOR, copy of such standards.
- 13.13 Nothing in Article-13 shall in any way release the SELLER from any warrantee or other obligations under this CONTRACT.
- 13.14 Arrangements for all inspections required by Indian Statutory Authorities and as specified in technical specifications shall be made by SELLER.
- 13.15 Inspection & Rejection of Materials by consignees**
When materials are rejected by the consignee, the supplier shall be intimated with the details of such rejected materials, as well as the reasons for their rejection, also giving location where such materials are lying at the risk and cost of the contractor/supplier. The supplier will be called upon either to remove the materials or to give instructions as to their disposal within 14 days and in the case of dangerous, infected and perishable materials within 48 hours, failing which the consignee will either return the materials to the contractor freight to pay or otherwise dispose them off at the contractor's risk and cost. The PURCHASER shall also be entitled to recover handling and storage charges for the period, during which the rejected materials are not removed @ 5% of the value of materials for each month or part of a month till the rejected materials are finally disposed off.



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14 Time Schedule & Progress Reporting

14.1 Time Schedule Network/Bar Chart

14.1.1 Together with the Contract confirmation, SELLER shall submit to PURCHASER, his time schedule regarding the documentation, manufacture, testing, supply, erection and commissioning of the GOODS.

14.1.2 The time schedule will be in the form of a network or a bar chart clearly indicating all main or key events regarding documentation, supply of raw materials, manufacturing, testing, delivery, erection and commissioning.

14.1.3 The original issue and subsequent revisions of SELLER's time schedule shall be sent to PURCHASER.

14.1.4 The time schedule network/bar chart shall be updated at least every second month.

14.2 Progress Trend Chart/Monthly Report

14.2.1 SELLER shall report monthly to PURCHASER, on the progress of the execution of CONTRACT and achievement of targets set out in time bar chart.

14.2.2 The progress will be expressed in percentages as shown in the progress trend chart attached to the Time Schedule specification.

14.2.3 The first issue of the Progress Trend Chart will be forwarded together with the time bar chart along with CONTRACT confirmation.

14.3.1 PURCHASER's representatives shall have the right to inspect SELLER's premises with a view to evaluating the actual progress of work on the basis of SELLER's time schedule documentation.

14.3.2 Irrespective of such inspection, SELLER shall advise PURCHASER, at the earliest possible date of any anticipated delay in the progress.

14.4 Notwithstanding the above, in case progress on the execution of contract at various stages is not as per phased time schedule and is not satisfactory in the opinion of the PURCHASER which shall be conclusive or SELLER shall neglect to execute the CONTRACT with due diligence and expedition or shall contravene the provisions of the CONTRACT, PURCHASER may give notice of the same in writing to the SELLER calling upon him to make good the failure, neglect or contravention complained of. Should SELLER fail to comply with such notice within the period considered reasonable by PURCHASER, the PURCHASER shall have the option and be at liberty to take the CONTRACT wholly or in part out of the SELLER's hand and make alternative arrangements to obtain the requirements and completion of CONTRACT at the SELLER's risk and cost and recover from the SELLER, all extra cost incurred by the PURCHASER on this account. In such event PURCHASER shall not be responsible for any loss that the SELLER may incur and SELLER shall not be entitled to any gain. PURCHASER shall, in addition, have the right to encash Performance Guarantee in full or part.



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15 Delivery & Documents

- 15.1 Delivery of the GOODS shall be made by the SELLER in accordance with terms specified in the CONTRACT, and the goods shall remain at the risk of the SELLER until delivery has been completed.
- 15.2 Delivery shall be deemed to have been made:
- a) In the case of FOB Contracts, when the Goods have been put on board the ship, at the specified port of loading and a clean Bill of Lading is obtained. The date of Bill of Lading shall be considered as the delivery date. However, for CFR & CIF Contracts delivery date will be receipt of goods at Indian Port.
 - b) In case of FOT dispatch point contract (For Indian bidder), on evidence that the goods have been loaded on the carrier and a negotiable copy of the GOODS receipt obtained. The date of LR/GR shall be considered as the date of delivery.
 - c) In case of FOT site (for Indian bidders) on receipt of goods by PURCHASER at the designated site(s).
- 15.3 The delivery terms are binding and essential and consequently, no delay is allowed without the written approval of PURCHASER. Any request concerning delay will be void unless accepted by PURCHASER through a modification to the CONTRACT.
- 15.4 Delivery time shall include time for submission of drawings for approval, incorporation of comments, if any, and final approval of drawings by PURCHASER.
- 15.5 In the event of delay in delivery, Price Reduction Schedule as stipulated in Article – 26 shall apply.
- 15.6 The documentation, in English Language, shall be delivered in due time, in proper form and in the required number of copies as specified in the contract.
- 15.7 The additional copies of final drawings and instructions will be included in the package of goods, properly enveloped and protected.
- 15.8 The SELLER should comply with the Packing, Marking and Shipping Documentation Specifications enclosed.

16 Transit Risk Insurance

- 16.1 All goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.
- 16.2 Where delivery is on FOB or CFR basis, marine insurance shall be the responsibility of the Purchaser against the advance information by the contractor with all the details.

Indigenous Bidders : Transit risk insurance till FOT Site shall be arranged and borne by Bidder.

Foreign Bidders : Marine insurance as well as transit insurance in Purchaser's country shall be arranged and borne



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By Bidder.

The SELLER shall ensure that in effecting dispatch of materials, the primary responsibility of the carriers for safe movement is always retained so that the PURCHASER's interests are fully safeguarded and are in no way jeopardized. The Seller shall furnish the cost of materials against each equipment.

16.2 PURCHASER's Insurance Agent:

[The name and address-as mentioned under SCC]

17 Transportation

17.1 Where the SELLER is required under the CONTRACT to deliver the GOODS FOB, transport of the GOODS until delivery, that is, up to and including the point of putting the GOODS on board the export conveyance at the specified port of loading, shall be arranged and paid for by the SELLER and the cost thereof shall be included in the Contract price.

Where the SELLER is required under the CONTRACT to deliver the GOODS CFR or CIF, transport of the Goods to the port of discharge or such other point in the country of destination as shall be specified in the CONTRACT shall be arranged and paid for by the SELLER and the cost thereof shall be included in the Contract price.

18 Incidental Services

18.1 The Seller may be required to provide any or all of the following services:

18.1.1 Performance or supervision of onsite assembly and/or start-up of the supplied Goods:

18.1.2 Furnishing tools required for assembly and/or maintenance of the supplied Goods:

18.1.3 Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Seller of any warranty/guarantee obligations under the Contract.

18.1.4 Training of the Purchaser's personnel at the Seller's plant and/or at Site, in assembly, start-up operation, maintenance and/or repair of the supplied Goods at no extra cost. However, Purchaser will bear boarding, lodging & personal expenses of Trainees.

18.2 Prices charged by the Seller for the preceding incidental services, shall not exceed the prevailing rates charged to other parties by the Seller for similar services.

18.3 When required, Seller shall depute necessary personnel for supervision and/or erection of the Equipment at site for duration to be specified by Purchaser on mutually agreed terms. Seller's personnel shall be available at Site within seven days for emergency action and twenty-one days for medium and long-term assistance, from the date of notice given by Purchaser.

18.4 The cost of incidental services shall not be included in the quoted prices. The cost of applicable incidental services should be shown separately in the price schedules.



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19 Spare Parts, Maintenance Tools, Lubricants

19.1 Seller may be required to provide any or all of the following materials and notification pertaining to spare parts manufactured or distributed by the Seller.

19.1.1 Such spare parts as the Purchaser may opt to purchase from the Seller, provided that his option shall not relieve the Seller of any warrantee obligations under the Contract, and

19.1.2 In the event of termination of production of the spare parts:

- i) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements, and
- ii) Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if any when requested.

19.2 Seller shall supply item wise list with value of each item of spare parts and maintenance tools requirements, along with full details of manufacturers/vendors for such spares/maintenance tools for:

19.2.1 The construction, execution and commissioning.

19.2.2 2 years' operation and maintenance.

19.3 Spare parts shall be new and of first-class quality as per engineering standards/ codes, free of any defects (even concealed), deficiency in design, materials and workmanship and also shall be completely interchangeable with the corresponding parts.

19.4 Type and sizes of bearings shall be clearly indicated.

19.5 Spare parts shall be packed for long storage under tropical climatic conditions in suitable cases, clearly marked as to intended purpose.

19.6 A list of special tools and gauges required for normal maintenance and special handling and lifting appliances, if any, for the Goods shall be submitted to Purchaser.

19.7 Bidders should note that if they do not comply with Clause 19.2 above, their quotation may be rejected.

19.8 Lubricants

19.8.1 Whenever lubricants are required, Seller shall indicate the quantity of lubricants required for the first filling, the frequency of changing, the quantity of lubricants required for the one year's continuous operation and the types of recommended lubricants indicating the commercial name (trademark), quality and grade.

19.8.2 If Seller is unable to recommend specific oil, basic recommended characteristics of the lubricants shall be given.



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19.8.3 Seller shall indicate various equivalent lubricants available in India.

20 Guarantee

20.1 All Goods or Materials shall be supplied strictly in accordance with the specifications, drawings, data sheets, other attachments and conditions stated in the Contract.

No deviation from such specifications or alterations or of these conditions shall be made without PURCHASER'S agreement in writing which must be obtained before any work against the order is commenced. All materials supplied by the SELLER pursuant to the Contract (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by PURCHASER) are guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorised in writing by PURCHASER) and shall be free from faulty design, workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfil in all respects all operating conditions, if any, specified in the Contract.

If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to twelve(12) months from the date of the commercial operation of the Plant for which the materials supplied under the Contract form a part thereof, or twenty four (24) months from the date of last shipment whichever period shall first expire, and the SELLER is notified thereof, SELLER shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfil the foregoing guarantees.

PURCHASER may, at his option, remove such defective materials, at SELLER'S expense in which event SELLER shall, without cost to PURCHASER and as promptly as possible, furnish and install proper materials. Repaired or replaced materials shall be similarly guaranteed by the SELLER for a period of no less than twelve (12) months from the date of replacement/repair.

In the event that the materials supplied do not meet the specifications and/or not in accordance with the drawings data sheets or the terms of the Contract and rectification is required at site, PURCHASER shall notify the SELLER giving full details of differences. The SELLER shall attend the site within seven (7) days of receipt of such notice to meet and agree with representatives of PURCHASER, the action required to correct the deficiency. Should the SELLER fail to attend meeting at Site within the time specified above, PURCHASER shall immediately rectify the work/materials and SELLER shall reimburse PURCHASER all costs and expenses incurred in connection with such trouble or defect.

20.2 PERFORMANCE GUARANTEE OF EQUIPMENT

20.2.1 SELLER shall guarantee that the performance of the EQUIPMENT supplied under the CONTRACT shall be strictly in conformity with the specifications and shall perform the duties specified under the CONTRACT.



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20.2.2 If the SELLER fails to prove the guaranteed performance of the EQUIPMENT set forth in the specification, the SELLER shall investigate the causes and carry out necessary rectifications /modifications to achieve the guaranteed performance. In case the SELLER fails to do so within a reasonable period, the SELLER shall replace the EQUIPMENT and prove guaranteed performance of the new equipment without any extra cost to PURCHASER.

20.2.3 If the SELLER fails to prove the guarantee within a reasonable period, PURCHASER shall have the option to take over the EQUIPMENT and rectify, if possible, the EQUIPMENT to fulfil the guarantees and/or to make necessary additions to make up the deficiency at Seller's risk and cost. All expenditure incurred by the PURCHASER in this regard shall be to SELLER's account.

21 Terms of Payment

21.1 The method of payment to be made to the SELLER under this CONTRACT shall be specified in the Special Conditions of Contract.

21.2 The type(s) of payment to be made to the SELLER under this CONTRACT shall be specified in the Special Conditions of Contract.

21.3 The SELLER's request(s) for payment shall be made to the PURCHASER in writing accompanied by an invoice describing, as appropriate, the Goods delivered and services performed, and by shipping documents submitted, and upon fulfillment of other obligations stipulated in the Contract.

21.4 Payment will be made in the currency or currencies in which the Contract Price has been stated in the SELLER's bid, as well as in other currencies in which the SELLER had indicated in his bid that he intends to incur expenditure in the performance of the Contract and wishes to be paid. If the requirements are stated as a percentage of the bid price along with exchange rates used in such calculations these exchange rates shall be maintained.

General Notes:

1. All foreign currency payments to foreign bidder shall be released through an irrevocable Letter of Credit, which shall be opened through Government of India Nationalized Bank and hence shall not be confirmed. In case any bidder insists on confirmation, charges towards confirmation shall be borne by him. L/C shall be established within 30 days after receipt of unconditional acceptance of Letter /Fax of Intent together with Performance Guarantee for 10% of Contract / Delivery Order Value.
2. For dispatches on FOT dispatch point (in India) basis, the payment shall be through PURCHASER's bank. Payment through Bank, wherever applicable, shall be released as per normal banking procedures.
3. Payment shall be released within 30 days after receipt of relevant documents complete in all respects.
4. All bank charges incurred in connection with payments shall be to Seller's account in case of Indian bidders and to respective accounts in case of foreign bidder.



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5. Unless otherwise specifically stated in bid document, all payments shall be made in the currency quoted.
6. No interest charges for delay in payments, if any, shall be payable by PURCHASER.
7. In case of Indian bidder, variation, if any, on account of customs duty on their built-in- import content, as per terms of bid document, shall be claimed separately by bidder after receipt of goods at site (s). However, any price benefits to the PURCHASER, on account of such variation as per terms specified in the bid document, shall be passed on to the PURCHASER along with invoicing itself.
8. Agency commission, if any, to Indian agent for foreign bidders, indicated in prices, shall be paid to the agent in equivalent Indian Rupees on receipt and acceptance of material at site.

22 Prices

- 22.1 Prices charged by the SELLER for Goods delivered and services performed under the CONTRACT shall not, with the exception of any price adjustments authorized by the Contract vary from the prices quoted by the SELLER in his bid.

23 Subletting & Assignment

- 23.1 The contractor shall not without previous consent in writing of the PURCHASER authority, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

24 Time as Essence of Contract

- 24.1 The time and date of delivery/completion of the GOODS/SERVICES as stipulated in the Contract shall be deemed to be the essence of the Contract.

25 Delays in The Seller's Performance

- 25.1 If the specified delivery schedule is not adhered to or the progress of manufacture or supply of the items is not satisfactory or is not in accordance with the progress schedule the PURCHASER has the right to:
- i) hire for period of delay from elsewhere goods which in PURCHASER's opinion will meet the same purpose as the goods which are delayed and SELLER shall be liable without limitation for the hire charges; or
 - ii) cancel the CONTRACT in whole or in part without liability for cancellation charges. In that event, PURCHASER may procure from elsewhere goods which PURCHASER's opinion would meet the same purpose as the goods for which CONTRACT is cancelled and SELLER shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the CONTRACT for the goods involved; or
 - iii) hire the substitute goods vide (i) above and if the ordered goods continue to remain undelivered thereafter, cancel the order in part or in full vide (ii) above.



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- 25.2 Any inexcusable delay by the SELLER or his sub-contractor shall render the SELLER liable, without prejudice to any other terms of the Contract, to any or all of the following sanctions:
forfeiture of Contract performance guarantee, imposition of price reduction for delay in delivery and termination of the contract for default.

26 Price Reduction Schedule for Delayed Delivery

- 26.1 Subject to Article -29, if the SELLER fails to deliver any or all of the GOODS or performance the services within the time period (s) specified in the CONTRACT, the PURCHASER shall, without prejudice to his other remedies under the CONTRACT, deduct from the CONTRACT PRICE, a sum calculated on the basis of the CONTRACT PRICE, including subsequent modifications.

26.1.1 Deductions shall apply as per following formula:

In case of delay in delivery of equipment / materials or delay in completion, total delivery order value shall be reduced by ½% (half percent) per complete week of delay or part thereof subject to a maximum of 10% (Ten percent) of the total delivery order value.

- 26.2 In case of delay in delivery on the part of Seller, the invoice/document value shall be reduced proportionately for the delay and payment shall be released accordingly.

- 26.3 In the event the invoice value is not reduced proportionately for the delay, the PURCHASER may deduct the amount so payable by SELLER, from any amount falling due to the SELLER or by recovery against the Performance Guarantee.

Both seller and PURCHASER agree that the above percentages of price reduction are genuine pre estimates of the loss/damage which the PURCHASER would have suffered on account of delay/breach on the part of the SELLER and the said amount will be payable on demand without there being any proof of the actual loss/or damage caused by such breach/delay. A decision of the PURCHASER in the matter of applicability of price reduction shall be final and binding.

27 Rejections, Removal of Rejected Equipment & Replacement

- 27.1 Preliminary inspection at SELLER's works by INSPECTOR shall not prejudice PURCHASER's claim for rejection of the EQUIPMENT on final inspection at SITE or claims under warranty provisions.

- 27.2 If the EQUIPMENTS are not of specification or fail to perform specified duties or are otherwise not satisfactory the PURCHASER shall be entitled to reject the EQUIPMENT/MATERIAL or part thereof and ask free replacement within reasonable time failing which obtain his requirements from elsewhere at SELLER's cost and risk.

- 27.3 Nothing in this clause shall be deemed to deprive the PURCHASER AND/OR AFFECT ANY rights under the Contract which it may otherwise have in respect of such defects or deficiencies or in any way relieve the SELLER of his obligations under the Contract.



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27.4 EQUIPMENT rejected by the PURCHASER shall be removed by the Seller at his cost within 14 days of notice after repaying the amounts received against the SUPPLY. The PURCHASER shall in no way be responsible for any deterioration or damage to the EQUIPMENT under any circumstances whatsoever.

27.5 In case of rejection of EQUIPMENT, PURCHASER shall have the right to recover the amounts, if any, from any of CONTRACTOR'S invoices pending with PURCHASER or by alternative method(s).

28 Termination of Contract

28.1 Termination for Default

28.1.1 The PURCHASER may, without prejudice to any other remedy for breach of CONTRACT, by written notice of default sent to the SELLER, terminate the CONTRACT in whole or in part:

- A) If the SELLER fails to deliver any or all of the GOODS within the time period(s) specified in the CONTRACT; or
- B) If the SELLER fails to perform any other obligation(s) under the CONTRACT, and
- C) If the SELLER, in either of the above circumstances, does not cure his failure within a period of 30 days (or such longer period as the PURCHASER may authorize in writing) after receipt of the default notice from the PURCHASER.

28.1.2 In the event the PURCHASER terminates the CONTRACT in whole or in part, pursuant to Article 28.1.1, the PURCHASER may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the SELLER shall be liable to the PURCHASER for any excess costs for such similar GOODS. However, the SELLER shall continue performance of the CONTRACT to the extent not terminated.

28.1.3 In case of termination of CONTRACT herein set forth (under clause 28) except under conditions of Force Majeure and termination after expiry of contract, the VENDOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by MAHARSHRATRA NATURAL GAS LIMITED against any type of tender nor their offer will be considered by MNGL against any ongoing tender (s) where contract between MNGL and that particular VENDOR (as a bidder) has not been finalized] for three years from the date of termination by MAHARSHRATRA NATURAL GAS LIMITED to such VENDOR.

28.2 Termination for Insolvency

The PURCHASER, may at any time, terminate the CONTRACT by giving written notice to the SELLER, without compensation to the SELLER, if the SELLER becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the PURCHASER.

28.3 Termination for Convenience

28.3.1 The PURCHASER may, by written notice sent to the SELLER, terminate the CONTRACT, in whole or part, at any time for his convenience. The notice of



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termination shall specify that termination is for the PURCHASER's convenience, the extent to which performance of work under the CONTRACT is terminated and the date upon which such termination becomes effective.

- 28.3.2 The GOODS that are complete and ready for shipment within 30 days after the SELLER's receipt of notice of termination shall be purchased by the PURCHASER at the CONTRACT terms and prices. For the remaining GOODS, the PURCHASER may opt:
- a) to have any portion completed and delivered at the CONTRACT terms and prices, and /or
 - b) to cancel the remainder and pay to the SELLER an agreed amount for partially completed GOODS and for materials and parts previously procured by the SELLER.

29 Force Majeure

29.1 Shall mean and be limited to the following:

- a) War/hostilities
- b) Riot or Civil commotion
- c) Earthquake, flood, tempest, lightening or other natural physical disaster.
- d) Restrictions imposed by the Government or other Statutory bodies which prevents or delays the execution of the Contract by the SELLER.

The SELLER shall advise PURCHASER/CONSULTANT by a registered letter duly certified by the local Chamber of Commerce or statutory authorities, the beginning and end of the above causes of delay within seven (7) days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting over one month, if arising out of causes of Force Majeure, PURCHASER reserves the right to cancel the Contract and the provisions governing termination stated under Article 28.0 shall apply.

For delays arising out of Force Majeure, the SELLER shall not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither PURCHASER/CONSULTANT nor SELLER shall be liable to pay extra costs provided it is mutually established that Force Majeure Conditions did actually exist.

SELLER shall categorically specify the extent of Force Majeure Conditions prevalent in their works at the time of submitting their bid and whether the same have been taken into consideration or not in their quotations. In the event of any force majeure cause, the SELLER or the PURCHASER shall not be liable for delays in performing their obligations under this order and the delivery dates will be extended to the SELLER without being subject to price reduction for delayed deliveries, as stated elsewhere.

30 Resolution of Disputes/Arbitration

30.1 The PURCHASER and the SELLER shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the contract.



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- 30.2 If, after thirty days from the commencement of such informal negotiations, the PURCHASER and the SELLER have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism as specified hereunder.
- 30.3 The Contract shall be, in all respects be construed and operated as an Indian Contract and in accordance with Indian Laws as in force for the time being and is subject to and referred to the Court of Law situated at Pune.
- 30.4 Arbitration
All disputes, controversies, or claims between the parties (except in matters where the decision of the Engineer-in-Charge is deemed to be final and binding) which cannot be mutually resolved within a reasonable time shall be referred to Arbitration by a sole arbitrator.

The PURCHASER (MNGL) shall suggest a panel of three independent and distinguished persons to the Seller to select any one among them to act as the sole Arbitrator.

In the event of failure of the Seller to select the Sole Arbitrator within 30 days from the receipt of the communication suggesting the panel of arbitrators, the right of selection of Sole Arbitrator by the other party shall stand forfeited and the PURCHASER shall have discretion to proceed with the appointment of the Sole Arbitrator. The decision of the PURCHASER on the appointment of Sole Arbitrator shall be final and binding on the parties.

The award of the Sole Arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the Sole Arbitrator, the cost of arbitration proceedings shall be shared equally by the parties. All matters relating to this contract are subject to the exclusive jurisdiction of the courts situated at Pune. Subject to the above, the provisions of (Indian) Arbitration & Conciliation Act, 1996 and the rules framed thereunder shall be applicable. All matters relating to this contract are subject to the exclusive jurisdiction of the Courts situated at **Pune, Maharashtra, India.**

31 Governing Language

- 31.1 The Contract shall be written in English language as specified by the PURCHASER in the Instruction to Bidders. All literature, correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in English language. Printed literature in other language shall only be considered, if it is accompanied by an English translation. For the purposes of interpretation, English translation shall govern and be binding on all parties.

32 Notices

- 32.1 Any notice given by one party to the other pursuant to the Contract shall be sent in writing or by telegram or fax, telex/cable confirmed in writing.
- 32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.



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33 Taxes & Duties

- 33.1 A foreign Seller shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the PURCHASER's country.
- 33.2 A domestic Seller shall be entirely responsible for all taxes, duties, licence fees etc. incurred until the delivery of the contracted goods to the PURCHASER. However, Goods & Service Tax on finished products shall be reimbursed by PURCHASER.
- 33.3 Customs duty payable in India for imported goods ordered by PURCHASER on foreign Seller shall be borne and paid by PURCHASER.
- 33.4 Any income tax payable in respect of supervisory services rendered by foreign Seller under the Contract shall be as per the Indian Income Tax Act and shall be borne by SELLER.

34 Books & Records

- 34.1 SELLER shall maintain adequate books and records in connection with Contract and shall make them available for inspection and audit by PURCHASER/CONSULTANT or their authorized agents or representatives during the terms of Contract until expiry of the performance guarantee. Fixed price (lumpsum or unit price) Contract will not be subject to audit as to cost except for cost reimbursable items, such as escalation and termination claims, transportation and comparable requirements.

35 Permits & Certificates

- 35.1 SELLER shall procure, at his expense, all necessary permits, certificates and licences required by virtue of all applicable laws, regulations, ordinances and other rules in effect at the place where any of the work is to be performed, and SELLER further agrees to hold PURCHASER and/or CONSULTANT harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules. PURCHASER will provide necessary permits for SELLER's personnel to undertake any work in India in connection with Contract.

36 General

- 36.1 In the event that terms and conditions stipulated in the General Conditions of Contract should deviate from terms and conditions stipulated in the Contract, the latter shall prevail.
- 36.2 Losses due to non-compliance of Instructions Losses or damages occurring to the PURCHASER owing to the SELLER's failure to adhere to any of the instructions given by the PURCHASER in connection with the contract execution shall be recoverable from the SELLER.
- 36.3 Recovery of sums due
All costs, damages or expenses which the PURCHASER may have paid, for which under the CONTRACT SELLER is liable, may be recovered by the PURCHASER (he is hereby irrevocably authorized to do so) from any money due to or becoming due to the SELLER under this Contract or other Contracts and/or may be recovered by action



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at law or otherwise. If the same due to the SELLER be not sufficient to recover the recoverable amount, the SELLER shall pay to the PURCHASER, on demand, the balance amount.

36.4 Payments, etc. not to affect rights of the PURCHASER No sum paid on account by the PURCHASER nor any extension of the date for completion granted by the PURCHASER shall affect or prejudice the rights of the PURCHASER against the SELLER or relieve the SELLER of his obligation for the due fulfillment of the CONTRACT.

36.5 Cut-off Dates
No claims or correspondence on this Contract shall be entertained by the PURCHASER after 90 days after expiry of the performance guarantee (from the date of final extension, if any)

36.6 Paragraph heading
The paragraph heading in these conditions shall not affect the construction thereof.

37 Import License

37.1 No import license is required for the imports covered under this document.

38 FALL CLAUSE

38.1 The price charged for the materials supplied under the order by the supplier shall in no event exceed the lowest price at which the supplier or his agent/principal/dealer, as the case may be, sells the materials of identical description to any persons/organizations including the Purchaser or any department of the Central Govt. or any Deptt. Of a State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be, during the currency of the order.

38.2 If at any time during the said period, the supplier or his agent/principal/dealer, as the case may be, reduces the sale price, sells or offers to sell such materials to any persons/organizations including the Purchaser or any Dept. of Central Govt. or State Govt. as the case may be, at a price lower than the price chargeable under the order, he shall forthwith notify such reduction or sale or offer of sale to the Purchase Authority who has issued this order and the price payable under the order for the materials supplied after the date of coming into force of such reduction or sale or offer of sale shall stand correspondingly reduced.

The above stipulation will, however, not apply to:

- a) Exports by the Contractor/Supplier or
- b) Sale of goods as original equipment at prices lower than the prices charged for normal replacement
- c) sale of goods such as drugs which have expiry dates.

38.3 The supplier shall furnish the following certificate to the concerned Paying Authority along with each bill for payment for supplies made against this order:

"I/We certify that there has been no reduction in sale price of the items/goods/materials of description identical to those supplied to the MNGL under the order herein and such items/ goods/materials have not been



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offered/sold by me/us to any person/organizations including the Purchaser or any Deptt. Of Central Govt. or any Deptt. Of State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be upto the date of bill/during the currency of the order whichever is later, at a price lower than the price charged to the MNGL under the order.

Such a certificate shall be obtained, except for quantity of items/goods/materials categories under sub-clause (a),(b) & (c) of sub-para 38.2 above, of which details shall be furnished by the supplier.

39 Publicity & Advertising

39.1 Seller shall not without the written permission of PURCHASER make a reference to PURCHASER or any Company affiliated with PURCHASER or to the destination or the description of goods or services supplied under the contract in any publication, publicity or advertising media.

40 Limitation of Liability

40.1 Notwithstanding anything contrary contained herein, the aggregate total liability of Seller under the Agreement or otherwise shall be limited to 100% of Agreement / Order price. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.



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(GCC-WORKS)**

FOR ERECTION, TESTING, COMMISSIONING, AMC etc.

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Section- I. Definitions

1. Definition of Terms:

- 1.1 In this CONTRACT (as here-in-after defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise required.
- 1.1.1 The PURCHASER/OWNER/EMPLOYER/COMPANY/MNGL means MAHARASHTRA NATURAL GAS LIMITED, incorporated under the Company's act 1956 and having its Registered office at Pune and includes its successors and assigns.
- 1.1.2 The "CONTRACTOR" means the person or the persons, firm or Company or corporation whose tender has been accepted by the EMPLOYER and includes the CONTRACTOR's legal Representatives his successors and permitted assigns.
- 1.1.3 The ENGINEER/ENGINEER-IN-CHARGE" shall mean the person designated from time to time by the MNGL and shall include those who are expressly authorized by him to act for and on his behalf for operation of this CONTRACT.
- 1.1.4 The "WORK" shall mean and include all items and things to be supplied/ done and services and activities to be performed by the CONTRACTOR in pursuant to and in accordance with CONTRACT or part thereof as the case may be and shall include all extra, additional, altered or substituted works as required for purpose of the CONTRACT.
- 1.1.5 The "PERMANENT WORK" means and includes works which will be incorporated in and form a part of the work to be handed over to the EMPLOYER by the CONTRACTOR on completion of the CONTRACT.
- 1.1.6 "CONSTRUCTION EQUIPMENT" means all appliances/equipment and things whatsoever nature for the use in or for the execution, completion, operation, or maintenance of the work or temporary works (as hereinafter defined) but does not include materials or other things intended to form or to be incorporated into the WORK or camping facilities.
- 1.1.7 "CONTRACT DOCUMENTS" means collectively the Tender Documents, Designs, Drawings, Specification, Schedule of Quantities and Rates, Letter of Acceptance and agreed variations if any, and such other documents constituting the tender and acceptance thereof.
- 1.1.8 The "SUB-CONTRACTOR" means any person or firm or Company (other than the CONTRACTOR) to whom any part of the work has been entrusted by the CONTRACTOR, with the written consent of the ENGINEER-IN-CHARGE, and the legal representatives, successors and permitted assigns of such person, firm or company.



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- 1.1.9 The "CONTRACT" shall mean the Agreement between the EMPLOYER and the CONTRACTOR for the execution of the works including therein all contract documents.
- 1.1.10 The "SPECIFICATION" shall mean all directions the various technical specifications, provisions attached and referred to the Tender Documents which pertain to the method and manner of performing the work or works to the quantities and qualities of the work or works and the materials to be furnished under the CONTRACT for the work or works, as may be amplified or modified by the MNGL or ENGINEER-IN-CHARGE during the performance of CONTRACT in order to provide the unforeseen conditions or in the best interests of the work or works. It shall also include the latest edition of relevant Standard Specifications including all addenda/corrigenda published before entering into CONTRACT.
- 1.1.11 The "DRAWINGS" shall include maps, plans and tracings or prints or sketches thereof with any modifications approved in writing by the ENGINEER-IN-CHARGE and such other drawing as may, from time to time, be furnished or approved in writing by the ENGINEER-IN-CHARGE.
- 1.1.12 The "TENDER" means the proposal along with supporting documents submitted by the CONTRACTOR for consideration by the EMPLOYER.
- 1.1.13 The "CHANGE ORDER" means an order given in writing by the ENGINEER-IN-CHARGE to effect additions to or deletion from and alteration in the works.
- 1.1.14 The "COMPLETION CERTIFICATE" shall mean the certificate to be issued by the ENGINEER-IN-CHARGE when the works have been completed entirely in accordance with CONTRACT DOCUMENT to his satisfaction.
- 1.1.15 The "FINAL CERTIFICATE" in relation to a work means the certificate regarding the satisfactory compliance of various provision of the CONTRACT by the CONTRACTOR issued by the ENGINEER-IN-CHARGE/ EMPLOYER after the period of liability is over.
- 1.1.16 "DEFECT LIABILITY PERIOD" in relation to a work means the specified period from the date of COMPLETION CERTIFICATE up to the date of issue of FINAL CERTIFICATE during which the CONTRACTOR stands responsible for rectifying all defects that may appear in the works executed by the CONTRACTOR in pursuance of the CONTRACT and includes warranties against Manufacturing/Fabrication/ Erection/Construction defects covering all materials plants, equipment, components, and the like supplied by the CONTRACTOR, works executed against workmanship defects.
- 1.1.17 The "APPOINTING AUTHORITY" for the purpose of arbitration shall be the MANAGING DIRECTOR or any other person so designated by the EMPLOYER.
- 1.1.18 "TEMPORARY WORKS" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of works.



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- 1.1.19 "PLANS" shall mean all maps, sketches and layouts as are incorporated in the CONTRACT in order to define broadly the scope and specifications of the work or works, and all reproductions thereof.
- 1.1.20 "SITE" shall mean the lands and other places on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the EMPLOYER for the purpose of the CONTRACT.
- 1.1.21 "NOTICE IN WRITING OR WRITTEN NOTICE" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the addressee and shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.1.22 "APPROVED" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "APPROVAL" means approval in writing including as aforesaid.
- 1.1.23 "LETTER OF INTENT/FAX OF INTENT/PURCHASE ORDER" shall mean intimation by a Fax/Letter to Tenderer(s) that the tender has been accepted in accordance with the provisions contained in the letter.
- 1.1.24 "DAY" means a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- 1.1.25 "WORKING DAY" means any day which is not declared to be holiday or rest day by the EMPLOYER.
- 1.1.26 "WEEK" means a period of any consecutive seven days.
- 1.1.27 "METRIC SYSTEM" - All technical documents regarding the construction of works are given in the metric system and all work in the project should be carried out according to the metric system. All documents concerning the work shall also be maintained in the metric system.
- 1.1.28 "VALUE OF CONTRACT" or "TOTAL CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the prices accepted in tender and/or the CONTRACT rates as payable to the CONTRACTOR for the entire execution and full completion of the work, including change order.
- 1.1.29 "LANGUAGE FOR DRAWINGS AND INSTRUCTION" All the drawings, titles, notes, instruction, dimensions, etc. shall be in English Language.
- 1.1.30 "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction equipment, aids, tools tackles including setting of site offices with facilities such as power, water, communication etc. establishing manpower organization comprising of Resident Engineers, Supervising personnel and an adequate strength of skilled, semi-skilled and un-skilled workers,



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who with the so established infrastructure shall be in a position to commence execution of work at site(s), in accordance with the agreed Time Schedule of Completion of Work. "MOBILISATION" shall be considered to have been achieved, if the CONTRACTOR is able to establish infrastructure as per Time Schedule, where so warranted in accordance with agreed schedule of work implementation to the satisfaction of ENGINEER-IN-CHARGE/ EMPLOYER.

1.1.31 "COMMISSIONING" shall mean pressing into service of the system including the plant(s), equipment(s), vessel(s), pipeline, machinery (ies), or any other section or sub-section of installation(s) pertaining to the work of the CONTRACTOR after successful testing and trial runs of the same.

- "COMMISSIONING" can be either for a completed system or a part of system of a combination of systems or sub-systems and can be performed in any sequence as desired by EMPLOYER and in a manner established to be made suited according to availability of pre-requisites. Any such readjustments made by EMPLOYER in performance of "COMMISSIONING" activity will not be construed to be violating CONTRACT provisions and CONTRACTOR shall be deemed to have provided for the same.

Section-II General Information

2. General Information

2.1 a) Location of Site: The proposed location of Project site is defined in the Special Conditions of Contract.

b) Access by Road: CONTRACTOR, if necessary, shall build other temporary access roads to the actual site of construction for his own work at his own cost. The CONTRACTOR shall be required to permit the use of the roads so constructed by him for vehicles of any other parties who may be engaged on the project site. The CONTRACTOR shall also facilitate the construction of the permanent roads should the construction there of start while he is engaged on this work. He shall make allowance in his tender for any inconvenience he anticipates on such account.

Non-availability of access roads, railway siding and railway wagons for the use of the CONTRACTOR shall in no case condone any delay in the execution of WORK nor be the cause for any claim for compensation against the EMPLOYER.

2.2 Scope of Work: The scope of WORK is defined in the Technical Part of the tender document. The CONTRACTOR shall provide all necessary materials, equipment, labor etc. for the execution and maintenance of the WORK till completion unless otherwise mentioned in the Tender Document.

2.3 Water Supply: Contractor will have to make his own arrangements for supply of water to his labor camps and for works. All pumping installations, pipe network and distribution system will have to be carried out by the Contractor at his own risk and cost.



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Alternatively, the Employer at his discretion may endeavor to provide water to the Contractor at the Employer's source of supply provided the Contractor makes his own arrangement for the water meter which shall be in custody of the Employer and other pipe networks from source of supply and such distribution pipe network shall have prior approval of the Engineer-in-Charge so as not to interfere with the layout and progress of the other construction works. In such case, the rate for water shall be deducted from the running account bills.

However, the Employer does not guarantee the supply of water and this does not relieve the Contractor of his responsibility in making his own arrangement and for the timely completion of the various works as stipulated.

2.4 Power Supply:

2.4.1 Subject to availability, EMPLOYER will supply power at 400/440 V at only one point at the nearest sub-station, from where the CONTRACTOR will make his own arrangement for temporary distribution. The point of supply will not be more than 500 m away from the CONTRACTOR'S premises. All the works will be done as per the applicable regulations and passed by the ENGINEER-IN-CHARGE. The temporary line will be removed forthwith after the completion of work or if there is any hindrance caused to the other works due to the alignment of these lines, the CONTRACTOR will re-route or remove the temporary lines at his own cost. The CONTRACTOR at his cost will also provide suitable electric meters, fuses, switches, etc. for purposes of payment to the EMPLOYER which should be in the custody and control of the EMPLOYER. The cost of power supply shall be payable to the EMPLOYER every month for Construction Works power which would be deducted from the running account bills. The EMPLOYER shall not, however, guarantee the supply of electricity nor have any liability in respect thereof. No claim for compensation for any failure or short supply of electricity will be admissible.

2.4.2 It shall be the responsibility of the CONTRACTOR to provide and maintain the complete installation on the load side of the supply with due regard to safety requirement at site. All cabling, equipment, installations etc. shall comply in all respects with the latest statutory requirements and safety provisions i.e., as per the Central/State Electricity Acts and Rules etc. The CONTRACTOR will ensure that his equipment and Electrical Wiring etc., are installed, modified, maintained by a licensed Electrician/Supervisor. A test certificate is to be produced to the ENGINEER-IN-CHARGE for his approval, before power is made available.

2.4.3 At all times, IEA regulations shall be followed failing which the EMPLOYER has a right to disconnect the power supply without any reference to the CONTRACTOR. No claim shall be entertained for such disconnection by the ENGINEER-IN-CHARGE. Power supply will be reconnected only after production of fresh certificate from authorized electrical supervisors.

2.4.4 The EMPLOYER is not liable for any loss or damage to the CONTRACTOR's equipment as a result of variation in voltage or frequency or interruption in power supply or other loss to the CONTRACTOR arising there from.



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- 2.4.5 The CONTRACTOR shall ensure that the Electrical equipment installed by him are such that average power factors does not fall below 0.90 at his premises. In case power factor falls below 0.90 in any month, he will reimburse to the EMPLOYER at the penal rate determined by the EMPLOYER for all units consumed during the month.
- 2.4.6 The power supply required for CONTRACTOR's colony near the plant site will be determined by the EMPLOYER and shall be as per State Electricity Board's Rules and other statutory provisions applicable for such installations from time to time. In case of power supply to CONTRACTOR's colony, the power will be made available at a single point and the CONTRACTOR shall make his own arrangement at his own cost for distribution to the occupants of the colony as per Electricity Rules and Acts. The site and colony shall be sufficiently illuminated to avoid accidents.
- 2.4.7 The CONTRACTOR will have to provide and install his own lights and power meters which will be governed as per Central/State Government Electricity Rules. The meters shall be sealed by the EMPLOYER.
- 2.4.8 In case of damage of any of the EMPLOYER's equipment on account of fault, intentional or unintentional on the part of the CONTRACTOR, the EMPLOYER reserves the right to recover the cost of such damage from the CONTRACTOR's bill. Cost of HRC Fuses replaced at the EMPLOYER's terminals due to any fault in the CONTRACTOR's installation shall be to CONTRACTOR's account at the rates decided by the ENGINEER-IN-CHARGE.
- 2.4.9 Only motors up to 3 HP will be allowed to be started direct on line. For motors above 3 HP and up to 100 HP a suitable Starting device approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR. For motors above 100 HP slip ring induction motors with suitable starting devices as approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR.
- 2.4.10 The CONTRACTOR shall ensure at his cost that all electrical lines and equipment and all installations are approved by the State Electricity Inspector before power can be supplied to the EMPLOYER.
- 2.4.11 The total requirement of power shall be indicated by the tenderer along with his tender.
- 2.5 Land for Contractor's Field Office, Godown and Workshop: The EMPLOYER will, at his own discretion and convenience and for the duration of the execution of the work make available near the site, land for construction of CONTRACTOR's Temporary Field Office, godowns workshops and assembly yard required for the execution of the CONTRACT. The CONTRACTOR shall at his own cost construct all these temporary buildings and provide suitable water supply and sanitary arrangement and get the same approved by the ENGINEER-IN-CHARGE.

On completion of the works undertaken by the CONTRACTOR, he shall remove all temporary works erected by him and have the SITE cleaned as directed by ENGINEER-IN-CHARGE. If the CONTRACTOR shall fail to comply with these requirements, the ENGINEER-IN-CHARGE may at the expenses of the



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CONTRACTOR remove such surplus, and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid; and CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus materials disposed off as aforesaid. But the EMPLOYER reserves the right to ask the CONTRACTOR any time during the pendency of the CONTRACT to vacate the land by giving 7 days' notice on security reasons or on national interest or otherwise. Rent may be charged for the land so occupied from contractor by the Employer.

The CONTRACTOR shall put up temporary structures as required by them for their office, fabrication shop and construction stores only in the area allocated to them on the project site by the EMPLOYER or his authorized representative. No tea stalls/canteens should be put up or allowed to be put up by any CONTRACTOR in the allotted land or complex area without written permission of the EMPLOYER.

No unauthorized buildings, constructions or structures should be put up by the CONTRACTOR anywhere on the project site.

For uninterrupted fabrication work, the CONTRACTOR shall put up temporary covered structures at his cost within Area in the location allocated to them in the project site by the EMPLOYER or his authorized representative.

No person except for authorized watchman shall be allowed to stay in the plant area/CONTRACTOR's area after completion of the day's job without prior written permission from ENGINEER-IN-CHARGE.

- 2.6 Land for Residential Accommodation: -: No Land shall be made available for residential accommodation for staff and labor of CONTRACTOR.

Section-III. General Instructions to Tenderers

3. Submission of Tender:

- 3.1 TENDER must be submitted without making any additions, alterations, and as per details given in other clauses hereunder. The requisite details shall be filled in by the TENDERER at space provided under "Submission of Tender at the beginning of GCC of Tender Document. The rate shall be filled only in the schedule given in this Tender Document.
- 3.2 Addenda/Corrigenda to this Tender Document, if issued, must be signed, submitted along with the Tender Document. The tenderer should write clearly the revised quantities in Schedule of Rates of Tender Document and should price the WORK based on revised quantities when amendments of quantities are issued in addenda.
- 3.3 Covering letter along with its enclosures accompanying the Tender Document and all further correspondence shall be submitted in duplicate.



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- 3.4 Tenderers are advised to submit quotations based strictly on the terms and conditions and specifications contained in the Tender Documents and not to stipulate any deviations.
- 3.5 Tenders should always be placed in double sealed covers, super scribing ["QUOTATION DO NOT OPEN" Tender for _____ Project of Maharashtra Natural Gas Limited due for opening on _____]. The *Full Name, Address and Telegraphic Address, Fax No. of the Tenderers* shall be written on the bottom left-hand corner of the sealed cover.

4. Documents:

4.1 General:

The tenders as submitted will consist of the following:

- ii) EMD/Bid Security payment details.
- ii) Duly Signed and Stamped BIDDERS ELIGIBILITY CRITERIA and BID EVALUATION CRITERIA (Annexure-I to IFB)
- iii) Documents for qualification of BEC - Technical.
- iv) Documents for qualification of BEC - Financial.
- v) Line of credit for Negative Working Capital.
- vi) Duly filled, signed and stamped Forms and Formats.
- vii) Power of Attorney in favour of person(s) signing the bid.
- ix) Addendum, Corrigendum and Other Documents if any.
- x) Copy of GST Certificate and PAN Card.
- xi) Cancelled Cheque / Bank Mandate.
- xii) Duly signed and stamped copy of Schedule of Rates (SOR) Instructions.

- 4.2 All pages are to be Initialed: All signatures in Tender Documents shall be dated, as well as, all the pages of all sections of Tender Documents shall be initialed at the lower right hand corner and signed wherever required in the tender papers by the TENDERER or by a person holding power of attorney authorizing him to sign on behalf of the tenderer before submission of tender.

- 4.3 Rates to be in Figures and Words: The tender should quote in English both in figures as well as in words the rates and amounts tendered by him in the Schedule of Rates of Tender submitted by the CONTRACTOR for each item and in such a way that interpolation is not possible. The amount for each item should be worked out and entered and requisite total given of all items, both in figures and in words. The tendered amount for the work shall be entered in the tender and duly signed by the Tenderer.

If some discrepancies are found between the RATES in FIGURES and WORDS or the AMOUNT shown in the tender, the following procedure shall be followed:

- a) When there is difference between the rates in figures and words, the rate which corresponds to the amount worked out by the tenderer shall be taken as correct.



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b) When the rate quoted by the tenderer in figures and words tally but the amount is incorrect the rate quoted by the tenderer shall be taken as correct.

c) When it is not possible to ascertain the correct rate by either of above methods, the rate quoted in words shall be taken as correct.

4.4 Corrections and Erasures: All correction(s) and alteration(s) in the entries of tender paper shall be signed in full by the TENDERER with date. No erasure or over writing is permissible.

4.5 Signature of Tenderer:

4.5.1 The TENDERER shall contain the name, residence and place of business of person or persons making the tender and shall be signed by the TENDERER with his usual signature. Partnership firms shall furnish the full names of all partners in the tender. It should be signed in the partnership's name by all the partners or by duly authorized representatives followed by the name and designation of the person signing. Tender by a corporation shall be signed by an authorized representative, and a Power of Attorney in that behalf shall accompany the tender. A copy of the constitution of the firm with names of all partners shall be furnished.

4.5.2 When a tenderer signs a tender in a language other than English, the total amount tendered should, in addition, be written in the same language. The signature should be attested by at least one witness.

4.6 Witness: Witness and sureties shall be persons of status and property and their names, occupation and address shall be stated below their signature.

4.7 Details of Experience: The tenderer should furnish, along with his tender, details of previous experience in having successfully completed in the recent past works of this nature, together with the names of Employers, location of sites and value of contract, date of commencement and completion of work, delays if any, reasons of delay and other details along with documentary evidence(s).

4.8 Liability of Government of India: It is expressly understood and agreed by and between Bidder or/Contractor and M/s Maharashtra Natural Gas Limited, and that M/s Maharashtra Natural Gas Limited, is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that M/s Maharashtra Natural Gas Limited is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable Laws of India and general principles of Contract Law. The Bidder/Contractor expressly agrees, acknowledges and understands that M/s Maharashtra Natural Gas Limited is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be



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liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, Bidder/Contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this contract and covenants not to sue to Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

5. Transfer of Tender Documents:

- 5.1 Transfer of Tender Documents purchased by one intending tenderer to another is not permissible.

6. Earnest Money Deposit (EMD):

- 6.1 The bidder must pay Earnest Money as given in the letter / notice inviting tenders and attach the official receipt with the tender failing which the tender is liable to be rejected and representatives of such tenderers will not be allowed to attend the tender opening. Earnest Money can be paid in the form of electronic Bank Guarantee (eBG) from any Indian scheduled bank or a branch of an international bank situated in India and registered with Reserve Bank of India as scheduled foreign bank or can be credited online through etender portal.

The bid guarantee shall be submitted in the prescribed format.

Note: The electronic Bank Guarantee so furnished by the tenderer shall be in the proforma prescribed by the EMPLOYER. No interest shall be paid by the EMPLOYER on the Earnest Money deposited by the tenderer. The electronic Bank Guarantee furnished in lieu of Earnest Money shall be kept valid for a period of "SIX MONTHS" from the date of opening of tender. (TWO MONTHS beyond the bid due date).

The Earnest Money deposited by successful tenderer shall be forfeited if the Contractor fails to furnish the requisite Contract Performance Security as per clause 24 hereof and /or fails to start work within a period of 15 days or fails to execute the AGREEMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender.

Note: The Earnest Money of the unsuccessful bidder will be returned by EMPLOYER, directly to the tenderer (s), after award of work or the tender is cancelled.

Note: The Indian / Domestic firms registered with NSIC / MSME, under its single point registration scheme are exempted from furnishing Bid Security, provided they are registered for the items / work they intend to quote and subject to their enclosing with their bid a copy of latest and current registration certificate.



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7 Validity:

- 7.1 Tender submitted by tenderers shall remain valid for acceptance for a period of "4 MONTHS" from the date of opening of the tender. The tenderers shall not be entitled during the said period of 4 months, without the consent in writing of the EMPLOYER, to revoke or cancel his tender or to vary the tender given or any term thereof. In case of tender revoking or canceling his tender or varying any term in regard thereof without the consent of EMPLOYER in writing, the EMPLOYER shall forfeit Earnest Money paid by him along with tender.

8 Addenda/Corrigenda

- 8.1 Addenda/ Corrigenda to the Tender Documents will be issued in duplicate prior to the date of opening of the tenders to clarify documents or to reflect modification in design or CONTRACT terms.
- 8.2 Each addendum/ corrigendum issued will be issued in duplicate to each person or organization to whom set of Tender Documents has been issued. Recipient will retain tenderer's copy of each Addendum/Corrigendum and attach original copy duly signed along with his offer. All Addenda/Corrigenda issued shall become part of Tender Documents.

9 Right of Employer to Accept or Reject Tender:

- 9.1 The right to accept the tender will rest with the EMPLOYER. The EMPLOYER, however, does not bind himself to accept the lowest tender, and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever. At the option of the Employer, the work for which the tender had been invited, may be awarded to one Contractor or split between more than one bidder, in which case the award will be made for only that part of the work, in respect of which the bid has been accepted. The quoted rates should hold good for such eventualities.

Tenders in which any of the particulars and prescribed information are missing or are incomplete in any respect and/or the prescribed conditions are not fulfilled are liable to be rejected. The Tender containing uncalled for remarks or any additional conditions are liable to be rejected.

Canvassing in connection with tenders is strictly prohibited and tenders submitted by the Tenderers who resort to canvassing will be liable to rejection.

10 Time Schedule

- 10.1 The WORK shall be executed strictly as per the TIME SCHEDULE specified in TENDER/CONTRACT Document. The period of construction given in Time Schedule includes the time required for mobilization as well as testing, rectifications if any, retesting and completion in all respects to the entire satisfaction of the ENGINEER-IN-CHARGE.



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10.2 A joint program of execution of the WORK will be prepared by the ENGINEER-IN-CHARGE and CONTRACTOR based on priority requirement of this project. This program will take into account the time of completion mentioned in 10.1 above and the time allowed for the priority works by the ENGINEER-IN-CHARGE.

10.3 Monthly/Weekly construction program will be drawn up by the ENGINEER-IN-CHARGE jointly with the CONTRACTOR, based on availability of work fronts and the joint construction program as per 10.2 above. The CONTRACTOR shall scrupulously adhere to these targets / programs by deploying adequate personnel, construction tools and tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets / programs. In all matters concerning the extent of targets set out in the weekly and monthly programs and the degree of achievements the decision of the ENGINEER-IN-CHARGE will be final and binding on the CONTRACTOR.

11 Tenderer's Responsibility

11.1 The intending tenderers shall be deemed to have visited the SITE and familiarized submitting the tender. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the works in strict conformity with the DRAWINGS and SPECIFICATIONS or for any delay in performance.

12 Retired Government or Company Officers - VOID

13 Signing of the Contract:

13.1 The successful tenderer shall be required to execute an AGREEMENT in the proforma attached with TENDER DOCUMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender. In the event of failure on the part of the successful tenderer to sign the AGREEMENT within the above stipulated period, the Earnest Money or his initial deposit will be forfeited and the acceptance of the tender shall be considered as cancelled.

14 Field Management & Controlling / Coordinating Authority:

14.1 The field management will be the responsibility of the ENGINEER-IN-CHARGE, who will be nominated by the EMPLOYER. The ENGINEER-IN-CHARGE may also authorize his representatives to assist in performing his duties and functions.

14.2 The ENGINEER-IN-CHARGE shall coordinate the works of various agencies engaged at site to ensure minimum disruption of work carried out by different agencies. It shall be the responsibility of the CONTRACTOR to plan and execute the work strictly in accordance with site instructions to avoid hindrance to the work being executed by other agencies.

15 Note to Schedule of Rates:

15.1 The Schedule of Rates should be read in conjunction with all the other sections of the tender.



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- 15.2 The tenderer shall be deemed to have studied the DRAWINGS, SPECIFICATIONS and details of work to be done within TIME SCHEDULE and to have acquainted himself of the condition prevailing at site.
- 15.3 Rates must be filled in the Schedule of Rates of original Tender Documents. If quoted in separate typed sheets no variation in item description or specification shall be accepted. Any exceptions taken by the tenderer to the Schedule of Rates shall be brought out in the terms and conditions of the offer.
- 15.4 The quantities shown against the various items are only approximate. Any increase or decrease in the quantities shall not form the basis of alteration of the rates quoted and accepted.
- 15.5 The EMPLOYER reserves the right to interpolate the rates for such items of work falling between similar items of lower and higher magnitude.

16 Policy for Tenders under Consideration:

- 16.1 Only Those Tenders which are complete in all respects and are strictly in accordance with the Terms and Conditions and Technical Specifications of Tender Document, shall be considered for evaluation. Such Tenders shall be deemed to be under consideration immediately after opening of Tender and until such time an official intimation of acceptance /rejection of Tender is made by MNGL to the Bidder.
- 16.2 Zero Deviation: Bidders to note that this is a ZERO DEVIATION TENDER. MNGL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of Work, technical specifications etc. to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer. Bidder may note that no technical and commercial clarifications will be sought for after the receipt of the bids. In case of any deviation/nonconformity observed in the bid, it will be liable for rejection.

17 Award of Contract:

- 17.1 The Acceptance of Tender will be intimated to the successful Tenderer by MNGL either by Telex/ Telegram/ Fax or by Letter or like means-defined as LETTER OF ACCEPTANCE OF TENDER.
- 17.2 MNGL will be the sole judge in the matter of award of CONTRACT and the decision of MNGL shall be final and binding.

18 Clarification of Tender Document:

- 18.1 The Tender is required to carefully examine the Technical Specifications, Conditions of Contract, Drawings and other details relating to WORK and given in Tender Document and fully inform himself as to all conditions and matters which may in any way affect the WORK or the cost thereof. In case the Tenderer is in doubt about the completeness or correctness of any of the contents of the Tender Documents he should request in writing for an interpretation/clarification to MNGL in triplicate. MNGL



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will then issue interpretation/clarification to Tenderer in writing. Such clarifications and or interpretations shall form part of the Specifications and Documents and shall accompany the tender which shall be submitted by tenderer within time and date as specified in invitations to tender.

- 18.2 Verbal clarification and information given by MNGL or its employee(s) or its representatives shall not in any way be binding on MNGL.

19 Local Conditions:

- 19.1 It will be imperative on each tenderer to inform himself of all local conditions and factors which may have any effect on the execution of WORK covered under the Tender Document. In their own interest, the tenderer is requested to familiarize themselves with the Indian Income Tax Act 1961, Indian Companies Act 1956, Indian Customs Act 1962 and other related Acts and Laws and Regulations of India with their latest amendments, as applicable. MNGL shall not entertain any requests for clarifications from the tenderer regarding such local conditions.

- 19.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the tender. No claim for financial or any other adjustments to VALUE OF CONTRACT, on lack of clarity of such factors shall be entertained.

20 Abnormal Rates:

- 20.1 The tenderer is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and Conditions of Contract. This will avoid loss of profit or gain in case of curtailment or change of specification for any item. In case it is noticed that the rates quoted by the tenderer for any item are unusually high or unusually low, it will be sufficient cause for the rejection of the tender unless the EMPLOYER is convinced about the reasonableness after scrutiny of the analysis for such rate(s) to be furnished by the tenderer (on demand).

Section-IV. General Obligations

21 Priority of Contract Documents

- 21.1 Except if and the extent otherwise provided by the Contract, the provisions of the General Conditions of Contract and Special Conditions shall prevail over those of any other documents forming part of the CONTRACT. Several documents forming the CONTRACT are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the ENGINEER-IN-CHARGE who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows:

- 1) The Contract Agreement
- 2) The Letter of Acceptance
- 3) The Instructions to Bidders (ITB)



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- 4) Special Conditions of Contract (SCC)
- 5) General Conditions of Contract (GCC)
- 6) Any other document forming part of the Contract

Works shown in the DRAWING but not mentioned in the SPECIFICATIONS OR described in the SPECIFICATIONS without being shown in the DRAWINGS shall nevertheless be deemed to be included in the same manner as if they had been specifically shown upon the DRAWINGS and described in the SPECIFICATIONS.

- 21.2 Headings and Marginal Notes: All headings and marginal notes to the clauses of these General Conditions of Contract or to the SPECIFICATIONS or to any other Tender Document are solely for the purpose of giving a concise indication and not a summary of the contents thereof, and they shall never be deemed to be part thereof or be used in the interpretation or construction thereof the CONTRACT.
- 21.3 Singular and Plural: In CONTRACT DOCUMENTS unless otherwise stated specifically, the singular shall include the plural and vice versa wherever the context so requires.
- 21.4 Interpretation: Words implying 'Persons' shall include relevant 'Corporate Companies / Registered Associations/ Body of Individuals/ Firm of Partnership' as the case may be.

22 Special Conditions of Contract:

- 22.1 Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, specification of Work, Drawings and any other documents forming part of this CONTRACT wherever the context so requires.
- 22.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 22.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears the provisions of the Special Conditions of Contract shall be deemed to override the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 22.4 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 22.5 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the



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standard codes and specifications, these additional requirements shall also be satisfied.

23 Contractor to obtain his own Information:

- 23.1 The CONTRACTOR in fixing his rate shall for all purpose whatsoever reason may be, deemed to have himself independently obtained all necessary information for the purpose of preparing his tender and his tender as accepted shall be deemed to have taken into account all contingencies as may arise due to such information or lack of same. The correctness of the details, given in the Tender Document to help the CONTRACTOR to make up the tender is not guaranteed.

The CONTRACTOR shall be deemed to have examined the CONTRACT DOCUMENTS, to have generally obtained his own information in all matters whatsoever that might affect the carrying out of the works at the scheduled rates and to have satisfied himself to the sufficiency of his tender. Any error in description of quantity or omission there from shall not vitiate the CONTRACT or release the CONTRACTOR from executing the work comprised in the CONTRACT according to DRAWINGS and SPECIFICATIONS at the scheduled rates. He is deemed to have known the scope, nature and magnitude of the WORKS and the requirements of materials and labour involved etc., and as to what all works he has to complete in accordance with the CONTRACT documents whatever be the defects, omissions or errors that may be found in the DOCUMENTS. The CONTRACTOR shall be deemed to have visited surroundings, to have satisfied himself to the nature of all existing structures, if any, and also as to the nature and the conditions of the Railways, Roads, Bridges and Culverts, means of transport and communication, whether by land, water or air, and as to possible interruptions thereto and the access and egress from the site, to have made enquiries, examined and satisfied himself as to the sites for obtaining sand, stones, bricks and other materials, the sites for disposal of surplus materials, the available accommodation as to whatever required, depots and such other buildings as may be necessary for executing and completing the works, to have made local independent enquiries as to the sub-soil, subsoil water and variations thereof, storms, prevailing winds, climatic conditions and all other similar matters effecting these works. He is deemed to have acquainted himself as to his liability of payment of Government Taxes, Customs duty and other charges, levies etc.

Any neglect or omission or failure on the part of the CONTRACTOR in obtaining necessary and reliable information upon the foregoing or any other matters affecting the CONTRACT shall not relieve him from any risks or liabilities or the entire responsibility from completion of the works at the scheduled rates and times in strict accordance with the CONTRACT.

It is, therefore, expected that should the CONTRACTOR have any doubt as to the meaning of any portion of the CONTRACT DOCUMENT he shall set forth the particulars thereof in writing to EMPLOYER in duplicate, before submission of tender. The EMPLOYER may provide such clarification as may be necessary in writing to CONTRACT, such clarifications as provided by EMPLOYER shall form part of CONTRACT DOCUMENTS.



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No verbal agreement or inference from conversation with any effect or employee of the EMPLOYER either before, during or after the execution of the CONTRACT agreement shall in any way affect or modify and of the terms or obligations herein contained.

Any change in layout due to site conditions or technological requirement shall be binding on the CONTRACTOR and no extra claim on this account shall be entertained.

24 Contract Performance Security:

24.1 The CONTRACTOR shall furnish to the EMPLOYER, within 15 days from the date of notification of award, a security in the sum of 10% of Contract / Delivery Order Value of the tender or the actual value of work to be done whichever is applicable due to any additional work or any other reasons, in the form of a Bank draft / Banker's cheque or electronic Bank Guarantee or irrevocable Letter of credit (as per proforma enclosed) as Contract Performance Security with the EMPLOYER which will be refunded after the expiry of DEFECTS LIABILITY PERIOD.

24.2 CONTRACTOR can furnish the Contract Performance Security in the form of Demand Draft or through an electronic Bank Guarantee or through an irrevocable Letter of Credit from any Indian scheduled bank or a branch of an international bank situated in India and registered with Reserve Bank of India as scheduled foreign bank.

The electronic bank guarantee or the Letter of Credit shall be submitted in the prescribed format.

24.3 If the CONTRACTOR / SUB-CONTRACTOR or their employees or the CONTRACTOR's agents and representatives shall damage, break, deface or destroy any property belonging to the EMPLOYER or others during the execution of the CONTRACT, the same shall be made good by the CONTRACTOR at his own expenses and in default thereof, the ENGINEER-IN-CHARGE may cause the same to be made good by other agencies and recover expenses from the CONTRACTOR (for which the certificate of the ENGINEER- IN-CHARGE shall be final).

24.4 All compensation or other sums of money payable by the CONTRACTOR to the EMPLOYER under terms of this CONTRACT may be deducted from or paid by the encashment or sale of a sufficient part of his Contract Performance Security or from any sums which may be due or may become due to the CONTRACTOR by the EMPLOYER of any account whatsoever and in the event of his Contract Performance Security being reduced by reasons of any such deductions or sale of aforesaid, the CONTRACTOR shall within ten days thereafter make good in cash, bank drafts as aforesaid any sum or sums which may have been deducted from or realized by sale of his Contract Performance Security, or any part thereof. No interest shall be payable by the EMPLOYER for sum deposited as Contract Performance Security.

24.5 Failure of the successful bidder to comply with the requirements of this Clause shall constitute sufficient grounds for the annulment of the award and the forfeiture of bid security.



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25 Time of Performance:

25.1 Time for Mobilization

The work covered by this CONTRACT shall be commenced within seven (7) days, the date of letter/Fax of Intent or as mentioned in Letter/Fax of Intent and be completed in stages on or before the dates as mentioned in the TIME SCHEDULE OF COMPLETION OF WORK. The CONTRACTOR should bear in mind that time is the essence of this agreement. Request for revision of construction time after tenders are opened will not receive consideration. The above period is included within the overall COMPLETION SCHEDULE, not over and above the completion time to any additional work or any other reasons.

25.2 Time Schedule of Construction:

25.2.1 The general Time Schedule of construction is given in the TENDER DOCUMENT. CONTRACTOR should prepare a detailed monthly or weekly construction program jointly with the ENGINEER-IN-CHARGE within 15 days of receipt of LETTER/FAX OF INTENT or ACCEPTANCE OF TENDER. The WORK shall be executed strictly as per the Time Schedule given in the CONTRACT DOCUMENT. The period of construction given includes the time required for mobilization testing, rectifications, if any, retesting and completion in all respects in accordance with CONTRACT DOCUMENT to the entire satisfaction of the ENGINEER-IN-CHARGE.

25.2.2 The CONTRACTOR shall submit a detailed PERT network within the time frame agreed above consisting of adequate number of activities covering various key phases of the WORK such as design, procurement, manufacturing, shipment and field erection activities within fifteen (15) days from the date of LETTER/FAX OF INTENT. This network shall also indicate the interface facilities to be provided by the EMPLOYER and the dates by which such facilities are needed.

25.2.3 CONTRACTOR shall discuss the network so submitted with the EMPLOYER and the agreed network which may be in the form as submitted with the EMPLOYER or in revised form in line with the outcome of discussions shall form part of the CONTRACT, to be signed within fifteen (15) days from the date of LETTER OF ACCEPTANCE OF TENDER. During the performance of the CONTRACT, if in the opinion of the EMPLOYER proper progress is not maintained suitable changes shall be made in the CONTRACTOR's operation to ensure proper progress.

The above PERT network shall be reviewed periodically and reports shall be submitted by the CONTRACTOR as directed by EMPLOYER.

26 Force Majeure :

26.1 CONDITIONS FOR FORCE MAJEURES

In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the CONTRACT the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which Force Majeure event lasts. The cost and loss sustained by the either party shall be borne by the respective parties.



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The term "Force Majeure" as employed herein shall mean acts of God, earthquake, war (declared or undeclared), revolts, riots, fires, floods, rebellions, explosions, hurricane, sabotage, civil commotions and acts and regulations of respective Government of the two parties, namely the EMPLOYER and the CONTRACTOR.

Upon the occurrence of such cause(s) and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing immediately but not later than 72 (Seventy-two) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim.

Time for performance of the relative obligation suspended by the Force Majeure shall then stand extended by the period for which such cause lasts.

If deliveries of bought out items and/or works to be executed by the CONTRACTOR are suspended by Force Majeure conditions lasting for more than 2 (two) months, the EMPLOYER shall have the option to terminate the CONTRACT or re-negotiate the contract provisions.

26.2 OUTBREAK OF WAR

26.2.1 If during the currency of the CONTRACT there shall be an out-break of war whether declared or not, in that part of the World which whether financially or otherwise materially affect the execution of the WORK the CONTRACTOR shall unless and until the CONTRACT is terminated under the provisions in this clause continue to use his best endeavor to complete the execution of the WORK, provided always that the EMPLOYER shall be entitled, at any time after such out-break of war to terminate or re-negotiate the CONTRACT by giving notice in writing to the CONTRACTOR and upon such notice being given the CONTRACT shall, save as to the rights of the parties under this clause and to the operation of the clauses entitled settlement of Disputes and Arbitration hereof, be terminated but without prejudice to the right of either party in respect of any antecedent breach thereof.

26.2.2 If the CONTRACT shall be terminated under the provisions of the above clause, the CONTRACTOR shall with all reasonable diligence remove from the SITE all the CONTRACTOR's equipment and shall give similar facilities to his SUB-CONTRACTORS to do so.

27 Price reduction schedule:

27.1 Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 here above or due to EMPLOYER's defaults, the Total Delivery Order value shall be reduced by ½ % per complete week of delay or part thereof subject to a maximum of 10 % of the Total Delivery Order Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.

The decision of the ENGINEER-IN-CHARGE in regard to applicability of Price Reduction Schedule shall be final and binding on the CONTRACTOR.



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27.2 All sums payable under this clause is the reduction in price due to delay in completion period at the above agreed rate.

28 Rights of the employer to forfeit contract performance security:

28.1 Whenever any claim against the CONTRACTOR for the payment of a sum of money arises out or under the CONTRACT, the EMPLOYER shall be entitled to recover such sum by appropriating in part or whole the Contract Performance Security of the CONTRACTOR. In the event of the security being insufficient or if no security has been taken from the CONTRACTOR, then the balance or the total sum recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the CONTRACTOR. The CONTRACTOR shall pay to the EMPLOYER on demand any balance remaining due.

29 Failure by the contractor to comply with the provisions of the contract:

29.1 If the CONTRACTOR refuses or fails to execute the WORK or any separate part thereof with such diligence as will ensure its completion within the time specified in the CONTRACT or extension thereof or fails to perform any of his obligation under the CONTRACT or in any manner commits a breach of any of the provisions of the CONTRACT it shall be open to the EMPLOYER at its option by written notice to the CONTRACTOR:

a) TO DETERMINE THE CONTRACT in which event the CONTRACT shall stand terminated and shall cease to be in force and effect on and from the date appointed by the EMPLOYER on that behalf, whereupon the CONTRACTOR shall stop forthwith any of the CONTRACTOR's work then in progress, except such WORK as the EMPLOYER may, in writing, require to be done to safeguard any property or WORK, or installations from damage, and the EMPLOYER, for its part, may take over the work remaining unfinished by the CONTRACTOR and complete the same through a fresh contractor or by other means, at the risk and cost of the CONTRACTOR, and any of his sureties if any, shall be liable to the EMPLOYER for any excess cost occasioned by such work having to be so taken over and completed by the EMPLOYER over and above the cost at the rates specified in the schedule of quantities and rate/prices.

b) WITHOUT DETERMINING THE CONTRACT to take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh contractor or by other means at the risk and cost of the CONTRACTOR. The CONTRACTOR and any of his sureties are liable to the EMPLOYER for any excess cost over and above the cost at the rates specified in the Schedule of Quantities/ rates, occasioned by such works having been taken over and completed by the EMPLOYER.

29.2 In such events of Clause 29.1(a) or (b) above.

a) The whole or part of the Contract Performance Security furnished by the CONTRACTOR is liable to be forfeited without prejudice to the right of the EMPLOYER to recover from the CONTRACTOR the excess cost referred to in the sub-clause aforesaid, the EMPLOYER shall also have the right of taking possession and utilizing in completing the works or any part thereof, such as materials equipment and plants available at work site belonging to the CONTRACTOR as may be



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necessary and the CONTRACTOR shall not be entitled for any compensation for use or damage to such materials, equipment and plant.

b) The amount that may have become due to the CONTRACTOR on account of work already executed by him shall not be payable to him until after the expiry of Six (6) calendar months reckoned from the date of termination of CONTRACT or from the taking over of the WORK or part thereof by the EMPLOYER as the case may be, during which period the responsibility for faulty materials or workmanship in respect of such work shall, under the CONTRACT, rest exclusively with the CONTRACTOR. This amount shall be subject to deduction of any amounts due from the CONTRACT to the EMPLOYER under the terms of the CONTRACT authorized or required to be reserved or retained by the EMPLOYER.

- 29.3 Before determining the CONTRACT as per Clause 29.1(a) or (b) provided in the judgement of the EMPLOYER, the default or defaults committed by the CONTRACTOR is/are curable and can be cured by the CONTRACTOR if an opportunity given to him, then the EMPLOYER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.
- 29.4 The EMPLOYER shall also have the right to proceed or take action as per 29.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favour of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the EMPLOYER to give any prior notice to the CONTRACTOR.
- 29.5 Termination of the CONTRACT as provided for in sub-clause 29.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued up to the date of such termination.

30 Contractor remains liable to pay compensation if action not taken under clause 29:

- 30.1 In any case in which any of the powers conferred upon the EMPLOYER BY CLAUSE 29.0 thereof shall have become exercisable and the same had not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any further case of default by the CONTRACTOR for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his Contract Performance Security, and the liability of the CONTRACTOR for past and future compensation shall remain unaffected. In the event of the EMPLOYER putting in force the power under above sub-clause (a), (b) or (c) vested in him under the preceding clause he may, if he so desired, take possession of all or any tools, and plants, materials and stores in or upon the works or the site thereof belonging to the CONTRACTOR or procured by him and intended to be used for the execution of the WORK or any part thereof paying or allowing for the same in account at the



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CONTRACT rates or in case of these not being applicable at current market rates to be certified by the ENGINEER-IN-CHARGE whose certificate thereof shall be final, otherwise the ENGINEER-IN-CHARGE may give notice in writing to the CONTRACTOR or his clerk of the works, foreman or other authorized agent, requiring him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the CONTRACTOR's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date, time or place of sale and the certificate of the ENGINEER-IN-CHARGE as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the CONTRACTOR.

31 Change in constitution:

31.1 Where the CONTRACTOR is a partnership firm, the prior approval of the EMPLOYER shall be obtained in writing, before any change is made in the constitution of the firm. Where the CONTRACTOR is an individual or a Hindu undivided family business concern, such approval as aforesaid shall, likewise be obtained before such CONTRACTOR enters into any agreement with other parties, where under, the reconstituted firm would have the right to carry out the work hereby undertaken by the CONTRACTOR. In either case if prior approval as aforesaid is not obtained, the CONTRACT shall be deemed to have been allotted in contravention of clause 37 hereof and the same action may be taken and the same consequence shall ensure as provided in the said clause.

32 Termination of contract

32(A) **TERMINATION OF CONTRACT FOR DEATH:**

If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partner dies then unless, the EMPLOYER is satisfied that the legal representative of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing CONTRACT, he (the EMPLOYER) is entitled to cancel the CONTRACT for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR'S firm on account of the cancellation of CONTRACT. The decision of the EMPLOYER in such assessment shall be final and binding on the parties. In the event of such cancellation, the EMPLOYER shall not hold the estate of the deceased CONTRACTOR and/or the surviving partners of the CONTRACTOR'S firm liable for any damages for non-completion of CONTRACT.

32(B) **TERMINATION OF CONTRACT IN CASE OF LIQUIDATION / BANKRUPTCY ETC.**

If the Contractor shall dissolve or become bankrupt or insolvent or cause or suffer any receiver to be appointed of his business or any assets thereof compound with his Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its



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business under a Receiver for the benefits of its Creditors any of them, EMPLOYER shall be at liberty:

To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by notice in writing to the Contractor or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to his providing a guarantee up to an amount to be agreed upon by EMPLOYER for due and faithful performance of the contract.

32 (C) In case of termination of CONTRACT herein set forth (under clause 29.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by Maharashtra Natural Gas Limited against any type of tender nor their offer will be considered by MNGL against any ongoing tender (s) where contract between MNGL and that particular CONTRACTOR (as a bidder) has not been finalized] for three years from the date of termination by Maharashtra Natural Gas Limited to such CONTRACTOR.

33 Members of the employer not individually liable:

33.1 No Director, or official or employee of the EMPLOYER shall in any way be personally bound or liable for the acts or obligations of the EMPLOYER under the CONTRACT or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein contained.

34 Employer not bound by personal representations:

34.1 The CONTRACTOR shall not be entitled to any increase on the scheduled rates or any other right or claim whatsoever by reason of any representation, explanation statement or alleged representation, promise or guarantees given or alleged to have been given to him by any person.

35 Contractor's office at site:

35.1 The CONTRACTOR shall provide and maintain an office at the site for the accommodation of his agent and staff and such office shall be open at all reasonable hours to receive instructions, notice or other communications. The CONTRACTOR at all-time shall maintain a site instruction book and compliance of these shall be communicated to the ENGINEER-IN CHARGE from time to time and the whole document to be preserved and handed over after completion of works.

36 Contractor's subordinate staff and their conduct

36.1 The CONTRACTOR, on or after award of the WORK shall name and depute a qualified engineer having sufficient experience in carrying out work of similar nature, to whom the equipment, materials, if any, shall be issued and instructions for works given. The CONTRACTOR shall also provide to the satisfaction of the ENGINEER-IN-CHARGE sufficient and qualified staff to superintend the execution of the WORK, competent sub-agents, foremen and leading hands including those specially qualified by previous experience to supervise the types of works comprised in the CONTRACT in such manner as will ensure work of the best quality, expeditious working. Whenever in the opinion of the ENGINEER-IN- CHARGE additional properly qualified supervisory



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staff is considered necessary, they shall be employed by the CONTRACTOR without additional charge on accounts thereof. The CONTRACTOR shall ensure to the satisfaction of the ENGINEER-IN-CHARGE that SUB- CONTRACTORS, if any, shall provide competent and efficient supervision, over the work entrusted to them.

- 36.2 If and whenever any of the CONTRACTOR's or SUBCONTRACTOR'S agents, sub-agents, assistants, foremen, or other employees shall in the opinion of ENGINEER-IN-CHARGE be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties of that in the opinion of the EMPLOYER or the ENGINEER-IN-CHARGE, it is undesirable for administrative or any other reason for such person or persons to be employed in the works, the CONTRACTOR, is so directed by the ENGINEER-IN-CHARGE, shall at once remove such person or persons from employment thereon. Any person or persons so removed from the works shall not again be employed in connection with the WORKS without the written permission of the ENGINEER-IN-CHARGE. Any person so removed from the WORK shall be immediately re-placed at the expense of the CONTRACTOR by a qualified and competent substitute. Should the CONTRACTOR be requested to repatriate any person removed from the works he shall do so and shall bear all costs in connection herewith.
- 36.3 The CONTRACTOR shall be responsible for the proper behavior of all the staff, foremen, workmen, and others, and shall exercise a proper degree of control over them and in particular and without prejudice to the said generality, the CONTRACTOR shall be bound to prohibit and prevent any employees from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties in the neighborhood and in the event of such employee so trespassing, the CONTRACTOR shall be responsible therefore and relieve the EMPLOYER of all consequent claims or actions for damages or injury or any other grounds whatsoever. The decision of the ENGINEER-IN-CHARGE upon any matter arising under this clause shall be final. The CONTRACTOR shall be liable for any liability to EMPLOYER on account of deployment of CONTRACTOR's staff etc. or incidental or arising out of the execution of CONTRACT.

The CONTRACTOR shall be liable for all acts or omissions on the part of his staff, Foremen and Workmen and others in his employment, including misfeasance or negligence of whatever kind in the course of their work or during their employment, which are connected directly or indirectly with the CONTRACT.

- 36.4 If and when required by the EMPLOYER and CONTRACTOR's personnel entering upon the EMPLOYER's premises shall be properly identified by badges of a type acceptable to the EMPLOYER which must be worn at all times on EMPLOYER's premises. CONTRACTOR may be required to obtain daily entry passes for his staff/employees from EMPLOYER to work within operating areas. These being safety requirements, no relaxations on this account shall be given to CONTRACTOR.

37 Sub-letting of works:

- 37.1 No part of the CONTRACT nor any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the CONTRACTOR directly or indirectly



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to any person, firm or corporation whatsoever without the consent in writing, of the ENGINEER/EMPLOYER except as provided for in the succeeding sub-clause.

- i) **SUB-CONTRACTS FOR TEMPORARY WORKS ETC.:**
The EMPLOYER may give written consent to Sub- contract for the execution of any part of the WORK at the site, being entered in to by CONTRACTOR provided each individual Sub- contract is submitted to the ENGINEER-IN-CHARGE before being entered into and is approved by him.
- ii) **LIST OF SUB-CONTRACTORS TO BE SUPPLIED:**
At the commencement of every month the CONTRACTOR shall furnish to the ENGINEER-IN- CHARGE list of all SUB-CONTRACTORS or other persons or firms engaged by the CONTRACTOR and working at the SITE during the previous month with particulars of the general nature of the Subcontract or works done by them.
- iii) **CONTRACTOR'S LIABILITY NOT LIMITED BY SUBCONTRACTORS:**
Notwithstanding any sub-letting with such approval as aforesaid and notwithstanding that the ENGINEER-IN-CHARGE shall have received copies of any Subcontracts, the contractor shall be and shall remain solely responsible for the quality, proper and expeditious execution of the Contract in all respects as if such sub-letting or Subcontracting had not taken place, and as if such work had been done directly by the CONTRACTOR. The CONTRACTOR shall bear all responsibility for any act or omission on the part of sub- contractors in regard to work to be performed under the CONTRACT.
- iv) **EMPLOYER MAY TERMINATE SUB-CONTRACTS:**
If any SUB-CONTRACTOR engaged upon the works at the site executes any works which in the opinion of the ENGINEER-IN-CHARGE is not in accordance with the CONTRACT documents, the EMPLOYER may by written notice to the CONTRACTOR request him to terminate such subcontract and the CONTRACTOR upon the receipt of such notice shall terminate such Subcontract and dismiss the SUB-CONTRACTOR(S) and the later shall forthwith leave the works, failing which the EMPLOYER shall have the right to remove such SUB- CONTRACTOR(S) from the site.
- v) **NO REMEDY FOR ACTION TAKEN UNDER THIS CLAUSE:**
No action taken by the EMPLOYER under the clause shall relieve the CONTRACTOR of any of his liabilities under the CONTRACT or give rise to any right or compensation, extension of time or otherwise failing which the EMPLOYER shall have the right to remove such SUB-CONTRACTOR(S) from the site.

38 Power of entry:

38.1 If the CONTRACTOR shall not commence the WORK in the manner previously described in the CONTRACT documents or if he shall at any time in the opinion of the ENGINEER-IN-CHARGE.

- i) fail to carry out the WORK in conformity with the CONTRACT documents, or



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- ii) fail to carry out the WORK in accordance with the Time Schedule, or
- iii) substantially suspend work or the WORK for a period of fourteen days without authority from the ENGINEER-IN-CHARGE, or
- iv) fail to carry out and execute the WORK to the satisfaction of the ENGINEER-IN-CHARGE, or
- v) fail to supply sufficient or suitable construction plant, temporary works, labour, materials or things, or
- vi) Commit, suffer, or permit any other breach of any of the provisions of the CONTRACT on his part to be performed or observed or persist in any of the above-mentioned breaches of the CONTRACT for fourteen days, after notice in writing shall have been given to the CONTRACTOR by the ENGINEER-IN-CHARGE requiring such breach to be remedied, or
- vii) if the CONTRACTOR shall abandon the WORK or
- viii) If the CONTRACTOR during the continuance of the CONTRACT shall become bankrupt, make any arrangement or composition with his creditors, or permit any execution to be levied or go into liquidation whether compulsory or voluntary not being merely a voluntary liquidation for the purpose of amalgamation or reconstruction.

then in any such case, the EMPLOYER shall have the power to enter upon the WORK and take possession thereof and of the materials, temporary WORK, construction plant, and stock thereon, and to revoke the CONTRACTOR's license to use the same, and to complete the WORK by his agents, other CONTRACTORS or workmen or to relate the same upon any terms and to such other person, firm or corporation as the EMPLOYER in his absolute discretion may think proper to employ and for the purpose aforesaid to use or authorize the use of any materials, temporary work, CONSTRUCTION PLANT, and stock as aforesaid, without making payment or allowance to the CONTRACTOR for the said materials other than such as may be certified in writing by the ENGINEER-IN-CHARGE to be reasonable, and without making any payment or allowance to the CONTRACTOR for the use of the temporary said works, construction plant and stock or being liable for any loss or damage thereto, and if the EMPLOYER shall by reason of his taking possession of the WORK or of the WORK being completed by other CONTRACTOR (due account being taken of any such extra work or works which may or be omitted) then the amount of such excess as certified by the ENGINEER-IN-CHARGE shall be deducted from any money which may be due for work done by the CONTRACTOR under the CONTRACT and not paid for. Any deficiency shall forthwith be made good and paid to the EMPLOYER by the CONTRACTOR and the EMPLOYER shall have power to sell in such manner and for such price as he may think fit all or any of the construction plant, materials etc. constructed by or belonging to and to recoup and retain the said deficiency or any part thereof out of proceeds of the sale.

39 Contractor's responsibility with the mechanical, electrical, intercommunication system, air-conditioning contractors and other agencies:

- 39.1 Without repugnance of any other condition, it shall be the responsibility of the CONTRACTOR executing the work of civil construction, to work in close cooperation and coordinate the WORK with the Mechanical, Electrical, Air-conditioning and



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Intercommunication Contractor's and other agencies or their authorized representatives, in providing the necessary grooves, recesses, cuts and opening etc., in wall, slabs beams and columns etc. and making good the same to the desired finish as per specification, for the placement of electrical, intercommunication cables, conduits, air-conditioning inlets and outlets grills and other equipment etc. where required. For the above said requirements in the false ceiling and other partitions, the CONTRACTOR before starting-up the work shall in consultation with the Electrical, Mechanical, Intercommunication, Air-conditioning contractor and other agencies prepare and put-up a joint scheme, showing the necessary openings, grooves, recesses, cuts, the methods of fixing required for the WORK of the aforesaid, and the finishes therein, to the ENGINEER-IN-CHARGE and get the approval. The CONTRACTOR before finally submitting the scheme to the ENGINEER-IN-CHARGE, shall have the written agreement of the other agencies. The ENGINEER- IN-CHARGE, before communicating his approval to the scheme, with any required modification, shall get the final agreement of all the agencies, which shall be binding. No claim shall be entertained on account of the above.

The CONTRACTOR shall confirm in all respects with provision of any statutory regulations, ordinances or byelaws of any local or duly constituted authorities or public bodies which may be applicable from time to time to the WORK or any temporary works. The CONTRACTOR shall keep the EMPLOYER indemnified against all penalties and liabilities of every kind, arising out of non-adherence to such stains, ordinances, laws, rules, regulations, etc.

40 Other agencies at site:

40.1 The CONTRACTOR shall have to execute the WORK in such place and conditions where other agencies will also be engaged for other works such as site grading, filling, and leveling, electrical and mechanical engineering works, etc. No claim shall be entertained due to WORK being executed in the above circumstances.

41 Notice:

41.1 TO THE CONTRACTOR:

Any notice hereunder may be served on the CONTRACTOR or his duly authorized representative at the job site or may be served by registered mail direct to the address furnished by the CONTRACTOR. Proof of issue of any such notice could be conclusive of the CONTRACTOR having been duly informed of all contents therein.

41.2 TO THE EMPLOYER:

Any notice to be given to the EMPLOYER under the terms of the CONTRACTOR shall be served by sending the same by Registered mail to or delivering the same at the respective site offices of M/S. MAHARASHTRA NATURAL GAS LIMITED addressed to the HEAD/SITE-IN-CHARGE.

42 Right of various interests:

42.1 i) The EMPLOYER reserves the right to distribute the work between more than one agency (ies). The CONTRACTOR shall cooperate and afford other agency (ies)



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reasonable opportunity for access to the WORK for the carriage and storage of materials and execution of their works.

ii) Wherever the work being done by any department of the EMPLOYER or by other agency(ies) employed by the EMPLOYER is contingent upon WORK covered by this CONTRACT, the respective rights of the various interests involved shall be determined by the ENGINEER-IN-CHARGE to secure the completion of the various portions of the work in general harmony.

43 Patents and royalties:

- 43.1 The CONTRACTOR, if licensed under any patent covering equipment, machinery, materials or compositions of matter to be used or supplied or methods and process to be practiced or employed in the performance of this CONTRACT, agrees to pay all royalties and license fees which may be due with respect thereto. If any equipment, machinery, materials, composition of matters, be used or supplied or methods and processes to be practiced or employed in the performance of this CONTRACT, is covered by a patent under which the CONTRACTOR is not licensed then the CONTRACTOR before supplying or using the equipment, machinery materials, composition method or processes shall obtain such licenses and pay such royalties and license fees as may be necessary for performance of this CONTRACT. In the event the CONTRACTOR fails to pay any such royalty or obtain any such license, any suit for infringement of such patents which is brought against the CONTRACTOR or the EMPLOYER as a result such failure will be defended by the CONTRACTOR at his own expense and the CONTRACTOR will pay any damages and costs awarded in such suit. The CONTRACTOR shall promptly notify the EMPLOYER if the CONTRACTOR has acquired the knowledge of any plant under which a suit for infringement could be reasonably brought because of the use by the EMPLOYER of any equipment, machinery, materials, process and methods to be supplied hereunder. The CONTRACTOR agrees to and does hereby grant to EMPLOYER, together with the right to extend the same to any of the subsidiaries of the EMPLOYER as irrevocable, royalty free license to use in any country, any invention made by the CONTRACTOR or his employee in or as result of the performance of the WORK under the CONTRACT.
- 43.2 All charges on account of royalty, toil age, rent, octroi terminal or sales tax and/or other duties or any other levy on materials obtained for the work or temporary work or part thereof (excluding materials provided by the EMPLOYER) shall be borne by the CONTRACTOR.
- 43.3 The CONTRACTOR shall not sell or otherwise dispose of or remove except for the purpose of this CONTRACT, the sand, stone, clay, ballast, earth, rock or other substances, or materials obtained from any excavation made for the purpose of the WORK or any building or produce upon the site at the time of delivery of the possession thereof, but all such substances, materials, buildings and produce shall be the property of the EMPLOYER provided that the CONTRACTOR may with the permission of the ENGINEER-IN-CHARGE, use the same for the purpose of the work by payment of cost of the same at such a rate as may be determined by the ENGINEER-IN- CHARGE.



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43.4 The EMPLOYER shall indemnify and save harmless the CONTRACTOR from any loss on account of claims against CONTRACTOR for the contributory infringement of patent rights arising out and based upon the claim that the use of the EMPLOYER of the process included in the design prepared by the EMPLOYER and used in the operation of the plant infringes on any patent right. With respect to any subcontract entered into by CONTRACTOR pursuant to the provisions of the relevant clause hereof, the CONTRACTOR shall obtain from the SUB-CONTRACTOR an undertaking to provide the EMPLOYER with the same patent protection that CONTRACTOR is required to provide under the provisions of this clause.

44 Liens:

44.1 If, at any time there should be evidence or any lien or claim for which the EMPLOYER might have become liable and which is chargeable to the CONTRACTOR, the EMPLOYER shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify the EMPLOYER against such lien or claim and if such lien or claim be valid, the EMPLOYER may pay and discharge the same and deduct the amount so paid from any money which may be or may become due and payable to the CONTRACTOR. If any lien or claim remain unsettled after all payments are made, the CONTRACTOR shall refund or pay to the EMPLOYER all money that the latter may be compelled to pay in discharging such lien or claim including all costs and reasonable expenses. EMPLOYER reserves the right to do the same.

44.2 The EMPLOYER shall have lien on all materials, equipment including those brought by the CONTRACTOR for the purpose of erection, testing and commissioning of the WORK.

44.3 The final payment shall not become due until the CONTRACTOR delivers to the ENGINEER-IN-CHARGE a complete release or waiver of all liens arising or which may arise out of his agreement or receipt in full or certification by the CONTRACTOR in a form approved by ENGINEER-IN-CHARGE that all invoices for labor, materials, services have been paid in lieu thereof and if required by the ENGINEER-IN-CHARGE in any case an affidavit that so far as the CONTRACTOR has knowledge or information the releases and receipts include all the labor and material for which a lien could be filled.

44.4 CONTRACTOR will indemnify and hold the EMPLOYER harmless, for a period of two years after the issue of FINAL CERTIFICATE, from all liens and other encumbrances against the EMPLOYER on account of debts or claims alleged to be due from the CONTRACTOR or his SUB-CONTRACTOR to any person including SUB-CONTRACTOR and on behalf of EMPLOYER will defend at his own expense, any claim or litigation brought against the EMPLOYER or the CONTRACTOR in connection therewith. CONTRACTOR shall defend or contest at his own expense any fresh claim or litigation by any person including his SUB-CONTRACTOR, till its satisfactory settlement even after the expiry of two years from the date of issue of FINAL CERTIFICATE.



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45 Delays by employer or his authorized agents:

45.1 In case the CONTRACTOR's performance is delayed due to any act or omission on the part of the EMPLOYER or his authorized agents, then the CONTRACTOR shall be given due extension of time for the completion of the WORK, to the extent such omission on the part of the EMPLOYER has caused delay in the CONTRACTOR's performance of his WORK.

45.2 No adjustment in CONTRACT PRICE shall be allowed for reasons of such delays and extensions granted except as provided in TENDER DOCUMENT, where the EMPLOYER reserves the right to seek indulgence of CONTRACTOR to maintain the agreed Time Schedule of Completion.

In such an event the CONTRACTOR shall be obliged for working by CONTRACTOR's personnel for additional time beyond stipulated working hours as also Sundays and Holidays and achieve the completion date/interim targets.

46 Payment if the contract is terminated:

46.1 If the CONTRACT shall be terminated as per Tender pursuant to Clause no. 29 of GCC, the CONTRACTOR shall be paid by the EMPLOYER in so far as such amounts or items shall not have already been covered by payments of amounts made to the CONTRACTOR for the WORK executed and accepted by ENGINEER-IN-CHARGE prior to the date of termination at the rates and prices provided for in the CONTRACT and in addition to the following:

- a) The amount payable in respect of any preliminary items, so far as the Work or service comprised therein has been carried out or performed and an appropriate portion as certified by ENGINEER-IN-CHARGE of any such items or service comprised in which has been partially carried out or performed.
- b) Any other expenses which the CONTRACTOR has expended for performing the WORK under the CONTRACT subject to being duly recommended by ENGINEER-IN-CHARGE and approved by EMPLOYER for payment, based on documentary evidence of his having incurred such expenses.

46.2 The CONTRACTOR will be further required to transfer the title and provide the following in the manner and as directed by the EMPLOYER.

- a) Any and all completed works.
- b) Such partially completed WORK including drawings, information and CONTRACT rights as the CONTRACTOR has specially performed, produced or acquired for the performance of the CONTRACTOR.

47 No waiver of rights:

47.1 Neither the inspection by the EMPLOYER or any of their officials, employees, or agents nor any order by the EMPLOYER for payment of money or any payment for or acceptance of the whole or any part of the Work by the EMPLOYER nor any extension of time, nor any possession taken by EMPLOYER shall operate as a waiver of any provision of the CONTRACT, or of any power herein reserved to the EMPLOYER, or



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any right to damages herein provided, nor shall any waiver of any breach in the CONTRACT be held to be a waiver of any other subsequent breach.

48 Certificate not to affect right of employer and liability of contractor:

48.1 No interim payment certificate(s) issued by the Engineer-in-Charge of the EMPLOYER, nor any sum paid on account by the EMPLOYER, nor any extension of time for execution of the work granted by EMPLOYER shall affect or prejudice the rights of the Employer against the CONTRACTOR or relieve the CONTRACTOR of his obligations for the due performance of the CONTRACT, or be interpreted as approval of the WORK done or of the equipment supplied and no certificate shall create liability for the EMPLOYER to pay for alterations, amendments, variations or additional works not ordered, in writing, by EMPLOYER or discharge the liability of the CONTRACTOR for the payment of damages whether due, ascertained, or certified or not or any sum against the payment of which he is bound to indemnify the EMPLOYER.

49 Language and measures:

49.1 All documents pertaining to the CONTRACT including Specifications, Schedules, Notices, Correspondence, operating and maintenance Instructions, DRAWINGS, or any other writing shall be written in English language. The Metric System of measurement shall be used in the CONTRACT unless otherwise specified.

50 Transfer of title:

50.1 The title of Ownership of supplies furnished by the CONTRACTOR shall not pass on to the EMPLOYER for all Supplies till the same are finally accepted by the EMPLOYER after the successful completion of PERFORMANCE TEST and GUARANTEE TEST and issue of FINAL CERTIFICATE.

50.2 However, the EMPLOYER shall have the lien on all such works performed as soon as any advance or progressive payment is made by the EMPLOYER to the CONTRACTOR and the CONTRACTOR shall not subject these works for use other than those intended under this CONTRACT.

51 Release of information:

51.1 The CONTRACTOR shall not communicate or use in advertising, publicity, sales releases or in any other medium, photographs, or other reproduction of the Work under this CONTRACT or description of the site dimensions, quantity, quality or other information, concerning the Work unless prior written permission has been obtained from the EMPLOYER.

52 Brand names:

52.1 The specific reference in the SPECIFICATIONS and documents to any material by trade name, make or catalogue number shall be construed as establishing standard or quality and performance and not as limited competition. However, TENDERER may offer other similar equipment provided it meets the specified standard design and performance requirements.

53 Completion of contract:



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- 53.1 Unless otherwise terminated under the provisions of any other relevant clause, this CONTRACT shall be deemed to have been completed at the expiration of the PERIOD OF LIABILITY as provided for under the CONTRACT.

54 Spares:

- 54.1 The CONTRACTOR shall furnish to the EMPLOYER all spares required for COMMISSIONING of the plants, recommendatory and/or mandatory spares, which are required essential by the manufacturer/supplier. The same shall be delivered at SITE, 3(Three) months before COMMISSIONING.

Also, the CONTRACTOR should furnish the manufacturing drawings for fast wearing spares.

- 54.2 The CONTRACTOR guarantees the EMPLOYER that before the manufacturers of the equipment, plants and machineries go out of production of spare parts for the equipment furnished and erected by him, he shall give at least twelve (12) months' advance notice to the EMPLOYER, so that the latter may order his requirement of spares in one lot, if he so desires.

SECTION-V Performance of Work

55 Execution of work:

- 55.1 All the Works shall be executed in strict conformity with the provisions of the CONTRACT Documents and with such explanatory detailed drawings, specification and instructions as may be furnished from time to time to the CONTRACTOR by the ENGINEER-IN-CHARGE whether mentioned in the CONTRACT or not. The CONTRACTOR shall be responsible for ensuring that works throughout are executed in the most substantial, proper and workmanlike manner with the quality of material and workmanship in strict accordance with the SPECIFICATIONS and to the entire satisfaction of the ENGINEER-IN-CHARGE. The CONTRACTOR shall provide all necessary materials equipment labor etc. for execution and maintenance of WORK till completion unless otherwise mentioned in the CONTRACT.

56 Co-ordination and inspection of work:

- 56.1 The coordination and inspection of the day-to-day work under the CONTRACT shall be the responsibility of the ENGINEER-IN-CHARGE. The written instruction regarding any particular job will normally be passed by the ENGINEER-IN-CHARGE or his authorized representative. A work order book will be maintained by the CONTRACTOR for each sector in which the aforesaid written instructions will be entered. These will be signed by the CONTRACTOR or his authorized representative by way of acknowledgement within 12 hours.

57 Work in monsoon and dewatering:

- 57.1 Unless otherwise specified elsewhere in the tender, the execution of the WORK may entail working in the monsoon also. The CONTRACTOR must maintain a minimum labor force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon.



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57.2 During monsoon and other period, it shall be the responsibility of the CONTRACTOR to keep the construction work site free from water at his own cost.

58 Work on Sundays and holidays:

58.1 For carrying out Work on Sundays, and Holidays, the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his representative at least two days in advance and obtain permission in writing. The CONTRACTOR shall observe all labor laws and other statutory rules and regulations in force. In case of any violations of such laws, rules and regulations, consequence if any, including the cost thereto shall be exclusively borne by the CONTRACTOR and the EMPLOYER shall have no liability whatsoever on this account.

59 General conditions for construction and erection work:

59.1 The working time at the site of work is 48 hours per week. Overtime work is permitted in cases of need and the EMPLOYER will not compensate the same. Shift working at 2 or 3 shifts per day will become necessary and the CONTRACTOR should take this aspect into consideration for formulating his rates for quotation. No extra claims will be entertained by the EMPLOYER on this account. For carrying out work beyond working hours the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his authorized representative and obtain his prior written permission.

59.2 The CONTRACTOR must arrange for the placement of workers in such a way that the delayed completion of the WORK or any part thereof for any reason whatsoever will not affect their proper employment. The EMPLOYER will not entertain any claim for idle time payment whatsoever.

59.3 The CONTRACTOR shall submit to the EMPLOYER/ENGINEER-INCHARGE reports at regular intervals regarding the state and progress of WORK. The details and proforma of the report will mutually be agreed after the award of CONTRACT. The CONTRACTOR shall provide display boards showing progress and labor strengths at worksite, as directed by the ENGINEER-IN-CHARGE.

60 Alterations in specifications, design and extra works:

60.1 The WORK covered under this CONTRACT having to be executed by the CONTRACTOR on a lump sum firm price/item rate quoted by him, the EMPLOYER will not accept any proposals for changes in VALUE OF CONTRACT or extension in time on account of any such changes which may arise to the CONTRACTOR's scope of WORK as a result of detailed Engineering and thereafter during the execution of WORK. The only exception to this will be a case where the EMPLOYER requests in writing to the CONTRACTOR to upgrade the SPECIFICATIONS or the size of any major pieces of equipment, plant or machinery beyond what is normally required to meet the scope of WORK as defined in the CONTRACT DOCUMENT.

In such cases, a change order will be initialed by the CONTRACTOR at the appropriate time for the EMPLOYER's prior approval giving the full back-up data for their review and for final settlement of any impact on price within 30 (thirty) days thereafter.



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60.2 The ENGINEER-IN-CHARGE shall have to make any alterations in, omission from, additions to or substitutions for, the Schedule of Rates, the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the WORK and the CONTRACTOR shall be bound to carry out the such altered/ extra/ new items of WORK in accordance with any instructions which may be given to him in writing signed by the ENGINEER-IN-CHARGE, and such alterations, omissions, additions or substitutions shall not invalidate the CONTRACT and any altered, additional or substituted work which the CONTRACTOR may be directed to do in the manner above specified as part of the WORK shall be carried out by the CONTRACTOR on the same conditions in all respects on which he agreed to do the main WORK. The time of completion of WORK may be extended for the part of the particular job at the discretion of the ENGINEER-IN-CHARGE, for only such alterations, additions or substitutions of the WORK, as he may consider as just and reasonable. The rates for such additional, altered or substituted WORK under this clause shall be worked out in accordance with the following provisions:

I. For Item Rate Contract

- a) If the rates for the additional, altered or substituted WORK are specified in the CONTRACT for the WORK, the CONTRACTOR is bound to carry on the additional, altered or substituted WORK at the same rates as are specified in the CONTRACT.
- b) If the rates for the additional, altered or substituted WORK are not specifically provided in the CONTRACT for the WORK, the rates will be derived from the rates for similar class of WORK as are specified in the CONTRACT for the WORK. The opinion of the ENGINEER-IN-CHARGE, as to whether or not the rates can be reasonably so derived from the items in this CONTRACT will be final and binding on the CONTRACTOR.
- c) If the rates for the altered, additional or substituted WORK cannot be determined in the manner specified in sub-clause (a) and (b) above, then the CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labor cost at schedule of labor rates plus 3% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER-IN-CHARGE as to current market rates of materials and the quantum of labor involved per unit of measurement will be final and binding on the CONTRACTOR.



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- d) Where the item of work will be executed through nominated specialist agency as approved by the ENGINEER-IN-CHARGE, then the actual amount paid to such nominated agency supported by documentary evidence and as certified by ENGINEER-IN-CHARGE shall be considered plus 3% (Three Percent) to cover all contingencies, overhead, profits to arrive at the rates.
- e) Provisions contained in the Sub-clause (a) & (d) above shall, however, not apply for the following:

Where the value of additions of new items together with the value of alterations, additions/deletions or substitutions does not exceed by or is not less than plus/minus (+_)25% of the VALUE OF CONTRACT. The item rates in the Schedule of Rates shall hold good for all such variations between the above-mentioned limits, irrespective of any increase/decrease of quantities in the individual items of Schedule of Rates.

Where the value of addition of new items together with the value of alterations, additions/deletions or substitutions reduces more than 25% of the contract value but is within the following limits the tenderer shall be paid compensation for decrease in the value of work, as follows:

Sl. No.	Range of Variation	Percentage compensation for decrease in the value of work in the respective range.
a)	Beyond (+) 25% up to & inclusive of (+) 50%	No increase and/or decrease shall be applicable for the Schedule of Rates (The rates quoted for this increase shall be valid).
b)	Beyond (-) 25% up to & inclusive of (-) 50%	For reduction beyond 25% contractor shall be compensated by an amount equivalent to 10% of the reduction in value of the contract as awarded. For example if the actual contract value is 70% of awarded value then compensation shall be 10% of (75-70) i.e. 0.5% of awarded contract value.

II. For Lump Sum Contracts

CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or



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rates on the basis of the prevailing market rates, labor cost at schedule of labor rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER- IN-CHARGE as to current market rates of materials and the quantum of labor involved per unit of measurement will be final and binding on the CONTRACTOR.

61 Drawings to be supplied by the employer

- 61.1 The drawings attached with tender are only for the general guidance to the CONTRACTOR to enable him to visualize the type of work contemplated and scope of work involved. The CONTRACTOR will be deemed to have studied the DRAWINGS and formed an idea about the WORK involved.
- 61.2 Detailed working drawings on the basis of which actual execution of the WORK is to proceed, will be furnished from time to time during the progress of the work. The CONTRACTOR shall be deemed to have gone through the DRAWINGS supplied to him thoroughly and carefully and in conjunction with all other connected drawings and bring to the notice of the ENGINEER-IN-CHARGE discrepancies, if any, therein before actually carrying out the Work.
- 61.3 Copies of all detailed working drawings relating to the WORK shall be kept at the CONTRACTOR's office on the site and shall be made available to the ENGINEER-IN-CHARGE at any time during the CONTRACT. The drawings and other documents issued by the EMPLOYER shall be returned to the EMPLOYER on completion of the WORK.

62 Drawings to be supplied by the contractor:

- 62.1 The drawings/date which are to be furnished by the CONTRACTOR are enumerated in the special conditions of contract, and shall be furnished within the specified time.
- 62.2 Where approval/review of drawings before manufacture/ construction/fabrication has been specified, it shall be CONTRACTOR's responsibility to have these drawings prepared as per the directions of ENGINEER-IN-CHARGE and got approved before proceeding with manufacture/construction/fabrication as the case may be. Any change that may have become necessary in these drawings during the execution of the work shall have to be carried out by the CONTRACTOR to the satisfaction of ENGINEER-IN-CHARGE at no extra cost. All final drawings shall bear the certification stamp as indicated below duly signed by both the CONTRACTOR and ENGINEER-IN-CHARGE.

"Certified true for _____ (Name of Work)

Agreement No. _____

Signed: _____

(CONTRACTOR)

(ENGINEER-IN-CHARGE)



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- 62.3 The DRAWINGS submitted by the CONTRACTOR shall be reviewed by the ENGINEER-IN-CHARGE as far as practicable within 3 (Three) weeks and shall be modified by the CONTRACTOR, if any modifications and/or corrections are required by the ENGINEER-IN-CHARGE. The CONTRACTOR shall incorporate such modifications and/or corrections and submit the final drawings for approval. Any delays arising out of failure by the CONTRACTOR to rectify the drawing in good time shall not alter the Contract Completion Time.
- 62.4 As built drawings showing all corrections, adjustments etc. shall be furnished by the CONTRACTOR in six copies and one transparent for record purposed to the EMPLOYER.
- 63 Setting out works:**
- 63.1 The ENGINEER-IN-CHARGE shall furnish the CONTRACTOR with only the four corners of the Works site and a level benchmark and the CONTRACTOR shall set out the Works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.
- 63.2 The CONTRACTOR shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and other similar things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The CONTRACTOR shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and center line marks, either existing or supplied and fixed by the CONTRACTOR. The work shall be set out to the satisfaction of the ENGINEER-IN-CHARGE. The approval there of joining with the CONTRACTOR by the ENGINEER-IN-CHARGE in setting out the work, shall not relieve the CONTRACTOR of any of his responsibility.
- 63.3 Before beginning the Works, the CONTRACTOR shall at his own cost, provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the works in accordance with the schemes for bearing marks acceptable to the ENGINEER-IN-CHARGE. The center, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the center to enable theodolite to be set over it. No work shall be started until all these points are checked and approved by the ENGINEER-IN-CHARGE in writing but such approval shall not relieve the CONTRACTOR of any of his responsibilities. The CONTRACTOR shall also provide all labor, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.
- 63.4 Pillars bearing geodetic marks located at the sites of units of WORKS under construction should be protected and fenced by the CONTRACTOR.
- 63.5 On completion of WORK, the CONTRACTOR must submit the geodetic documents according to which the WORK was carried out.



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64 Responsibility for level and alignment:

64.1 The CONTRACTOR shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the WORK and shall rectify effectively any errors or imperfections therein, such rectifications shall be carried out by the CONTRACTOR, at his own cost, when instructions are issued to that effect by the ENGINEER- IN-CHARGE.

65 Materials to be supplied by contractor:

65.1 The CONTRACTOR shall procure and provide within the VALUE OF CONTRACT the whole of the materials required for the construction including steels, cement and other building materials, tools, tackles, construction plant and equipment for the completion and maintenance of the WORK except the materials which will be issued by the EMPLOYER and shall make his own arrangement for procuring such materials and for the transport thereof. The EMPLOYER may give necessary recommendation to the respective authority if so desired by the CONTRACTOR but assumes no further responsibility of any nature. The EMPLOYER will insist on the procurement of materials which bear ISI stamp and/or which are supplied by reputed suppliers.

65.2 The CONTRACTOR shall properly store all materials either issued to him or brought by him to the SITE to prevent damages due to rain, wind, direct exposure to sun, etc. as also from theft, pilferage, etc. for proper and speedy execution of his works. The CONTRACTOR shall maintain sufficient stocks of all materials required by him.

65.3 No material shall be dispatched from the CONTRACTOR's stores before obtaining the approval in writing of the ENGINEER-IN-CHARGE.

66 Stores supplied by the employer:

66.1 If the SPECIFICATION of the WORK provides for the use of any material of special description to be supplied from the EMPLOYER's stores or it is required that the CONTRACTOR shall use certain stores to be provided by the ENGINEER-IN-CHARGE, such materials and stores, and price to be charged there for as hereinafter mentioned being so far as practicable for the convenience of the CONTRACTOR, but not so as in any way to control the meaning or effect of the CONTRACT, the CONTRACTOR shall be bound to purchase and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the CONTRACT only. The sums due from the CONTRACTOR for the value of materials supplied by the EMPLOYER will be recovered from the running account bill on the basis of the actual consumption of materials in the works covered and for which the running account bill has been prepared. After the completion of the WORK, however, the CONTRACTOR has to account for the full quantity of materials supplied to him as per relevant clauses in this document.

66.2 The value of the stores/materials as may be supplied to the CONTRACTOR by the EMPLOYER will be debited to the CONTRACTOR's account at the rates shown in the schedule of materials and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the CONTRACT shall include the cost of carriage and all other expenses whatsoever such as normal storage supervision charges which shall have been incurred in obtaining the same at the EMPLOYER's



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stores. All materials so supplied to the CONTRACTOR shall remain the absolute property of the EMPLOYER and shall not be removed on any account from the SITE of the WORK and shall be at all times open for inspection to the ENGINEER-IN-CHARGE. Any such materials remaining unused at the time of the completion or termination of the CONTRACT shall be returned to the EMPLOYER's stores or at a place as directed by the ENGINEER-IN-CHARGE in perfectly good condition at CONTRACTOR's cost.

67 Conditions for issue of materials:

- 67.1
- i) Materials specified as to be issued by the EMPLOYER will be supplied to the CONTRACTOR by the EMPLOYER from his stores. It shall be responsibility of the CONTRACTOR to take delivery of the materials and arrange for its loading, transport and unloading at the SITE of WORK at his own cost. The materials shall be issued between the working hours and as per the rules of the EMPLOYER as framed from time to time.
 - ii) The CONTRACTOR shall bear all incidental charges for the storage and safe custody of materials at site after these have been issued to him.
 - iii) Materials specified as to be issued by the EMPLOYER shall be issued in standard sizes as obtained from the manufacturers.
 - iv) The CONTRACTOR shall construct suitable Godowns at the SITE of WORK for storing the materials safe against damage by rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose.
 - v) It shall be duty of the CONTRACTOR to inspect the materials supplied to him at the time of taking delivery and satisfy himself that they are in good condition. After the materials have been delivered by the EMPLOYER, it shall be the responsibility of the CONTRACTOR to keep them in good condition and if the materials are damaged or lost, at any time, they shall be repaired and/or replaced by him at his own cost according to the instructions of the ENGINEER-IN-CHARGE.
 - vi) The EMPLOYER shall not be liable for delay in supply or non-supply of any materials which the EMPLOYER has undertaken to supply where such failure or delay is due to natural calamities, act of enemies, transport and procurement difficulties and any circumstances beyond the control of the EMPLOYER. In no case, the CONTRACTOR shall be entitled to claim any compensation or loss suffered by him on this account.
 - vii) It shall be responsibility of the CONTRACTOR to arrange in time all materials required for the WORK other than those to be supplied by the EMPLOYER. If, however, in the opinion of the ENGINEER-IN-CHARGE the execution of the WORK is likely to be delayed due to the CONTRACTOR's inability to make arrangements for supply of materials which normally he has to arrange for, the ENGINEER-IN-CHARGE shall have the right at his own discretion to issue such materials, if available with the EMPLOYER or procure the materials from



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the market or as elsewhere and the CONTRACTOR will be bound to take such materials at the rates decided by the ENGINEER-IN-CHARGE. This, however, does not in any way absolve the CONTRACTOR from responsibility of making arrangements for the supply of such materials in part or in full, should such a situation occur nor shall this constitute a reason for the delay in the execution of the WORK.

- viii) None of the materials supplied to the CONTRACTOR will be utilised by the CONTRACTOR for manufacturing item which can be obtained as supplied from standard manufacturer in finished form.
- ix) The CONTRACTOR shall, if desired by the ENGINEER-IN-CHARGE, be required to execute an Indemnity Bond in the prescribed form for safe custody and accounting of all materials issued by the EMPLOYER.
- x) The CONTRACTOR shall furnish to the ENGINEER-INCHARGE sufficiently in advance a statement showing his requirement of the quantities of the materials to be supplied by the EMPLOYER and the time when the same will be required by him for the works, so as to enable the ENGINEER-IN-CHARGE to make necessary arrangements for procurement and supply of the material.
- xi) Account of the materials issued by the EMPLOYER shall be maintained by CONTRACTOR indicating the daily receipt, consumption and balance in hand. This account shall be maintained in a manner prescribed by the ENGINEER-IN-CHARGE along with all connected papers viz. requisitions, issues, etc., and shall be always available for inspection in the CONTRACTOR's office at SITE.
- xii) The CONTRACTOR should see that only the required quantities of materials are got issued. The CONTRACTOR shall not be entitled to cartage and incidental charges for returning the surplus materials, if any, to the stores wherefrom they were issued or to the place as directed by the ENGINEER-IN-CHARGE.
- xiii) Materials/Equipment(s) supplied by EMPLOYER shall not be utilized for any purpose(s) than issued for.

68 Material procured with assistance of employer/return of surplus:

68.1 Notwithstanding anything contained to the contrary in any or all the clauses of this CONTRACT where any materials for the execution of the CONTRACT are procured with the assistance of the EMPLOYER either by issue from EMPLOYER's stock or purchases made under order or permits or licenses issued by Government, the CONTRACTOR shall hold the said materials as trustee for the EMPLOYER and use such materials economically and solely for the purpose of the CONTRACT and not dispose them off without the permission of the EMPLOYER and return, if required by the ENGINEER-IN-CHARGE, shall determine having due regard to the condition of the materials. The price allowed to the CONTRACTOR, however, shall not exceed the amount charged to him excluding the storage charges, if any. The decision of the ENGINEER-IN-CHARGE shall be final and conclusive in such matters. In the event of breach of the aforesaid condition, the CONTRACTOR shall, in terms of the licenses or



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permits and/or criminal breach of trust, be liable to compensate the EMPLOYER at double rate or any higher rate, in the event of those materials at that time having higher rate or not being available in the market, then any other rate to be determined by the ENGINEER-IN-CHARGE and his decision shall be final and conclusive.

69 Materials obtained from dismantling:

69.1 If the CONTRACTOR in the course of execution of the WORK is called upon to dismantle any part for reasons other than those stipulated in Clauses 74 and 77 hereunder, the materials obtained in the WORK of dismantling etc., will be considered as the EMPLOYER's property and will be disposed off to the best advantage of the EMPLOYER.

70 Articles of value found:

70.1 All gold, silver and other minerals of any description and all precious stones, coins, treasure relics, antiquities and other similar things which shall be found in, under or upon the SITE, shall be the property of the EMPLOYER and the CONTRACTOR shall duly preserve the same to the satisfaction of the ENGINEER-IN-CHARGE and shall from time to time deliver the same to such person or persons indicated by the EMPLOYER.

71 Discrepancies between instructions:

71.1 Should any discrepancy occur between the various instructions furnished to the CONTRACTOR, his agent or staff or any doubt arises as to the meaning of any such instructions or should there be any misunderstanding between the CONTRACTOR's staff and the ENGINEER-IN-CHARGE's staff, the CONTRACTOR shall refer the matter immediately in writing to the ENGINEER-IN-CHARGE whose decision thereon shall be final and conclusive and no claim for losses alleged to have been caused by such discrepancies between instructions, doubts, or misunderstanding shall in any event be admissible.

72 Action where no specification is issued:

72.1 In case of any class of WORK for which there is no SPECIFICATION supplied by the EMPLOYER as mentioned in the Tender Documents such WORK shall be carried out in accordance with Indian Standard Specifications and if the Indian Standard Specifications do not cover the same, the WORK should be carried out as per standard Engineering Practice subject to the approval of the ENGINEER-IN-CHARGE.

73 Inspection of works:

73.1 The ENGINEER-IN-CHARGE will have full power and authority to inspect the WORK at any time wherever in progress either on the SITE or at the CONTRACTOR's premises/workshops wherever situated, premises/ workshops of any person, firm or corporation where WORK in connection with the CONTRACT may be in hand or where materials are being or are to be supplied, and the CONTRACTOR shall afford or procure for the ENGINEER-IN- CHARGE every facility and assistance to carry out such inspection. The CONTRACTOR shall, at all time during the usual working hours and at all other time at which reasonable notice of the intention of the ENGINEER-IN-



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CHARGE or his representative to visit the WORK shall have been given to the CONTRACTOR, either himself be present or receive orders and instructions, or have a responsible agent duly accredited in writing, present for the purpose. Orders given to the CONTRACTOR's agent shall be considered to have the same force as if they had been given to the CONTRACTOR himself. The CONTRACTOR shall give not less than seven days' notice in writing to the ENGINEER-IN-CHARGE before covering up or otherwise placing beyond reach of inspection and measurement of any work in order that the same may be inspected and measured. In the event of breach of above the same shall be uncovered at CONTRACTOR's expense for carrying out such measurement or inspection.

- 73.2 No material shall be dispatched from the CONTRACTOR's stores before obtaining the approval in writing of the Engineer-in-Charge.

The CONTRACTOR is to provide at all time during the progress of the WORK and the maintenance period, proper means of access with ladders, gangways etc. and the necessary attendance to move and adopt as directed for inspection or measurements of the WORK by the ENGINEER-IN-CHARGE.

- 73.3 The CONTRACTOR shall make available to the ENGINEER-INCHARGE free of cost all necessary instruments and assistance in checking or setting out of WORK and in the checking of any WORK made by the CONTRACTOR for the purpose of setting out and taking measurements of WORK.

74 Tests for quality of work:

- 74.1 All workmanship shall be of the respective kinds described in the CONTRACT DOCUMENTS and in accordance with the instructions of the ENGINEER-IN-CHARGE and shall be subjected from time to time to such test at CONTRACTOR's cost as the ENGINEER-IN-CHARGE may direct at the place of manufacture or fabrication or on the site or at all or any such places. The CONTRACTOR shall provide assistance, instruments, labor and materials as are normally required for examining, measuring and testing any workmanship as may be selected and required by the ENGINEER-IN-CHARGE.
- 74.2 All the tests that will be necessary in connection with the execution of the WORK as decided by the ENGINEER- IN-CHARGE shall be carried out at the field testing laboratory of the EMPLOYER by paying the charges as decided by the EMPLOYER from time to time. In case of non-availability of testing facility with the EMPLOYER, the required test shall be carried out at the cost of CONTRACTOR at Government or any other testing laboratory as directed by ENGINEER-IN-CHARGE.
- 74.3 If any tests are required to be carried out in conjunction with the WORK or materials or workmanship not supplied by the CONTRACTOR, such tests shall be carried out by the CONTRACTOR as per instructions of ENGINEER-IN-CHARGE and cost of such tests shall be reimbursed by the EMPLOYER.

75 Samples for approval:



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75.1 The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE for approval, when requested or if required by the specifications, adequate samples of all materials and finished to be used in the WORK. Such samples shall be submitted before the WORK is commenced and in ample time to permit tests and examinations thereof. All materials furnished and finishes applied in actual WORK shall be fully equal to the approved samples.

76 Action and compensation in case of bad work:

76.1 If it shall appear to the ENGINEER-IN-CHARGE that any work has been executed with unsound, imperfect or unskilled workmanship, or with materials of any inferior description, or that any materials or articles provided by the CONTRACTOR for the execution of the WORK are unsound, or of a quality inferior to that contracted for, or otherwise not in accordance with the CONTRACT, the CONTRACTOR shall on demand in writing from the ENGINEER-IN-CHARGE or his authorized representative specifying the WORK, materials or articles complained of notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the WORK so specified and provide other proper and suitable materials or articles at his own cost and in the event of failure to do so within the period specified by the ENGINEER-IN-CHARGE in his demand aforesaid, the CONTRACTOR shall be liable to pay compensation at the rate of 1 % (One percent) of the estimated cost of the whole WORK, for every week limited to a maximum of 10% (ten percent) of the value of the whole WORK, while his failure to do so shall continue and in the case of any such failure the ENGINEER-IN-CHARGE may on expiry of notice period rectify or remove and re-execute the WORK or remove and replaced with others, the materials or articles complained of to as the case may be at the risk and expense in all respects of the CONTRACTOR. The decision of the Engineering-in-charge as to any question arising under this clause shall be final and conclusive.

77 Suspension of works:

77.1 i) Subject to the provisions of sub-para (ii) of this clause, the CONTRACTOR shall, if ordered in writing by the ENGINEER-IN-CHARGE, or his representative, temporarily suspend the WORKS or any part thereof for such written order, proceed with the WORK therein ordered to be suspended until, he shall have received a written order to proceed therewith. The CONTRACTOR shall not be entitled to claim compensation for any loss or damage sustained by him by reason of temporary suspension of the WORKS aforesaid. An extension of time for completion, corresponding with the delay caused by any such suspension of the WORKS as aforesaid will be granted to the CONTRACTOR should he apply for the same provided that the suspension was not consequent to any default or failure on the part of the CONTRACTOR.

ii) In case of suspensions of entire WORK, ordered in writing by ENGINEER-IN-CHARGE, for a period of more than two months, the CONTRACTOR shall have the option to terminate the CONTRACT.

78 Employer may do part of work:

78.1 Upon failure of the CONTRACTOR to comply with any instructions given in accordance with the provisions of this CONTRACT the EMPLOYER has the alternative right, instead of assuming charge of entire WORK, to place additional labor force,



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tools, equipment and materials on such parts of the WORK, as the EMPLOYER may designate or also engage another CONTRACTOR to carry out the WORK. In such cases, the EMPLOYER shall deduct from the amount which otherwise might become due to the CONTRACTOR, the cost of such work and material with ten percent (10%) added to cover all departmental charges and should the total amount thereof exceed the amount due to the CONTRACTOR, the CONTRACTOR shall pay the difference to the EMPLOYER.

79 Possession prior to completion:

79.1 The ENGINEER-IN-CHARGE shall have the right to take possession of or use any completed or partially completed WORK or part of the WORK. Such possession or use shall not be deemed to be an acceptance of any work completed in accordance with the CONTRACT agreement. If such prior possession or use by the ENGINEER-IN-CHARGE delays the progress of WORK, equitable adjustment in the time of completion will be made and the CONTRACT agreement shall be deemed to be modified accordingly.

80 (Defects liability period) twelve months' period of liability from the date of issue of completion certificate:

80.1 The CONTRACTOR shall guarantee the installation/WORK for a period of 12 months from the date of completion of WORK as certified by the ENGINEER-IN-CHARGE which is indicated in the Completion Certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of Completion Certificate, connected in any way with the equipment or materials supplied by him or in the workmanship, shall be rectified or replaced by the CONTRACTOR at his own expense as deemed necessary by the ENGINEER-IN-CHARGE or in default, the ENGINEER-IN-CHARGE may carry out such works by other work and deduct actual cost incurred towards labor, supervision and materials consumables or otherwise plus 100% towards overheads (of which the certificate of ENGINEER-IN-CHARGE shall be final) from any sums that may then be or at any time thereafter, become due to the CONTRACTOR or from his Contract Performance Security, or the proceeds of sale thereof or a sufficient part on thereof.

80.2 If the CONTRACTOR feels that any variation in WORK or in quality of materials or proportions would be beneficial or necessary to fulfill the guarantees called for, he shall bring this to the notice of the ENGINEER-IN-CHARGE in writing.

If during the period of liability any portion of the WORK/equipment, is found defective and is rectified/ replaced, the period of liability for such equipment/ portion of WORK shall be operative from the date such rectification/ replacement are carried out and Contract Performance Guarantee shall be furnished separately for the extended period of liability for that portion of WORK/ equipment only. Notwithstanding the above provisions the supplier's, guarantees/warranties for the replaced equipment shall also be passed on to the EMPLOYER.

80.3 LIMITATION OF LIABILITY

Notwithstanding anything contrary contained herein, the aggregate total liability of CONTRACTOR under the Agreement or otherwise shall be limited to 100% of



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Agreement / Contract Value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

81 Care of works:

81.0 From the commencement to completion of the WORK, the CONTRACTOR shall take full responsibility for the care for all works including all temporary works and in case any damages, loss or injury shall happen to the WORK or to any part thereof or to any temporary works from any cause whatsoever, shall at his own cost repair and make good the same so that at completion the WORK shall be in good order and in conformity in every respects with the requirement of the CONTRACT and the ENGINEER-IN- CHARGE's instructions.

81.1 DEFECTS PRIOR TO TAKING OVER:

If at any time, before the WORK is taken over, the ENGINEER-IN-CHARGE shall:

- a) Decide that any works done or materials used by the CONTRACTOR or by any SUB-CONTRACTOR is defective or not in accordance with the CONTRACT, or that the works or any portion thereof are defective, or do not fulfill the requirements of CONTRACT (all such matters being hereinafter, called 'Defects' in this clause), and
- b) As soon as reasonably practicable, gives to the CONTRACTOR notice in writing of the said decision, specifying particulars of the defects alleged to exist or to have occurred, then the CONTRACTOR shall at his own expenses and with all speed make good the defects so specified.

In case CONTRACTOR shall fail to do so, the EMPLOYER may take, at the cost of the CONTRACTOR, such steps as may in all circumstances, be reasonable to make good such defects. The expenditure so incurred by the EMPLOYER will be recovered from the amount due to the CONTRACTOR. The decision of the ENGINEER-IN-CHARGE with regard to the amount to be recovered from the CONTRACTOR will be final and binding on the CONTRACTOR. As soon as the WORK has been completed in accordance with the CONTRACT (except in minor respects that do not affect their use for the purpose for which they are intended and except for maintenance thereof provided in clause 80.1 of General Conditions of Contract) and have passed the tests on completion, the ENGINEER-IN-CHARGE shall issue a certificate (hereinafter called Completion Certificate) in which he shall certify the date on which the WORK have been so completed and have passed the said tests and the EMPLOYER shall be deemed to have taken over the WORK on the date so certified. If the WORK has been divided into various groups in the CONTRACT, the EMPLOYER shall be entitled to take over any group or groups before the other or others and there upon the ENGINEER-IN-CHARGE shall issue a Completion Certificate which will, however, be for such group or groups so taken over only. In such an event if the group /section/ part so taken over is related, to the integrated system of the work, notwithstanding date of grant of Completion Certificate for group/ section/ part. The period of liability in respect of such group/ section/ part shall extend 12 (twelve) months from the date of completion of WORK.



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81.2 DEFECTS AFTER TAKING OVER:

In order that the CONTRACTOR could obtain a COMPLETION CERTIFICATE he shall make good, with all possible speed, any defect arising from the defective materials supplied by the CONTRACTOR or workmanship or any act or omission of the CONTRACT or that may have been noticed or developed, after the works or groups of the works has been taken over, the period allowed for carrying out such WORK will be normally one month. If any defect be not remedied within a reasonable time, the EMPLOYER may proceed to do the WORK at CONTRACTOR's risk and expense and deduct from the final bill such amount as may be decided by the EMPLOYER.

If by reason of any default on the part of the CONTRACTOR a COMPLETION CERTIFICATE has not been issued in respect of any portion of the WORK within one month after the date fixed by the CONTRACT for the completion of the WORK, the EMPLOYER shall be at liberty to use the WORK or any portion thereof in respect of which a completion certificate has not been issued, provided that the WORK or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completing these works for the issue of Completion Certificate.

82 Guarantee/transfer of guarantee:

82.1 For works like water-proofing, acid and alkali resisting materials, pre-construction soil treatment against termite or any other specialized works etc. the CONTRACTOR shall invariably engage SUB-CONTRACTORS who are specialists in the field and firms of repute and such a SUB-CONTRACTOR shall furnish guarantees for their workmanship to the EMPLOYER, through the CONTRACTOR. In case such a SUB-CONTRACTOR/ firm is not prepared to furnish a guarantee to the EMPLOYER, the CONTRACTOR shall give that guarantee to the EMPLOYER directly.

83 Training of employer's personnel:

83.1 The CONTRACTOR undertakes to provide training to Engineering personnel selected and sent by the EMPLOYER at the works of the CONTRACTOR without any cost to the EMPLOYER. The period and the nature of training for the individual personnel shall be agreed upon mutually between the CONTRACTOR and the EMPLOYER. These engineering personnel shall be given special training at the shops, where the equipment will be manufactured and/ or in their collaborator's works and where possible, in any other plant where equipment manufactured by the CONTRACTOR or his collaborators is under installation or test to enable those personnel to become familiar with the equipment being furnished by the CONTRACTOR. EMPLOYER shall bear only the to and fro fare of the said engineering personnel.

84 Replacement of defective parts and materials:

84.1 If during the progress of the WORK, EMPLOYER shall decide and inform in writing to the CONTRACTOR, that the CONTRACTOR has manufactured any plant or part of the plant unsound or imperfect or has furnished plant inferior to the quality specified, the CONTRACTOR on receiving details of such defects or deficiencies shall at his own expenses within 7 (seven) days of his receiving the notice, or otherwise within such time as may be reasonably necessary for making it good, proceed to alter, re-construct or remove such work and furnish fresh equipment up to the standards of the specifications. In case the CONTRACTOR fails to do so, EMPLOYER may on giving



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the CONTRACTOR 7 (seven) days' notice in writing of his intentions to do so, proceed to remove the portion of the WORK so complained of and at the cost of CONTRACTOR's, perform all such works or furnish all such equipment provided that nothing in the clause shall be deemed to deprive the EMPLOYER of or affect any rights under the CONTRACT, the EMPLOYER may otherwise have in respect of such defects and deficiencies.

- 84.2 The CONTRACTOR's full and extreme liability under this clause shall be satisfied by the payments to the EMPLOYER of the extra cost, of such replacements procured including erection/installation as provided for in the CONTRACT; such extra cost being the ascertained difference between the price paid by the EMPLOYER for such replacements and the CONTRACT price portion for such defective plants and repayments of any sum paid by the EMPLOYER to the CONTRACTOR in respect of such defective plant. Should the EMPLOYER not so replace the defective plant the CONTRACTOR's extreme liability under this clause shall be limited to the repayment of all such sums paid by the EMPLOYER under the CONTRACT for such defective plant.

85 Indemnity

- 85.1 If any action is brought before a Court, Tribunal or any other Authority against the Employer or an officer or agent of the EMPLOYER, for the failure, omission or neglect on the part of the CONTRACTOR to perform any acts, matters, covenants or things under the CONTRACT, or damage or injury caused by the alleged omission or negligence on the part of the CONTRACTOR, his agents, representatives or his SUB-CONTRACTOR's, or in connection with any claim based on lawful demands of SUB-CONTRACTOR's workmen suppliers or employees, the CONTRACTOR, shall in such cases indemnify and keep the EMPLOYER and/or their representatives harmless from all losses, damages, expenses or decrees arising out of such action.

86 Construction aids, equipment, tools & tackles:

- 86.1 CONTRACTOR shall be solely responsible for making available for executing the WORK, all requisite CONSTRUCTION EQUIPMENTS, Special Aids, Barges, Cranes and the like, all Tools, Tackles and Testing Equipment and Appliances, including imports of such equipment etc. as required. In case of import of the same the rates applicable for levying of Custom Duty on such Equipment, Tools, & Tackles and the duty drawback applicable thereon shall be ascertained by the CONTRACTOR from the concerned authorities of Government of India. It shall be clearly understood that EMPLOYER shall not in any way be responsible for arranging to obtain Custom Clearance and/or payment of any duties and/or duty draw backs etc. for such equipment so imported by the CONTRACTOR and the CONTRACTOR shall be fully responsible for all taxes, duties and documentation with regard to the same. Tenderer in his own interest may contact, for any clarifications in the matter, concerned agencies/Dept./Ministries of Govt. of India. All clarifications so obtained and interpretations thereof shall be solely the responsibility of the CONTRACTOR.

SECTION-VI Certificates and Payments

87 Schedule of rates and payments:



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87.1 i) CONTRACTOR'S REMUNERATION:

The price to be paid by the EMPLOYER to CONTRACTOR for the whole of the WORK to be done and for the performance of all the obligations undertaken by the CONTRACTOR under the CONTRACT DOCUMENTS shall be ascertained by the application of the respective Schedule of Rates (the inclusive nature of which is more particularly defined by way of application but not of limitation, with the succeeding sub-clause of this clause) and payment to be made accordingly for the WORK actually executed and approved by the ENGINEER-IN-CHARGE. The sum so ascertained shall (excepting only as and to the extent expressly provided herein) constitute the sole and inclusive remuneration of the CONTRACTOR under the CONTRACT and no further or other payment whatsoever shall be or become due or payable to the CONTRACTOR under the CONTRACT.

ii) SCHEDULE OF RATES TO BE INCLUSIVE:

The prices/rates quoted by the CONTRACTOR shall remain firm till the issue of FINAL CERTIFICATE and shall not be subject to escalation. Schedule of Rates shall be deemed to include and cover all costs, expenses and liabilities of every description and all risks of every kind to be taken in executing, completing and handing over the WORK to the EMPLOYER by the CONTRACTOR. The CONTRACTOR shall be deemed to have known the nature, scope, magnitude and the extent of the WORK and materials required though the CONTRACT DOCUMENT may not fully and precisely furnish them. Tenderer shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of WORK and materials as may be reasonable and necessary to complete the WORK. The opinion of the ENGINEER-IN-CHARGE as to the items of WORK which are necessary and reasonable for COMPLETION OF WORK shall be final and binding on the CONTRACTOR, although the same may not be shown on or described specifically in CONTRACT DOCUMENTS.

Generality of this present provision shall not be deemed to cut down or limit in any way because in certain cases it may and in other cases it may not be expressly stated that the CONTRACTOR shall do or perform a work or supply articles or perform services at his own cost or without addition of payment or without extra charge or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

iii) SCHEDULE OF RATES TO COVER CONSTRUCTION EQUIPMENTS, MATERIALS, LABOUR ETC.:

Without in any way limiting the provisions of the preceding sub-clause the Schedule of Rates shall be deemed to include and cover the cost of all construction equipment, temporary WORK (except as provided for herein), pumps, materials, labor, insurance, fuel, consumables, stores and appliances to be supplied by the CONTRACTOR and all other matters in connection with each item in the Schedule of Rates and the execution of the WORK or any portion thereof finished, complete in every respect and maintained as shown or



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described in the CONTRACT DOCUMENTS or as may be ordered in writing during the continuance of the CONTRACT.

- iv) **SCHEDULE OF RATES TO COVER ROYALTIES, RENTS AND CLAIMS:**
The Schedule of Rates (i.e., VALUE OF CONTRACT) shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters, patent or otherwise incorporated in or used in connection with the WORK, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the WORK and shall include an indemnity to the EMPLOYER which the CONTRACTOR hereby gives against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the WORK of any such articles, processes or materials, octroi or other municipal or local Board Charges, if levied on materials, equipment or machineries to be brought to site for use on WORK shall be borne by the CONTRACTOR.
- v) **SCHEDULE OF RATES TO COVER TAXES AND DUTIES:**
No exemption or reduction of Customs Duties, Goods & Service Tax, quay or any port dues, transport charges, stamp duties or Central or State Government or local Body or Municipal Taxes or duties, taxes or charges (from or of any other body), whatsoever, will be granted or obtained, all of which expenses shall be deemed to be included in and covered by the Schedule or Rates. The CONTRACTOR shall also obtain and pay for all permits or other privileges necessary to complete the WORK.
- vi) **SCHEDULE OF RATES TO COVER RISKS OF DELAY:**
The Schedule of Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the CONTRACTOR's conduct of WORK which occur from any causes including orders of the EMPLOYER in the exercise of his power and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.
- vii) **SCHEDULE OF RATES CANNOT BE ALTERED:**
For WORK under unit rate basis, no alteration will be allowed in the Schedule of Rates by reason of works or any part of them being modified, altered, extended, diminished or committed. The Schedule of Rates are fully inclusive of rates which have been fixed by the CONTRACTOR and agreed to by the EMPLOYER and cannot be altered.

For lump sum CONTRACTS, the payment will be made according to the WORK actually carried out, for which purpose an item wise, or work wise Schedule of Rates shall be furnished, suitable for evaluating the value of WORK done and preparing running account bill.

Payment for any additional work which is not covered in the Schedule of Rates shall only be released on issuance of change order.



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88.1 BILLING PROCEDURE:

Following procedures shall be adopted for billing of works executed by the CONTRACTOR.

88.1.1 All measurements shall be recorded in sextuplicate on standard measurement sheets supplied by EMPLOYER and submitted to EMPLOYER for scrutiny and passing.

88.1.2 EMPLOYER shall scrutinize and check the measurements recorded on the sheets and shall certify correctness of the same on the measurement sheets.

88.1.3 ENGINEER-IN-CHARGE shall pass the bills after carrying out the comprehensive checks in accordance with the terms and conditions of the CONTRACTS, within 7 days of submission of the bills, complete in all respects and send the same to the Employer to effect payment to the CONTRACTOR.

88.1.4 MNGL shall make all endeavor to make payments of undisputed amount of the bills submitted based on the joint measurements within 15 (Fifteen) days from the date of certification by the Engineer-in-Charge.

88.1.5 Measurements shall be recorded as per the methods of measurement spelt out in EMPLOYER SPECIFICATIONS / CONTRACT DOCUMENT. EMPLOYER shall be fully responsible for checking the measurements quantitatively and qualitatively as recorded in the Measurement Books/ Bills.

88.1.6 While preparing the final bills overall measurements will not be taken again. Only volume of work executed since the last measured bill along with summary of final measurements will be considered for the final bill. However, a detailed check shall be made as to missing measurements and in case there are any missing items or measurements the same shall be recorded.

88.2 SECURED ADVANCE ON MATERIAL:

Unless otherwise provided elsewhere in the tender, no 'Secured Advance' on security of materials brought to site for execution of contracted items(s) shall be paid to the Contractor whatsoever.

88.3 DISPUTE IN MODE OF MEASUREMENT:

In case of any dispute as to the mode of measurement not covered by the CONTRACT to be adopted for any item of WORK, mode of measurement as per latest Indian Standard Specifications shall be followed.

88.4 ROUNDING OF AMOUNTS:

In calculating the amount of each item due to the CONTRACTOR in every certificate prepared for payment, sum of less than 50 paise shall be omitted and the total amount on each certificate shall be rounded off to the nearest rupees, i.e., sum of less than 50 paise shall be omitted and sums of 50 paise and more up to one rupee shall be reckoned as one rupee.

89 Lump sum in tender:



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89.1 The payment against any Lump sum item shall be made only on completion of that item as per the provision of the CONTRACT after certification by ENGINEER-IN-CHARGE.

90 Running account payments to be regarded as advance:

90.1 All running account payments shall be regarded as payment by way of advance against the final payment only and not as payments for WORK actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the CONTRACT, or any part thereof, in this respect, or of the occurring of any claim by the CONTRACTOR, nor shall it conclude, determine or affect in any way the powers of the EMPLOYER under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or affect the CONTRACT. The final bill shall be submitted by the CONTRACTOR within one month of the date of physical completion of the WORK; otherwise, the ENGINEER-IN-CHARGE's certificate of the measurement and of total amount payable for the WORK accordingly shall be final and binding on all parties.

91 Notice of claims for additional payments:

91.1 Should the CONTRACTOR consider that he is entitled to any extra payment for any extra/additional WORKS or MATERIAL change in original SPECIFICATIONS carried out by him in respect of WORK he shall forthwith give notice in writing to the ENGINEER-IN-CHARGE that he claims extra payment. Such notice shall be given to the ENGINEER-IN-CHARGE upon which CONTRACTOR bases such claims and such notice shall contain full particulars of the nature of such claim with full details of amount claimed. Irrespective of any provision in the CONTRACT to the contrary, the CONTRACTOR must intimate his intention to lodge claim on the EMPLOYER within 10 (ten) days of the commencement of happening of the event and quantify the claim within 30 (thirty) days, failing which the CONTRACTOR will lose his right to claim any compensation/reimbursement/damages etc. or refer the matter to arbitration. Failure on the part of CONTRACTOR to put forward any claim without the necessary particulars as above within the time above specified shall be an absolute waiver thereof. No omission by EMPLOYER to reject any such claim and no delay in dealing therewith shall be waiver by EMPLOYER of any of these rights in respect thereof.

91.2 ENGINEER-IN-CHARGE shall review such claims within a reasonably period of time and cause to discharge these in a manner considered appropriate after due deliberations thereon. However, CONTRACTOR shall be obliged to carry on with the WORK during the period in which his claims are under consideration by the EMPLOYER, irrespective of the outcome of such claims, where additional payments for WORKS considered extra are justifiable in accordance with the CONTRACT provisions, EMPLOYER shall arrange to release the same in the same manner as for normal WORK payments. Such of the extra works so admitted by EMPLOYER shall be governed by all the terms, conditions, stipulations and specifications as are applicable for the CONTRACT. The rates for extra works shall generally be the unit rates provided for in the CONTRACT. In the event unit rates for extra works so executed are not available as per CONTRACT, payments may either be released on day work basis



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for which daily/hourly rates for workmen and hourly rates for equipment rental shall apply, or on the unit rate for WORK executed shall be derived by interpolation/extrapolation of unit rates already existing in the CONTRACT. In all the matters pertaining to applicability of rate and admittance of otherwise of an extra work claim of CONTRACTOR the decision of ENGINEER-IN-CHARGE shall be final and binding.

92 Payment of contractor's bill:

92.1 No payment shall be made for works estimated to cost less than Rs. 10,000/- till the whole of the work shall have been completed and a certificate of completion given. But in case of works estimated to cost more than Rs. 10,000/-, that CONTRACTOR on submitting the bill thereof be entitled to receive a monthly payment proportionate to the part thereof approved and passed by the ENGINEER-IN-CHARGE, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the CONTRACTOR. This payment will be made after making necessary corrections/deductions as stipulated elsewhere in the CONTRACT DOCUMENT for materials, Contract Performance Security, taxes etc.

92.2 Payment due to the CONTRACTOR shall be made by the EMPLOYER by Account Payee cheque forwarding the same to registered office or the notified office of the CONTRACTOR. In no case will EMPLOYER be responsible if the cheque is mislaid or misappropriated by unauthorized person/persons. In all cases, the CONTRACTOR shall present his bill duly pre-receipted on proper revenue stamp payment shall be made in Indian Currency.

92.3 In general payment of final bill shall be made to CONTRACTOR within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the CONTRACT.

93 Receipt for payment:

93.1 Receipt for payment made on account of work when executed by a firm, must be signed by a person holding due power of attorney in this respect on behalf of the CONTRACTOR, except when the CONTRACTOR's are described in their tender as a limited company in which case the receipts must be signed in the name of the company by one of its principal officers or by some other person having authority to give effectual receipt for the company.

94 Completion certificate:

94.1 APPLICATION FOR COMPLETION CERTIFICATE:

When the CONTRACTOR fulfils his obligation under Clause 81.1 he shall be eligible to apply for COMPLETION CERTIFICATE.

The ENGINEER-IN-CHARGE shall normally issue to the CONTRACTOR the COMPLETION CERTIFICATE within one month after receiving any application therefore from the CONTRACTOR after verifying from the completion documents and satisfying himself that the WORK has been completed in accordance with and as set out in the construction and erection drawings, and the CONTRACT DOCUMENTS.



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The CONTRACTOR, after obtaining the COMPLETION CERTIFICATE, is eligible to present the final bill for the WORK executed by him under the terms of CONTRACT.

94.2 COMPLETION CERTIFICATE:

Within one month of the completion of the WORK in all respects, the CONTRACTOR shall be furnished with a certificate by the ENGINEER-IN-CHARGE of such completion, but no certificate shall be given nor shall the WORK be deemed to have been executed until all scaffolding, surplus materials and rubbish is cleared off the SITE completely nor until the WORK shall have been measured by the ENGINEER-IN-CHARGE whose measurement shall be binding and conclusive. The WORKS will not be considered as complete and taken over by the EMPLOYER, until all the temporary works, labour and staff colonies are cleared to the satisfaction of the ENGINEER-IN-CHARGE.

If the CONTRACTOR fails to comply with the requirements of this clause on or before the date fixed for the completion of the WORK, the ENGINEER-IN-CHARGE may at the expense of the CONTRACTOR remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid, and the CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

94.3 COMPLETION CERTIFICATE DOCUMENTS:

For the purpose of Clause 94.0 the following documents will be deemed to form the completion documents:

- i) The technical documents according to which the WORK was carried out.
- ii) Six (6) sets of construction drawings showing therein the modification and correction made during the course of execution and signed by the ENGINEER-IN-CHARGE.
- iii) COMPLETION CERTIFICATE for 'embedded' and 'covered' up work.
- iv) Certificates of final levels as set out for various works.
- v) Certificates of tests performed for various WORKS.
- vi) Material appropriation, Statement for the materials issued by the EMPLOYER for the WORK and list of surplus materials returned to the EMPLOYER's store duly supported by necessary documents.

95 Final decision and final certificate:

- 95.1** Upon expiry of the period of liability and subject to the ENGINEER-IN-CHARGE being satisfied that the WORKS have been duly maintained by the CONTRACTOR during monsoon or such period as hereinbefore provided in Clause 80 & 81 and that the CONTRACTOR has in all respect duly made-up any subsidence and performed all his



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obligations under the CONTRACT, the ENGINEER-IN- CHARGE shall (without prejudice to the rights of the EMPLOYER to retain the provisions of relevant Clause hereof) otherwise give a certificate herein referred to as the FINAL CERTIFICATE to that effect and the CONTRACTOR shall not be considered to have fulfilled the whole of his obligations under CONTRACT until FINAL CERTIFICATE shall have been given by the ENGINEER-IN- CHARGE notwithstanding any previous entry upon the WORK and taking possession, working or using of the same or any part thereof by the EMPLOYER.

96 Certificate and payments on evidence of completion:

96.1 Except the FINAL CERTIFICATE, no other certificates or payments against a certificate or on general account shall be taken to be an admission by the EMPLOYER of the due performance of the CONTRACT or any part thereof or of occupancy or validity of any claim by the CONTRACTOR.

97 Deductions from the contract price:

97.1 All costs, damages or expenses which EMPLOYER may have paid or incurred, which under the provisions of the CONTRACT, the CONTRACTOR is liable/will be liable, will be claimed by the EMPLOYER. All such claims shall be billed by the EMPLOYER to the CONTRACTOR regularly as and when they fall due. Such claims shall be paid by the CONTRACTOR within 15 (fifteen) days of the receipt of the corresponding bills and if not paid by the CONTRACTOR within the said period, the EMPLOYER may, then, deduct the amount from any moneys due i.e., Contract Performance Security or becoming due to the CONTRACTOR under the CONTRACT or may be recovered by actions of law or otherwise, if the CONTRACTOR fails to satisfy the EMPLOYER of such claims.

SECTION-VII Taxes and Insurance

98 Taxes, Duties, Octroi / LBT etc.:

98.1 The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the payment of any and all Taxes, Duties, including Goods & Service Tax, octroi / LBT etc. now or hereafter imposed, increased, modified, all the taxes, duties, octroi / LBT etc. now in force and hereafter increased, imposed or modified, from time to time in respect of WORKS and materials and all contributions and taxes for unemployment compensation, insurance and old age pensions or annuities now or hereafter imposed by any Central or State Government authorities which are imposed with respect to or covered by the wages, salaries, or other compensations paid to the persons employed by the CONTRACTOR and the CONTRACTOR shall be responsible for the compliance of all SUB-CONTRACTORS, with all applicable Central, State, Municipal and local law and regulation and requirement of any Central, State or local Government agency or authority. CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless from any liability or penalty which may be imposed by the Central, State or Local authorities by reason or any violation by CONTRACTOR or SUB-CONTRACTOR of such laws, suits or proceedings that may be brought against the EMPLOYER arising under, growing out of, or by reason of the work provided for by this CONTRACT, by third parties, or by Central or State Government authority or any administrative sub-division thereof.



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Tax deductions will be made as per the rules and regulations in force in accordance with acts prevailing from time to time.

Tenderer should quote all-inclusive prices including the liability of Goods & Service Tax / Turnover Tax whether on the works contract as a whole or in respect of bought out components used by the CONTRACTOR in execution of the CONTRACT. EMPLOYER shall not be responsible for any such liability of the CONTRACTOR in respect of this CONTRACT. Since MNGL would be paying CENVAT, Goods & Service Tax, and claims reimbursement / set off for the same contractor shall furnish appropriate invoice to MNGL for such claims / set off by MNGL.

99 Goods & Service tax/turnover tax:

99.1 Tenderer should quote all-inclusive prices including the liability of Goods & Service Tax / Turnover Tax whether on the works contract as a whole or in respect of bought out components used by the CONTRACTOR in execution of the CONTRACT. EMPLOYER shall not be responsible for any such liability of the CONTRACTOR in respect of this CONTRACT. Since MNGL would be paying CENVAT, Goods & Service tax, and claims reimbursement / set off for the same contractor shall furnish appropriate invoice to MNGL for such claims / set off by MNGL.

100 Statutory variations

100.1 Tenderer should quote prices inclusive of Goods & Service Tax applicable on finished product. Any statutory variations on all taxes & duties, Goods & Service Tax, to be included on finished product during the contractual completion period, shall be to the Employer's account for which the Contractor will furnish documentary evidence(s) in support of their claims to MNGL. However, any increase in the rate of these taxes and duties (Goods & Service Tax) beyond the contractual completion period shall be to Contractor's account and any decrease shall be passed on to MNGL.

101 Insurance:

101.1 GENERAL

CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputable insurance companies to the satisfaction of the EMPLOYER as follows:

CONTRACTOR at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the WORKS in progress from time to time and the interest of EMPLOYER against all risks as detailed herein. The form and the limit of such insurance, as defined here in together with the under works thereof in each case should be as acceptable to the EMPLOYER. However, irrespective of work acceptance the responsibility to maintain adequate insurance coverage at all times during the period of CONTRACT shall be that of CONTRACTOR alone. CONTRACTOR's failure in this regard shall not relieve him of any of his responsibilities and obligations under CONTRACT.

Any loss or damage to the equipment, during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the WORK is taken over by EMPLOYER, shall be to the



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account of CONTRACTOR. CONTRACTOR shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. CONTRACTOR shall provide the EMPLOYER with a copy of all insurance policies and documents taken out by him in pursuance of the CONTRACT. Such copies of document shall be submitted to the EMPLOYER immediately upon the CONTRACTOR having taken such insurance coverage. CONTRACTOR shall also inform the EMPLOYER at least 60(Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the EMPLOYER. CONTRACTOR shall, however, be responsible for obtaining requisite licenses, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipment, plants and materials to be imported from time to time.

All costs on account of insurance liabilities covered under CONTRACT will be to CONTRACTOR's account and will be included in VALUE OF CONTRACT. However, the EMPLOYER may from time to time, during the currency of the CONTRACT, ask the CONTRACTOR in writing to limit the insurance coverage risk and in such a case, the parties to the CONTRACT will agree for a mutual settlement, for reduction in VALUE OF CONTRACT to the extent of reduced premium amounts.

CONTRACTOR as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

i) **EMPLOYEES STATE INSURANCE ACT:**

The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the compliance with all obligations imposed by the Employee State Insurance Act 1948 and the CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless for any liability or penalty which may be imposed by the Central, State or Local authority by reason of any asserted violation by CONTRACTOR or SUB-CONTRACTOR of the Employees' State Insurance Act, 1948, and also from all claims, suits or proceeding that may be brought against the EMPLOYER arising under, growing out of or by reasons of the work provided for by this CONTRACTOR, by third parties or by Central or State Government authority or any political sub- division thereof.

The CONTRACTOR agrees to fill in with the Employee's State Insurance Corporation, the Declaration Forms, and all forms which may be required in respect of the CONTRACTOR's or SUB- CONTRACTOR's employees, who are employed in the WORK provided for or those covered by ESI from time to time under the Agreement. The CONTRACTOR shall deduct and secure the



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agreement of the SUB- CONTRACTOR to deduct the employee's contribution as per the first schedule of the Employee's State Insurance Act from wages and affix the Employees Contribution Card at wages payment intervals. The CONTRACTOR shall remit and secure the agreement of SUB-CONTRACTOR to remit to the State Bank of India, Employee's State Insurance Corporation Account, the Employee's contribution as required by the Act. The CONTRACTOR agrees to maintain all cards and Records as required under the Act in respect of employees and payments and the CONTRACTOR shall secure the agreement of the SUBCONTRACTOR to maintain such records. Any expenses incurred for the contributions, making contributions or maintaining records shall be to the CONTRACTOR's or SUB-CONTRACTOR's account.

The EMPLOYER shall retain such sum as may be necessary from the total VALUE OF CONTRACT until the CONTRACTOR shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948, have been paid. This will be pending on the CONTRACTOR when the ESI Act is extended to the place of work.

- ii) WORKMEN COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE:
Insurance shall be effected for all the CONTRACTOR's employees engaged in the performance of this CONTRACT. If any of the work is sublet, the CONTRACTOR shall require the SUB-CONTRACTOR to provide workman's Compensation and employer's liability insurance for the later's employees if such employees are not covered under the CONTRACTOR's Insurance.
- iii) ACCIDENT OR INJURY TO WORKMEN:
The EMPLOYER shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the Employment of the CONTRACTOR or any SUB-CONTRACTOR save and except an accident or injury resulting from any act or default of the EMPLOYER, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensation (save and except and aforesaid) and against all claims, demands, proceeding, costs, charges and expenses, whatsoever in respect or in relation thereto.
- iv) TRANSIT INSURANCE
In respect of all items to be transported by the CONTRACTOR to the SITE of WORK, the cost of transit insurance should be borne by the CONTRACTOR and the quoted price shall be inclusive of this cost.
- v) COMPREHENSIVE AUTOMOBILE INSURANCE
This insurance shall be in such a form as to protect the Contractor against all claims for injuries, disability, disease and death to members of public including EMPLOYER's men and damage to the property of others arising from the use of motor vehicles during on or off the 'site' operations, irrespective of the Employer ship of such vehicles.



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vi) COMPREHENSIVE GENERAL LIABILITY INSURANCE

- a) This insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of member of public or damage to property of others due to any act or omission on the part of the Contractor, his agents, his employees, his representatives and Sub-Contractor's or from riots, strikes and civil commotion.
- b) Contractor shall take suitable Group Personal Accident Insurance Cover for taking care of injury, damage or any other risks in respect of his Engineers and other Supervisory staff who are not covered under Employees State Insurance Act.
- c) The policy shall cover third party liability. The third party (liability shall cover the loss/ disablement of human life (person not belonging to the Contractor) and also cover the risk of damage to others materials/ equipment/ properties during construction, erection and commissioning at site. The value of third party liability for compensation for loss of human life or partial/full disablement shall be of required statutory value but not less than Rs.2 lakhs per death, Rs.1.5 lakhs per full disablement and Rs.1 lakh per partial disablement and shall nevertheless cover such compensation as may be awarded by Court by Law in India and cover for damage to others equipment/ property as approved by the Purchaser. However, third party risk shall be maximum up to Rs.10(ten) lakhs to death.
- d) The Contractor shall also arrange suitable insurance to cover damage, loss, accidents, risks etc., in respect of all his plant, equipment and machinery, erection tools & tackles and all other temporary attachments brought by him at site to execute the work.
- e) The Contractor shall take out insurance policy in the joint name of EMPLOYER and Contractor from one or more nationalized insurance company from any branch office at Project site.
- f) Any such insurance requirements as are hereby established as the minimum policies and coverages which Contractor must secure and keep in force must be complied with, Contractor shall at all times be free to obtain additional or increased coverages at Contractor's sole expenses.

vii) ANY OTHER INSURANCE REQUIRED UNDER LAW OR REGULATIONS OR BY EMPLOYER:

CONTRACTOR shall also carry and maintain any and all other insurance(s) which he may be required under any law or regulation from time to time without any extra cost to EMPLOYER. He shall also carry and maintain any other insurance which may be required by the EMPLOYER.



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102 Damage to Property or to any Person or any Third Party

- 102.1 i) CONTRACTOR shall be responsible for making good to the satisfaction of the EMPLOYER any loss or any damage to structures and properties belonging to the EMPLOYER or being executed or procured or being procured by the EMPLOYER or of other agencies within in the premises of all the work of the EMPLOYER, if such loss or damage is due to fault and/or the negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representatives or SUB-CONTRACTOR.
- ii) The CONTRACTOR shall take sufficient care in moving his plants, equipment and materials from one place to another so that they do not cause any damage to any person or to the property of the EMPLOYER or any third party including overhead and underground cables and in the event of any damage resulting to the property of the EMPLOYER or of a third party during the movement of the aforesaid plant, equipment or materials the cost of such damages including eventual loss of production, operation or services in any plant or establishment as estimated by the EMPLOYER or ascertained or demanded by the third party shall be borne by the CONTRACTOR. Third party liability risk shall be Rupees One lakh for single accident and limited to Rupees Ten lakhs.
- iii) The CONTRACTOR shall indemnify and keep the EMPLOYER harmless of all claims for damages to property other than EMPLOYER's property arising under or by reason of this agreement, if such claims result from the fault and/or negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representative of SUB-CONTRACTOR.

SECTION-VIII LABOR LAWS

103 Labor laws:

- 103.1 i) No labor below the age of 18 (eighteen) years shall be employed on the WORK.
- ii) The CONTRACTOR shall not pay less than what is provided under law to laborers engaged by him on the WORK.
- iii) The CONTRACTOR shall at his expense comply with all labor laws and keep the EMPLOYER indemnified in respect thereof.
- iv) The CONTRACTOR shall pay equal wages for men and women in accordance with applicable labor laws.
- v) If the CONTRACTOR is covered under the Contract labor (Regulation and Abolition) Act, he shall obtain a license from licensing authority (i.e. office of the labor commissioner) by payment of necessary prescribed fee and the deposit, if any, before starting the WORK under the CONTRACT. Such fee/deposit shall be borne by the CONTRACTOR.



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- vi) The CONTRACTOR shall employ labor in sufficient numbers either directly or through SUB- CONTRACTOR's to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the CONTRACT and to the satisfaction of the ENGINEER-IN-CHARGE.
- vii) The CONTRACTOR shall furnish to the ENGINEER-INCHARGE the distribution returns of the number and description, by trades of the work people employed on the works. The CONTRACTOR shall also submit on the 4th and 19th of every month to the ENGINEER-IN-CHARGE a true statement showing in respect of the second half of the preceding month and the first half of the current month (1) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (2) the number of female workers who have been allowed Maternity Benefit as provided in the Maternity Benefit Act 1961 on Rules made there under and the amount paid to them.
- viii) The CONTRACTOR shall comply with the provisions of the payment of Wage Act 1936, Employee Provident Fund Act 1952, Minimum Wages Act 1948. Employers Liability Act 1938. Workmen's Compensation Act 1923, Industrial Disputes Act 1947, the Maternity Benefit Act 1961 and Contract Labor Regulation and Abolition Act 1970, Employment of Children Act 1938 or any modifications thereof or any other law relating thereto and rules made there under from time to time.
- ix) The ENGINEER-IN-CHARGE shall on a report having been made by an Inspecting Officer as defined in Contract Labor (Regulation and Abolition) Act 1970 have the power to deduct from the money due to the CONTRACTOR any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non- fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said regulations.
- x) The CONTRACTOR shall indemnify the EMPLOYER against any payments to be made under and for the observance of the provisions of the aforesaid Acts without prejudice to his right to obtain indemnity from his SUB- CONTRACTOR's. In the event of the CONTRACTOR committing a default or breach of any of the provisions of the aforesaid Acts as amended from time to time, of furnishing any information or submitting or filling and Form/ Register/ Slip under the provisions of these Acts which is materially incorrect then on the report of the inspecting Officers, the CONTRACTOR shall without prejudice to any other liability pay to the EMPLOYER a sum not exceeding Rs.50.00 as Liquidated Damages for every default, breach or furnishing, making, submitting, filling materially incorrect statement as may be fixed by the ENGINEER-IN- CHARGE and in the event of the CONTRACTOR's default continuing in this respect, the Liquidated Damages may be enhanced to Rs.50.00 per day for each day of default subject to a maximum of one percent of the estimated cost of the WORK put to tender. The ENGINEER-IN-CHARGE



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shall deduct such amount from bills or Contract Performance Security of the CONTRACTOR and credit the same to the Welfare Fund constitute under these acts. The decision of the ENGINEER-IN-CHARGE in this respect shall be final and binding.

104 Implementation of Apprentice Act, 1961:

104.1 The CONTRACTOR shall comply with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued there under from time to time. If he fails to do so, his failure will be a breach of the CONTRACT and the ENGINEER-IN-CHARGE may, at his discretion, cancel the CONTRACT. The CONTRACTOR shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions, of the Act.

105 Contractor to indemnify the employer:

105.1 i) The CONTRACTOR shall indemnify the EMPLOYER and every member, office and employee of the EMPLOYER, also the ENGINEER-IN-CHARGE and his staff against all actions, proceedings, claims, demands, costs and expenses whatsoever arising out of or in connection with the matters referred to in Clause 102.0 and elsewhere and all actions, proceedings, claims, demands, costs and expenses which may be made against the EMPLOYER for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of any demand or compensation payable by law in respect or in consequence of any accident or injury to any workmen or other person. In the employment of the CONTRACTOR or his SUB- CONTRACTOR the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensations and against all claims, damages, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

ii) PAYMENT OF CLAIMS AND DAMAGES:

Should the EMPLOYER have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the EMPLOYER shall be charged to and paid by the CONTRACTOR and the CONTRACTOR shall not be at liberty to dispute or question the right of the EMPLOYER to make such payments notwithstanding the same, may have been made without the consent or authority or in law or otherwise to the contrary.

iii) In every case in which by virtue of the provisions of Section 12, Sub-section (i) of workmen's compensation Act, 1923 or other applicable provision of Workmen Compensation Act or any other Act, the EMPLOYER is obliged to pay compensation to a workman employed by the CONTRACTOR in execution of the WORK, the EMPLOYER will recover from the CONTRACTOR the amount of the compensation so paid, and without prejudice to the rights of EMPLOYER under Section 12, Sub- section (2) of the said act, EMPLOYER shall be at liberty to recover such amount or any part thereof by deducting it



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from the Contract Performance Security or from any sum due to the CONTRACTOR whether under this CONTRACT or otherwise. The EMPLOYER shall not be bound to contest any claim made under Section 12, Sub-section (i) of the said act, except on the written request of the CONTRACTOR and upon his giving to the EMPLOYER full security for all costs for which the EMPLOYER might become liable in consequence of contesting such claim.

106 Health and sanitary arrangements for workers:

- 106.1 In respect of all labor directly or indirectly employed in the WORKS for the performance of the CONTRACTOR's part of this agreement, the CONTRACTOR shall comply with or cause to be complied with all the rules and regulations of the local sanitary and other authorities or as framed by the EMPLOYER from time to time for the protection of health and sanitary arrangements for all workers.
- 106.2 The CONTRACTOR shall provide in the labor colony all amenities such as electricity, water and other sanitary and health arrangements. The CONTRACTOR shall also provide necessary surface transportation to the place of work and back to the colony for their personnel accommodated in the labor colony.

SECTION-IX Applicable Laws and Settlement of Disputes

107 Arbitration:

- 107.1 Unless otherwise specified, the matters where decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/disputes which cannot be mutually resolved within a reasonable time, all disputes shall be referred to arbitration by Sole Arbitrator.

The Employer [Maharashtra Natural Gas Limited] shall suggest a panel of three independent and distinguished persons to the bidder/contractor/supplier/buyer (as the case may be) to select any one among them to act as the Sole Arbitrator.

In the event of failure of the other parties to select the Sole Arbitrator within 30 days from the receipt of the communication suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and the EMPLOYER (MNGL) shall have discretion to proceed with the appointment of the Sole Arbitrator. The decision of Employer on the appointment of the sole arbitrator shall be final and binding on the parties.

The award of sole arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the sole arbitrator, the cost of arbitration proceedings shall be shared equally by the parties. The Arbitration proceedings shall be in English language and venue shall be Pune (in Maharashtra, India).

Subject to the above, the provisions of (Indian) Arbitration & Conciliation ACT 1996 and the Rules framed there under shall be applicable. All matters relating to this contract are subject to the exclusive jurisdiction of the court situated at Pune.



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Bidders/suppliers/contractors may please note that the Arbitration & Conciliation Act 1996 was enacted by the Indian Parliament and is based on United Nations Commission on International Trade Law (UNCITRAL model law), which were prepared after extensive consultation with Arbitral Institutions and centers of International Commercial Arbitration. The United Nations General Assembly vide resolution 31/98 adopted the UNCITRAL Arbitration rules on 15 December 1976.

108 Jurisdiction:

The CONTRACT shall be governed by and constructed according to the laws in force in INDIA. The CONTRACTOR hereby submits to the jurisdiction of the Courts situated at **PUNE, MAHARASHTRA STATE, INDIA** for the purposes of disputes, actions and proceedings arising out of the CONTRACT, the courts at **PUNE, MAHARASHTRA STATE, INDIA** only will have the jurisdiction to hear and decide such disputed, actions and proceedings.

SECTION-X Safety Codes

109 General:

109.1 CONTRACTOR shall adhere to safe construction practice and guard against hazardous and unsafe working conditions and shall comply with EMPLOYER's safety rules as set forth herein. Prior to start of construction, CONTRACTOR will be furnished copies of EMPLOYER's "Safety Code" for information and guidance, if it has been prepared.

110 Safety regulations:

110.1 i) In respect of all labor, directly employed in the WORK for the performance of CONTRACTOR's part of this agreement, the CONTRACTOR shall at his own expense arrange for all the safety provisions as per safety codes of C.P.W.D., Indian Standards Institution. The Electricity Act, The Mines Act and such other acts as applicable.

ii) The CONTRACTOR shall observe and abide by all fire and safety regulations of the EMPLOYER. Before starting construction work CONTRACTOR shall consult with EMPLOYER's safety Engineers or ENGINEER- IN-CHARGE and must make good to the satisfaction of the EMPLOYER any loss or damage due to fire to any portion of the work done or to be done under this agreement or to any of the EMPLOYER's existing property.

111 First aid and industrial injuries:

111.0 i) CONTRACTOR shall maintain first aid facilities for its employees and those of its SUB-CONTRACTOR.

ii) CONTRACTOR shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Names of those providing these services shall be furnished to EMPLOYER prior to start of construction and their telephone numbers shall be prominently posted in CONTRACTOR's field office.



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- iii) All critical industrial injuries shall be reported promptly to EMPLOYER, and a copy of CONTRACTOR's report covering each personal injury requiring the attention of a physician shall be furnished to the EMPLOYER.

112 General rules:

- 112.1 Smoking within the premises of City Gas Station is strictly prohibited. Violators of the no smoking rules shall be discharged immediately.

113 Contractor's barricades:

- 113.0 i) CONTRACTOR shall erect and maintain barricades required in connection with his operation to guard or protect:
- a) Excavations
 - b) Hoisting Areas.
 - c) Areas adjudged hazardous by CONTRACTOR's or EMPLOYER's inspectors.
 - d) EMPLOYER's existing property subject to damage by CONTRACTOR's Operations.
 - e) Rail Road unloading spots.
- ii) CONTRACTOR's employees and those of his SUBCONTRACTOR's shall become acquainted with EMPLOYER's barricading practice and shall respect the provisions thereof.
- iii) Barricades and hazardous areas adjacent to, but not located in normal routes of travel shall be marked by red flasher lanterns at nights.

114 Scaffolding:

- 114.1 i) Suitable scaffolding should be provided for workmen for all works that cannot safely be done from the ground or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying material as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical).
- ii) Scaffolding or staging more than 4 meters above the ground or floor, swing suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise retarded at least one-meter-high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- iii) Working platform, gangway and stairway should be so constructed that they should not sag unduly or unequally and if the height of platform of the gangway or the stairway is more than 4 meters above the ground level or floor level, they



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should be closely boarded, should have adequate width and should be suitably fastened as in ii) above.

- iv) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing of railing whose minimum heights shall be 1 meter.
- v) Safe-means of access shall be provided to all working platforms and other working places, every ladder shall be securely fixed. No portable single ladder shall be over 9 meters in length while the width between side rails in rung ladder shall in no case be less than 30 cm for ladder up to and including 3 meters in length. For longer ladder this width should be increased 5mm for each additional foot of length. Uniform steps spacing shall not exceed 30cm. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed to cause danger or inconvenience to any person or public. The CONTRACTOR shall also provide all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to bear the expenses of defense of every suit, action or other proceeding of law that may be brought by any person for injury sustained owing to neglect of the above precautions and pay any damages and costs which may be awarded in any such suit or action or proceeding to any such person or which may with the consent of the CONTRACTOR be paid to compromise any claim by any such person.

115 Excavation and trenching:

- 115.1 All trenches 1.2 meters or more in depth shall at all times be supplied with at least one ladder for each 50m length or fraction thereof.

Ladder shall be extended from bottom of the trenches to at least 1 meter above the surface of the ground. The sides of the trenches which are 1.5M in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 1.5 meters of the edge of the trench or half of the trench width whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or under-cutting shall be done.

116 Demolition/general safety:

- 116.1 i) Before any demolition work is commenced and also during the progress of the demolition work:
- a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - b) No electric cable or apparatus which is liable to be a source of danger shall remain electrically charged.
 - c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.



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- ii) All necessary personal safety equipment as considered adequate by the ENGINEER-IN-CHARGE should be kept available for the use of the persons employed on the SITE and maintained in condition suitable for immediate use, and the CONTRACTOR shall take adequate steps to ensure proper use of equipment by those concerned.
 - a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.
 - b) Those engaged in white washing and mixing or stacking or cement bags or any material which are injurious to the eyes be provided with protective goggles.
 - c) Those engaged in welding and cutting works shall be provided with protective face & eye shield, hand gloves, etc.
 - d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - e) When workers are employed in sewers and manholes, which are in use, the CONTRACTOR shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or board to prevent accident to the public.
 - f) The CONTRACTOR shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.
 - 1) No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
 - 2) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - 3) Overalls shall be supplied by the CONTRACTOR to the workmen and adequate facilities shall be provided to enable the working painters to wash them during and on cessation of work.
- iii) When the work is done near any place where there is risk of drowning, all necessary safety equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- iv) Use of hoisting machines and tackles including their attachments, anchorage and supports shall conform to the following standards or conditions:
 - a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defect and shall be kept in good working order.



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- b) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.
- c) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding, winch or give signals to the operator.
- d) In case of every hoisting machine and of every chain ring hook, shackle, swivel, and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gears referred to above shall be plainly marked with the safe working load of the conditions under which it is applicable and the same shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.
- e) In case of departmental machine, the safe working load shall be notified by the ENGINEER- IN-CHARGE. As regards CONTRACTOR's machines, the CONTRACTOR shall notify the safe working load of the machine to the ENGINEER-IN-CHARGE whenever he brings any machinery to SITE of WORK and get it verified by the Engineer concerned.
- v) Motors, gears, transmission lines, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as to reduce to minimum the accidental descent of the load, adequate precautions should be taken to reduce the minimum risk of any part or parts of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves, and boots as may be necessary should be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- vi) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe conditions and no scaffolds, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- vii) These safety provisions should be brought to the notice of all concerned by displaying on a notice board at a prominent place at the work-spot. The person responsible for compliance of the safety code shall be named therein by the CONTRACTOR.
- viii) To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the CONTRACTOR shall be open to inspection by the Welfare Officer, ENGINEER-IN- CHARGE or safety Engineer of the Administration or their representatives.



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- ix) Notwithstanding the above clauses there is nothing in these to exempt the CONTRACTOR for the operations of any other Act or rules in force in the Republic of India. The work throughout including any temporary works shall be carried out in such a manner as not to interfere in any way whatsoever with the traffic on any roads or footpath at the site or in the vicinity thereto or any existing works whether the property of the Administration or of a third party.

In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. Safety code and Indian Standard Safety Code from time to time.

117 Care in handling inflammable gas:

- 117.1 The CONTRACTOR has to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinder/inflammable liquids/paints etc. as required under the law and/or as advised by the fire Authorities of the EMPLOYER

118 Temporary combustible structures:

- 118.1 Temporary combustible structures will not be built near or around work site.

119 Precautions against fire:

- 119.1 The CONTRACTOR will have to provide Fire Extinguishers, Fire Buckets and drums at worksite as recommended by ENGINEER-IN-CHARGE. They will have to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinders/ inflammable liquid/ paints etc. as advised by ENGINEER-IN-CHARGE. Temporary combustible structures will not be built near or around the work site.

120 Explosives:

- 120.1 Explosives shall not be stored or used on the WORK or on the SITE by the CONTRACTOR without the permission of the ENGINEER-IN-CHARGE in writing and then only in the manner and to the extent to which such permission is given. When explosives are required for the WORK they will be stored in a special magazine to be provided at the cost of the CONTRACTOR in accordance with the Explosives Rules. The CONTRACTOR shall obtain the necessary license for the storage and the use of explosives and all operations in which or for which explosives are employed shall be at sole risk and responsibility of the CONTRACTOR and the CONTRACTOR shall indemnify the EMPLOYER against any loss or damage resulting directly or indirectly there from.

121 Mines act:

- 121.1 SAFETY CODE: The CONTRACTOR shall at his own expense arrange for the safety provisions as required by the ENGINEER-IN-CHARGE in respect of all labor directly employed for performance of the WORKS and shall provide all facilities in connection therewith. In case the CONTRACTOR fails to make arrangements and provides necessary facilities as aforesaid, the ENGINEER-IN- CHARGE shall be entitled to do so and recover the costs thereof from the CONTRACTOR.
- 121.2 Failure to comply with Safety Code or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the CONTRACTOR liable to pay Company Liquidated Damages an amount not exceeding Rs.50/- for each



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default or materially incorrect statement. The decision of the ENGINEER-IN-CHARGE in such matters based on reports from the Inspecting Officer or from representatives of ENGINEER-IN-CHARGE shall be final and binding and deductions for recovery of such Liquidated Damages may be made from any amount payable to the CONTRACTOR from all the provisions of the Mines Act, 1952 or any statutory modifications or re-enactment thereof the time being in force and any Rules and Regulations made there under in respect of all the persons employed by him under this CONTRACT and shall indemnify the EMPLOYER from and against any claim under the Mines Act or the rules and regulations framed there under by or on behalf of any persons employed by him or otherwise.

122 Preservation of place:

122.1 The CONTRACTOR shall take requisite precautions and use his best endeavors to prevent any riotous or unlawful behavior by or amongst his worker and others employed or the works and for the preservation of peace and protection of the inhabitants and security of property in the neighborhood of the WORK. In the event of the EMPLOYER requiring the maintenance of a Special Police Force at or in the vicinity of the site during the tenure of works, the expenses thereof shall be borne by the CONTRACTOR and if paid by the EMPLOYER shall be recoverable from the CONTRACTOR.

123 Outbreak of infectious diseases:

123.1 The CONTRACTOR shall remove from his camp such labor and their facilities who refuse protective inoculation and vaccination when called upon to do so by the ENGINEER-IN-CHARGE's representative. Should Cholera, Plague or other infectious diseases break out the CONTRACTOR shall burn the huts, beddings, clothes and other belongings or used by the infected parties and promptly erect new huts on healthy sites as required by the ENGINEER-IN-CHARGE failing which within the time specified in the Engineer's requisition, the work may be done by the EMPLOYER and the cost thereof recovered from the CONTRACTOR.

124 Use of intoxicants:

124.1 The unauthorized sale of spirits or other intoxicants, beverages upon the work in any of the buildings, encampments or tenements owned, occupied by or within the control of the CONTRACTOR or any of his employee is forbidden and the CONTRACTOR shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.

In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. safety code and Indian Standard Code framed from time to time.



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Annexure-I to GCC

PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY EMPLOYER

(To be executed on non-judicial stamped paper of appropriate value)

WHEREAS MAHARASHTRA NATURAL GAS LIMITED (hereinafter referred to as MNGL) which expression shall unless repugnant to the context includes their legal representatives, successors and assigns having their registered office at Pune has entered into a CONTRACT with _____ (hereinafter referred to as the CONTRACTOR which expression shall unless repugnant to the context include their legal representatives, successors and assigns) for _____ on the terms and conditions as set out, inter-alia, in the CONTRACT No..... Dated..... and various documents forming part thereof hereinafter collectively referred to as the "CONTRACT" which expression shall include all amendments, modifications and/or variations thereto.

AND WHEREAS

- i) MNGL has agreed to supply to the CONTRACTOR, equipment, plants and materials (finished, semi-finished and raw) for the purpose of EXECUTION of the said CONTRACT by the CONTRACTOR (the equipment, plants and materials to be supplied by MNGL to the CONTRACTOR, hereinafter for the sake of brevity referred to as the "said materials") and pending execution by the CONTRACTOR of the CONTRACT incorporating the said materials, the said materials shall be under the custody and charge of the CONTRACTOR and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the CONTRACTOR.
- ii) As a pre-condition to the supply of the said materials by MNGL to the CONTRACTOR, MNGL has required the CONTRACTOR to furnish to MNGL an Indemnity Bond in the manner and upon terms and conditions hereinafter indicated.

NOW, THEREFORE, in consideration of the premises aforesaid the CONTRACTOR hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified MNGL from and against all loss, damage and destruction (inclusive but not limited to any or all loss or damage or destruction to or of the said materials or any item or part thereof by theft, pilferage, fire, flood, storm, tempest, lightning, explosion, storage, chemical or physical action or reaction, binding, warping, exposure, rusting, faulty workmanship, faulty fabrication, or faulty method or technique of fabrication, strike, riot, civil commotion, or other act or omission or commission whatsoever within or beyond the control of the CONTRACTOR, misuse and misappropriation (inclusive but not limited to the misuse or misappropriation by the CONTRACTOR and the Contractor's servants and/or agents) whatsoever to, or of in the said materials or any part of them thereof from the date that the same or relative part of item thereof was supplied to the CONTRACTOR up to and until the date of return to MNGL of the said materials or relative part of item thereof or completed fabricated works(s) incorporating the said material and undertake to pay to MNGL forthwith on demand in writing without protest or demur the value as specified by MNGL of the said material or item or part thereof, lost, damaged, destroyed, misused and/or misappropriated, as the case may be or, together with MNGL 'S costs and expenses (inclusive of but not limited to handling, transportation, cartage, insurance, freight, packing and inspection costs/or expenses



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up to) and aggregate limit of
Rs. _____ (Rupees _____).

AND THE CONTRACTOR hereby agrees with MNGL that:

- i) This Indemnity/Undertaking shall be a continuing Indemnity/ Undertaking and shall remain valid and irrevocable for all claims of MNGL arising hereunder up to and until the midnight of _____. However, if the CONTRACT for which this Indemnity/Undertaking is given is not completed by this date, the CONTRACTOR hereby agrees to extend the Indemnity/Undertaking till such time as is required to fulfill the CONTRACT.
- ii) This Indemnity/Undertaking shall not be determined by any change in constitution or upon insolvency of the CONTRACTOR but shall be in all respects and for all purposes be binding and operative until payment of all moneys payable to MNGL in terms of hereof.
- iii) The mere statement of allegation made by or on behalf of MNGL in any notice or demand or other writing addressed to the CONTRACTOR as to any of the said material or item or part thereof having been lost , damaged, destroyed, misused or misappropriated while in the custody of the CONTRACTOR and/or prior to completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials shall be conclusive of the factum of the said material or item or part thereof having been supplied to the CONTRACTOR and/or the loss, damage, destruction, misuse or misappropriation thereof, as the case may be, while in the custody of the CONTRACTOR and/or prior to the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials without necessity on the part of MNGL to produce any documentary proof or other evidence whatsoever in support of this.
- iv) The amount stated in any notice of demand addressed by MNGL to the CONTRACTOR as to the value of such said materials lost, damaged, destroyed, misused or misappropriated, inclusive relative to the costs and expenses incurred by MNGL in connection therewith shall be conclusive of the value of such said materials and the said cost and expenses as also of the amount liable to be paid to MNGL to produce any voucher, bill or other documentation or evidence whatsoever in support thereof and such amount shall be paid without any demur and on demand and no dispute shall be raised concerning the same.

The undersigned has full power to execute this Indemnity Bond on behalf of the CONTRACTOR.

(SIGNED BY COMPETENT AUTHORITY)

Place:

Dated:

Official seal of the CONTRACTOR



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Annexure-II to GCC

PROFORMA FOR CONTRACT AGREEMENT

SO. No. MNGL /

dated -----

Contract Agreement for the work of ----- of Maharashtra Natural Gas Limited made on ----- between (Name and Address)-----, hereinafter called the “CONTRACTOR” (which term shall unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the one part and MAHARASHTRA NATURAL GAS LIMITED hereinafter called the “EMPLOYER” (which term shall, unless excluded by or repugnant to the subject or context include its successors and assignees) of the other part.

WHEREAS

- A. The EMPLOYER being desirous of having provided and executed certain work mentioned, enumerated or referred to in the Tender Documents including Letter Inviting Tender, General Tender Notice, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Rates, Agreed Variations, other documents has called for Tender.
- B. The CONTRACTOR has inspected the SITE and surroundings of WORK specified in the Tender Documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface, strata, soil, sub-soil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labor and materials necessary for the execution of work, the means of access to SITE, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and thing referred to, or implied in the tender documents or having any connection therewith and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the execution and completion of the work to be carried out under the CONTRACT, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the WORK and which might have influenced him in making his tender.
- C. The Tender Documents including the Notice Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, General Obligations, SPECIFICATIONS, DRAWINGS, PLANS, Time Schedule for completion of Jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this CONTRACT though separately set out herein and are included in the expression “CONTRACT” wherever herein used.

AND WHEREAS



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAS of MNGL.

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The EMPLOYER accepted the Tender of the CONTRACTOR for the provision and the execution of the said WORK at the rates stated in the schedule of quantities of the work and finally approved by EMPLOYER (hereinafter called the "Schedule of Rates") upon the terms and subject to the conditions of CONTRACT.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED AND DECLARED AS FOLLOWS:

1. In consideration of the payment to be made to the CONTRACTOR for the WORK to be executed by him, the CONTRACTOR hereby covenants with EMPLOYER that the CONTRACTOR shall and will duly provide, execute and complete the said work and shall do and perform all other acts and things in the CONTRACT mentioned or described or which are to be implied there from or may be reasonably necessary for the completion of the said WORK and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned in the contract.
2. In consideration of the due provision execution and completion of the said WORK, EMPLOYER does hereby agree with the CONTRACTOR that the EMPLOYER will pay to the CONTRACTOR the respective amounts for the WORK actually done by him and approved by the EMPLOYER at the Schedule of Rates and such other sum payable to the CONTRACTOR under provision of CONTRACT, such payment to be made at such time in such manner as provided for in the CONTRACT.

A N D

3. In consideration of the due provision, execution and completion of the said WORK the CONTRACTOR does hereby agree to pay such sums as may be due to the EMPLOYER for the services rendered by the EMPLOYER to the CONTRACTOR, such as power supply, water supply and others as set for in the said CONTRACT and such other sums as may become payable to the EMPLOYER towards the controlled items of consumable materials or towards loss, damage to the EMPLOYER'S equipment, materials construction plant and machinery, such payments to be made at such time and in such manner as is provided in the CONTRACT.

It is specifically and distinctly understood and agreed between the EMPLOYER and the CONTRACTOR that the CONTRACTOR shall have no right, title or interest in the SITE made available by the EMPLOYER for execution of the works or in the building, structures or work executed on the said SITE by the CONTRACTOR or in the goods, articles, materials etc., brought on the said SITE (unless the same specifically belongs to the CONTRACTOR) and the CONTRACTOR shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the SITE or structures and the EMPLOYER shall have an absolute and unfettered right to take full possession of SITE and to remove the CONTRACTOR, their servants, agents and materials belonging to the CONTRACTOR and lying on the SITE.

The CONTRACTOR shall be allowed to enter upon the SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest



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in the SITE or the structures erected thereon, and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason.

The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE.

In Witness whereof the parties have executed these presents in the day and the year first above written.

Signed and delivered for and on
on behalf of EMPLOYER.

Signed and delivered for and
on behalf of the CONTRACTOR.

MAHARASHTRA NATURAL GAS LTD.

(NAME OF THE CONTRACTOR)

Date: _____

Date: _____

Place: _____

Place: _____

IN PRESENCE OF TWO WITNESSES

1. _____

1. _____

2. _____

2. _____



**MAHARASHTRA NATURAL
GAS LIMITED**

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SECTION III

5. FORMS AND FORMATS



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH
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of MNGL.**

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CONTENTS

SR. NO. DESCRIPTION

1) LIST OF FORMS

- i) F – 1 : Bidder's General Information
- ii) F – 2 : Bid Form
- iii) F – 3 : Bidders Financial Details
- iv) F – 4 : Proforma for Bank Guarantee for EMD / Bid Security
- v) F – 5 : Letter of Authority
- vi) F – 6 : No Deviation Confirmation
- vii) F – 7 : Certificate
- viii) F – 8 : Details of similar work done during past ten years
- ix) F – 9 : Check List for Agreed Terms and Conditions
- x) F – 10 : Proforma of Bank Guarantee for Contract Performance Security
- xi) F – 11 : Packing, Marking and Shipping Instructions

2) LIST OF FORMATS

- i) Tender Acceptance Letter
- ii) Undertaking for Land Border with India
- iii) Submission of Bid (Covering letter for Bid)
- iv) Declaration
- v) Details of Litigation
- vi) Supply records for meeting BEC
- vii) Bidder's Pre-Bid Queries
- viii) Commercial Questionnaire
- ix) Letter of Credit for Negative Working Capital
- x) Check List for Bidders



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
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Sheet 1 of 2

FORM F-1

BIDDER'S GENERAL INFORMATION

- 1.1 Firm Name : _____
- 1.2 Number of Years in Operation : _____
- 1.3 Registered Address : _____

- 1.4 Operation Address : _____
(if different from above) _____

- 1.5 Mobile Number : _____
- 1.6 Telephone Number : _____
(Country Code) (Area Code) (Telephone No.)
- 1.7 E-mail address : _____
- 1.8 Website address : _____
- 1.9 Telefax Number : _____
(Country Code) (Area Code) (Telephone No.)
- 1.10 Contact Person Details
- Name : _____
- Mobile No : _____
- Email ID : _____
- 1.11 ISO Certification, if any : _____
{If yes, please furnish details}
- 1.12 Whether Supplier / Manufacturer / Dealer / Trader / Service Provider: _____
- 1.13 Types of material / service provided _____



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Sheet 2 of 2

- 1.14 Bank's Name : _____
- 1.15 Bank's Branch : _____
- 1.16 Bank account Number : _____
- 1.17 Account type : _____
- 1.18 IFSC Code : _____
- 1.20 Type of Firm: Proprietary/
Partnership/ PVT/Public Ltd. : _____
- 1.21 If others, please specify : _____
- 1.22 Details of Directors/
Proprietors/ Partners : _____
- 1.23 PAN No : _____
- 1.24 EPF No : _____
- 1.25 MSME category, if applicable
- (i) Type of Enterprises : _____
(Micro / Small / Medium)
- (ii) MSME / NSIC Reg. No. : _____
- 1.26 GST Registration no. : _____
(If registered)
- 1.27 If GST unregistered (Reason): _____
(Turnover threshold / Providing exemption goods or services / Others, please specify)

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

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of MNGL.**

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FORM F-2

BID FORM

To
M/s Maharashtra Natural Gas Limited
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045

Dear Sir,

After examining/ reviewing the Bidding Documents for _____,
including technical specifications, drawings, General and Special Conditions of Contract and
schedule of rates etc. The receipt of which is hereby duly acknowledged, we, the undersigned,
pleased to offer to execute the whole of the Job of
_____ and in conformity with, the said Bid Document,
including Addenda Nos. (if any).

We confirm that this bid is valid for a period of four (4) months from the date of opening of
Techno-commercial Bid, and it shall remain binding upon us and may be accepted by any
time before the expiration of that period.

If our bid is accepted, we will provide the performance security equal to 10% (ten percent) of
the Annualized Contract Price / order value, for the due performance with in fifteen days of
such award.

Until a final Agreement is prepared and executed, the bid together with your written
acceptance thereof in your notification of award shall constitute a binding Agreement between
us.

We understand that Bid Document is not exhaustive, and any action and activity not
mentioned in Bid Documents but may be inferred to be included to meet the intend of the Bid
Documents shall be deemed to be mentioned in Bid Documents unless otherwise specifically
excluded and we confirm to perform for fulfillment of Agreement and completeness of the
Work in all respects within the time frame and agreed price.

We understand that you are not bound to accept the lowest priced or any bid that you may
receive.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.

Bid No.: MNGL/CP/2026-27/38

Sheet 1 of 2

FORM F-3

BIDDERS FINANCIAL DETAILS

Date: _____

Bidders Legal Name: _____

i. Annual Turnover data for the last 3 audited financial years.

Year	Currency	Amount	Exchange Rate (*)	Amount (INR) (*)
Year 1: 2024-25				
Year 2: 2023-24				
Year 3: 2022-23				

* Exchange Rate is applicable in case of currency is other than INR.

1. The information supplied should be the Annual Turnover of the Bidder.
2. A brief note should be appended describing thereby details of turnover along with audited balance sheet with profit & loss account statement for the last 3 years.

ii. Annual Net-worth data for the last 3 years

Year	Currency	Amount	Exchange Rate (*)	Amount (INR) (*)
Year 1: 2024-25				
Year 2: 2023-24				
Year 3: 2022-23				

* Exchange Rate is applicable in case of currency is other than INR.

1. Net Worth = Reserves + Capitals – Accumulated Loss

Bidder must submit CA Audited (with UDIN No) Financial Year wise Statements supporting above.



**MAHARASHTRA NATURAL
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Sheet 2 of 2

iii. Financial Data for last Audited Financial Year

Sr. No.	Description	Financial Year (2024-25)		
		Amount	Exchange Rate (*)	Amount (INR) (*)
1.	Current Assets			
2.	Current Liabilities			
3.	Working Capital (1-2)			
4.	Net Worth Owners' funds (Paid up share capital and Free Reserves & Surplus)			
5.	Profits before taxes			
6.	Return on Equity (5/4) x 100			

1. Attached are copies of the audited balance sheets, including all related notes, and income statement for the last Audited Financial year, as indicated above, complying with the following conditions.
2. All such documents reflect the financial situation of the bidder, and not sister or parent companies.
3. Historic financial statements must be audited by a certified accountant.
4. Historic financial statements must be complete, including all notes to the financial statements.
5. Historic financial statements must correspond to accounting periods already completed and audited (no statement for partial period shall be requested or accepted).

Bidder must submit CA Audited (with UDIN No) Financial Year wise Statements supporting above.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH
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FORM F-4

Sheet 1 of 2

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT/ BID SECURITY

(To be stamped in accordance with the Stamp Act)

Bank Guarantee No. Ref: Date

To
Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045

Dear Sir(s),

In accordance with Letter Inviting Tender under your reference No. _____
M/s _____ having their Registered/ Head Office at
_____ (hereinafter called the Tenderer) wish to participate in the said tender
for _____

As an irrevocable Bank Guarantee against Earnest Money for the amount of _____
is required to be submitted by the Tenderer as a condition precedent for participation in the
said tender which amount is liable to be forfeited on the happening of any contingencies
mentioned in the Tender Document.

We, the _____ Bank at _____
having our Head Office _____ (Local
Address) guarantee and undertake to pay immediately on demand without any recourse to the
tenderers by Maharashtra Natural Gas Limited the amount _____
without any reservation, protest, demur and recourse. Any such demand made by MNGL,
shall be conclusive and binding on us irrespective of any dispute or difference raised by the
Tenderer.

This guarantee shall be irrevocable and shall remain valid up to _____ [this date
should be 6 months after the date finally set out for closing of tender]. If any further extension
of this guarantee is required, the same shall be extended to such required period on receiving
instructions from M/s _____ whose behalf this guarantee is
issued.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this
_____ day of _____ 2023 at _____.

WITNESS:

(SIGNATURE)
(NAME)

(OFFICIAL ADDRESS)

(SIGNATURE)
(NAME)

Designation with Bank Stamp

Attorney as per

Power of Attorney No. _____

Date: _____



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GAS LIMITED**

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Bid No.: MNGL/CP/2026-27/38

Sheet 2 of 2

**INSTRUCTIONS FOR FURNISHING BID-GUARANTEE/
BANK GUARANTEE**

1. The Bank Guarantee by bidders will be given on non-judicial stamp paper as per stamp duty applicable. The non-judicial stamp paper should be in the name of the issuing bank. In case of foreign bank, the said banks guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper.
2. The expiry date as mentioned in bid document should be arrived at by adding 2 months to the date of expiry of the bid validity unless otherwise specified in the Bid Documents.
3. The bank guarantee by bidders will be given from bank as specified in ITB
4. A letter from the issuing bank of the requisite Bank Guarantee confirming that said bank guarantee/ all future communication relating to the Bank Guarantee shall be forwarded to the Employer at its address as mentioned at ITB.
5. Bidders must indicate the full postal address of the bank along with the bank's E-mail/ Fax. from where the earnest money bond has been issued.

NOTE: Bidder to Submit Bank Guarantee along with SWIFT statement and it is mandatory.



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of MNGL.**

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FORM F-5

**LETTER OF AUTHORITY
PROFORMA FOR LETTER OF AUTHORITY FOR ATTENDING AND SUBSEQUENT
NEGOTIATIONS/CONFERENCES**

Date:

To,
Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045

Dear Sir,

We _____ (Name of Bidder) hereby
authorize following representative(s) to attend un-priced bid opening and price bid opening
and for any other correspondence and communication against above Bidding Document:

1) Name & Designation _____ Signature _____

2) Name & Designation _____ Signature _____

We confirm that we shall be bound by all commitments made by aforementioned authorized
representatives.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:

Note: This letter of authority should be on the letterhead of the bidder and should be signed
by a person competent and having the power of attorney to bind the bidder.

Not more than two persons are permitted to attend techno-commercial un-priced and
price bid opening.



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FORM F-6

NO DEVIATION CONFIRMATION

EXCEPTION AND DEVIATION STATEMENT

Bidder may stipulate exceptions and deviations to Bid Document, if considered unavoidable as per the following format:

SR. NO.	CLAUSE NO.	PAGE NO. OF TENDER DOCUMENT	DEVIATION	REASONS FOR DEVIATION

Any exceptions / deviations brought out by us elsewhere in our Offer shall not be considered as valid and should be ignored by the Owner.

NOTE - In case of no exceptions / deviations, bidder needs to mention "No Deviations" in above table. Blank table with sign and stamp of the bidder to be presumed as "No Deviations" taken by the bidder.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

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FORM F-7

CERTIFICATE

To,
Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045

Dear Sir,

If, we become a successful bidder and pursuant to the provisions of the Bidding Documents and contract is awarded to us the following certificate shall be automatically enforceable:

‘We agree and acknowledge that the Employer is entering into the Agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to the Agreement and has no liabilities, obligations or rights there under. It is expressly understood and agreed that the Employer is authorized to enter into Agreement, solely on its own behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Employer is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Agreement. Accordingly, we hereby expressly waive, release and forego any and all actions or claims, including cross claims, VIP claims or counterclaims against the Government of India arising out of the Agreement and covenants not to sue to Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement.’

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

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FORM F-8

DETAILS OF SIMILAR WORK DONE DURING PAST TEN YEARS

Description of the work	Location of the work	Full Post Address and Phone nos. of Client & Name of Officer- in charge	Value of Contract	Date of Commencement of work	Scheduled Completion Time (Months)	Date of Actual Completion	Reasons for delay in project completion, if any

Note: Copies of letter of award and completion certificate for the above works to be enclosed.

The work completed earlier than three years need not be indicated here.

The list of work, not of similar nature need not be indicated here.

Failing to comply aforementioned instructions may lead to rejection of bid.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



**MAHARASHTRA NATURAL
GAS LIMITED**

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FORM F-9

CHECK LIST FOR AGREED TERMS AND CONDITIONS

Sr. No.	DESCRIPTION	BIDDER'S CONFIRMATION
1.	Price & Delivery Basis	FOT- MNGL Store basis at various Locations
2.	Firm & Fixed Prices (As per Tender document)	Accepted
3.	Supply as per scope defined in the Tender documents	Included
4.	All Taxes, duties, levies, etc. included in price	Included
5.	Packing & Forwarding is Included in unit price	Included
6.	Delivery period (As per Tender document)	Accepted
7.	Guarantee/ Warranty Clause	Accepted
8.	Price Reduction Schedule as per Tender document	Accepted
9.	Term of Payments (As per Tender document)	Accepted
10.	Contract-Cum-Equipment Performance Bank Guarantee to be submitted as per tender document	Accepted
11.	Firm Price - during the entire duration of contact (As per Tender document)	Accepted
12.	Validity of bid & bid security	Accepted
13.	Bid Security (EMD) & Details of EMD	Submitted
14.	Price Quoted as per SOR.	Yes
15.	Deviation / exception Form 5	Yes
16.	Defect Liability Period/ Warranty	Accepted
17.	Goods & Service Tax	Included
18.	General & Special Conditions of Contract & Technical terms and conditions of the Tender	Accepted

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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GAS LIMITED**

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Sheet 1 of 2

FORM F-10

**PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE SECURITY
(ON NON-JUDICIAL PAPER OF APPROPRIATE VALUE)**

TO:

M/s Maharashtra Natural Gas Limited
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045

Dear Sir,

M/s _____ have been awarded the work of
_____ for Maharashtra Natural Gas Limited, PUNE vide
SO No. _____ dated _____.

The Contracts conditions provide that the CONTRACTOR shall pay a sum of Rs. _____
(Rupees _____)
as full Contract Performance Guarantee in the form therein mentioned. The form of payment
of Contract Performance Guarantee includes guarantee executed by Nationalized Bank,
undertaking full responsibility to indemnify Maharashtra Natural Gas Limited, in case of
default.

The said _____ has approached us
and at their request and in consideration of the premises we _____ having our office
at _____ have agreed to give such guarantee as
hereinafter mentioned.

1. We _____ hereby undertake and agree
with you that if default shall be made by M/s _____
_____ in performing any of the terms and conditions of the tender or in
payment of any money payable to Maharashtra Natural Gas Limited we shall on
demand pay without any recourse to the contractor to you in such manner as you may
direct the said amount of Rupees _____ only or such
portion thereof not exceeding the said sum as you may from time to time require.
2. You will have the full liberty without reference to us and without affecting this
guarantee, postpone for any time or from time to time the exercise of any of the
powers and rights conferred on you under the contract with the said _____
_____ and to enforce or to forbear from endorsing any
powers or rights or by reason of time being given to the said
_____ which under law relating to the sureties would but for
provision have the effect of releasing us.



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Sheet 2 of 2

3. Your right to recover the said sum of Rs. _____
(Rupees _____) from us in manner aforesaid will
not be affected or suspended by reason of the fact that any dispute or disputes have
been raised by the said M/s _____ and/ or that any
dispute or disputes are pending before any officer, tribunal or court.
4. The guarantee herein contained shall not be determined or affected by the liquidation
or winding up dissolution or changes of constitution or insolvency of the said but shall
in all respects and for all purposes be binding and operative until payment of all money
due to you in respect of such liabilities is paid.
5. This guarantee shall be irrevocable and shall remain valid up to _____. If
any further extension of this guarantee is required, the same shall be extended to such
required period on receiving instruction from M/s _____
_____ on whose behalf this guarantee is issued.
6. The Bank Guarantee's payment of an amount is payable on demand and in any case
within 48 hours of the presentation of the letter of invocation of Bank Guarantee. Any
dispute arising out of or in relation to the said Bank Guarantee shall be subject to the
jurisdiction of Pune or High Court of Mumbai.
7. We have power to issue this guarantee in your favour under Memorandum and Articles
of Association and the undersigned has full power to do under the Power of Attorney
dated _____ granted to him by the Bank.

Yours faithfully,

_____ Bank

By its Constituted Attorney

Signature of a person duly
authorized to sign on behalf of the
Bank.

**NOTE: Bidder to Submit Bank Guarantee along
with SWIFT statement and it is mandatory.**



**MAHARASHTRA NATURAL
GAS LIMITED**

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of MNGL.**

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PACKING, MARKING AND SHIPPING INSTRUCTIONS

The Packing, Marking, Shipping and Documentation for Goods shall be as follows:

- a) The SUPPLIER shall provide such Packing of GOODS as is required to prevent their damage or deterioration during transit to their final destination as indicated in the CONTRACT. The Packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the GOODS final destination and the absence of heavy handling facilities at all points in transit.
- b) The packing, markings and documentation within and outside the packages, shall comply strictly with such special requirements as shall be expressly provided for in the documents.
- c) SUPPLIER shall comply with all applicable prescriptions in the specifications. Lack of relevant information and/or documents shall not absolve the SUPPLIER of his responsibilities.
- d) Supplier shall ensure that consignments destined for different project sites as detailed in Purchase Order are packed separately and marked clearly.

1.0 SPECIFICATIONS FOR GOODS BEING PROCURED INDIGENOUSLY

1.1 Packing

- 1.1.1 The packing specifications incorporated herein are supplementary to the internal and external packing methods and standards as per current general rules of IRCA Goods Tariff Part I. All packaging shall be done in such a manner as to reduce volume as much as possible. Fragile articles should be packed with special packing materials depending on the type of materials.
- 1.1.2 Items shipped in bundles must be securely tied with steel wire or strapping. Steel reinforcing rods, bars, pipes, structural members etc. shall be bundled in uniform lengths and the weight shall be within the breaking strength of the securing wire or strapping.
- 1.1.3 All delicate surface on equipment's/materials should be carefully protected and painted with protective paint/compound and wrapped to prevent rusting and damage.
- 1.1.4 All mechanical and electrical equipment and other heavy articles shall be securely fastened to the case bottom and shall be blocked and braced to avoid any displacement/shifting during transit.
- 1.1.5 Attachments and spare parts of equipment and all small pieces shall be packed separately in wooden cases with adequate protection inside the case and wherever possible should be sent along with the main equipment. Each item shall be suitably



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tagged with identification of main equipment, item denomination and reference number of respective assembly drawing. Each item of steel structure and furnaces shall be identified with two erection markings with minimum lettering height of 15 mm. Such markings will be followed by the connection number in indelible ink/ paint. A copy of the packing list shall accompany the material in each package.

- 1.1.6 All protrusions shall be suitably protected by providing a cover comprising of a tightly bolted wooden disc on the flanges.
- 1.1.7 Wherever required, equipment/materials/instruments shall be enveloped in polythene bags containing silica gel or similar dehydrating compound.
- 1.1.8 All pipes and tubes of stainless steel, copper, etc., shall be packed in wooden case or crates irrespective of their size.
- 1.1.9 Pipes with threaded or flanged ends shall be protected with suitable caps/covers, before packing.
- 1.1.10 Detailed packing list in waterproof envelope shall be inserted in the package together with equipment/material. One copy of the detailed packing list, shall be fastened outside of the package in waterproof envelope and covered by metal cover.
- 1.1.11 The supplier shall be held liable for all damages or breakages to the goods due to the defective or insufficient packing as well as for corrosion due to insufficient protection.
- 1.1.12 Packaged equipment or material showing damage, defects or shortages resulting from improper packaging material or packing procedures or having concealed damage or shortages, at the time of unpacking, shall be to the supplier's account.

1.2 Marking

- 1.2.1 Each package shall be marked on three sides with proper paints/indelible waterproof ink as follows:

**(OWNER)
PROJECT
(DESTINATION)**

Purchase order No. _____
Net Wt. _____ Kgs.
Gross Wt. _____ Kgs.
Dimensions _____ X _____ X _____ CMS.
Package No. (S. No. of total Packages) _____
Supplier's name _____

- 1.2.2 Additional marking such as 'HANDLE WITH CARE' 'THIS SIDE UP' 'FRAGILE' or any other additional indications for protection and safe handling shall be added depending on the type of material.



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1.2.3 Specific marking with white paint for 'SLINGING' and 'CENTRE OF GRAVITY' should be provided for all heavy lifts weighing 5 Tones and above.

1.2.4 In case of bundles/bags or other packages, wherever marking cannot be stenciled, the same shall be embossed on metal or similar tag and wired securely at two convenient points.

1.3 Dispatch

(a) Dispatch of materials shall be made in accordance with the relevant terms of the CONTRACT FORM. Any change in mode of transport shall be resorted to only after prior approval in writing. SUPPLIER shall ensure dispatch of GOODS immediately after they are inspected and released and shall intimate status of dispatch by fax to

- General Manager (C&P), MNGL, Pune
- Respective consignee fax nos. at site (to be indicated in Purchase Order).

(b) Dispatch by Road

- (i) The SUPPLIER shall be responsible for dispatch of materials through a reliable Bank approved transport company unless, the Transport Company is named by PURCHASER.
- (ii) The SUPPLIER shall ensure with Transport Company the delivery of materials within a reasonable transit period. SUPPLIER shall also obtain from transporter particulars of Lorry Number, transporter's Challan Number, destination of Lorry (if transshipment is involved), Transporter's Agent at destination, if any, etc. and intimate same following: -
- General Manager (C&P), MNGL, Pune
 - Respective consignee fax nos. at site (to be indicated in Purchase Order).

(c) Shipment by Air

Whenever SUPPLIER is instructed by the PURCHASER or its representative to airfreight any material, the SUPPLIER shall take prompt action for the same. Immediately after air shipment is effected, the SUPPLIER shall intimate by Fax the details of Airway Bill number and date, Flight number, number of packages etc. to the OWNER'S and PURCHASER'S authorities at destination Airport City. Details of MNGL's agents shall be intimated later.

(d) Advance Information

Immediately after a shipment is made SUPPLIER shall send advance information such as the particulars of materials, value, Purchase Order Number, date of dispatch, Railway receipt Wagon Number/ GOODS Consignment note number, Truck number, name of transport company and their destination Office/ Associate's address etc., by way of Fax to following:

- General Manager (C&P), MNGL, Pune
- Respective consignee fax nos. at site (to be indicated in Purchase Order).



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- (e) Transmission of Dispatch Documents
SUPPLIER shall, within 48 hours of the dispatch of the GOODS depending upon the payment terms of the CONTRACT FORM either negotiate through PURCHASER'S Bankers or forward direct to PURCHASER at respective consignee address by Registered Post the following Documents in Original.
- (i) Two copies of the SUPPLIER invoice showing descriptions of the GOODS, Quantity, unit price and total amount.
 - (ii) Delivery Note/Railway Receipt/Truck Receipt.
 - (iii) Manufacturer's/Supplier's Guarantee Certificate
 - (iv) Inspection Certificate issued by the PURCHASER/CONSULTANT and/or its representative and the SUPPLIER'S factory inspection report. Copies of the above documents shall be sent to the following addresses:
- A Maharashtra Natural Gas Ltd.,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune – 411045
Ph. No. – 020 25611000
Email – gasaid@mngl.in
- B Office In-charge
Maharashtra Natural Gas Limited,
Respective MNGL Site(s) address. (The Bidder shall request for add. 15 days in advance before dispatch)
- (f) The SUPPLIER shall be responsible for any delay in clearance of the Consignment at destination and consequent wharfage/demurrage, if any, due to delay in transmittal of the Lorry/Railway receipt Consignment Note, etc.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:

*To be stamped and signed on each page



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FORMAT TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date: _____

To,
M/s Maharashtra Natural Gas Limited
Pride Purple Coronet, 2nd Floor,
Baner Raod, Baner,
Pune – 411045

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Tender Title: _____

Dear Sir / Madam,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department / organization too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any MNGL/MoP&NG/Oil Public Sector Enterprise(s) undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason thereof summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR UNDERTAKING FOR LAND BORDER WITH INDIA

(To be given on Company Letter Head)

Date: _____

To,
M/s Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune – 411045

Sub: Provisions for Procurement from a Bidder which shares a land border with India

Tender No:

Tender Title:

Dear Sir,

We have read the clause regarding Provisions for Procurement from a Bidder which shares a land border with India, we certify that, bidder M/s _____
(Name of Bidder) is:

Bidder to tick (✓) or (x), the appropriate option below :

(i) Not from such a country []

(ii) If from such a country, has been registered []
with the Competent Authority.
(Evidence of valid registration by the
Competent Authority shall be attached)

We hereby certify that, we fulfil all requirements in this regard and is eligible to be considered against the subject tender.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR SUBMISSION OF BID (COVERING LETTER FOR BID)

(To be given on Company Letter Head)

Date: _____

To:

M/s Maharashtra Natural Gas Limited

Pride Purple Coronet, 2nd Floor,

Baner Road, Baner,

Pune – 411045

Sub: Submission of Bid

Tender No: _____

Tender Title: _____

1. I/We hereby tender for execution of the SUPPLY / SERVICES / WORKS as per TENDER DOCUMENT within the Time Schedule of completion of work for jobs, as separately signed and accepted by me/us, at the Schedule of Rates quoted by me/us for the whole work in accordance with Notice / Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates of Completion of Job, and other documents and papers, all as detailed in the Tender documents.
2. It has been explained to me/us that the time stipulated for jobs and completion of SUPPLY / SERVICES / WORKS in all respects and in different stages mentioned in the "Time Schedule" of completion of jobs and signed and accepted by me/us in the essence of the CONTRACT. I/We agree that in the case of failure on my/our part to strictly observe the Time of Completion mentioned for jobs or any of them and to the Final Completion in all respects according to the schedule set out in the said "Time Schedule" of completion of jobs. I/We shall pay compensation to the OWNER as per provisions and stipulations contained in General Conditions of Contract and I/We agree to recovery being made as specified therein. In exceptional circumstances, extension of time which shall always be in writing may, however, be granted by the Engineer-in-Charge at his entire discretion for some items of work, and I/We agree that such extension of time will not be counted for the extension of completion dates stipulated for job and for the Final Completion as stipulated in the said "Time Schedule" of completion of jobs.
3. I/We agree to pay the Earnest Money and Contract Performance Bank Guarantee (CPBG) and accept the terms and conditions laid down in the memorandum below in this respect.

MEMORANDUM

- (a) General Description of Work _____



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(b) Earnest Money Rs _____
(Rupees) _____

The Earnest Money is payable in the manner set out in para 5 below.

The Earnest Money, if the tender is accepted, will be adjusted against the Contract Performance Bank Guarantee (CPBG), when Earnest Money is paid by demand draft only.

(c) Contract Performance Bank Amount as specified in tender document which will be
Guarantee (CPBG) paid in the manner set out in the General Conditions of
Contract.

4. Should this tender be accepted, I/We hereby agree to abide by and fulfill all terms and conditions referred to above and in default thereof, to forfeit and pay to the OWNER or its successors or its authorized nominees such sums of money as are stipulated in conditions contained in General Tender Notice and other Tender Documents.

5. I/We hereby pay the Earnest Money of Rs _____
(Rupees _____)
in Bank Demand Draft/Bank Guarantee No. _____ issued
by _____ (name and office of the State Bank of India or
any Nationalized Bank) in favour of Maharashtra Natural Gas Limited, Pune.

6. If I/We fail to commence the work specified in the Memorandum in Para (3) above, or I/We to deposit the amount of Contract Performance Bank Guarantee (CPBG) specified in the Memorandum in (3) above, I/We agree that the said OWNER or its successors without prejudice to any other right or remedy be at liberty to forfeit the said Earnest Money in full, otherwise the said Earnest Money shall be retained by OWNER towards the Contract Performance Bank Guarantee (CPBG) specified in (3) above. The said OWNER shall also be at liberty to cancel the Notice of Acceptance of Tender if I/We fail to deposit the Contract Performance Bank Guarantee (CPBG) as aforesaid or to execute an Agreement or to start WORK as stipulated in the Tender Documents.

I/We enclose herewith evidence of my/our experiment of execution of works of similar nature and magnitude carried out by me/us in the prescribed proforma and also the Income- Tax Clearance Certificates.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR DECLARATION

(To be given on Company Letter Head)

To,
M/s. Maharashtra Natural Gas Ltd.,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner, Pune – 411045

Subject:

We confirm that we are not under any liquidation, court receivership or similar proceedings.

I / We do hereby confirm that our Firm has not been put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR DETAILS OF LITIGATION

(To be given on Company Letter Head)

Bidder shall furnish details of litigation cases of the bidder during the last 5 years if any, in this Form.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR SUPPLY RECORDS FOR MEETING BEC

(To be given on Company Letter Head)

Sr. no.	Purchase no.	Order	Purchaser Name	Ordered Quantity	Supplied Quantity	IRN no./ DCN/ Taxable Invoice no.	Sr. No. of pages
(1)	(2)		(3)	(4)	(5)	(6)	(7)

Bidder shall submit this form along with relevant document with proper numbering.

For tenders having various items/ parts, bidder to submit separate format for each item/ part quoted.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR BIDDER'S PRE-BID QUERIES

(To be given on Company Letter Head)

To,
M/s. Maharashtra Natural Gas Ltd.,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner, Pune – 411045

Subject:

Sr. no.	Section / Tender page no.	Clause no.	Subject	Bidder's Query

NOTE: The Pre-Bid Queries may be sent by e-mail, before the pre-bid meeting due date, to MNGL. An editable copy of queries may be enclosed while sending signed pre-bid queries.

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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FORMAT FOR COMMERCIAL QUESTIONNAIRE

(To be given on Company Letter Head)

Date: _____

Sub: Bidders confirmation to Commercial Questionnaire

Tender No:

Tender Title:

Note:

- 1) The Bidder shall submit reply to each query.
- 2) The bidder's reply/ confirmation as furnished in the Commercial Questionnaire (CQ) shall supercede the stipulation mentioned elsewhere in the Bid.

Sr. No.	MNGL's Query	Bidder's Reply/ Confirmation
1.	Confirm that your Bid is valid for 4(four) months from the last date of submission of Bid.	
2.	Confirm that the following documents are submitted:	
i)	All documents in relevant sections as per CHECK LIST	
ii)	Schedule of Rates/ Prices without specifying the rates/ prices are submitted in unpriced part, exactly as per the priced portion submitted in Part-II. In case some of items have not been quoted, such items should be identified in blank price format.	
iii)	Addendum duly signed and stamped on each page as a token of acceptance (applicable if issued).	
3.	Rates/ amount must be filled in format for 'Schedule of Rates' enclosed as part of Bidding Document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed, the bid is liable to be rejected. In any case, Bidder shall be presumed to have quoted against the tendered description of work and the same shall be binding on the Bidder. Please confirm.	
4.	Confirm that deviation/ terms & conditions are not mentioned in the price part. In case any terms and condition is mentioned in the price part, the same shall be treated as null and void.	
5.	Confirm that you have studied complete Bidding Document including Technical and commercial part and your Bid is in accordance with the requirements of the Bidding Document.	
6.	Confirm your compliance to total Scope of Work mentioned in the Bidding Document.	
7.	Confirm your acceptance for 'Scope of Supply or Scope of Work' as mentioned in Bidding Document.	



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Sr. No.	MNGL's Query	Bidder's Reply/ Confirmation
8.	Confirm your compliance to critical stipulations of tender document as mentioned below	
i)	Contract Performance Security	
ii)	Arbitration	
iii)	Termination	
iv)	Terms of Payment – as per tender document	
v)	Price Reduction Schedule – As per SCC & GCC	
9.	Confirm your acceptance for 'Time Schedule' as mentioned in Bidding Document.	
10.	Confirm that your quoted price includes following taxes/ duties, insurance etc.	
i)	All taxes, charges and duties assessed or levied in respect of profits earned or income receivable by the Contractor by reason of this Contract.	
ii)	All taxes, duties as per applicable for this WORK in accordance with the provision of General Conditions of Contract and Special Conditions of Contract.	
iii)	All types of insurance as per the provisions of General Conditions of Contract and Special Conditions of Contract.	
11.	Confirm that you have proposed adequate project/ site organization with qualified supervisory personnel having requisite experience including personnel responsible for safety, planning stores, QA/ QC etc.	
12.	Confirm that all costs resulting from safe execution of WORK, such as safety induction, use of protective clothing, safety glasses and helmet, safety precaution taken during monsoon, or any other safety measures to be undertaken by the Contractor for execution of work are included in the quoted rates.	

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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**FORMAT FOR CERTIFICATE FROM BANK IF BIDDER'S WORKING CAPITAL IS
INADEQUATE/NEGATIVE**

(To be provided on Bank's letterhead)

Date:

To,
M/s. Maharashtra Natural Gas Ltd.,
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner, Pune – 411045

Dear Sir,

This is to certify that M/s (Name of the bidder with address)
(Hereinafter referred to as Customer) is an existing customer of our Bank.

The Customer has informed that they wish to bid for MNGL's Tender no.
..... Dated for (Name
of the supply/work/services/consultancy) and as per the terms of the said Tender they must
furnish a certificate from their Bank confirming the availability of line of credit.

Accordingly, M/s (Name of the Bank with address) confirms availability
of line of credit to M/s (Name of the bidder) for at least an amount of Rs.

It is also confirmed that the net worth of the Bank is more than Rs. 100 Crores (or Equivalent
USD) and the undersigned is authorized to issue this certificate.

Yours truly.

For (Name & address of Bank)

(Authorized signatory)

Name of the signatory:

Designation:

Stamp



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CHECK LIST FOR BIDDERS

Bidder is requested to fill this check list and ensure that all details/ documents have been furnished as called for in the Bidding Documents.

Sr. No.	Description	Submitted	Not Submitted
1)	EMD/Bid Security payment details	<input type="checkbox"/>	<input type="checkbox"/>
2)	Duly Signed and Stamped Annexure-I to IFB	<input type="checkbox"/>	<input type="checkbox"/>
3)	Submission of Bid	<input type="checkbox"/>	<input type="checkbox"/>
4)	Documents for qualification of BEC - Technical.	<input type="checkbox"/>	<input type="checkbox"/>
5)	Documents for qualification of BEC - Financial.	<input type="checkbox"/>	<input type="checkbox"/>
6)	Line of credit for Negative Working Capital.	<input type="checkbox"/>	<input type="checkbox"/>
7)	Duly filled, signed and stamped Forms and Formats.	<input type="checkbox"/>	<input type="checkbox"/>
8)	Power of Attorney in favour of the person who has signed the bid on stamp paper of appropriate value.	<input type="checkbox"/>	<input type="checkbox"/>
9)	Addendum, Corrigendum and Other Documents if any.	<input type="checkbox"/>	<input type="checkbox"/>
10)	Copy of GST Certificate and PAN Card.	<input type="checkbox"/>	<input type="checkbox"/>
11)	Copy of PF and ESIC Registration Certificates	<input type="checkbox"/>	<input type="checkbox"/>
12)	Cancelled Cheque / Bank Mandate.	<input type="checkbox"/>	<input type="checkbox"/>
13)	Partnership Deed in case of partnership firm and Article of Association in case of limited company.	<input type="checkbox"/>	<input type="checkbox"/>
14)	Duly signed and stamped copy of Unpriced Schedule of Rates (Unpriced SOR).	<input type="checkbox"/>	<input type="checkbox"/>

(Stamp & Signature of Bidder)

Name:

Designation:

Date:



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SECTION IV

6. SPECIAL CONDITIONS OF CONTRACT (SCC)



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH
Gas Engine Driven (GED) and Electric Motor Driven (EMD)
Compressor Packages for CNG and CGD Network of all GAs
of MNGL.**

Bid No.: MNGL/CP/2026-27/38

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SPECIAL CONDITIONS OF THE CONTRACT (SCC)

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is an ambiguity, conflict and contradiction between SCC and GCC, the provisions herein shall prevail over those in the General Conditions of the Contract. The corresponding clause number of the GCC is indicated in parentheses.

1.0 DEFINITIONS

As specified in GCC.

2.0 INSPECTIONS AND TESTS

Inspection and tests prior to shipment of Goods and at final acceptance shall be as specified in Technical Specifications. However, without prejudice to the provisions of technical specifications following shall hold good:

- 2.1 The Purchaser or its representative shall have the right to inspect and/ or to test the material to confirm their conformity to the specifications.
- 2.2 The inspections and tests may be conducted on the premises of the Seller or his subcontractor (s) at point of Delivery and/or at the final destination. When conducted on the premises of the Seller or his subcontractor(s), all reasonable facilities and assistance including access to the production data shall be furnished to the Purchaser's representatives at no charge to the Purchaser.
- 2.3 The Purchaser's right to inspect, test and wherever necessary reject the material after the material's arrival in the Purchaser's place shall in no way be limited to or waived by reason of the material having previously been inspected, tested and passed by the Purchaser or their representative prior to the material shipment from the country of origin.
- 2.4 The Purchaser or appointed Third Party Inspection Agency (TPIA) shall carry out the final inspection at supplier's works as per approved ITP. TPIA charges shall be borne by Purchaser. However, successful bidders shall make necessary arrangement for inspection at their own cost.

3.0 REGISTRATION OF THE CONTRACT WITH STATUTORY AUTHORITIES

Not Applicable

4.0 PROJECT SCHEDULING AND MONITORING SYSTEM

4.1 General

The Contractor shall attend Management Level Review Meeting once in a month or as and when required with agenda of progress achieved and major hold-ups at Owner's office. Monthly Review Meeting will be held at OWNER'S OR CONTRACTOR'S office



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with agenda of progress and holds in engineering, procurement and construction programme for next month.

4.2 Expediting, Inspection and Testing

Contractor shall be responsible for all expediting and inspection. Copies of Contractor's expediting and inspection reports shall be forwarded periodically to Owner for information. Contractor shall ensure the Owner's right of inspection in contractor's shop during the manufacturing or fabrication of equipment and other components. Contractor shall inform Owner promptly of any problems encountered in regard to quality or delivery and of steps taken by the Contractor to overcome such problems. Contractor shall furnish schedule of dates for factory tests of all supply items enabling Owner or its authorised representative to witness the tests.

Immediately after award of work, Contractor shall submit the QAP, Inspection and Test plan, in line with contract requirement, for approval. Owner will bear expenses of their representative for visiting any inspection and expediting.

4.3 In no eventuality, any deviation from the above specified mode of inspection will be acceptable and the equipment(s) shall be tested as a package for their faithful performance at the shop floor as per the ordered parameter and in no circumstances shall be allowed to be tested in pieces or stages or at places during the factory inspection by third party Inspection Agency/the Owner/Consultant.

4.4 Dispatch of Supply: In no case, the material shall be dispatched from the supplier's premises unless the inspection done by the third party / consultant on behalf of the owner is duly accepted and acknowledged by the Owner and due "despatch clearance" is issued by the Owner. Owner reserves the right to reject the material if it is not found to be complying to Guaranteed parameters and other technical specifications of the contract.

For obtaining despatch clearance, bidder shall send all documents including IRN to Engineer-in-charge and C&P, MNGL.

5.0 RECORDS OF CONTRACT DOCUMENTS

5.1 The Contractor shall keep on each site at least three copies of each and every drawing, specifications and Contract Document in excess of his own requirement and those copies shall be available at all times for use by the Owner's Representative and by any other person authorised by the Owner's representative.

6.0 INTELLECTUAL PROPERTY – SECRECY

6.1 Neither the Owner nor the Contractor nor their personnel, agents nor any sub-contractor shall divulge to any one (other than persons designated by the party disclosing the information) any information designated in writing as confidential and obtained from the disclosing party during the course of execution of the works so long as and to the extent that the information has not become part of the public domain. This obligation does not apply to information furnished or made known to the recipient



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of the information without restriction as to its use by third parties or which was in recipient's possession at the time of disclosure by the disclosing party. Upon completion of the works or in the event of termination pursuant to the provisions of the Contract, Contractor shall immediately return to the Owner all drawings, plans, specifications and other documents supplied to the contractor by or on behalf of the Owner or prepared by the Contractor solely for the purpose of the performance of the works, including all copies made thereof by the Contractor.

7.0 STATUTORY APPROVALS

- 7.1 The approval from any authority required as per statutory rules and regulations of Central/State Government shall be the Contractor's responsibility unless otherwise specified in the bid document. The application on behalf of the Owner for submission to relevant authorities along with copies of required certificates complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction/commissioning of the work is not delayed for want of the approval/inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the Contractor and necessary co-ordination and liaison work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Owner to the Contractors on production of documentary evidence.
- 7.2 Any change/addition required to be made to meet the requirements of the statutory authorities shall be carried out by the Contractor free of charge. The inspection and acceptance of the work by statutory authorities shall however, not absolve the Contractor from any of his responsibilities under this Contract.

8.0 WATER AND POWER SUPPLY

- 8.1 Water and Power supply may be provided during testing & commissioning of compressor by the Owner at Owner's premises, based on the availability of the water and power supply. However, if water and power supply is not available at site, same shall be made available by the vendor at its own cost for commissioning and testing of the package.

9.0 LABOUR LICENCE

- 9.1 Before starting of work, Contractor shall obtain a license from concerned authorities under the Contract Labour (Abolition and Regulation) Act 1970 and amendment thereof, if any, and furnish copy of the same to Owner. Licence shall be valid till the validity of contract.

10.0 PROVIDENT FUND

- 10.1 The Contractor shall strictly comply with the provisions of Employees Provident Fund Act and register themselves with RPFC before commencing work. The Contractor shall deposit Employees and Employers contributions to the RPFC every month. The



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contractor shall furnish along with each running bill, the challan/receipt for the payment made to the RPFC for the preceding months.

- 10.2 In case the RPFC's challan/ receipt, as above, is not furnished, Owner shall deduct 16 (Sixteen) % of the payable amount from Contractor's running bill and retain the same as a deposit. Such retained amounts shall be refunded to contractor on production of RPFC challan/receipt for the period covered by the related running bill.

11.0 CO-ORDINATION WITH OTHER AGENCIES

- 11.1 The Contractor's responsibility covers the co-ordination of all the works involved and the expenses of site mobilization and demobilization including clearing activities. The quoted rates for various items are deemed to have appropriately catered for these and no separate claim whatsoever is admissible.
- 11.2 Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action/inaction of the contractor. Proper co-ordination with other agencies shall be Contractor's responsibility.

12.0 INCOME TAX

- 12.1 Income Tax along with surcharge of Income Tax as applicable at the prevailing rate on the gross amount billed shall be deducted from the Contractor's bills as per applicable laws in India and Tax Deduction at Source (TDS) certificate shall be issued.
- 12.2 Any reduction in Taxes and duties at the time of supply shall be passed on to Owner. However, any increase in rate of taxes and duties and imposition of any new levy/ tax at the time of supply after contractual completion period shall be borne by Contractor.

13.0 ADVANCE

- 13.1 No advance shall be paid under the contract.

14.0 TERMS OF PAYMENTS

- 14.1 Payment towards Supply (Compressor Package)

Through direct payment within 45 days from date of receipt of invoice.

- i) **90% (Ninety Percent) Payment** shall be released against receipt of materials at site on submission of dispatch documents, manufacturer's certificates, invoice, packing list, insurance policy, guarantee/warranty certificate, inspection release note, Goods Receipt Voucher (GRV) & dispatch clearance issued by the Owner.
- ii) **10% (Ten Percent) Payment** shall be released after successful completion of installation, Testing and Commissioning of each Hydraulic Booster Compressor package at the site and Acceptance thereof by the OWNER and after



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successful Performance Acceptance Test at site and acceptance by owner for each compressor.

In case Installation, Testing & Commissioning and Performance Acceptance Test could not be executed within 120 days from the date of receipt of compressors at site/ store due to reasons attributable to Purchaser, the 10% payment shall be released after any deduction against PRS clause and on submission of undertaking from the bidder that bidder will do erection, testing and commissioning of compressors as and when client intimates.

- 14.2 Payment towards Transportation charges.
100% payment towards Transportation shall be payable after receipt of material at MNGL site / store.
- 14.3 Payment against Installation, Testing & Commissioning:
100% payment towards Testing & Commissioning shall be payable within 45 working days (Forty-Five working days) after submission of invoice duly certified by the Engineer-In-Charge.
- 14.4 Payment against Performance Acceptance Test:
100% payment towards Field Performance Test shall be released within 45 days (Forty-five working days) after submission of invoice duly certified by the Engineer-In-Charge.
- 14.5 Payment against Comprehensive Maintenance:
On pro-rata monthly basis, against monthly invoices duly certified by Engineer-in-Charge within 45 (Forty-Five working days) working days from the date of submission of bills to the OWNER.

15.0 DELIVERY AND DOCUMENTS

- 15.1 Upon delivery of the Goods to the transporters/carriers, the Supplier shall notify the Purchaser/ Consultant through fax/mail the documents specified in clause 16 below. The bidder will also indicate likely date of arrival to the Purchaser/ Consultant.
- 15.2 The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.
- 15.3 The Bidder to ensure that Purchase order and Letter or Credit No (if applicable) must be appearing in LR/ GR/Bill of Lading/ Airway bill no., Invoices and Packing List. Bidders to also ensure that description of goods in all the despatch documents should be exactly same as per the Purchase Order.
- 15.4 Original Invoices shall be directed to following address for its further processing. The Suppliers shall send duplicate copy along with consignment.

General Manager (C&P),
M/s. Maharashtra Natural Gas Ltd.,
2nd Floor, Pride Purple Coronet,
Baner Road, Baner, Pune – 411045



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16.0 SHIPMENT

- 16.1 The Bidder shall make shipment only after obtaining despatch clearance from Purchaser. For getting despatch clearance, bidder has to submit inspection release note issued by Third Party Inspection agency/ Purchaser's authorized representative to the Purchaser (GM – C & P).

17.0 COMPREHNSIVE MAINTENANCE REQUIREMENT

17.1 Sub-Letting

No part of supply portion of this contract nor any share or interest therein in any manner or extent, will be transferred, assigned, or sub-let, directly or indirectly to any person/firm or organization. However, Comprehensive Maintenance may be sublet after taking the due approval from MNGL.

17.2 Compliance of Laws

The contractor deploying 20 (Twenty) or more workmen as contract labour shall have to obtain license from appropriate licensing authority, if required.

The contractor (which shall include the Contracting firm / company) shall be solely liable to obtain and to abide by all necessary licenses from the concerned authorities as provided under the various labour laws legislation's including labour license from the competent authority under the Contract Labour ("Regulation & Abolition") Act 1970 and Acts made thereafter.

The Contractor shall be responsible for necessary contributions towards PF, Family Pension, ESIC or any other statutory payments to Government Agencies as applicable under the laws in respect of the contract and personnel deployed by the contractor for rendering services to OWNER and shall deposit the required amount with the concerned statutory authorities on or before due dates. The contractor shall obtain a separate PF number from the concerned Regional Provident Fund Commissioner and submit necessary proof of having deposited the employees as well as the employer's contribution to the Provident Fund.

The contractor shall not engage /deploy any person of less than 18 years under this contract and the persons to be deployed should be physically and mentally fit.

The installations where job is to be carried out are live and have hydrocarbon environment. Contractor shall comply with all safety and security rules and regulations and other rules laid down by OWNER. It shall be the duty/responsibility of the contractor to ensure the compliance of fire, safety, security and other operational rules and regulations by his personnel. Disregard to these rules by the contractor's personnel will lead to the termination of the contract in all respects and shall face penal/legal consequences.



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The contractor shall arrange for insurance of all this worker engaged on the job as per the relevant Acts, rules and regulations, etc. In case by virtue of provisions of worker's compensation Act, 1923 or any other law in force. OWNER has to pay compensation for a workman employed by the contractor due to any cause whatsoever the amount so paid shall be recovered from the dues payable to the contractor and /or security deposit.

17.3 The Engineer- In- Charge Shall Have Power To

- a) Issue the contractor from time to time during the running of the contract such further instructions as shall be necessary for the purpose of proper and adequate execution of the contract and the contractor shall carry out and bound by the same.
- b) During the concurrency of this contract, OWNER can increase and/or decrease the number of the services / technicians to meet contractual requirements.
- c) Order the contractor to remove or replace any workman whom the Owner considers incompetent or unsuitable and opinion of the Owner representative as to the competence of any workman engaged by the contractor shall be final and binding on the contractor.

17.4 Repatriation and Termination

OWNER shall reserve the right at any time during the concurrency of the contract, to terminate it by giving 30 days' notice to contractor, and upon expiry of such notice period the contractor shall vacate the site/office occupied by him immediately.

MNGL reserves the right to cancel / terminate the PO, if the bidder is unable to deliver the material within specified timeline (i.e. Delivery schedule for respective lot + 10 weeks i.e. Maximum allowable period) for the undelivered quantities.

17.5 Indemnity

Contractor shall exclusively be liable for non-compliance of the provision of any act, laws, rules and regulations having bearing over engagement of workers directly or indirectly for execution of work and the contractor hereby undertake to indemnify the Owner against all actions, suits, proceedings, claims, damages demands, losses, etc. which may arise under minimum wages act, payment of wages act, workman compensation act, personnel injury (compensation insurance) act ESI Act, Fatal Accident Act, Industrial Dispute Act, Shops and Establishment Act, Employees Provident Fund Act, Family Pension and deposit Linked Insurance Scheme or any other act or statutes not herein specifically mentioned but having direct or indirect application for the persons engaged under this contract. (A certificate to this effect shall be submitted by the contractor immediately on receipt of LOA).

17.6 Loading

17.6.1 Loading on quoted prices shall be done as per tender Technical Specifications.



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17.7 Contractor's Responsibility

The contractor shall depute his Supervisor for supervision of the services to receive instructions from Engineer-in-Charge or his representative

17.8 Employment Liability of Contractor

The contractor shall indemnify OWNER & shall be solely and exclusively responsible for any liability arising due to any difference or dispute between him and his employer for the execution of this contract at any time during/after the contract period is over. All workmen engaged by the contractor shall be on his roll and be paid by him and OWNER shall have no responsibility towards them.

The contractor shall ensure and will be solely responsible for payment of wages and other dues latest by 7th of the following month to the personnel deployed by him in the presence of the Owner's representative.

The contractor shall be directly responsible and indemnify the Owner against all charges, claims, dues etc. arising out of disputes relating to the dues and employment of personnel deployed by him.

The contractor shall indemnify the Owner against all losses or damages caused to it on account of acts of the personnel deployed by the contractor. The contractor shall ensure regular and effective supervision of the personnel deployed by him.

The contractor shall be liable for making good all damages/losses arising out of loss or theft of each handled, leakage, pilferage of any office, furniture equipment fitting, and fixtures what-so-ever as may be caused directly or indirectly by the engaged persons through him/work carried out by them.

During the concurrency of the job, if the work progress does not commensurate with the time elapsed in respect of any person/persons engaged by the contractor; the contractor shall be liable to pay the compensation to the Owner as may be considered reasonable by the Owner.

18.0 SPECIAL NOTES

18.1 Warranty Period

The warranty shall remain valid for twelve (12) months from the date of successful performance test of compressor package at site. However, if performance test doesn't get carried out, within Ninety days (90 days) or 400 hrs of commercial operation (whichever is earlier), for reasons directly attributable to client/purchaser, then warranty period shall start from the date of completion of 30 days or 400 hours of successful commercial operation subject to issue of certificate by MNGL for the commencement of commercial operation.

OR



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Eighteen (18) months from the date of delivery of last compressor of each lot at MNGL store / site, whichever is earlier.

18.2 Comprehensive Maintenance Period

Bidder shall provide Comprehensive Maintenance during warranty period. Warranty period shall be as defined in tender document. Further bidder shall provide & comprehensive maintenance during warranty period & further 09 (Nine) years from the date of end of warranty period. However, maximum duration of contract for comprehensive maintenance during warranty and post warranty period shall be limited to 126 months from the date of receipt of last Compressor of each lot at MNGL store / site.

In case a compressor package is commissioned after six months from the receipt of last package of that lot for any reason attributable to Purchaser, the comprehensive maintenance rates for that particular period (year) will be applicable. First year rates of Comprehensive maintenance will be valid during the warranty period. Rates for second, third, fourth, fifth, sixth, seventh, eighth, ninth and tenth year will be valid for each year from the date of expiry of warranty period. The total validity of AMC shall however be limited to 126 months from the date of receipt of last compressor package of each lot at MNGL store / site.

In case a compressor package is commissioned after six months from the date of receipt of last package of lot for any reason attributable to Purchaser, the comprehensive maintenance rates applicable for that particular period (year) will be applicable.

The comprehensive maintenance period may be extended beyond the above-defined period for another 5 years on sole discretion of MNGL as per tender terms.

- Bidder shall provide preventive maintenance schedule based on running hours/ periodicity of the compressor package.
- Old spares removed during any type of maintenance activity will be submitted to MNGL by vendor. However, vendor will have to take care for disposal of consumables like waste oil, O Rings, Gaskets, Grease, Waste cloth etc. Waste oil collection and disposal in safe manner shall be done by the vendor only.

18.3 Delivery Terms and Schedule

As defined in Annexure I to IFB

18.4 Contract Cum Equipment Performance Bank Guarantee

Within fifteen (15) days of receipt of the respective Purchase Order, the successful bidder shall furnish to the Purchaser the Contract-Cum-Equipment Performance Bank Guarantee (CPBG) as follows:



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- A. **For Supply, installation & commissioning and Performance Acceptance Test:** equivalent to 10% of respective Delivery Order Value inclusive of all taxes, duties and charges towards supply, packing & forwarding, Transportation, Installation, Commissioning & PAT.
- B. **For Comprehensive Maintenance Services:**
CPBG equivalent to 10% of Annualized Order Value for comprehensive maintenance inclusive of all taxes, duties and charges on a yearly basis (annualized i.e. total order value divided by Maintenance period).

If the material supplied by contractor does not meet the guaranteed parameters and other requirement as per technical specification of contract consistently during operation at site, MNGL will revoke the Contract Cum Equipment Bank Guarantee, at its sole discretion.

The CPBG on a non-judicial stamp paper as per the pro forma enclosed of appropriate value in the form of DD or BG from Nationalized/Scheduled bank shall be valid for 90 days beyond the expiry of contract period. The claim period of CPBG shall be 01 months beyond the expiry date of BG validity. The CPBG shall be refunded after successful completion of the contract and after adjustment of any and all dues of the MNGL which may arise during the execution of the contract and a confirmation that contractor has cleared all its dues pertaining to the contract and all liabilities etc., in addition indemnifying MNGL against any future claims, if any.

The Company shall have the right to forfeit the security deposit in case of non-satisfactory performance of the contract.

19.0 PRICE REDUCTION SCHEDULE

- 19.1 In case there is delay in delivery of goods / completion of the work/services attributable to the supplier / contractor / service provider, the supplier / contractor / service provider shall pay as compensation for delay and not as penalty in form of price reduction as detailed here under.
- 19.2 If the supplier / contractor / service provider fails to deliver any or all of goods or performance of the work/service within the time period(s) specified in the Order, MNGL shall without prejudice to any other remedy(s) under the Order, reduce the contract value by a sum calculated as mentioned below:

Supply portion: @ ½% (Half Per Cent) per week of delay or part thereof of the value of item being supplied of which default in delivery has taken place.

Installation, Testing and Commissioning and Performance Acceptance Test: @½ % (Half Per Cent) per week of delay or part thereof of the value of work that has been delayed.

Maximum PRS will be 10% of the value of each Delivery Order of Supply, Installation, Testing and Commissioning and Performance Acceptance Test.



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The contract value to be considered for application of PRS shall be inclusive of all taxes and duties.

19.3 The parties agree that this is a genuine pre-estimate of the loss / damage which will be suffered on account of delay / breach on the part of the Contractor and the said amount will be payable on demand without there being any proof of the actual loss or damages caused by such delay / breach. The decision of Owner in regard to the actual delay shall be final and binding on the Contractor. All sums payable by way of compensation shall be considered as reasonable compensation without reference to the actual loss or damage which shall have been sustained.

19.4 In case of delay in performance / delivery on the part of Contractor, the invoice / document value shall be reduced proportionately for the delay and payment shall be released accordingly. In the event the invoice value is not reduced proportionately for the delay, the Purchaser may deduct the amount so payable by Contractor, from any amount falling due to the Contractor or by recovery against the Performance Guarantee.

20.0 REGISTRATION OF THE CONTRACT WITH STATUTORY AUTHORITIES (FOR FOREIGN BIDDER)

Not Applicable

21.0 VOID

22.0 PERIOD OF CLAIM ARISING OUT OF CONTRACT

The Supplier/ contractor shall submit to MNGL, any claim arising out of the contract or otherwise within a period of 30 days from the date of cause of action of the said claim. The supplier/ contractor shall be deemed to have waived its rights to claim the same, if not raised within 30 days of cause of action of said claim. The said claim, if not raised within 30 days, cannot be taken up at any forum by the supplier/ contractor including arbitration. This provision shall be incorporated in the bid documents as terms & conditions of contract.

23.0 INSURANCE

23.1 Transit insurance will be in bidder's scope.

24.0 CORRESPONDING ADDRESS

24.1 Purchaser:

General Manager (C&P),
M/s. Maharashtra Natural Gas Ltd.,
2nd Floor, Pride Purple Coronet,
Baner Road, Baner, Pune – 411045
Telephone: +91 (020) 25611190
E-mail: gasaid@mngl.in



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25.0 DOCUMENT PRECEDENCE

In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings or Schedule of Rates and any other portion of Bidding Document the following shall prevail to the extent of such irreconcilable conflict in order of precedence.

1. Letter of Acceptance
2. Schedule of Rates as enclosures to Letter of Acceptance
3. Special Conditions of Contract
4. Job / Particular Specifications
5. Scope of Work
6. Drawings
7. Technical / Material Specifications
8. General Conditions of Contract
9. Indian Standards
10. Other applicable Standards

26.0 REPEAT ORDER

MNGL reserves the right to place order for 'up to 50% of the original quantity' on the supplier on whom the order was originally placed with the same terms and conditions of the original order within 6 months from the date of order.

27.0 FORCE MAJEURE

In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which Force Majeure event lasts. The cost and loss sustained by the either party shall be borne by respective parties.

- (i) The term "Force Majeure" as employed herein shall mean acts of God, earthquake, war (declared or undeclared), revolts, riots, fires, unprecedented floods, rebellions, explosions, hurricane, sabotage, civil commotions and acts and regulations of respective Government of the two parties, namely the owner and the contractor, any national / state level strike affecting manufacturing, transportation and imposition of ban affecting supply of goods.
- (ii) Upon the occurrence of such cause(s) and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing immediately but not later than 7 (seven) days of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.



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- (iii) Time for performance of the relative obligation suspended by the Force Majeure shall then stand extended by the period for which such cause lasts provided it has adversely affected the overall completion schedule.
- (iv) If deliveries of bought out items and/or works to be executed by the contractor are suspended by Force Majeure conditions lasting for more than 1 (one) month, the parties to the contract shall hold discussions to resolve the situation mutually.
- (v) If during the concurrence of the contract there shall be an out-break of war whether declared or not, in that part of the World which whether financially or otherwise materially affects the execution of the work, the contractor shall unless and until the contract is terminated under the provisions in this clause continue to use his best endeavour to complete the execution of the work, provided always that the owner shall be entitled, at any time after such outbreak of war to terminate the contract by giving notice in writing to the contractor and upon such notice being given the contractor shall, save as to the rights of the parties under this clause and to the operation of the clauses entitled Settlement of Dispute and Arbitration hereof, be terminated but without prejudice to the right of either party in respect of any antecedent breach thereof.
- (vi) If the contract shall be terminated under the provisions of the above clause, the contractor shall with all reasonable diligence remove from the site all the contractor's equipment and shall remove similar facilities of his sub-contractors.

28.0 TERMINATION AND FAILURE CLAUSE

- 28.1 Time and date of delivery shall be the essence of the contract.
- 28.2 If the contractor/ supplier fails to complete the work / deliver the entire quantity of goods ordered or a part thereof within the period agreed to for such part or total quantity as per the delivery / time schedule or at any time repudiates the contract before the expiry of such period, the purchaser may without prejudice to any other right or remedy available to him recover damages for breach of the contract in form of recovering the compensation / Price Reduction Schedule / termination of the contract whichever is in the interest of the company, in accordance with the provision of contract
- 28.3 Termination of the contract as provided for above shall not prejudice or affect the rights of the owner, which may have accrued up to the date of such termination.
- 28.4 Termination and failure may also attract provisions of Holiday Listing Policy.

29.0 TERMINATION FOR DEFAULT

- 29.1 The following provisions shall be applicable:



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Except for the cases of Force Majeure, if the Contractor fails to execute the work or any part thereof with such diligence as will ensure its completion within the time specified in the contract or extension thereof or fails to perform any of his obligation under the contract or in any manner commits a breach of any of the provisions of the contract, it shall be open to the owner at its option by written notice to the Contractor:

- i. To determine the contract in which event the Contract shall stand terminated and shall cease to be in force and effect on and from the date appointed by the Owner on that behalf, where upon the Contractor shall stop forthwith any of the Contractor's work then in progress, except such Work as the Owner may, in writing, require to be done to safeguard any property or Work, or installations from damage, and the Owner, for its part, may take over the work remaining unfinished by the Contractor and complete the same through a fresh Contractor or by other means, at the risk and cost of the Contractor, and any of his sureties if any, shall be liable to the Owner for any excess cost occasioned by such work having to be so taken over and completed by the Owner over and above the cost as worked out in terms of the contract.
- ii. Without determining the contract to take over the work of the Contractor or any part thereof and complete the same through a fresh Contractor or by other means at the risk and cost of the Contractor and any of his sureties are liable to the Owner for any excess cost over and above the cost as worked out in terms of the contract, occasioned by such works having been taken over and completed by Owner.
- iii. Before determining the Contract, provided in the judgment of the Owner, the default or defaults committed by the Contractor is/are curable and can be cured by the Contractor if an opportunity is given to him, then the Owner may issue notice in writing calling the Contractor to cure the default within such time specified in the notice.

29.2 The Owner shall also have the right to proceed or take action as per above, in the event that the Contractor becomes bankrupt, insolvent, compounds with his creditors, assigns the Contract in favour of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the Owner to give any prior notice to the Contractor.

29.3 Termination of the Contract as provided for above shall not prejudice or affect the rights of the Owner which may have accrued up to the date of such termination.

29.4 Failure by Contractor

Following provisions pertaining to execution of work shall be applicable:

- (i) Failure by the contractor to comply with the provisions of the contract: Owner has reserved an option to determine the contract, the security deposit furnished



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by the contractor is liable to be forfeited as also the excess cost which may become payable by the owner in getting the work executed, through an alternative agency, may be recovered from the contractor.

- (ii) Failure of contractor to execute the work as per contract: If pursuant to award of work, the contractor fails to commence work in a manner described in the contract or if the contractor fails to execute the work in conformity with the documents and if the contractor fails to execute work in accordance with the time schedule or if the contractor substantially suspends work for a period of 14 days without authority of Engineer In-charge or if the contractor fails to carry out and execute the work to the satisfaction of the Engineer In-charge or if contractor fails to supply sufficient or suitable construction plant, temporary works, labour, materials or things or if the contractor commits, suffer or permit any breach of any of the provision of the contract on his part to be performed or observed or persist in any of the above mentioned breaches of the contract for 14 days after notice in writing shall have been given to the contractor by the Engineer In-charge requiring such breach to be remedied or if the contractor shall abandon the work or if the contractor during the continuance of the contract shall become bankrupt, make any arrangement or composition with his creditors, or permit any execution to be levied or go into liquidation whether compulsory or voluntary, not being merely a voluntary liquidation for the purpose of amalgamation or reconstruction; then, in each of the above mentioned cases the owner shall have the power to enter upon the work and take possession thereof and all materials, temporary works, construction plants and stock thereon and to revoke the contractor's license to use the same and to complete the work by his agents, other contractors or work men or to relate the same upon any terms and to such other person, firm or corporation as the owner in his absolute discretion may think proper to employ and for the purpose aforesaid to use or authorize the use of any materials, temporary work, construction plant and stock as aforesaid without making payment or allowance to the contractor for the said materials other than such as may be certified in writing for the Engineer In charge to be reasonable.

The above provisions expressly provide for owner's right to take possession on site and work in whatever condition the same exists at the time of breach or breaches as listed herein above may have been committed by the contractor. The clause further provides that in getting the job executed any additional payments or extra cost incurred shall be recovered from the dues of the contractor.

- (iii) Owner may do part of work: In case the contractor shall fail to comply with any instructions given in accordance with the provisions of contract, owner has the alternative right instead of assuming charge of entire work to place additional labour force, tools, equipment and materials on such parts of the work as the owner may designate or also engage another contractor to carry out the work. In such a case the owner shall deduct from the amount which otherwise might become due to the contractor the cost of such work and material with 10% added to cover all departmental charges and should the total amount thereof



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exceed the amount due to the contractor, the contractor is contractually bound to pay the difference to the owner.

- (iv) Replacement of defective parts and materials: Owner reserves right to make good, alter, reconstruct or remove such works as may be found to be defective or unsound or imperfect or inferior to the quality specified. The owner is required to give a notice to the contractor for 7 days to remove any defects or deficiencies, pointed out in the said notice and upon failure of the contractor to do so to proceed with the above-mentioned remedies. In the event of the owner taking charge of repairs / replacements as aforesaid, the cost incurred thereon becomes recoverable from the contractor.

- 29.5 The clause under reference further provides for the contractor's full and extreme liability to be satisfied by the payments to the owner of extra costs of such replacements procured including erection / installation as provided for in the contract; such extra cost being the ascertained difference between the price paid by the owner for such replacements and the contract price portion for such defective plants and repayments of any sum payable by the owner to the contractors in respect of such defective plant.
- 29.6 In terms of the aforementioned provisions of the contract MNGL, in exercise of its rights under the contract, may come across situations, where it may have to take a part of work off from the contractor and get the same done through an alternative agency. However, such off-loading of work can be in part or it can be for the entire work awarded to the contractor and the decision in this regard would rest on various factors having major effect on such decision. Some of the factors are the progress of work at site, poor mobilization of resources, frequent defects in the executed work, financial constraints of the contractor and ill behaviour of the representatives of the contractor.
- 29.7 The contractual conditions amply provide for recovery of any sums spent in excess of contract value for getting the work executed through an alternative agency.
- 29.8 Inspection and Rejection of goods by Consignee When goods are rejected by consignee, the supplier shall be intimated promptly with the details of such rejected goods with reasons, also giving locations where such goods are lying at the risk and cost of the party. The party will be called upon either to remove the goods or to give instructions to its disposal within 14 days and in case of dangerous and perishable goods within 48 hours failing which the consignee will return the goods to the party on freight to pay or dispose it at the site on contractor's risk and cost. The purchaser shall be entitled to recover handling and storage charges for the period during which the rejected goods are not removed @ 5% of the value of goods for each month or part of a month till the rejected goods are finally disposed off.

30.0 RESOLUTION OF DISPUTE (ARBITRATION)

Except as otherwise provided in the Contract where decision of Engineer-in-Charge is final and binding on the contractor, in the event of any claims, disputes or differences



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arising out of or in connection with this Agreement, the same shall be settled through Arbitration as provided hereunder. The disputing Party shall serve a written notice of dispute to the other Party within fifteen (15) days of arising of such claim, dispute or difference.

Pursuant to such notice, the Parties hereto shall promptly and in good faith attempt to resolve such claim or dispute or difference through discussions and negotiations with a view to bring out an amicable resolution and settlement.

If the said claim or dispute or difference is not resolved through discussions and negotiations within thirty (30) days from the written notice of dispute, then either Party may give notice in writing to the other Party of its intention to commence arbitration proceedings, as hereinafter provided, as to the matter in dispute, difference or claim, and no arbitration proceedings in respect of this matter shall commence unless such written notice of arbitration is served upon the other Party.

The Arbitral Tribunal shall comprise of a one (1) Arbitrator. The Arbitrator shall be nominated by Supplier / Contractor / Service Provider from a list provided by MNGL of three (3) persons from its panel of arbitrators. Depending on the nature of the claim or dispute, the list of persons from MNGL shall comprise of persons with the requisite technical expertise and relevant experience.

Supplier / Contractor / Service Provider waives any and all of its objections to the said persons being former employees of MNGL or of any other public sector entity or with regard to such persons holding shares in the Company.

If Supplier / Contractor / Service Provider fails to nominate the Sole Arbitrator within a period of fifteen (15) days from receipt of such list of persons by MNGL, then it shall be construed to be a waiver in respect of the said persons on part of Supplier / Contractor / Service Provider and MNGL shall be free to nominate one (1) of the persons from the said list to be the Sole Arbitrator.

The arbitration proceedings shall be held in accordance with the provisions of the Indian Arbitration and Conciliation Act, 1996, as amended from time to time. The seat of the arbitration proceedings shall be in Pune and shall be conducted in English Language.

The decision of such arbitration proceedings shall be binding and conclusive upon the Parties.

The fees of the Arbitral Tribunal shall be determined as per 4th Schedule of the Arbitration and Conciliation Act, 1996, as amended from time to time, and the Parties to the arbitration proceedings shall equally share the costs and expenses of any such arbitration proceedings.

Notwithstanding any reference to arbitration herein, the Parties shall continue to perform their respective obligations under the Agreement unless they otherwise mutually agree in writing.



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31.0 GROUNDS OF TERMINATION

MNGL shall be at liberty to terminate the contracts at its sole discretion on any of the following grounds:

- (i) If the contractor has got the contract by fraudulent means or suppression of material fact, which would have bearing on the award of contract.
- (ii) The contractor goes insolvent
- (iii) If the continuance of the business is stopped by any court of law or any authority of Government.
- (iv) In case the contractor is the company and has been wound up by the court.
- (v) In case of proprietorships firm, if the firm gets dissolved.
- (vi) In case of partnership firm, if the partner goes mentally insane.
- (vii) The contractor breaches any of the provision of the contract then MNGL shall have liberty to terminate the contract.

The termination of the contract should be done after following the due process as per provisions of the contract.

32.0 SUBLETTING AND ASSIGNMENT

The contractor shall not, save with previous consent in writing of the owner i.e. MNGL, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

33.0 APPLICABLE LAW

The contract shall be governed and interpreted in accordance with laws of India and court of competent jurisdiction of Pune shall have exclusive jurisdiction to try such suits.

34.0 ISSUE OF ESSENTIALITY CERTIFICATE

No essentiality certificate shall be issued by MNGL.

35.0 WITHHOLDING, ACCOUNTING AND TAX REQUIREMENTS

Contractor/ supplier agrees for withholding from wages and salaries of its agent's servants or employees all sums required to be withheld by the laws of Republic of India or any other agency having jurisdiction over the area where Contractor/ supplier is conducting operations and to pay the same promptly and directly when due to the proper authority. Contractor/ supplier further agrees to comply with all accounting and reporting requirements of any Nation having jurisdiction over the subject matter hereof and to conform to such laws and regulations and to pay the cost of such compliance. If requested, Contractor/ supplier will furnish the evidence of payment of applicable



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taxes, in the country (ies) of the Contractor/ supplier's and his sub-contractor/ supplier(s) and expatriate employees.

36.0 FALL CLAUSE

Fall clause shall be applicable for this tender as per the relevant clause in GCC.

37.0 LIEN

Contractor/ supplier shall ensure that the Scope of Supply supplied under the Contract shall be free from any claims of title /liens from any third party. In the event of such claims by any party, Contractor/ supplier shall at his own cost defend, indemnify and hold harmless Owner or its authorized representative from such disputes of title/liens, costs, consequences etc.

38.0 COORDINATION WITH OTHER AGENCIES

Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the Contractor/ supplier. Proper coordination with other agencies will be Contractor/ suppliers responsibility. In case of any dispute, the decision of Engineer-in-Charge shall be final and binding on the Contractor/ supplier.

39.0 STORAGE AND PRESERVATION

Contractor shall be fully responsible for safe custody, storage and preservation of all the supplies and materials/equipment required for carrying out the work until handing over of the complete facility to the Purchaser at site at no extra cost.

If required, materials /equipment shall be stored in Purchaser's designated store till further handing over the supplies, materials /equipment's to contractor for installation, testing, erection of the equipment's.

After taking over the equipment/materials from purchaser, contractor shall be fully responsible for safe custody, storage, insurance and preservation of all the supplies and materials/equipment required for carrying out the work until handing over of the complete facility to the Purchaser.

Further, activities like loading/ unloading at store as well as at site, re- transportation of material, equipment, tools & tackles etc. until handing over of the complete facility to the Purchaser shall be arranged by contractor and in case of re-transportation, payment shall be made as per SOR items relevant for the same.

Note: After unloading at site/ store & processing of documents, compressor watch & guard and insurance will be in scope of MNGL. However, preservation will be in scope of vendor including guarantee/ warranty as per clause no. 20.0 of GCC



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40.0 LOCAL CONDITION

It will be imperative for each bidder to fully inform himself of all local conditions and factors which may have any effect on the execution of the works covered under these documents and specifications. In their own interest the Bidders are requested to familiarize themselves with the Income Tax Act. 1961, the Companies Act 1956, Custom Act 1962 and other related Acts and Laws prevalent in India. The Owners shall not entertain any request for clarification from the Bidders, regarding such local conditions.

It must be understood and agreed that such factors may have properly been Investigated and considered while submitting the bids. No claim for financial Adjustment to the Contract awarded under these specifications and documents will be entertained by the Owner. Neither any Change in the time schedule of the Contract nor any financial adjustment arising therefore shall be permitted by the Owner which are based on the lack of such clear information to its effect, the cost or time schedule.

The activities listed in the scope of proposal in this document as well as in the price break-up shall be only broad categories and shall in no way absolve the Bidder in executing and completing of the turnkey's philosophy of the Owner within the quoted Lumpsum price. Any item/equipment/services/ activities/ taxes/duties, if not specifically identified in the Bid document or in the offer but is necessary for the completion of work, shall be deemed to be included in the quoted Lumpsum price and no extra charges are payable by the Owner.

The Purchaser/Consultant will not provide any power and water connection, and the Contractor/ supplier shall obtain necessary power and water connection from relevant authority and will pay its uses charges. Purchaser will not own the responsibility for providing the land.

Other terms and condition will be applicable as specified elsewhere in General Condition of Contract and Instruction to bidder.

41.0 DEDUCTION AT SOURCE

Bidder may note that if any tax is deductible at source as Permanently Indian Income Tax Law, the same will be so deducted before releasing any payment of the bidders. Accordingly, bidder shall have the responsibility to check and include such provisions of taxes in their prices.

Owner will release the payment to the Contractor/ supplier after effecting deductions as per applicable law in force & after offsetting all dues to the Owner payable by the Contractor under the Contract.



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42.0 SEPERATE CONTRACTS FOR SUPPLY, INSTALLATION, COMMISSIONING, TESTING AND COMPREHENSIVE MAINTENANCE

Two separate contracts shall be issued to successful bidders against this tender as below:

- i) Supply, Installation, Commissioning, Testing
- ii) Comprehensive maintenance Services



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SECTION - IV

7. SCHEDULE OF RATES (SOR) – INSTRUCTIONS



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SCHEDULE OF RATES (SOR) – INSTRUCTIONS

“Schedule of Rates (SOR) / BOQ is enclosed on e-tendering portal <https://etenders.gov.in> “

Note:

- a. **Bidder is cautioned that rates are to be quoted in financial bid only i.e., in SOR excel sheet and to be uploaded on above mentioned portal, revealing the rates elsewhere i.e., other than financial bid will result in rejection of the bid.**
- b. Evaluation and award of contract shall be done as specified in Annexure I to IFB.
- c. Bidder must quote the price in the Schedule of Rates format only. Bid submitted with changed format / description is liable to be rejected.
- d. Bidder to quote price for each SOR line item.
- e. Quoted unit rates shall be inclusive of all other charges except GST.
- f. Allowed decimal points in unit rate shall be up to 2 (two) decimal points. Unit rate quoted in negative shall lead to rejection of the bid.
- g. Purchaser reserves the right to decrease/increase the Scope of Work as per provision of Bid document before & after the award of contract.
- h. Bidder must quote for complete scope as detailed in the bid document, bids submitted for part scope shall be considered as non-responsive and liable to be rejected.
- i. **"Prices quoted shall be inclusive of all taxes / duties and nothing extra shall be payable by the owner except for statutory variation in Goods & service tax rate during the contractual period. Bidder shall note that any error in estimating these taxes & Duties (GST) will be to Bidder's Account".**

(Stamp & Signature of Bidder)



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SECTION - V

8. MATERIAL REQUISITION & TECHNICAL SPECIFICATION



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MATERIAL REQUISITION

Tender No. : MNGL/CP/2026-27/38

Project : City Gas Distribution Project of all GAs of MNGL.

Items : Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMh and 3 stage 1200 SCMh Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.

1200 SCMh Gas Engine Driven (GED) Compressor Packages			
Item No.	Description	Unit	Qty
1.01	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as at MNGL's stores / site) of Skid mounted Gas Engine driven CNG Compressor Package with explosion proof electric & control panel of 1200 Sm ³ /h at 14 Kg/cm ² (Gas Suction pressure range 08 to 19 kg/cm ² (g)) with discharge pr. 255 kg/cm ² (g) with 9 bank Priority panel.	No.	42
1.02	Supply, erection, testing and commissioning of HCV trailer panel complete with CNG 50 mass flow meter, integral local display with 2700 series transmitter suitable for hazardous area and with cabling from trailer panel to Compressor / Control room.	No.	20
1.03	Re-transportation of package & accessories if delivered at store to respective site including loading & unloading, transit insurance within GA.	No.	42
1.04	String test of complete compressor package along with Gas Engine and accessories at packagers' factory	No.	42
1.05	Special tools & tackles (list & Price of each tools & tackles to be furnished by the bidder)	Set	42
1.06	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as MNGL Stores / Site at Pune) of Screw type air compressor of capacity 7.5 kW, discharge pressure approx. 13 kg/cm ² g, 1000 water litre capacity air receiver and air dryer along with all accessories and auxiliaries.	No.	42
1.07	Installation, commissioning & Field performance test of Compressor Package including air compressor at site.	No.	42
1.08	Lump sum operation charges per Compressor Package per shift including air compressor for 1st year of warrantee period inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.09	Lump sum operation charges per Compressor Package per shift including air compressor for second year i.e. after first year of warranty period inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990



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1.10	Lump sum operation charges per Compressor Package per shift including air compressor for third year i.e. after first year of warranty period & second year operation inclusive of all manpower, etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.11	Lump sum operation charges per Compressor Package per shift including air compressor for fourth year i.e. after first year of warranty period & second & third year operations inclusive of all manpower, etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.12	Lump sum operation charges per Compressor Package per shift including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.13	Lump sum operation charges per Compressor Package per shift including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.14	Lump sum operation charges per Compressor Package per shift including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.15	Lump sum operation charges per Compressor Package per shift including air compressor for Eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.16	Lump sum operation charges per Compressor Package per shift including air compressor for Ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.17	Lump sum operation charges per Compressor Package per shift including air compressor for Tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year operations inclusive of all manpower etc. (42 packages x 3 shifts per day x 365 days)	No. of Shifts	45990
1.18	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for 1st year warrantee period inclusive of all manpower, spare and lubricant etc.	No	42
1.19	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare and lubricant, etc.	No	42



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH
Gas Engine Driven (GED) and Electric Motor Driven (EMD)
Compressor Packages for CNG and CGD Network of all GAs
of MNGL.**

Bid No.: MNGL/CP/2026-27/38

1.2	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for third year i.e. after first year of warranty period & second year AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.21	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fourth year i.e. after first year of warranty period & second & third year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.22	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.23	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.24	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.25	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.26	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42
1.27	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	42



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Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMh and 3 stage 1200 SCMh Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GASs of MNGL.

Bid No.: MNGL/CP/2026-27/38

1200 SCMh Electric Motor Driven (EMD) Compressor Packages

Item No.	Description	Unit	Qty
1.01	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as at MNGL's stores / site) of Skid mounted Electric Motor driven CNG Compressor Package with explosion proof electric & control panel of 1200 Sm ³ /h at 14 Kg/cm ² (Gas Suction pressure range 08 to 19 kg/cm ² (g)) with discharge pr. 255 kg/cm ² (g) with 9 bank Priority panel.	No.	15
1.02	Re-transportation of package & accessories if delivered at store to respective site including loading & unloading, transit insurance within GA.	No.	15
1.03	String test of complete compressor package along with Electric Motor and accessories at packagers' factory	No.	15
1.04	Special tools & tackles (list & Price of each tools & tackles to be furnished by the bidder)	Set	15
1.05	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as MNGL Stores / Site at Pune) of Screw type air compressor of capacity 1.5 kW (or higher size as per process parameters) with air receiver and air dryer along with all accessories and auxiliaries.	No.	15
1.06	Installation, commissioning & Field performance test of Compressor Package including air compressor at site.	No.	15
1.07	Lump sum operation charges per Compressor Package per shift including air compressor for 1st year of warrantee period inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.08	Lump sum operation charges per Compressor Package per shift including air compressor for second year i.e. after first year of warranty period inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.09	Lump sum operation charges per Compressor Package per shift including air compressor for third year i.e. after first year of warranty period & second year operation inclusive of all manpower, etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.1	Lump sum operation charges per Compressor Package per shift including air compressor for fourth year i.e. after first year of warranty period & second & third year operations inclusive of all manpower, etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.11	Lump sum operation charges per Compressor Package per shift including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425



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1.12	Lump sum operation charges per Compressor Package per shift including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.13	Lump sum operation charges per Compressor Package per shift including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.14	Lump sum operation charges per Compressor Package per shift including air compressor for Eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.15	Lump sum operation charges per Compressor Package per shift including air compressor for Ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.16	Lump sum operation charges per Compressor Package per shift including air compressor for Tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year operations inclusive of all manpower etc. (15 packages x 3 shifts per day x 365 days)	No. of Shifts	16425
1.17	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for 1st year warrantee period inclusive of all manpower, spare and lubricant etc.	No	15
1.18	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare and lubricant, etc.	No	15
1.19	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for third year i.e. after first year of warranty period & second year AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.2	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fourth year i.e. after first year of warranty period & second & third year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.21	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15



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Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAS of MNGL.

Bid No.: MNGL/CP/2026-27/38

1.22	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.23	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.24	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.25	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15
1.26	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	15



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Compressor Packages for CNG and CGD Network of all GAS
of MNGL.**

Bid No.: MNGL/CP/2026-27/38

1600 SCMh Gas Engine Driven (GED) Compressor Packages

Item No.	Description	Unit	Qty
1.01	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as at MNGL's stores / site) of Skid mounted Gas Engine driven CNG Compressor Package with explosion proof electric & control panel of 1600 Sm ³ /h at 35 bar and 2000 SCMh at 45 bar (range 35 to 45 kg/cm ² (g)) with discharge pr. 255 kg/cm ² (g) with 9 bank Priority panel.	No.	5
1.02	Supply, erection, testing and commissioning of HCV trailer panel complete with CNG 50 mass flow meter, integral local display with 2700 series transmitter suitable for hazardous area and with cabling from trailer panel to Compressor / Control room.	No.	3
1.03	Re-transportation of package & accessories if delivered at store to respective site including loading & unloading, transit insurance within GA.	No.	5
1.04	String test of complete compressor package along with Gas Engine and accessories at packagers' factory	No.	5
1.05	Special tools & tackles (list & Price of each tools & tackles to be furnished by the bidder)	Set	5
1.06	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as MNGL Stores / Site at Pune) of Screw type air compressor of capacity 7.5 kW, discharge pressure approx. 13 kg/cm ² g, 1000 water litre capacity air receiver and air dryer along with all accessories and auxiliaries.	No.	5
1.07	Installation, commissioning & Field performance test of Compressor Package including air compressor at site.	No.	5
1.08	Lump sum operation charges per Compressor Package per shift including air compressor for 1st year of warrantee period inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.09	Lump sum operation charges per Compressor Package per shift including air compressor for second year i.e. after first year of warranty period inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.10	Lump sum operation charges per Compressor Package per shift including air compressor for third year i.e. after first year of warranty period & second year operation inclusive of all manpower, etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.11	Lump sum operation charges per Compressor Package per shift including air compressor for fourth year i.e. after first year of warranty period & second & third year operations inclusive of all manpower, etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475



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1.12	Lump sum operation charges per Compressor Package per shift including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.13	Lump sum operation charges per Compressor Package per shift including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.14	Lump sum operation charges per Compressor Package per shift including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.15	Lump sum operation charges per Compressor Package per shift including air compressor for Eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.16	Lump sum operation charges per Compressor Package per shift including air compressor for Ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.17	Lump sum operation charges per Compressor Package per shift including air compressor for Tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.18	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for 1st year warrantee period inclusive of all manpower, spare and lubricant etc.	No	5
1.19	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare and lubricant, etc.	No	5
1.2	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for third year i.e. after first year of warranty period & second year AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.21	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fourth year i.e. after first year of warranty period & second & third year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5



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Bid No.: MNGL/CP/2026-27/38

1.22	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.23	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.24	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.25	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.26	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.27	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5



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Bid No.: MNGL/CP/2026-27/38

1600 SCMh Electric Motor Driven (EMD) Compressor Packages

Item No.	Description	Unit	Qty
1.01	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as at MNGL's stores / site) of Skid mounted Electric Motor driven CNG Compressor Package with explosion proof electric & control panel of 1600 Sm ³ /h at 35 bar and 2000 SCMh at 45 bar (range 35 to 45 kg/cm ² (g)) with discharge pr. 255 kg/cm ² (g) with 9 bank Priority panel.	No.	5
1.02	Supply, erection, testing and commissioning of HCV trailer panel complete with CNG 50 mass flow meter, integral local display with 2700 series transmitter suitable for hazardous area and with cabling from trailer panel to Compressor / Control room.	No.	2
1.03	Re-transportation of package & accessories if delivered at store to respective site including loading & unloading, transit insurance within GA.	No.	5
1.04	String test of complete compressor package along with Electric Motor and accessories at packagers' factory	No.	5
1.05	Special tools & tackles (list & Price of each tools & tackles to be furnished by the bidder)	Set	5
1.06	Design, Engineering, Manufacturing, Supply (including packaging and forwarding, insurance, custom clearance, handling and unloading at port as well as MNGL Stores / Site at Pune) of Screw type air compressor of capacity 1.5 kW (or higher size as per process parameters) with air receiver and air dryer along with all accessories and auxiliaries.	No.	5
1.07	Installation, commissioning & Field performance test of Compressor Package including air compressor at site.	No.	5
1.08	Lump sum operation charges per Compressor Package per shift including air compressor for 1st year of warrantee period inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.09	Lump sum operation charges per Compressor Package per shift including air compressor for second year i.e. after first year of warranty period inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.1	Lump sum operation charges per Compressor Package per shift including air compressor for third year i.e. after first year of warranty period & second year operation inclusive of all manpower, etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.11	Lump sum operation charges per Compressor Package per shift including air compressor for fourth year i.e. after first year of warranty period & second & third year operations inclusive of all manpower, etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475



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of MNGL.**

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1.12	Lump sum operation charges per Compressor Package per shift including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.13	Lump sum operation charges per Compressor Package per shift including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.14	Lump sum operation charges per Compressor Package per shift including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.15	Lump sum operation charges per Compressor Package per shift including air compressor for Eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.16	Lump sum operation charges per Compressor Package per shift including air compressor for Ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.17	Lump sum operation charges per Compressor Package per shift including air compressor for Tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year operations inclusive of all manpower etc. (5 packages x 3 shifts per day x 365 days)	No. of Shifts	5475
1.18	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for 1st year warrantee period inclusive of all manpower, spare and lubricant etc.	No	5
1.19	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare and lubricant, etc.	No	5
1.2	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for third year i.e. after first year of warranty period & second year AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.21	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fourth year i.e. after first year of warranty period & second & third year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5



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Bid No.: MNGL/CP/2026-27/38

1.22	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for fifth year i.e. after first year of warranty period & second, third and fourth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.23	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for sixth year i.e. after first year of warranty period & second, third, fourth and fifth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.24	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for seventh year i.e. after first year of warranty period & second, third, fourth, fifth and sixth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.25	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for eighth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth and seventh year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.26	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for ninth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh and eighth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5
1.27	Lump sum Annual repair & comprehensive Maintenance charges per Compressor Package including air compressor for tenth year i.e. after first year of warranty period & second, third, fourth, fifth, sixth, seventh, eighth and ninth year of AMC inclusive of all manpower, spare and lubricant, etc.	No	5

Notes:

1. Inspection shall be carried out by Owner or its authorized consultant / TPI at the Owner's cost.
2. Delivery location of the Compressors may change as per requirement and the same shall be intimated to the supplier before dispatch.
3. Purchase Order shall be placed for combined quantity as per breakup specified in evaluation methodology, however, actual required quantities 1600 SCMH and 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) may vary within the overall Purchase Order value, depending on actual site requirements.



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Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GAs of MNGL.

Bid No.: MNGL/CP/2026-27/36

TECHNICAL SPECIFICATION FOR GAS ENGINE DRIVEN COMPRESSOR (1200 SCMH, 3 STAGE AND 1600 SCMH, 2 STAGE)



**MAHARASHTRA NATURAL
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Tender for Rate Contract for a period of 02 (Two) years for Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas Engine Driven (GED) and Electric Motor Driven (EMD) Compressor Packages for CNG and CGD Network of all GASs of MNGL.

Bid No.: MNGL/CP/2026-27/36

**DETAILED TECHNICAL SPECIFICATION & SCOPE OF WORK FOR GAS ENGINE DRIVEN CNG
COMPRESSOR (1200 SCMH and 1600 SCMH)**

1.0 GENERAL

This specification along with applicable codes as referred describe the minimum requirements for Design, engineering, manufacturing, inspection, testing, packaging, supply, erection & commissioning including Field Performance Test at site along with one year operation & maintenance during warranty period and operation and maintenance for Nine subsequent years of "1200 SCMH, 3 stage GAS ENGINE DRIVEN RECIPROCATING CNG COMPRESSOR PACKAGES" and "1600 SCMH @ 35 kg/cm² (g) & 2000 SCMH @ 43 kg/cm² (g), 2 stage GAS ENGINE DRIVEN RECIPROCATING CNG COMPRESSOR PACKAGES" as required for dispensing CNG to vehicles at various GASs of MNGL. Various parts of this specification shall be read in conjunction with each other and in case where the different parts of this specification differ the more stringent requirement shall govern.

Any additional work/equipment or technical requirement not mentioned in the specification but required to make the offered system complete in accordance with the specification or required for safe operation, shall be deemed to be included in the offer and provided by the bidder, without any additional payment.

Bidder shall be responsible for supply, erection, commissioning, and field trial run. Noise level test and performance test of all packages at sites. The field trial run of the Gas Engine Compressor will be for minimum of 4 hours in which satisfactory performance of the package together with all accessories auxiliaries and controls shall be established for satisfactory performance for specified operating conditions.

The bidder must keep the compressors operational round the clock and all the expenditures including spares and consumables, oil etc. to make the compressors operational shall have to be borne by the bidder. The power required to run the compressors will be provided by MNGL. The contractor shall always maintain the compressors in sound mechanical condition. The contractor shall rectify the defects notified by MNGL immediately and should submit all the history log sheets and spares availability status along with the report in the format mutually agreed between MNGL and the bidder.

Periodic inspections of Safety Valves. Transmitters. Pressure vessel gauge and any other equipment as per statutory norms of Factory Act 1948. SMPV and Gas Cylinder Rules shall have to be carried out by the bidder at his own cost during the period of maintenance by the bidder. The inspections must be carried out by competent persons as per advice of Engineer-in-Charge and certificates have to be submitted to MNGL.

1.1 O&M REQUIREMENTS

The contractor must follow the OPERATION & MAINTENANCE REQUIREMENT as stated below but not limited to and ensure to provide trouble free services as defined in the bid documents.

i. Accommodation/Transportation/Medical

The contractor shall make his own arrangement for the accommodation of his personnel at respective locations and subsequent transportation arrangement for them from their place of residence to workplace or any other place as required and owner shall have no obligation in this respect.

ii. Discipline

The contractor shall be responsible for the discipline and good behavior of all his personnel deployed in the services contracted out and should any complaint be received against any of his employee, he shall arrange to replace such persons within 24 hours of notice issued by the Engineer-in-Charge. The decision of the Engineer-in-Charge in this matter shall be final and binding on the contractor.

iii. Gate pass / Identity Card

The contract shall arrange to supply / renew identity card to his workforce at his own cost, if so, required by OWNER for security or for any other reasons. Those contractor's personnel shall be required to carry their respective identity cards while on duty and produce on demand.

iv. Right to Get Services Carried Out Through Other Agencies

Nothing contained herein shall restrict OWNER from accepting similar service from other agencies, at its



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discretion and at the risk and cost of the contractor, if the contractor fails to provide the said services any time.

The maintenance services shall be provided in terms of shift pattern or the round the clock basis as mentioned in the bid document.

v. MNGL will notify the start date for operation and Comprehensive Maintenance services

- After the successful completion of test run & commissioning, system taking over certificate shall be issued by the owner.
- The contractor shall deploy adequate number of technicians / supervisors / Engineers / helpers as well as tools, spares, consumables and equipment for smooth and proper maintenance of the Compressor supplied in terms of the contract. In case required to meet operational requirements, the contractor shall augment the same as per direction of Engineer-in-Charge. Contractor to depute following persons before starting maintenance of the compressor package.

Manpower	Qualification	Nos.	Remarks
Operator	12 th pass with ITI (min 2yrs relevant Exp.)	4	Site wise requirement
Supervisor (Safety & Maintenance)	Diploma in Mechanical/ Instrumentation/ Electrical/ Safety (min 4yrs relevant exp.)	1	GA wise requirement
Technician Compressor	ITI (min. 5 yrs. relevant exp.)	3	GA wise Requirement (fitter, Inst., Elect.)
Technician Gas Engine	ITI (min. 5 yrs. relevant exp.)	1	GA wise requirement
Helper	ITI (min 1yr. relevant exp.)	2	GA wise requirement

- The contractor is required to carry out all services as mentioned in the Scope of Services and Schedule of Rates on all the 365 days including Sunday and all Holiday & around the clock.
- The contractor shall allow weekly rest and daily working hours to his workmen as per the relevant Act/Law/and Rule made there under. However, no work shall be left incomplete/unattended on any holiday/weekly rest. Technician/operators provided shall have minimum qualification of ITI. Contract in person or his authorized representative shall provide the services on daily basis to interact with Engineer-in- charge and deployed workman.
- The work force deployed by the contractor for maintenance service of Compressors, shall be of sound relevant technical professional expertise which is otherwise also essential from the safety point of view of the personnel of the contractor as well as for the installation.
- Contractor must ensure the safety of man and machine all the times. Damages of equipment due to negligence will be recovered as per the decision of Engineer-in- Charge, which will be final.
- Regarding work completion, the decision of the Engineer-In-Charge will be final and binding.
- The contractor shall make his own arrangements to provide all facilities like boarding and transport etc. to his workmen.
- All personnel of the contractor entering on work premises shall be properly and neatly dressed and shall wear uniform, badges while working on premises of the Owner including work sites.
- Contractor shall maintain proper record of his working employee's attendance and payment made to them.
- The contractor's representative/supervisor shall report daily to the Shift-in-Charge for day to day working.
- All the safety rules and regulations prevailing and applicable from time to time at the installations as directed by OWNER will be strictly adhered to by the contractor.



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- It will be the responsibility of the contractor to pay as per the minimum wages of the appropriate state-government applicable under the Minimum Wage Act 1948.
- The services shall be provided in terms of shift pattern on the round the clock basis. The contractor is responsible to provide effective and efficient services in all shifts and assure that there is no disruption in the services for want of any resources.
- The contractor shall establish a central control room to operate 24 hours, seven days a week where complaint regarding non-performance of the Compressors in terms of the contract can be lodged. Further, the contractor shall deploy adequate number of technicians/ supervisors / engineers at various site offices in consultation with Engineer-in-Charge to provide trouble free maintenance of the Compressors.
- All arrangements for communication from control room to the contract person working on job under the services shall be the responsibility of the contractor, viz. cell phone / walky-talky.
- The successful bidder shall indemnify the Owner from any claim of the contract labor.
- The bidders / contractor who fail to furnish any proof in respect of separate PF Code/No of the concerned RPF Commissioner / Authority their bids shall be liable for rejection.
- All the jobs mentioned under scope of services shall be carried out as per sound engineering practices, work procedure documentation, recommendation of the manufacturer and as per the guidelines/direction of engineer-in-charge of authorized representative.
- Summary of breakdown hour's station wise with analysis shall be submitted to CNG control room on a monthly basis both in hard and soft form as per MNGL format.
- The contractor must submit the following documents on monthly basis along with the bill:
 - ❖ Preventative maintenance compliance report for that month along with the detailed service report.
 - ❖ Details of the compressor breakdown, summary of break down hours for that month and the cumulative break down hours along with breakdown response time.
 - ❖ Compressor parameter log-book for the month.
 - ❖ Certificate to be given by the bidder stating that they have complied with all the labor regulations and are following the minimum wages act.

Comprehensive Operation and Maintenance of compressor packages during the warranty period.

- All spares, consumables, lubricating oil, coolant required for carrying out preventive/ any type of maintenance shall be in the scope of supplier during the warranty period. The warranty spares shall be supplied by the vendor during the warranty period as per warranty clause.
- All tools, tackles and fixtures required for carrying out the above maintenance of the compressor shall be in scope of the bidder. The scope will also include handling equipment like crane, forklift, chain pulley block, etc required during the any maintenances activity.
- Any correspondence required to be made with the principal company or OEM or various offices shall be made by the bidder or bidder's agent. All arrangements like phone, fax, computer, Internet etc required for above correspondences shall be arranged by the bidder at his own cost.
- The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The bidder shall provide the detailed preventative maintenance schedule along with
 - a) Estimated down time required for each type of maintenance schedule.
 - b) List of spares and their quantities required for each type of maintenance schedule per compressor.
 - c) Type and number of man days required for each type of maintenance schedule per compressor.
- The bidder shall plan such maintenances during non-peak hours and in consultancy with the Engineer In Charge (EIC) of MNGL. Any maintenance that needs to be taken up shall be well planned with due approval of the EIC.
- The bidder shall use only OEM's certified spares during maintenances. All spares shall be kept in sealed OEM stamped packages. The packages shall be opened in front of MNGL representative during maintenance. In case, the schedule maintenance of the OEM manual recommends checking and replace parts like valve spring, valve plates, piston rings etc. after certain time interval, same



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shall replace or used further only on approval from the MNGL representative. However, any untoward consequences for non-replacement of such parts shall be the responsibility of the bidder and spares, repair required to put back the unit into operation will be to bidder's account.

- All routine and periodic checks / inspections required to be done as per OEM recommendation shall be done by the bidder. Instruments required for above inspection like Vernier caliper, micrometer screw gauge, fill gauges, bore gauge etc. shall be in scope of the bidder and these instruments shall be calibrated every year.
- The contractor shall submit a copy of the daily / weekly / fortnightly / monthly/ bimonthly / quarterly and yearly performance report to the EIC in both soft and hard form. All stationery including the printed material such as compressor parameter logbook, complaint logbook, service report, break down summary report etc. shall be in scope of the bidder.
- All the maintenance / inspection job carried out by the bidder shall be recorded in a service report and the report of the same shall be jointly signed by MNGL representative and submitted immediately after carrying out the maintenance. Service report format shall be approved by MNGL.
- The EIC will be final authority to take decision with regards to maintenance or replacement of parts or any disagreement between the bidder and MNGL, during the execution of the contract.
- The bidder shall carryout calibration of gas detectors and flame detectors every six months or earlier as per requirement or instruction of EIC of MNGL. Also, yearly calibration of all instruments such as pressure gauges, transmitters, switches, mass flow meters etc. shall be in the scope of the bidder. In addition to the above all safety relief valves shall also be tested and calibrated every year.
- Calibration shall be done from government-approved laboratories and shall be carried out at least 15 days prior to the calibration due date.
- The bidder shall keep 1 set of safety relief valves in spare for the purpose of calibration.
- The bidder shall carry out thickness testing of pressure vessels periodically i.e. every year or earlier as per Gas Cylinder rules 2016 / Static & Mobile Pressure Vessels Rules.

Comprehensive Operation and Maintenance of compressor packages after warranty period for 9 years:

- All spares, consumables, oil and lubricants required for carrying out the Operation and Maintenance of the complete compressor packages for 9 years period after warranty period including periodic breakdown and any other materials required for operation and maintenance of the compressor packages, shall be provided by the bidder.
- All tools, tackles including special tools and tackles and fixtures required for carrying out the above maintenance of the compressor shall be in scope of the bidder. The scope will also include handling equipment's like crane, forklift, chain pulley block, etc. required during the any maintenances activity.
- Any correspondence required to be made with the principal company or OEM or various offices shall be made by the bidder or bidder's agent. All arrangements like phone, fax, computer, internet etc required for above correspondences shall be arranged by the bidder at his own cost.
- The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The bidder shall plan such maintenances during non-peak hours and in consultancy with the Engineer-In-Charge (EIC) of MNGL. Any maintenance that needs to be taken up shall be well planned with due approval of the EIC. The scope shall include preparation of maintenance schedule for carrying out the maintenance during the contract period.
- In case, the schedule maintenance of the OEM manual recommends checking and replace parts like valve spring, valve plates, piston rings etc. after certain time interval, same shall replace or used further only on approval from the MNGL representative.
- All routine and periodic checks / inspections required to be done as per OEM recommendation shall be done by the bidder. Instruments required for above inspection like Vernier caliper, micrometer screw gauge, fill gauge, bore gauge etc. shall be in scope of the vender.



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- The contractor shall submit a copy of the daily / weekly / fortnightly / monthly / bimonthly / quarterly and yearly performance report to the EIC in both soft and hard form

1.2 CODES & STANDARDS

The design, construction, manufacture, supply, testing and other general requirements of the compressor package equipment shall be strictly in accordance with the data sheets, API and other Codes as applicable, and shall comply fully with relevant National/ International standards, Indian Electricity Act, Indian electricity rules, regulations of insurance association of india and Factories Act while carrying out work as per this specification.

Any modification suggested by the statutory bodies either during drawing approval or during inspection, if any shall be carried out by the bidder without any additional cost and delivery implications.

The following codes and standards (versions/revisions valid on the date of order) are referenced to & made part of specification:

API-11P (Second edition), API – 618/ Equivalent Industry Standard, Pressurized crankcase Design /Trunk Piston Design NFPA-37, OISD 179, NFPA-52: 2016, NFPA-37-2015: Standard for installation and use of Stationary combustion Engines and Gas Turbines, ASME B 31.3-2016-process piping, NFPA-496-2017: Standard for purged and pressurized enclosures for electrical equipment, NFPA-68-2013:standard on explosion protection by deflagration venting, NFPA 12-2015: Standard on Carbon dioxide extinguishing system, NFPA -70-2017: National Electrical code,

NFPA-12, IS: 6382, Gas Cylinder Rule-2016

IS: 5571, IS: 5572, IS: 5580, IS-325/IEC or EQV for electric motor.

ANSI, ASTM, NEC, NEMA Indian Electricity Rules, Indian Explosives Act, Delhi Factory Rules,1950 ASME Section VIII Div -1 – Design code for unfired pressure vessel

1.3 PRECEDENCE

In case of any conflict among the various documents of this requisition the following preferential order shall govern:

- 1.3.1 Data sheets/drawings
- 1.3.2 Technical specification
- 1.3.3 International standards/codes as applicable
- 1.3.4 Indian Standards / codes applicable

Compliance with this specification shall not relieve the bidder of the responsibility of furnishing equipment and accessories of proper design, material, and workmanship to meet the specified operating conditions.

No deviations to the technical requirements and to the scope of supply specified in this enquiry document shall normally be accepted and offers not in compliance to the same shall be rejected summarily. In case a deviation is required due to inherent design of the equipment offered, the Supplier shall list all such deviations at one place giving reasons thereon.

- 1.3.5 Bidder shall necessarily furnish the following along with the bid without which the offer shall be considered incomplete:
 - (1) Proven Track Record Formats duly filled in along with general reference list shall be submitted for the earlier supplied CNG packages.
 - (2) Checklist duly filled in with regards to scope of supply
 - (3) Completely filled in Data Sheets of compressor, Gas Engines
 - (4) Deviations if any to this Technical Specification



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- (5) Tentative Lay out/key plan/General Arrangement indicating size of skids, center distance between skids and space required along with maintenance requirements
- (6) (a) Utilities requirements (b) Electrical Load summary
- (7) Catalogues of compressor, engine, instrumentation & controls
- (8) Certificate from compressor block manufacturer towards guaranteed shaft power required (inclusive of all compressor driven auxiliaries load) to deliver 1200 SCMH per hour compression (on given parameters) on above guaranteed shaft power along with any electric power consumption on account of separate motors for gas coolers and radiators fan, etc. to be submitted by bidders.

1.4 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE:

The scope of work/services to be provided by the bidder shall be inclusive of but not limited to:

Design, Engineering, Manufacture, assembly, testing at manufacturer's works, erection, commissioning, field trial runs and Equipment performance acceptance test along with associated electrical, instrumentation etc. as per bid document.

Each compressor Package shall be complete with:

- Lubricated and air-cooled Compressor with suction/discharge volume bottles (dampers) as applicable, for each stage (separators) with manual drains and automatic drain system, lube oil system, closed circuit air-cooled as required. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Gas engine complete with lube oil, closed cooling system, fuel (Natural Gas) supply module, inlet air intake system, exhaust system with silencer, stack etc.
- Gas engine start up air compressor with receiver, refrigerant type air drier and necessary controls.
- 4 nos. mass flow meters to measure the Natural Gas consumption at packages inlet, package discharge, fuel consumption at Gas Engine inlet and package loss / venting with online test arrangement. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Instrumentation and control system as specified on data sheets, P&ID including Local panel, Console/Local gauge boards, PLC with HMI.
- Common structural steel skid for the compressor-engine combination and for all auxiliary systems of maximum For 1200 SCMH- 3.25 m (width) x 5 m (length)/ 16.25 sq. mtr and For 1600 SCMH- 3.5 m (width) x 5 m (length)/ 18 sq. mtr
- Gas Inlet Pressure Regulator of 300 # class rating with an outlet discharge range of 10 kg/cm²g to 30 kg/cm²g adjustable. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Package mounted Duplex Suction gas filters with oil drain and temporary suction inline strainer at the compressor package inlet.
- Air-cooled heat exchanger for inter-stage and discharge gas as well as engine coolant.
- Suction Knockout Drums (KOD) as applicable with solenoid valve operated auto & manual drains. Demisters to be provided for each KOD. Vendor to ensure that KOD & coalescent filter shall be provided after the final discharge and before the mass flow meter. All drain lines shall be provided with level operated / time-based auto drain valves. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- 9 banks Priority Panel at Package Discharge.
- 2 way/ 3 way Ball valves with full flow ball valve for priority line.
- All interconnecting oil, gas, water, air piping within the compressor package.
- Impulse and pneumatic piping/Tubing for all valves, fittings as specified & required for mounting



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the instruments. Block and bleed valves/ brass type needle valve to be provided for Pressure gauges and pressure Transmitters.

- If applicable, Separate junction boxes for different type of signals like intrinsically safe signals, alarm, shutdowns, thermocouples, RTDs etc. for interfacing to local panel.
- NRV at final discharge.
- SRV for fuel line and air compressor should be provided.
- Structural supports within the compressor package for all piping, instruments etc.
- One no. relief valve at each stage discharge, first (1st) stage suction and Blow Down Vessel (BDV). In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Coupling/V-belts/pulleys/direct.
- Y- type strainers, valves, sight flow indicators, check valves, auto & manual drain traps etc. as required for various auxiliary systems i.e. frame lube oil, cylinder lubrication system, cooling water systems etc. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Each package shall be provided with two nos. IR Type L.E.L. gas detector with display and two nos. UV - IR flame detectors to cover the enclosure effectively. In case there is separate compartment for Gas engine and compressor, each compartment should have atleast 2 nos. GD's and 2 nos. FD's i.e. total 4 nos. Gas Detector and 4 nos. Flame Detector for the package.
- Common CO2 extinguishing system consisting of two cylinders, piping, valves and control systems (details are given at s.no.1.6).
- Inlet and outlet manual and automatic isolating valves for maintenance & emergency.
- Complete Erection, Testing & Commissioning of compressor packages.
- Training of four engineers in two batches at Packager's works. The travelling, boarding and lodging of MNGL's engineers shall be borne by MNGL. Each training module shall be for one-week span and shall cover the equipment constructional features, operational and maintenance procedures, practical hands-on experience on assembling, dismantling etc.
- Foundation structural drawing.
- Supply, Laying and Termination of following cables including all erection accessories like Lugs, Glands, Cable tray, cable tags etc is included in the scope of bidder.
- Main incoming cables laying from client PDB to main control panel of the compressor through Conduit/trenches.
- Bidder to consider distance of PDB in electrical room maximum 100 meters from compressor package & accessories for cable length consideration.
- Cables from compressor to hooter and up to ESD push button in customer room (Length shall be considered as 100 meter).
- Shed structure (galvanized corrugated sheet) of 10' x 8' over the Control Panel to the Operator for operating the compressor. Total structure setup, fabrication & finishing shall be in bidder's scope. Suitable Rainhood / outdoor enclosure for air compressor & dryer shall be in bidder's scope.
- Handling of goods (Package & Accessories etc.) at all stages, loading and unloading facilities at designated storage of client, Re-transportation of the package from the store to the actual site / station including transit insurance.
- All cables and air tubes laid above ground shall be provided by proper conduiting like PE pipe, GI trays through clamps and anchor fasteners. Conduit from PDB to Compressor control panel shall be made available by client & conduit /trays as required from control panel to different accessories / ESD/ units shall be in bidder scope.



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- Double earthing strips (Copper for PLC panel & UPS and Aluminum for package body & accessories) shall be laid from owner earth pits and connected to the compressor and all its accessories as per the given location.
- Loading, shifting, and unloading of compressor package & its accessories on foundation shall be in the bidder's scope, if foundation of Compressor package & its accessories is not constructed during compressor shifting at sites.
- Proper Flow directions, Metallic plate tagging shall be provided to all pipelines, tubing of compressor, instruments, and accessories for identification purpose.
- Supply, fabrication, installation, testing commissioning of 2" Carbon Steel suction pipeline, 2" steel Air Line, Co2 line as per site condition shall be in the bidder's scope including all material required for pipeline fabrication, supports, copper jumpers, rubber stirps, painting, clamps, WNRF & Blind flanges etc. as per site conditions. Painting to gas suction line, airline, Co2 system, Air receiver etc as per standards at site after installation.
- Bidders are required to comply with the queries raised by PESO during site inspection in the interest of safety without any additional cost.
- Compressor package and other related instruments earthing will be in scope of supplier.

Exclusions

The following are excluded from the scope of the supplier:

- i. All civil works and foundation design except GED Compressor grouting. However, the Supplier shall furnish all the relevant data for design of pedestal/ foundation.
- ii. CNG storage cascade.

All piping beyond battery limits except from air compressor & air piping for air starting and piping from CO2 cylinders up to the enclosure. The air and Co2 piping shall be of seamless CS pipe.

1.5 SAFETY

- 1.5.1 All controls shall operate in a fail-safe mode i.e., failure of any control shall not lead to running of equipment in unsafe mode. Fail safe control shall be available through both software and hardware for all trips.
- 1.5.2 Area Classification: The hazardous area classification Class-I, Division I, Group D as per NEC or Zone I, Group II A/ II B as per IS/ IEC. Certificate from recognized agency to the effect that equipment supplied and/or installed conform to above area classification. All Devices shall meet the requirement for the specified area classification in which they are installed, including instrumentation leads.
- 1.5.3 Bidder needs to submit either the copy of valid type approval for compressor packages from PESO or copy of application towards the same along with the bid.
- 1.5.4 All exposed rotating parts shall be provided with adequate guards of non-sparking type.
- 1.5.5 Driver belt if used shall be of anti-static and fire-retardant type.
- 1.5.6 Piping shall be arranged in a manner so as to provide clear headroom and accessibility within the package. Adequate clearances shall be provided for all the engineered components. Accessibility concern if any raised by MNGL, to be handled suitably.
- 1.5.7 Acoustic enclosure for Compressor package, Each package shall be provided with two nos. IR Type L.E.L. gas detector with display and two nos. UV - IR flame detectors to cover the enclosure effectively. In case there is separate compartment for Gas engine and compressor, each compartment should have atleast 2 nos. GD's and 2 nos. FD's i.e. total 4 nos. Gas Detector and 4 nos. Flame Detector for the package.
- 1.5.8 All material used in the package shall be flame retardant.
- 1.5.9 Relief Valves shall be provided at interstage / compressor discharge with setting as per Cl. 7.20.3 of API – 11P with R.V. venting as per Cl. 7.20.4 of API-11P. Suction separator at first stage inlet shall also be provided with Relief Valve. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance



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during detailed engineering.

- 1.5.10 The Compressor Package shall trip, if any of the enclosure is opened while the machine is running. However, the bidder shall provide enclosure door by - pass selector switch to facilitate routine checking while compressor is running.

1.6 CO2 FLOODING SYSTEM:

The package shall be protected by automatically operated CO2 flooding system designed as per NFPA-12 which should have minimum following features: -

- a. CO2 flooding system should be installed for the protection of CNG compressor by automatic actuation system. The package should be protected by automatic operated CO2 flooding system designed as per NFPA-12.
- b. Gas Detection by installation of hydrocarbon gas detector (IR type) with self-check function and transmitter with adjustable alarm levels (0-100%) with preset of 10%, 20% and 50%. Each enclosure compartment should have at least 2 nos. gas detectors.
- c. Installation of flame detector (UV-IR type) with self-check function and transmitter, alarm on detection of flame. Each enclosure compartment should have at least 2 nos. flame detectors.
- d. CO2 flooding system will consist of 2 nos. brand new CO2 cylinders of 45 Kg capacity. One cylinder will act as main & other as stand by, which shall have identical arrangement and connected to the system. The cylinders should be placed in a shed raised above ground level to protect from weather and direct sunrays as per Gas Cylinder Rules, 2016. Cylinders shall be fitted with automatic actuated Valves, Solenoid valves.

No extra utility as air, inert Gas shall be made available by MNGL/used by the supplier to operate the system.

Cylinder should be ISI marked as per IS: 7285 and PESO approved. The System shall be designed to operate on 24 V DC supply. FRLS (Fire resistant low smoke) cables shall be used for the wiring of the system.

- e. Interlock of CO2 Flooding system with compressor as per following sequence:
 - i. Compressor shall trip on detection of gas at preset level.
 - ii. *Compressor shall trip on detection of flame at preset level and automatic discharge of CO2 gas shall take place from the main cylinder simultaneously.*
 - iii. *Compressor shall not start if the CO2 Flooding System is faulty, not working, SWITCHED OFF etc. The compressor shall be able to start only when the CO2 Flooding System is in healthy working condition.*
 - iv. *Maintenance Override Switch shall be provided to keep the system off during maintenance.*
 - v. *Selector switch shall be provided to put Main/Stand by Cylinder in line at the turn of a switch as per requirement.*
- f. Alarm panel for CO2 Flooding System shall be integral with the main compressor panel. Necessary displays as system ON, OFF, FAULT, RESET, Gas/ Flame indication, Remote actuation of solenoid valve, distinguished hooter etc., shall be provided for CO2 flooding system.
- g. CO2 Cylinders shall be provided outside the package at a safe place, minimum 4.5 meters away (aerial distance), where it is not exposed to fire in case of fire in the compressor. Facility shall be made to operate the system both manually from remote with the help of a switch/ call point and with help of pull-down lever on cylinders.
- h. Suitable online weight (CO2) loss monitoring/ indication device to be provided to ascertain the health of the CO2 flooding system
 - i. All installation shall be compatible for hazardous area Class 1, Division 1, Group-D for Methane Gas.
 - ii. The system designed by the supplier shall be duly approved by MNGL.
 - iii. Technical specifications, Operation and Maintenance Manual, PESO Certificate, Approval/



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Manufacturing certificates for cylinders and cylinder valves, gas detectors, flame detectors, solenoid valves etc. shall be furnished by the supplier along with system. The system provided by the supplier is sufficient enough to handle the CO₂ Flooding System independently. Necessary tools (1 set) shall be provided with the system.

- iv. System shall be offered for testing to MNGL by the supplier after commissioning at site by creating actual Gas leak and Gas fire situations and actual discharge of CO₂ Gas from the Cylinders. This shall form a part of performance test and thereby acceptance of the package. The cylinders have to be refilled by the vendor at no extra cost to MNGL after performance test. If the system fails during testing, subsequent testing and refilling would be at vendor's cost.
- v. Warning and Operating instructions to be displayed at equipment as per the statutory/ safety regulations.
- vi. Piping of CO₂ flooding system shall be seamless high-pressure pipe of Schedule 40 of 50 mm dia. of appropriate length with a minimum safe distance of 4 Meter from CNG Compressor, the fittings like elbows, Tees, Union, sockets should be of same schedule and capacity for installation in a high-pressure system as per NFPA-12.
- vii. Flameproof online weighing system, complete frame with shed and all accessories should be of good quality, weighing scale should be of reputed make.
- viii. Specifications:

Non-Return Valve for CO₂ High Pressure Hose:

As per BIS specifications Operating Media: CO₂

Body Material: Brass, BIS: 319

Ball: SS 316

Pin: SS 316

Seal: Teflon (PTFE) Working Pr.: 60 Bars

Test Pressure: 90 Bars for 1 min Weight: 70 gm

Outlet Size: ¾ BSP at manifold end

Inlet Size: ½" BSP at CO₂ Discharge Hose end Temp. Range: -29 °C to 66 °C

Hose Adopter:

As per BIS specifications Operating Media: CO₂ Body Material: Mainly Brass Test Pressure: 250 Bar Max. Working Load: 150 Bar Temp. Range: -29 °C to 66 °C **Discharge Nozzle:**

As per BIS specifications Operating Media: CO₂

Body Material: Lead Tin Bronze as per BIS: 318:1981

Design Nozzle Pr.: Not less than 20.6 kgf/cm² at 27 °C

Test Pressure: 140 kgf/cm²

Marking for Code No. (on the basis of equivalent single orifice dia.): As per BIS: 6382:1982

Temp. Range: -29 °C to 66 °C

High Pressure Hoses:

As per BIS 7285:1974



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas
Engine Driven (GED) and Electric Motor Driven (EMD) Compressor
Packages for CNG and CGD Network of all GAS of MNGL.**

Bid No.: MNGL/CP/2026-27/36

Operating Media: CO₂

Hose Type: Double wire braided (perforated) rubber covered

Min. Bursting Pr.: 420 kgf/ cm² at 54 °C Length: 40 cm

Cross-section: ½"

End Connection: ½" BSP (F) xW21.614 TPI

End Fittings: Brass

1.7 Ambient Conditions

Complete compressor package shall be suitable to work under the following climatic conditions:

- Max. Height above Mean Sea level: 560 meters (Approx.)
- Max. site temp.: 48 °C
- Minimum site temp.: 0 °C
- RH: 90%

2 UTILITIES & BATTERY LIMITS

2.1 UTILITIES

- 2.1.1 Bidder shall make his own provision for Instrument and starting air with an electric motor driven Screw type air compressor, air drier and receiver system. Receiver to be sized for 6 consecutive starts (each start of at least 6 seconds) of engine within one hour. Air compressor and system should be designed for 13 to 15 kg/cm²g pressure with PRV at compressor package inlet. The flow rate of the compressor supplied shall be sufficient for 6 consecutive starts (each start of at least 6 seconds) of engine with air vessel capacity of 1000 liters (vertically mounted). Max. allowable noise level is 75dBA @ 1meter. Air drier shall be suitable for the required air flow and pressure.
- 2.1.2 All electrical and instrumentation terminals shall be as specified
- 2.1.3 Vendor to design compressor package to start and run without any external power, except for electric motor driven air starter compressor.
- 2.1.4 For running the air compressor and illumination 415 Volt (±10 %) 3-phase 4 wire (TN-S), 50 Hz (± 3 %) power shall be provided by Owner at a single point inside the electrical room on PDB (Power Distribution Board).
- 2.1.5 Purchaser shall provide the required control power for LCP (230 V, 1 phase (2 wire), 50 Hz A.C.) for UPS of supplier at single point in the electrical room. However, suitable surge protection device to be provided by the bidder of suitable rating for control power

2.2 BATTERY LIMITS

- 2.2.1 Supplier shall arrange its own UPS supply (of min. 3 KVA), testing, installation and commissioning compressor-controlled circuitry. UPS along with 2 hrs. battery back-up to be parts of vendor scope.
- 2.2.2 All customer interface connections (i.e., Gas Inlet & Gas Outlet) shall be brought out to the package edge. Gas inlet shall be connected from client's battery limit of piping with isolation valve and Gas outlet (priority panel outlet connection) shall be terminated through high pressure ¾" full flow ball valves with end connectors for cars and 1" full flow ball valves with end connectors for bus. Bidder to provide 2" flange with blind flange in loose to MNGL steel team during installation at site.
- 2.2.3 As and where specified on the data sheets all vents (i.e., Relief valve, distance piece, packing and starting air) shall be manifolded and terminated at skid edge outside the enclosure and vented to safe height at package roof. Vent shall be terminated at height of 2m from compressor package roof. Separate header for relief valve and



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packing vent to be provided. Silencer has to be provided in the starting air vent line.

- 2.2.4 All drains from different process equipment, distance piece and packing shall be manifolded and terminated at single point for customer interface duly flanged with isolation valve.
- 2.2.5 Drains should be through a common header and discharge to be allowed in a pit to avoid spillage around compressor package. An oil drain pot outside of the package shall be provided to collect all drains from packaging, distance pieces, processes etc. the capacity of the drain pot should not be more than 25 litres.
- 2.2.6 All the drain collection in the Oil Recovery Vessel is accepted. ORV mounted inside the package, with a capacity of 20lts for uninterrupted operation of machine is accepted. For all drains single point threaded connection with isolation valve is accepted.

3 EQUIPMENT'S CRITERIA

3.1 Gas Compressor

The compressor block model offered shall be from the existing regular manufacturing range of the compressor manufacturer and shall meet the following minimum service and manufacturing experience requirements:

3.1.1 The Compressor block shall meet all the technical requirements as below:

- i. The compressor blocks shall be of horizontal balance opposed design or Trunk Piston Design only. Vertical blocks are not acceptable.
- ii. Gas compressor block shall be lubricated, and air cooled only.
- iii. The compressor block design should ensure that:
 - The emission of process gas into the atmosphere does not take place from either of the packing seals / joints / relief valves / pressure vessels such as BDV etc. Not applicable in pressurized crankcase design.
 - There should not be progressive increase of the fugitive emissions / discharge of process gas into the atmosphere with usage / wear of packing seals. Not applicable in pressurized crankcase design.
 - The compressor efficiency / production should not drop with usage and adequate measures be taken to ensure that compressor through put / production does not fall below the guaranteed parameters submitted by the bidder at any point during the lifecycle.
 - In case the compressor block design is such that it requires Nitrogen purging, the bidder shall submit all the technical details of the Nitrogen Purging System and supply the same along with the compressor package.
 - The compressor block / package design shall be such that it shall not vent process gas into the atmosphere upon sudden stoppage / emergency shutdown / power failure.
 - All the vents / relief valve discharge points shall be connected to a common manifold and discharged through a vertical line of min 1 mtr over the highest point of the package. The line shall be designed to be able to handle the maximum flow of gas without creating backpressure. A thermal mass flow meter for measuring all the fugitive emissions / vent of process gas into the atmosphere (specifications mentioned separately) shall be provided in this line.
 - The compressor block should have a level glass to indicate the residual lubricating oil level.
 - Three stage compressor configuration is envisaged. Gas composition given under Design Case shall be used for Compressor selection, Sizing and performance guarantee estimates. Compressor shall be suitable for continuous operation with the indicated gas composition range and operating parameters given in the data sheet.
 - Compressor shall be suitable for frequent start - stop operation and shall not vent process gas while idling. In case bidder is quoting package with compressor block that may vent / discharge process gas into the environment during idling, the bidder has to confirm the same and declare the maximum extent (in kg/hr) to which their compressor design may vent the process gas during idling. In case, compressor crankcase being pressurized same is not applicable. Necessary arrangements to prevent any kind of vents during idling shall be as per manufacturer's standards.



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- i. Compressor block design shall be such that the cylinders and the compressor block are both air cooled.
- ii. Directly coupled as well as V-Belt Drive compressor blocks are acceptable. However, the compressor driver RPM shall not exceed 1500.
- iii. The gas cooler fan shall have mechanical drive/ Hydraulically driven only.
- iv. In case the bidder is a Packager utilizing the compressor, block manufactured by other OEM then:
 - The compressor block OEM should have supplied the compressor blocks which fulfil the criteria stated from i) to vi) above.
 - Bidder must submit confirmation letter from compressor block OEM towards above.
 - Bidder shall submit the technical data sheets of compressor block duly endorsed by the compressor block OEM.
2. For 1200 SCMH GED compressor- Suction line pressure may vary from 08 to 19 kg/cm² (g). The discharge pressure shall be 255 kg/cm² (g). Bidder may provide a suction pressure regulator to regulate the suction pressure. The suction pressure of 14 kg/cm² (g) shall be used for compressor sizing/ selection.
3. For 1600 SCMH GED compressor- Suction line pressure may vary from 35 to 43 kg/cm² (g). The discharge pressure shall be 255 kg/cm² (g). Bidder may provide a suction pressure regulator to regulate the suction pressure to 43 kg/cm²G. The suction pressure of 35 kg/cm² (g) shall be used for compressor sizing/ selection.
4. Above suction pressures are at the compressor package battery limits. Battery limit is defined at the inlet of compressor suction and downstream of filter, PRV and flowmeter. **MNGL will provide 4"x2" tee connection of steel line within compressor area. Bidder will provide 2" Blind Flange and 2" WNRF to MNGL for tee connection and testing of above ground station pipeline. From package for Gas Suction line, Bidder has to extend the 2" steel line with isolation valve, strainer, filter etc. up to gas suction line of package. The site layout drawings shall be shared during actual execution work at site.** Bidder shall consider all pressure losses at suction, inter stage and discharge at the specified capacity (with no -ve tolerance) for compressor/engine and indicate the same on the data sheets
5. The compressor Driver shall be suitable to start the compressor against the stabilized Pressure (30 Kg/cm²g) of the system. A gas recovery vessel of suitable capacity shall be provided to collect the gas of 1st, 2nd & 3rd stage of compression. The operating pressure of gas recovery vessel shall be 35 kg/cm²g maximum. In the event of sudden stoppage or otherwise during the operation/idling the blow down vessel shall not vent gas into the atmosphere.
6. The compressor driver shall be capable of running the compressor under loaded condition with each stage pressurized to its respective specified pressure and final pressure up to PSV set pressure.
7. Allowable speeds, temperature and vibration levels:
 - The rotational speed of both compressor & engine (driver) shall be limited to maximum of 1500 rpm.
 - The linear piston speed shall be 4.5 m/sec for lubricated compressors
 - The maximum discharge gas temperature for each stage shall be limited to 150-degree C.
 - Compressor maximum vibrations at cylinders and at frame shall not exceed 10 mm /sec. and 5 mm/s respectively unfiltered peak velocity. The Bidder shall provide for all structural support within the package so that these levels can be achieved.

3.2 **Gas Engine**

The offered gas engine shall be from one of the regular production range of either **CATERPILLAR or CUMMINS** make for mechanical drive applications. The gas engine rating offered shall be based on internationally published standard rating.

Gas Engine shall be identical or validly similar in Model no., power rating, speeds, service, type of cooling arrangement, mechanical design etc. as supplied in CNG Compressors in India.

4 **BASIC DESIGN**

4.1 **GENERAL**



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4.1.1 The Compressor shall meet all the technical requirements as specified in:

- i. Data Sheets
- ii. Technical Specification
- iii. Code and specification (as applicable) API-11P, OISD 179, NFPA 37, NFPA 52, ANSI, ASTM, NEC, NEMA, Indian Electricity Rules and Indian Explosives Act are referenced to & made part of specification.

Compressor, engine and auxiliaries design shall be in conformity with API 11P, second edition

4.1.2 Minimum Three stage Compressor configuration is envisaged. Gas composition given under Design Case shall be used for Compressor selection, sizing and performance guarantee estimates. However, compressor shall be suitable for continuous operation with the indicated gas composition range and operating parameters given in the data sheet.

4.1.3 Suction line pressure may vary from 08 kg/cm²G to 19 kg/cm²G with discharge pressure at 255 kg/cm²G. A suction pressure regulator shall be installed to limit the suction pressure to 19 kg/cm²G. The suction pressure of 14 kg/cm²G shall be used for compressor sizing/ selection.

4.1.4 Bidder's offer shall be based on firm and final compressor models on which basis the offer shall be evaluated. All bidders shall take full cognizance of this matter before submitting the bid.

4.1.5 Note that the pressures given on the data sheet are at the compressor package battery limits, bidder shall consider all pressure losses at suction, interstate and discharge at the specified capacity (with no -ve tolerance) for compressor/engine and indicate the same on the data sheets. No venting of the gas is allowed at any point during operation.

4.1.6 The compressor Driver shall be suitable to start the compressor against the stabilized pressure (30 Kg/cm²g) of the system. A gas recovery vessel of suitable capacity shall be provided to collect the gas of 1st, 2nd & 3rd stage of compression. The operating pressure of gas recovery vessel shall be 35 kg/cm²g maximum. No venting of gas is allowed.

4.1.7 The compressor driver shall be capable of running the compressor under loaded condition with each stage pressurized to its respective specified pressure and final pressure upto PSV set pressure.

4.1.8 Near Zero Gas Loss compressor package design is envisaged. The Compressor packages with gas loss in excess of 1% shall not be accepted

4.2 ALLOWABLE SPEEDS, TEMPERATURE AND VIBRATION LEVELS

4.2.1 The rotational speed of both compressor & engine (driver) shall be limited to maximum of 1500 rpm.

4.2.2 The linear piston speed shall be limited to 4 m/sec for non-lubricated compressors and 4.5 m/sec for lubricated compressor. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.2.3 The maximum discharge gas temperature for each stage shall be limited to 150°C.

4.2.4 For balance opposed compressor design, Compressor maximum vibrations of cylinders shall not exceed 10 mm/sec. unfiltered peak velocity. Maximum Vibration level of installed compressor frame shall not exceed an unfiltered peak velocity of 5 mm/sec. or 200-micron unfiltered peak to peak vibration whichever is less. The Bidder shall provide for all structural support within the package so that these levels can be achieved. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3 PISTON ROD, BEARINGS AND CROSS HEADS (AS APPLICABLE)

4.3.1 Piston rod should be TC3 coated in the areas that pass through the packing and the surface hardness should be Rockwell C58~C64 minimum. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3.2 Crosshead shall be as per manufacturer's standard material and designs. Adequate openings for removal of the crossheads shall be provided. Crosshead guide cover should be preferably transparent. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3.3 Piston rod and cross head pin loading at any specified operating condition including the relief valve set



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condition shall not exceed 80% of the maximum design rod load of the offered compressor. Rod loads shall have sufficient reversals in direction for all specified operating conditions including PSV Settings and part load operation. The calculation for rod loading at various conditions may be submitted.

4.4 PACKING CASES AND PRESSURE PACKING (AS APPLICABLE)

4.4.1 All oil wiper intermediate gas cylinder pressure packing shall be segmental rings with stainless steel garter springs. The pressure packing case shall be provided with a common vent and drain routed outside the package enclosure. ERW steel, seamless steel tubing conforming to ASTM A-192 or series 300 SS tubing conforming to ASTM A-269 with minimum thickness as specified in Cl. 7.11 of API-11P shall be used for vent piping. It may not be applicable for compressor with pressurized crank case design.

4.4.2 Packing vent piping inside of the distance piece shall be designed for the maximum allowable working pressure of the cylinder. It may not be applicable for compressor with pressurized crank case design.

4.4.3 Bidder to indicate the allowable packing vent in their designs in SCMH along with the bid.

4.5 COMPRESSOR FRAME LUBRICATION (AS APPLICABLE)

4.5.1 Compressor frame lubrication shall be pressurized system, with main oil pump driven directly by the compressor shaft.

4.5.2 All lube oil piping after oil filter shall be 300 series stainless steel conforming to ASTM A 269/ Oil galleries.

4.5.3 As applicable, heating shall be provided for reservoir when the minimum ambient temperature is less than the Bidder's required minimum start up temperature.

4.6 DISTANCE PIECES (AS APPLICABLE)

4.6.1 As applicable, compressor manufacturer's standard Type-1 or Type-2 of API 11 P shall be provided as a minimum.

4.7 CYLINDER AND PACKING LUBRICATION (AS APPLICABLE)

4.7.1 Secondary lubrication system with double puppet check valve protector, HP Filter (for all lubricating points) & DNFT flow switches with standby pump. Secondary lubrication system with divider block shall be provided. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.7.2 Lubricators shall be driven by crankshaft and bidder shall highlight any pre lubrication requirements of the cylinders and the method of achieving the same.

4.7.3 Lubricators shall have a sight flow indicator for each /Common lubricator point and a stainless-steel double ball check valve shall be provided at each lubrication point.

4.7.4 Digital no flow switch shall be provided to stop the compressor in case of loss of cylinder lubrication in any stage/ packing. Manufacturer's standard arrangement with a common digital NO flow switch (time based) is accepted. When there is no – pulse (from cylinder lubrication - divider block) for certain time interval, the switch should toggles & the compressor should be tripped on lubrication fault.

4.7.5 Lubricator reservoir capacity shall be adequate for 150 Hrs. of normal operation, and shall be equipped with low-level alarm. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.7.6 Bidder shall furnish along with their bids the details of the recommended Lubricating oil type, International Grades & Specifications along with their quantity and changing frequency/ schedule. The recommended oil shall be compatible with gaskets, 'O' rings, seals, packing, lubricating parts and other parts coming into contact.

4.8 COOLING SYSTEM

4.8.1 Engine Jacket/Compressor Cylinder

Compressor cylinders shall be air cooled. The usage of cooling water shall be limited to the engine cooling and the radiator thereof cooled by an air-cooled heat exchanger.

4.8.2 Inter/After Gas Coolers



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Air-cooled Interstate and Final stage discharge coolers shall be provided which shall limit the gas temperature after the after cooler to ambient+10-degree C. For calculating the surface area of the air cooler, the ambient air temperature of 47.5°C and 90% RH shall be considered. Cooler design shall be based on 20% extra design based on the thermal duty at most severe condition corresponding to suction pressure. Gas sections of coolers shall be designed as per API-11P requirements and shall be inspected by any approved 3rd party inspection agency. Engine oil cooler and jacket water coolers shall be so designed that the vendor's maximum permissible temperature (47.5°C+10°C) is not exceeded at the maximum ambient temperature of 49°C. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.9 SEPARATORS & OIL REMOVAL SYSTEM

4.9.1 Carbon Steel separators / KOD at suction and inter stage and with SS 300 series, mist extractors, auto system (level/time based) shall be provided for the capacity as required. All the separators with auto drain system over manual drain system shall be considered for safety reasons, only ORV with manual drain considered. Drain system will be timer based as per manufacturer's standard offering. Manual drain valve is to be provided for draining oil in depressurised circuit for draining oil when compressor is in stop condition.

4.9.2 All pressure vessels shall be designed as per ASME VIII Div. 1 practice and sourced from =bidder approved vendor

4.9.3 The offered scrubber and mist removal shall restrict the oil level to < 5 ppm in the discharge gas of compressor and the equipment shall be designed accordingly.

All vessels including pulsation dampers shall be fully (100 %) radiographed as per ASME VIII UW (a) Minimum design temperature for separators shall be 100 degree C and minimum design pressure shall be maximum operating pressure plus 15% for inter stages and plus 10% for final stage.

4.9.4 Gas Recovery System: It shall comprise of the following.

Blow Down Vessel shall be sourced from a bidder approved vessel manufacturer and shall conform to ASME SEC VIII DIV I Edition 2015.

The name plate of the BDV shall have the manufacturer's name and following parameters: Design Pressure, Design Temperature, Hydro Test Pressure, Corrosion Allowance, Radiography, Heat Treatment, Empty Weight & Capacity / as per Manufacturer standard.

Bidder shall provide blow down vessel to act as:

- A buffer tank during start-up.
- Gas flow dampener during compressor operation.
- Surge tank for depressurization of each of the compressor stage piston cylinders during shutdown.
- Blow-down tank size shall be as per Gas Cylinder Rules and duly certified for the purpose. The gas recovery vessel shall be provided with pressure relief valve and necessary instrumentation to avoid cold flaring of gas.
- Capacity of the BDV shall be such that no gas is vented into the atmosphere either that start or stop or any time during operation.
- Bidder shall provide gas recovery system with gas recovery vessel of sufficient capacity (operating BDV pressure should not exceed 25 Kg/cm²g) so as to limit the gas pressure inside vessel to 30 kg/cm²g after tripping of compressor at PSV trip set pressure of final stage discharge. Gas recovery vessel shall be designed as per the ASME code and will be inspected by Third Party Inspection Agency, approved by Purchaser. Calculation for BDV volume shall be considered 20% higher than calculated volume and it should be calculated on higher range (08 to 19 bar).
- One vent line from gas recovery vessel with double isolation valves shall be provided. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.



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- It is preferred that BDV shall be placed on top of the package enclosure. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- The bidder shall carry out retesting of pressure vessels periodically i.e every year or earlier as per Gas Cylinder rules 2016/ Static and Mobile Pressure Vessels Rules.

Note: Under slung, package base mounted blow down vessels are not acceptable. The BDV shall be mounted on the top of the package in a manner that shall facilitate periodic visual inspections as well as testing as per norms.

4.9.5 All separators / KOD's shall be provided with 3 mm corrosion allowance.

4.10 PULSATION, VIBRATION CONTROL AND ANALOG STUDY

4.10.1 Bidder shall provide pulsation, suppression devices at each suction and discharge of compressor cylinders.

4.10.2 The design of pulsation suppressing devices shall be based on the acoustic and mechanical evaluation carried out as per API 618-design approach 3.

4.10.3 These devices must reduce pressure pulsation in piping within 3%. These pulsation dampers shall be designed to limit pressure drop to 1%. The minimum acceptable volume of pulsation suppression device shall be 10 times the cylinder swept volume.

4.11 GAS ENGINE

4.11.1 Only Cummins & Caterpillar Make of Gas Engines are acceptable.

4.11.2 The gas engine shall be spark ignited type, gas fired 4-stroke engine. The integral gas engine & compressor type design is not acceptable.

4.11.3 The gas engine shall be equipped with the following:

- Water cooled exhaust manifold/s.
- Naturally Aspirated / Turbo Charged / Turbo Charged Intercooled Design.
- Water cooled turbo charger exhaust housing.
- Engine driven radiator fan and radiator assy.
- Auxiliary water-cooling system.
- OEM approved ignition system.
- Electronic Air Fuel Ratio Controller / Electronic Gas Carburetor.
- Electronic / Mechanical Governing System F.
- Inline / V-type configuration.
- Six / Eight-cylinder configuration.
- Air starting system.

4.11.4 The exhaust line shall have an exhaust bellow at the turbo charger outlet to isolate vibrations.

4.11.5 The site rating of engine shall be 110% of greatest BkW required by compressor including the auxiliary loads at any of the compressor operating conditions or 105% of greatest BkW required by compressor at relief valve set pressure including auxiliary loads at any of the compressor operating conditions, whichever is higher. The maximum operating speed of the engine shall be limited to 1500 rpm.

4.11.6 The site rating of engine shall be worked out considering the de-rating specified under the latest edition of British Standard 5514/ISO 3046 and deducting the power absorbed by all the engine driven auxiliaries. The site rating of engine shall be based on 49°C ambient temperature, RH 90% and an altitude of 560 meter taking design case gas composition as specified, the site rating so arrived shall be suitable for the maximum Compressor BkW as arrived at and which can be applied 24 Hrs. a day seven days a week with a overrating capability of up to 10%.



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Note: The Design Gas specified for the compressor shall be used as engine fuel.

4.11.7 The bidder shall provide a confirmation letter from the engine OEM towards the fuel consumption of quoted gas engine model at 49 Deg C ambient temperature at the declared total package power requirement including the shaft power and the auxiliaries.

4.11.8 All the engine auxiliary equipment's including the cooling fans shall be engine driven.

4.11.9 The engine shall be provided with the shielded ignition system of breaker less type, low tension solid state having vapor proof enclosure with a high-tension coil at each power cylinder. All low-tension wiring shall be enclosed in grounded steel conduits. But the spark plug connecting cables shall be enclosed in grounded, metal shielded flexible conduits.

- Gas engine shall be equipped with an electronic air fuel ratio controller / electronic gas carburetor. The electronic AFR / EGC shall be capable of maintaining constant air to fuel ratio across entire range of operating parameters. It shall be equipped with a heated type Oxygen Sensor to measure the level of free Oxygen in the exhaust stream. The AFR/EGC shall be supplied with a Gauge / Display to continuously display the operating air fuel ratio of the gas engine. The AFR/EGC electronics shall have the provision to measure exhaust temperature to limit damage to the catalytic converter. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.11.10 The engine shall be supplied with residential grade silencer-cum-catalytic converter to minimize the space and to prevent loss of temperature over the catalytic converter. The silencer-cum-catalytic converter design shall ensure that the Catalyst Tablet is housed within the silencer. Silencer-cum-Catalytic Converter shall be placed over the enclosure, provided with blanket of rockwool / ceramic wool and cladded with Aluminum sheet of minimum 20 swg thickness. The silencer-cum-catalytic converter shall have minimum 3/4" threaded and plugged ports for measuring the pressure drop across the catalyst and to measure the backpressure. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.11.11 The air filter assembly / suction pipe for air filter shall be located inside / outside the Canopy.

4.11.12 Bidder shall provide the fuel gas supply line consisting of valves, pressure regulator, pressure regulator, shut off valve and necessary instrumentation etc. as required for the engine to ensure continuous supply of conditioned gas to engine.

4.11.13 Bidder shall also include supply of catalytic converter along with all accessories required for its installation to reduce the levels of Carbon Monoxide, Hydrocarbons and NOx levels in the exhaust stream by 75%. For specification of catalytic converter.

The catalyst shall be of Stainless Steel (Ceramic substrates are not acceptable) Honeycomb Structure of minimum 19" diameter, 3" wide with 200 cells /sq. Inch cell density.

Catalyst supplied by Cummins with emissionised recipe of GTA855 and G855 has Stainless Steel honeycomb structure, cell density of 200 cpsi, diameter of 14-9/16" and width of 3.5" whereas final assembly of Catalytic Converter has outer diameter of 20" is accepted.

A confirmation from engine supplier towards the catalyst tablet construction, design and sizing being capable of reducing the emissions from their engines by 75% shall be submitted along with the bid. The catalyst tablet shall be so placed inside the silencer-cum-catalytic converter to facilitate easy removal, washing / regeneration and fitment without interruption in operations.

4.11.14 The exhaust line inside the acoustic enclosure shall be insulated with wire braided ceramic tape and cladded with Aluminium sheet of minimum 20 swg.

4.12 COUPLING

- 4.12.1** Directly coupled driver-compressor arrangement and Power transmission should be preferably thro' flexible coupling. V-Belt driven compressor is also acceptable. In case of belt drive idler pulley must be provided for adjustment of belts. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.



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4.13 ENCLOSURE OF CNG COMPRESSOR PACKAGE

4.13.1 The Compressor Package enclosure shall be constructed out of MS Sheets and Iron Frames as per OEM Specifications. The enclosures shall:

- Have dedicated base frame for mounting the compressor block, engine and accessories. (The base frame with integrated blow down vessel is not acceptable as it does not permit either the inspection or testing as per Gas Cylinder Rules).
- Each compartment shall be provided with two numbers IR Type L.E.L. gas detectors and two numbers UV - IR flame detectors.

4.13.2 The maximum allowed temperature within the enclosure shall be 10 °C above ambient temperature.

4.13.3 The enclosure shall restrict maximum noise level to 75 dB (A) at 1 meter from the enclosure.

4.13.4 The enclosure shall have doors for normal access and removable wall panels for ease of maintenance.

4.13.5 All pressure, temperature of gas shall be visible from outside of enclosure. lube oil pressure, coolant temperature indicators etc. parameters shall be viewed from PLC/locally.

4.13.6 Enclosures shall have internal flame proof lighting arrangement.

4.13.7 For handling of all heavy parts for maintenance purpose lifting arrangement i.e. beam fitted with chain hoist shall be provided in enclosure.

4.13.8 All Coolers, knock out Drums, if applicable, Scrubbers, Cooling System, lubrication system along with interconnecting piping shall be inside the enclosure.

4.13.9 Enough headroom shall be made available for easy access and maintenance of all equipment.

4.13.10 Components such as pressure gauges, temperature, pressure switches, filters, automatic ball valves, safety valves etc., which require in-situ adjustment, maintenance and reading, shall be easily accessible.

4.13.11 The enclosure shall be lined with Rockwool / UL approved fire-resistant PU foam to curtail noise. PU foam should be fire resistant and adequate enough to maintain 75 dBA.

4.13.12 The enclosure roof shall have provision for mounting of the blow down vessel, silencer cum catalytic converter, air filter, vent mass flow meter etc. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

All Coolers, Knock Out Drums, Scrubbers, Cooling System, lubrication system along with interconnecting piping shall be inside the enclosure. Enough headroom shall be made available for easy access and maintenance of all equipment in the enclosure. The piping layout with respect to the compressor, intercoolers, KOD and auxiliary's location shall be subject to Purchaser's approval during detailed engineering stage.

- Conduits and tubing shall be arranged in orderly and systematic manner and shall be routed neatly to enter the back of display or monitoring panels
- Routine service item such as, but not limited to, crank case oil filters, inter stage gas filters, inlet and outlets gas filters and drive belt shall be located to facilitate easy one- man servicing.
- One person should be able to access crank case oil inlet and drains to allow addition or drainage of oil without removing panels or adjacent components and without the need of the pump.
- Items which must be operated & monitored during operation shall be readily accessible without opening the door.
- Suitable gradients shall be provided on the enclosure roof for rain drainage and to avoid water pockets.

4.14 PIPING

4.14.1 All gas piping shall be designed, fabricated & tested in accordance with ANSI B 31.3.



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- 4.14.2 Gas piping shall be seamless carbon steel manufactured in accordance with ASTM A- 53 Gr. B or ASTM A - 106 Grade B. All Gas piping shall be flanged connections.
- 4.14.3 All rigid piping, tubing & other components of compressor package shall be designed for full range of pressure & temp and loading to which they may be subjected with a factor of safety of at least 4 based on minimum specified tensile strength at specified ambient temperature.
- 4.14.4 All rigid piping shall be continuous between their respective components & free of connections except welded joints. All high-pressure joints shall be welded unless otherwise not feasible.
- 4.14.5 The instrument air tubing material shall be Stainless Steel series –304.
- 4.14.6 All high-pressure double ferrule fitting & 2/3-way valves shall be from SWAGELOK or PARKER make & shall be SS 316 material only.
- 4.14.7 Bidder shall furnish Y-type strainer /a conical strainer fitted with adequate size mesh at the gas inlet before the filter.
- 4.14.8 External drain & vent piping shall be Carbon Steel and not less than 1/2" nominal size.
- 4.14.9 Mercaptan/THT dosing is envisaged hence all materials coming in contact with gas shall be compatible to such gas with Mercaptan/THT dosing and be of compressor manufacturer's standard. The use of SA 515 material is prohibited.
- 4.14.10 All high-pressure gas tubing shall be of SS 316 of Sandvik make and hardness less than Rb 80.

Note: In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

5 CONTROL PHILOSOPHY

- 5.1 The compressor package control system shall be designed for unattended operation in automatic mode and in case of any fault it will go in a safe mode.

Compressor Package shall be provided with a PLC based LCP of approved make (i.e. Siemens/Allen Bradley/ABB/GE/Honeywell/Schneider), which shall be weatherproof to IP65 and shall be certified suitable for specified hazardous area classification. PLC should be integral with the package with necessary Hazardous Area Certificate (HAC) compliance. HMI shall be of touch screen type. All operational buttons shall be on touch screen except the Emergency stop button. Touch screen display system shall be weather proof to IP65.

PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply for bump less changeover from one CPU to the other. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

Interface. PLC components/system shall be tropicalized, MIL standard adopted with complete wiring and necessary terminals. Wiring to be colour coded with cross ferruling in position.

PLC shall be capable of carrying out on line routines for at least ten separate loops without affecting the scan, cycle & up dating time etc.

PLC shall be capable for display of flow meter data (i.e. Gas Suction, Gas Discharge, Gas consumed by the engine), various trips/abnormal conditions, compressor running hour etc. in following manner

- Shift wise (for 3 shift operations i.e., 06:00-14:00, 14:00-22:00 & 22:00-06:00) - shall be available for at least last 96 hours
- Daily basis- shall be available for at least last 31 days
- Fortnightly basis- shall be available for at least last 3 fortnights
- Monthly basis- shall be available for at-least last 2 months



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PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with dial up connectivity. One card for transferring and accessing data from minimum twenty devices with RS 485 port shall be provided. PLC SCADA connectivity is required as per the attached specification at Annexure-IX.

PLC would be provided with integral keyboard and display for configuring, programming and to view process & machine parameters. Suitable communication port shall be provided to download programs etc from PLC through a Laptop. Laptop not included in Bidder's scope.

All source & object codes including logic flow chart, ladder diagram etc are to be furnished by the Packager and PLC shall be capable of incorporating function Block diagram, sequence function chart, ladder diagram and structural text as per IEC 61131.

There shall be three independent ports available in the PLC with all the parameters available on each individual port.

Out of three ports from first port there shall be arrangement to retrieve the data in external storage device such as memory card/ pen drive. Data may be required in suitable format as per MNGL Engineer In-charge discretion. This will include critical temperature, pressure, flow, running hour etc information. Depending upon the parameter's calculation of Gas loss, Efficiency, normalized efficiency etc is also required.

Second port shall be for remote monitoring of the parameters. Besides PLC display, all the parameters which are measured, should be monitored on a HMI/MMI for remote monitoring as well as of remote operation. Data should be stored at 2 places simultaneously in case of failure of one device, data can be retrieved from second device. Trends, alarms, events should be logged for at least 3 months on day/hour/minute basis.

Third port shall be available for any third-party interface which shall be OPC compliant for networking or SCADA. The recorded data or part of the data may be required to transmit to remote locations over open/secured network through internet/ Ethernet using local cable/ data card/ sim-card (GPS/GPRS/CDMA). Modem / router or any other medium to transmit the data should be available. Vendor shall provide protocol details to MNGL and also provide necessary support for third party interface for remote data connectivity.

Redundancy in PLC is required. PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply, Interface. PLC components/system shall be tropicalized, MIL standard adopted with complete wiring and necessary terminals. Wiring to be colour coded with cross ferruling in position. PLC shall be capable of carrying out on line routines for atleast ten separate loops without affecting the scan, cycle & up dating time etc. PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with dial up connectivity. One card for transferring and accessing data from minimum twenty devices with RS 485 port shall be provided. In case of failure of master / active controller/CPU, standby controller/CPU should take over the control in bump less manner. All values & data should be available through both the controllers immediately, i.e. there should be no data loss.

Successful bidder to include in scope live demonstration of remote monitoring of all PLC logged parameters in one machine at his works. MNGL may ask for the same. However, this may be required to be demonstrated at site.

There shall be an interlocking provision in PLC program for tripping of machine due to communication break or power failure of flow meters.

Fail safe / Wire break alarm for safe operation. Machine should trip in case the loop is broken for GD/FD/PT/TT.

Each cable shall be neatly tagged& dressed of each for instrument. There shall be identification tags for individual instruments.

In PLC pressure process values should be taken from pressure transmitters and should be independent from pressure gauges installed on local gauge panel. Temperature process values should be taken from temperature element like RTD/ thermocouple and should be independent from temperature gauges installed on local gauge



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panel.

- 5.2 The compressor package control system shall be so designed that the first item to go into alarm condition shall lock out to indicate the cause of the trip though the cause of the trip may have disappeared. The lock out condition shall be manually reset. A change over set of contacts shall be provided for Owner's use to give a remote indication of alarm and trip.
- 5.3 In auto mode, compressor shall start automatically in case high bank storage pressure falls below 220 kg/cm² and stop as soon as pressure of stationery cascade reaches 255 kg/cm².
- 5.4 The priority fill system (In bidder's scope) shall ensure the filling of vehicle, storage cascade and mobile cascade in correct order.
- 5.5 In case of fault, a warning hooter shall operate, the sound of which should be audible at distance of at least 15 meters. Further the fault alarm and emergency stop PB shall be duplicated in the CNG station control room. Acknowledgement/resetting of fault shall be possible only from compressor panel. Emergency stop PBs shall be mushroom head turn lockable type.
- 5.6 Once the fault is acknowledged or the engine and/or compressor are under normal maintenance, the valves of priority panel shall take the position so that gas available in the stationary CNG storage cascade can be dispensed.
- 5.7 The pressure in each bank shall be monitored from down-stream of priority panel.
- 5.8 Bidder shall provide emergency shut down (ESD) system in the control room as well as locally mounted on the compressor panel and one no. on the enclosure. Total 3 nos. of ESD switches to be provided as a minimum.
- 5.9 Fail-safe system shall be designed and incorporated to isolate cascade storage from dispenser, stop compressor, isolate the compressor suction line and cut off fuel gas supply to engine on activation of ESD switch.
- ESD switch shall have to be manually reset to restart the compressor package again.
- 5.10 Bidder shall provide Application program for PLC, HMI (Human Machine Interface) on LCP (one set per package) along with all interfacing adaptors and cables. Bidder shall also provide one set of source & object codes for PLC, HMI on LCP (in both forms, hard & soft).
- 5.11 All pressure and temperature at compressor inlet, outlet, at each stage before and after cooling, all engine related pressure temperature, all cooling water temperature at inlet and outlet to be available on the PLC.
- 5.12 PLC shall have historical as well as event recording system for at least last 200 events as per attached section: General specification for instrumentation.
- 5.13 Remote Monitoring

The compressor package should be equipped with GPRS based Remote Monitoring and Analysis Solution for relay of the data to a remote server and monitoring of the PLC parameters. This is in order to facilitate Predictive and Preventive maintenance and also to enhance safety in operations.

The Remote monitoring system shall fulfill the following minimum requirements:

- 24 x 7, every minute relay of PLC data to dedicated Server.
- Database of all operational parameters of the PLC shall be maintained in Server Storage.
- Supplier shall provide web access to Purchaser and create log in ID's as per Purchaser's requirement (Max. 20 log in ID's).
- The Web access shall allow Purchaser to view all the historical parameters of the compressors in formats as per Purchaser requirement.
- The Server should be programmed to automatically mail the daily log book parameters to Purchaser's servers at designated address.



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- There should be feature of user defined virtual set points in the server to trigger pre- alarms. These set points shall be in virtual mode in the server and shall in no way interfere with the working of compressor or OEM defined set points in package PLC.
- The server shall send e-mail and SMS intimation to Purchaser's designated numbers in case of fault/breakdown.
- The Webpage shall display Daily production / gas loss and package wise gas loss along with daily log.
- The Webpage shall display amount of Natural Gas consumed by engine in Kgs to produce one Kg of CNG.
- The Webpage shall also highlight the pipeline pressure available at station Vs. production in Kgs. The bidder shall make provision to tap & read Station Pressure.
- The Server shall have provision to push data to Purchaser's Servers for integration / mapping of production rates and losses etc. to Purchaser's SAP system.
- Logging of gas compressed by respective compressors.
- In case MNGL need the live data access, same shall be provided by the bidder.
- Note: SCADA is not in bidder's scope. Ethernet port is to be provided for SCADA communication. SCADA compatibility is to be provided for remote monitoring.

6 INSTRUMENTATIONS

- 6.1. All Instruments shall be suitable for an area classification of "Class 1, Division 1, Group D as per NEC "OR "ZONE 1, Group IIA/IIB as per IS/IEC".
- 6.2. All package mounted transmitters/transducers & temperature element shall be intrinsically safe " ia" as per IEC 79-11 and solenoid valves, switches and related junction boxes shall be certified flame proof (Eexd) as per IEC 79-1 by a statutory body viz. FM, BASEEFA etc. for the specified hazardous area classification. Other special equipment's/instruments, where intrinsic safety is not feasible or available the same shall be flame proof (Eexd) certified suitable for the specified hazardous area by a statutory body as per IEC 70-1. All analog as well as digital input to PLC shall be connected through barriers. All analog barrier shall be isolator type.
- 6.3. The compressor package instrumentation & control is to be configured for manual as well fully automatic control system including starting, shutdown as applicable for unattended operation. Control system shall be PLC based with make and model no. duly approved by MNGL.
- 6.4. Instrumentation electronics shall be certified by a recognized authority such as BASEEFA, PTB, LCIE, CESI, INIEX, and SMRS./ CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI).
- 6.5. All the instrumentation shall be capable of operating for full range of operation. For detailed instrument specification refer attached Section: General Specification for Instrumentation.
- 6.6. If required, separate junction boxes shall be provided for each type of signal i.e., analog, digital, solenoids, RTD thermocouple and power supply. Instrument junction boxes should not have any high voltage connection.
- 6.7. All pressure gauges and pressure transmitters shall be provided with block & bleed valves and have accuracy of + or - 1% of Full Scale Deflection (FSD). Centrally located gauges to monitor machine performance from single location is accepted. Also, brass type needle valve for isolation of Pressure gauges and pressure transmitters is accepted.
- 6.8. The temperature gauge shall be generally gas in steel filled type, weatherproof & with capillary extension. Capillary tubing shall be min SS 304 with stainless steel flexible armoring. The gauge shall have accuracy of + or - 1% Full Scale Deflection (FSD). The range shall be 1.5 times of operating temperature.
- 6.9. All field instruments power shall be limited to 24 VDC. Power conversion unit if required shall be in the scope of the vendor. All instruments and enclosures shall be dust proof and weather proof to IP 65 as per IEC-529/ IS 2147.
- 6.10. Units of measurement shall be:
GAS FLOW -Kg/hr & SM³/hr
PRESSURE -Kg/cm² g



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TEMPERATURE -0°C

6.11. The package shall be supplied with 4 nos. mass flow meter, one each for compressor suction, discharge, engine fuel consumption and for measuring vent loss. While the suction, discharge and fuel consumption meters shall be Coriolis principle based approved for custody transfer application, the mass flow meter for measuring vent loss shall be thermal type.

6.11.1 Each Mass Flow meter shall include a sensor with integral transmitter i.e. meter electronics certified intrinsically safe/explosion proof by statutory authority suitable for the required hazardous area as per IS-2148 /IEC-79. Also, the offered sensor and the transmitter shall be weather proof to IP 65 as per IS-2147/IEC-529. Statutory authority for local installation is PESO.

6.11.2 Allowable pressure drop for the flow meter at the inlet of the engine is 0.2 kg/cm² and allowable pressure drop for the flowmeter at the inlet and outlet of the compressor shall be 1.0 kg/cm². Offered mass flowmeter shall be necessary for Custody Transfer application but not exceeding 0.5% of span.

6.11.3 Calibration for the offered mass flow meter shall be in Kg/hr and SM³/hr. Pressure, Temperature compensation shall be provided by the meter.

6.11.4 Flying lead type electrical termination is not acceptable. All electrical connections shall be ½" NPTF. Cable glands shall be provided for electrical power, signal and control connections. Cable glands shall be double compression type and certified weatherproof and explosion proof for the required area classification as per IS-2147 and IS-2148.

6.11.5 Offered Mass flow meter shall be completely free from corrosion of measuring tube due to alternating stresses continuously occurring in the tube. Also measuring tube shall be completely free from erosion, which may result due to fluid velocity.

6.11.6 The design of meter electronics shall be in compliance with the electromagnetic compatibility requirements as per IEC-801.

Meter Electronics shall include all the associated pre-amplifiers converters lineariser etc.

6.11.7 Installation details like straight run requirements, recommendation for horizontal /vertical installation, minimum distance between upstream and downstream pipe bends from Mass flow meter to be provided.

6.11.8 Vendor shall calibrate each Mass Flow meter at his shop or any recognised test house with the fluid (Use design process conditions) for which it is to be used as per Clause no.9 of MPMS (Draft standard Nov. 2000). In case it is not possible to calibrate the Mass Flow meter with actual fluid. Vendor must indicate:

a. Fluid used for calibration

b. Correction factor/Adjustment required for actual process fluid. In any case, inaccuracy when extended to actual process shall not exceed the specified limits (as per manufacturer's standard).

6.11.9 Vendor shall submit the following test certificates and test reports for purchaser's review:-

a. Material test certificate with detailed chemical analysis from foundry (MILCertificate).

b. Certificate of radiography / x-ray for any welded joint.

c. Hydrostatic test report with pressure of 1.5 times the design pressure.

d. Calibration report including calibration factors for each Mass flow meter certificate from statutory body for offered sensor and transmitter for required area classification.

6.11.10 Individual (2/3 core) cabling is required for each field instrument from field JB to avoid multiple JB's and multicore cables in field for easy trouble shooting & replacement.

6.11.11 Each cable shall be neatly tagged & dressed for each instrument.

6.11.12 There shall be provision of relay for DO cards between PLC & SOV & barriers/ isolators for DI cards between field & PLC. The barriers and isolators should be either single or double channel in place of multichannel for easier replacement.

6.11.13 All the instrumentation shall be capable or operating for full range of operation.

6.11.14 Separate junction boxes shall be provided for each type of signal i.e. analog, digital, solenoids RTD, thermocouple, intrinsic safe and for power supply. No cable shall share power & signal.



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6.11.15 Suitable bypass for interlocks shall be provided for start-up.

6.11.16 Compressor package shall be provided with the following indicators:

- Pressure Gauges at each gauge suction and at final discharge
- Temperature Indicators (Local Panel) at each stage discharge
- Digital Temperature Transmitters at each stage suction and after final stage cooler, providing display at HMI, and having interlock with compressor trip upon exceeding 59 degrees celcius.
- Oil pressure indicator on each pressure lubrication system
- Oil levels indicator, field mounted
- Hour meter shall be available at HMI. Separate hardware not considered.
- Non- resettable electromechanical hour meter on local control panel.
- Hydraulic oil cooler inlet & outlet temperature on local gauge panel (if required)
- Hydraulic oil pressures each stage on local gauge panel (if required) The Compressor package shall be provided with the following trip devices:
 - a. Low oil level protection devices
 - b. High oil temperature devices
 - c. Low suction pressure protection devices
 - d. High discharge temperature protection device
 - e. Coolant flow low devices
- Flame detection
- Gas detection
- Emergency stop devices
- Fail safe/ wire break alarm for safe operation
- Interlocking provision in PLC program for tripping of machine

The compressor package shall be furnished with the following trip logic that shall stop the compressor and suction of compressor shall be isolated:

- On low oil level
- On high oil temperature
- On low suction gas pressure
- On high discharge pressure
- On high discharge gas temperature
- On coolant flow low
- On fire detection
- On gas detection
- On pressing manual stop button at local control panel
- On pressing emergency stop devices

6.11.17 Each compressor package shall be provided with an audible and visual alarm system for annunciation on compressor abnormalities.

6.11.18 Junction box shall be of explosion proof type with 10-20% extra terminal strip & cable gland shall be of double compression type.



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6.11.19 Gas detectors and flame detectors should be mounted with the canopy.

6.11.20 ESD button (3 Nos.) shall be provided (Customer Interface room, locally mounted on package and Panel room). A separate hooter for customer interface room shall be provided with annunciation window alarm of individual protection device.

6.11.21 All instrument shall be of internationally reputed manufacturer

6.11.22 Emergency shut down devices

6.11.23 The emergency shut down (ESD) system is also in scope of vendor. This shall be in accordance with NZS 5425. A fail-safe system shall be designed and incorporated to isolate cascades storage from dispensers, stop compressor isolate the compressor suction storage line and cut off power supply on activation of ESD switch. This ESD switch shall have to be manually reset to restart the compressor package again.

6.11.24 Local Control Panel

- There shall be three independent ports available in the PLC with all the parameters available on each individual port.
- Out of three ports, from first port there shall be an arrangement to retrieve the data in external storage device such as memory card/ pen drive. Data may be required in suitable format as per MNGL engineer in charge discretion. This will include critical temperature, pressure, flow, running hour information etc. Depending upon the parameters calculation of gas loss, efficiency, normalized efficiency etc. is also required.
- Second port shall be for remote monitoring of the parameters. Besides PLC display, all the parameters which are measured should be monitored on a HMI/ MMI for remote monitoring as well as of remote operation. Data should be stored at 2 places simultaneously, in case of failure of one device data can be retrieved from second device. Trends, alarms, events should be logged for at least 3 months on day/ hour/ minutes/ basis.
- Third port shall be available for any third party interface which shall be OPC compliant for networking or SCADA. The recorded data or part of the data may be required to transmit to remote locations over open/ secured network through internet/ Ethernet using local cable/ data card/ sim card (GPS/ GPRS/ CDMA). Modem/ router or any other medium to transmit the data should be available. Vendor shall provide protocol details to MNGL and also provide necessary support for third party interface for remote data connectivity.
- Redundancy in PLC is required. PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply, Interface. PLC components/ system shall be tropicalised, MIL standard adopted with complete wiring and necessary terminals. Wiring to be color coded with cross ferruling in position. PLC shall be capable of carrying out on line routines for at least ten separate loops without affecting the scan, cycle & updating time etc. PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with GPRS and Ethernet connectivity. One card for transferring and accessing data from minimum twenty devices with RS485 port shall be provided. In case of failure of master/ active controller/ CPU, standby controller/ CPU should take over the control in bump less manner. All values & data should be available through both the controllers immediately, i.e., there should be no data loss.
- Successful bidder to include in scope live demonstration of remote monitoring of all PLC logged parameters in one machine at his works. MNGL may ask for the same. However, this may be required to be demonstrated at site.
- PLC based logic circuits shall be used for control & interlock of the compressor package with RS485 SCADA
- Local control panel shall be furnished with annunciation window alarm of individual protection device and a common hooter for audible alarm.
- Local panel should have separate push button for start, stop, emergency stop, alarm acknowledge, alarm rest & test button for checking healthiness of annunciation system.

6.11.25 Priority fill system



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Contractor shall supply priority fill system with compressor top-up facility inclusive of regulating valves, check, by pass valves & liquid filled pressure gauges all mounted in a stainless-steel panel. All fittings and tubes used in priority system shall be of stainless steel of suitable pressure rating. The priority fill system is to be installed to ensure that vehicle filling takes priority over cascade filling and direct CNG to three storage banks in correct sequence. The compressor shall shut down once all three-cascade storage banks are filled to 250 barg. Compressor shall start on pressing of manual start push button & automatically when the cascade storage high bank pressure of compressor falls to 200 barg and shutdown automatically when all 3 stages of stationery cascade are filled to a pressure of 250 barg.

6.12. Certification:

The requirement of statutory approvals for usage of equipment/instruments/system in electrically hazardous areas shall be as follows:

- a. The vendor shall be responsible for obtaining all statutory approvals, as applicable for all instruments and control systems.
- b. Equipments/instruments/systems located in electrically hazardous areas shall be certified for use by statutory authorities for their use in the area of their installation. In general, the following verification shall be provided by the vendor.
 - Bidder shall provide PESO or Equivalent certificates (from FM, CSA, ATEX, UL, CMRI etc.) from country of origin for all intrinsically safe/flameproof protected by other methods equipment/instrument/systems, which are manufactured outside India. If required, bidder shall provide necessary certification/approvals/authentication, for all such intrinsically safe/flameproof equipment/instrument/systems, by the Indian authority– PESO.
 - For all flame proof equipment manufactured within India, the testing shall be carried out by any of the approved testing houses- Central Mining Research Institute (CMRI)/ERTL etc. The item shall in addition bear the valid certification from PESO and also the manufacturer shall hold a valid Bureau of Indian Standards (BIS) licence.
 - For all intrinsically safe equipment manufactured within India the testing shall be carried out by any of the approved testing houses – Central Mining Research Institute (CMRI)/ERTL etc. The item shall in addition bear the valid certification from PESO.

7 EARTHING / CABLING

Metallic part of all equipment not intended to be live shall be connected to earth as per provisions of IS: 3043/IEC recommendation. Grounding of all electronics shall be separately connected to earth using insulated copper wire. Grounding of electronic equipment shall not be connected to earthing for electrics or equi-potential bonding.

7.1 Cabling

- 7.1.1 Cables for Power & Control inside as well as outside the enclosure shall be 2.5 Sq. mm (copper) and 1.5 Sq. mm (copper) respectively.
- 7.1.2 Cables shall be 1100-volt grade, stranded copper conductor, PVC insulated PVC sheathed, steel round wire armoured. FRLS cables.
- 7.1.3 Cables shall be terminated using double compression type metallic flameproof cable glands and copper lugs.
- 7.1.4 Spare cores to be kept in each control cable.
- 7.1.5 All Junction Boxes (JBs) shall have metallic enclosure
- 7.1.6 Cables for control circuits shall be single phase (2 wire), 240 V, 50Hz A.C. supply from UPS.

8 INSPECTION AND TESTING

8.1 General

- a) Inspection and Test Requirements have been spelled out in respective Equipment Data Sheets and Technical Specifications and QAP.
- b) Bidder shall confirm compliance to all inspection and testing requirements stipulated therein and included the inspection charges in the lump sum cost.



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- c) All tests which are required to be witnessed as per data sheet and this specification shall be witnessed by the Purchaser. The bidder shall notify the timing of such inspection and testing to MNGL at least 15 days in advance and MNGL shall depute their representative for witnessing the test and/or a third-party inspection agency shall be appointed by MNGL for witnessing the test at MNGL's own cost.
- d) Bidder shall submit detailed Test Procedure for Approval of the Purchaser two months in advance of the actual date of conducting each test.

8.2 Mechanical running test (MRT)

- a) The MRT for the 25% compressors block of the lot shall be carried out with job or shop driver including complete job driving system i.e., job driven V-belt, job pulleys etc., for 4 hours continuously at the premises of compressor block OEM. The compressor need not be pressure loaded for MRT test. During this test following shall be recorded at agreed intervals (as applicable).

- Vibration levels measured on cylinders and frame
- Oil cooler inlet and outlet temp (as applicable)

Subsequent to satisfactory run the compressor shall be examined as per standard procedure & following shall be examined as minimum:

- Visual examination of position rod, cylinder guide bore without dismantling

If any of part found damaged, all similar components shall be stripped for inspection. The MRT test shall be repeated after replacement of such parts. Bidder to submit their FAT format along with bid, which shall be approved during detailed engineering

9 PERFORMANCE GUARANTEES, LOADING AND PENALTIES (1200 SCMh and 1600 SCMh GED COMPRESSOR):

9.0 This section describes the guaranteed parameter, which the CNG compressor package must fulfil, the penalty for shortfall in guaranteed parameters and rejection of compressor package by the Purchaser.

9.1 The guaranteed parameter shall be adjusted to account for variation in gas composition and prevailing ambient condition during testing.

9.2 Necessary calculations correction curves shall have to be furnished by Bidder along with bid, which shall be final & no deviation shall be permitted afterwards.

9.3 In case of any inconsistency in manufacture and/or operation of supplied compressor package, Bidder shall at his own risk and cost, eliminate the defects to the satisfaction of Owner.

9.4 Compressor Capacity

For 1200 SCMh GED Compressor:

Bidder shall guarantee 1200 SCM/hr capacity (as the case may be) of compressor with design case gas composition, at suction pressure of 14 kg/cm²g, suction temperature of 38°C, discharge pressure of 255 kg/cm²g with the negative tolerance for errors in instruments and measurements.

Since the compressor suction pressure varies from 08 kg/cm²g to 19 kg/cm²g the compressor shall be sized / selected for specified capacity of 1200 SCMh at 14 kg/cm²g (with no -ve tolerance) whereas the driver shall be selected on the basis of compressor BkW with either 08 kg/cm²g or 19 kg/cm²g whichever is higher.

For 1600 SCMh GED Compressor @ 35 kg/cm²g:

Bidder shall guarantee 1600 SCM/hr capacity (as the case may be) of compressor with design case gas composition, at suction pressure of 35 kg/cm²g, suction temperature of 38°C, discharge pressure of 255 kg/cm²g with the negative tolerance for errors in instruments and measurements.

Since the compressor suction pressure varies from 35 kg/cm²g to 43 kg/cm²g the compressor shall be sized / selected for specified capacity of 1600 SCMh at 35 kg/cm²g (with no -ve tolerance) whereas the driver shall be selected on the basis of compressor BkW with either 35 kg/cm²g or 43 kg/cm²g whichever is higher.



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For calculation purpose 1kg of CNG =1.3699 SCM

The same shall be used to establish the capacity at test bed during package performance test.

9.5 Loading Against Package Gas Loss:

The bidder shall design the compressor package so that no venting and leakage of gas takes place. Bidder shall indicate actual vent & leakage losses through the compressor package. If package loss is quoted more than 1% of suction capacity gas consumption than bid shall be rejected. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools and tackles, erection and commissioning will be loaded as per following formulas:

For 1200 SCMH GED COMPRESSOR:

$$F = G \times H \times I \times N \times W \times Df$$

Where, F = Loading amount in Rs.

G = Vent/Leakage rate quoted in percentage

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

W = 876 kg for 1200 SCMH

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

For 1600 SCMH GED COMPRESSOR:

$$F = G \times H \times I \times N \times W \times Df$$

Where, F = Loading amount in Rs.

G = Vent/Leakage rate quoted in percentage

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

W = 1168 kg for 1600 SCMH

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

9.6 Loading against Fuel Consumption:

The compressor package shall be designed in such a way that Gas Consumption of engine (Kg/Hr) should be minimum for production of CNG. Bidder shall indicate actual gas consumption for their compressor package.

This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools & tackles, erection and commissioning will be loaded as per following formulas:

For 1200 SCMH Compressor:

$$F = (G-Q) \times H \times I \times N \times Df$$

Where, F = Loading amount in Rs.

G = Bidder's Gas consumption rate quoted in Kg/hr for every 1200 SCMH (876 Kg) of CNG produced

Q = Lowest Fuel Consumption rate quoted among all vendor in Kg/hr for producing 1200 SCMH (876 Kg) of CNG produced or 31.5 kg/hr whichever is higher

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145



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For 1600 SCMh Compressor:

$$F = (G-Q) \times H \times I \times N \times Df$$

Where, F = Loading amount in Rs.

G = Bidder's Gas consumption rate quoted in Kg/hr for every 1600 SCMh (1168 Kg) of CNG produced

Q = Lowest Fuel Consumption rate quoted among all vendor in Kg/hr for producing 1600 SCMh (1168 Kg) of CNG produced or 31.5 kg/hr whichever is higher

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

Fuel Consumption quoted by the bidder under guaranteed parameters shall lie within the range of 31.5 to 34.5 Kg/hr. No benefit will be given below 31.5 Kg/hr. But in case the fuel consumption quoted by the bidder exceeds the upper limit i.e. 34.5 Kg/hr, the bid will be rejected. Therefore, bidders are requested to indicate the fuel consumption very carefully.

However Cumulative loading on package gas loss and fuel consumption limited to 10 % of the supplied value of compressor package (Compressor package cost + Air compressor with receiver & accessories cost+ string test cost)

9.7 Loading against lower discharge capacity:

For 1200 SCMh GED Compressor:

CNG compressor package's lifetime production capacity (in Kgs for 65,700 hours) is an important parameter to compare different makes of compressors being offered by vendors. It is intended to purchase capacity of 876 Kg per 1200 SCMh at 14 Kg/cm² suction pressure

The loading shall be calculated on basic equipment price (excluding taxes). Packages with maximum capacity below 820 Kgs per hour shall not be accepted.

For 1600 SCMh GED Compressor:

CNG compressor package's lifetime production capacity (in Kgs for 65,700 hours) is an important parameter to compare different makes of compressors being offered by vendors. It is intended to purchase capacity of 1168 Kg per 1600 SCMh at 35 Kg/cm² suction pressure.

The loading shall be calculated on basic equipment price (excluding taxes). Packages with maximum capacity below 1051 Kgs per hour shall not be accepted.

9.8 Penalty towards Excess Gas Loss:

At the start of O&M period or even at any point of time during the O&M period, cost towards excess gas loss beyond the quoted figure shall be deducted from O&M bills.

Following calculations shall be used for deduction towards excess gas loss:



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$$F = 1.5 \times [G - (Q \times D)] \times H$$

Where,

F = Penalty in Rupees to be deducted from O&M bill

G = Monthly Vent/Leakage loss observed during O&M period

Q = Vent / Leakage loss quoted

H = Cost of Natural Gas/Kg – Rs. 79/- per Kg

D = Production during the month (discharge meter) Considering G above shall be taken as (Suction – Discharge – Engine Fuel Consumption) OR Reading from Vent Mass Flow Meter, whichever is higher.

9.10 Penalty towards Excess Fuel Consumption:

At the start of O&M period or even at any point of time during the O&M period, cost towards excess fuel consumption beyond quoted figure shall be deducted from O&M bills.

Following calculations shall be used for deduction towards excess fuel consumption.

For 1200 SCMH GED COMPRESSOR:

$$F = 1.5 \times (G - Q) \times H \quad \text{Where,}$$

F = Monthly Penalty in Rs.

G = Monthly Actual Gas consumption

Q = Guaranteed consumption rate quoted by supplier for every 876 Kg of CNG x CNG produced during the month

H = Cost of Natural Gas – Rs. 79/- per Kg

Note : The penalty for excess fuel consumption shall be calculated for only those days, when the Suction pressure of the machine is equal to or above the minimum guaranteed suction pressure of 14 kg/cm²g. The days where suction pressure is lower than 14 kg/cm²g, shall not be considered for calculation of figures “G” & “Q” and thus excluded from calculation of monthly penalty.

Penalty towards Package Efficiency Loss

This penalty shall be imposed on compressor blocks not capable of delivering rated capacity of 1200 SCMH

Following calculations shall be used for penalty towards package efficiency loss:

$$F = 2 \times \{(1200 \times H \times RD \times AD) - M\}$$

Where,

F = Penalty Amount in Rupees

H = Hours clocked in a month

RD = Average RD for the month using GC Data

AD = Air Density = 1.22541

M = Discharge mass flow during the month in Kgs

Note:

- All the penalties pertaining to fuel consumptions, efficiency, gas-loss during O&M periods shall be imposed after rationalization of parameters inline with the performance curves submitted by the bidder along with the Tender documents.



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- Gauge Pressure at Station Inlet shall be used as benchmark for imposition of penalties and not suction pressure being displayed at the PLC.
- Pressure regulator shall not be used to reduce the pressure at the compressor block inlet below 14 Kg/Cm².
- In case pipeline pressure at the station itself is less than 14 Kg/Cm², then the penalty shall be imposed if the package delivery falls below discharge values corresponding to the station pressure.

For 1600 SCMH GED COMPRESSOR:

$F = 1.5 \times (G-Q) \times H$ Where,

F = Monthly Penalty in Rs.

G = Monthly Actual Gas consumption

Q = Guaranteed consumption rate quoted by supplier for every 1168 Kg of CNG x CNG produced during the month

H = Cost of Natural Gas – Rs. 79/- per Kg

Note : The penalty for excess fuel consumption shall be calculated for only those days, when the Suction pressure of the machine is equal to or above the minimum guaranteed suction pressure of 35 kg/cm²g. The days where suction pressure is lower than 35 kg/cm²g, shall not be considered for calculation of figures “G” & “Q” and thus excluded from calculation of monthly penalty.

Penalty towards Package Efficiency Loss

This penalty shall be imposed on compressor blocks not capable of delivering rated capacity of 1600 SCMH

Following calculations shall be used for penalty towards package efficiency loss:

$$F = 2 \times \{ (1600 \times H \times RD \times AD) - M \}$$

Where,

F = Penalty Amount in Rupees

H = Hours clocked in a month

RD = Average RD for the month using GC Data

AD = Air Density = 1.22541

M = Discharge mass flow during the month in Kgs

Note:

- All the penalties pertaining to fuel consumptions, efficiency, gas-loss during O&M periods shall be imposed after rationalization of parameters inline with the performance curves submitted by the bidder along with the Tender documents.
- Gauge Pressure at Station Inlet shall be used as benchmark for imposition of penalties and not suction pressure being displayed at the PLC.
- Pressure regulator shall not be used to reduce the pressure at the compressor block inlet below 35 Kg/Cm².
- In case pipeline pressure at the station itself is less than 35 Kg/Cm², then the penalty shall be imposed if the package delivery falls below discharge values corresponding to the station



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pressure.

9.11 Penalty for Non-Performance during Ten Year Period of Operation & Maintenance including one year of warrantee period.

Details of Penalty for non performance of equipments

- a. On normal day (i.e. the day other than the schedule maintenance day):
- i. party has to ensure that the complete package is available for operation for a minimum of 98% of the Operational hours in a Quarter. If availability is below 98% then penalty @ of 10,000 per % or part thereof shall be applicable.
 - ii. Penalty for Compressor package shall be applicable either for daily availability or for monthly availability 98% of compressor package; whichever is higher.
 - iii. In any case, the maximum penalty imposed in a month for non-performance of the equipment would be limited to 50% of the amount of O&M charges to be paid to the party per month per compressor.
 - iv. Bidder shall carry forward unutilized breakdown/availability hour for next one quarter with the approval of MNGL.
 - v. In case if the services for attending major maintenance are to be provided by third party like fabrication work shop, Motor winding, etc., then Sundays/ Public Holidays / Intervening holidays will be excluded from arriving at B/D time.
 - vi. Attending to Breakdown needs activities like fabrication, casting, forging, motor rewinding or any other that takes time however, and the total continuous downtime shall not be more than 72.0 hours.
 - vii. Any Major Overhauling/ maintenance require to send at OEM or Third-party workshop the permissible time for major servicing of engine at OEM workshop is 120 hours.
 - viii. Daily necessary Check ie. Daily PM Checklist, Oil Top-up, Housekeeping time shall be not considered while calculating breakdown.
 - ix. If the equipment is down for more than 8 hours on any day, Penalty would be applicable as follows:
 - upto 24 hours: Rs. 10,000/-,
 - Beyond 24 hours: Rs. 20,000/- per day.
- b. On schedule maintenance day:
- i. The party would be required to carry out the recommended schedule/preventive maintenance of the equipments for which the party has to indicate the time required for each type of schedule maintenance.
 - ii. If the equipment is down for more than 4 hours & upto 12 hours beyond the time indicated for the agreed schedule maintenance, the party would be penalized Rs. 10,000/- and for more than 12 hours Rs. 20,000/- per day.
 - iii. In any case, the maximum penalty imposed in a month for non-performance of the equipment turns out be 50% or more of the amount of O&M charges to be paid to the party per month per compressor (a complete cost break up of O&M charges need to be furnished by the bidder), MNGL will take necessary actions as per terms and conditions of the contract for such non-performance.
 - iv. In case there is a continuous breakdown beyond 72 hours up to 15 days, 50% of monthly comprehensive maintenance charges excluding operational part will be deducted.
 - v. In case there is a continuous breakdown beyond 15 days, which is not in the control of the contactor, no maintenance charges will be paid. Only operation charges may be payable on sole discretion of EIC.



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10.1 Packing shall be sufficiently robust to withstand rough handling during ocean shipment & in-land journey.

Sling points shall be clearly indicated on crates.

10.2 Surface Preparation

- (a) Rust, rust scale and foreign matter shall be removed fully to ensure that a clean and dry surface is obtained. The minimum acceptable standard for blast cleaning shall be Sa 2-1/2 or equivalent as per Swedish Standard SIS- 055900-1967 or equivalent.
- (b) Blast cleaning shall not be performed where dust can contaminate surfaces undergoing such cleaning or during humid weather conditions having humidity exceeding 85%.
- (c) The first coat of primer must be applied by brush on dry surface. This should be done immediately after cleaning.
- (d) Surface shall be inspected by MNGL/ third party before application of primer.

10.3 Painting (Primer & Finish Coat)

Following primer and finish coats to be applied on the canopy and all structural parts as a minimum: -

- a) Primer: Two component epoxy zinc phosphate primer with minimum volume solids of 59%, an initial cure of 75 minutes at 25 deg. C and a weight of around 2.52 kg/liter.
No. of Coats: 1
DFT: 75 (micron) each
- b) Primer: Two component intermediate coat with epoxy high build MIO (micaceous iron oxide) of minimum volume solids of 80%, an initial cure of 60 minutes at 25 deg. C and a weight of around 2.1 kg /liter.
No. of Coats: 1
DFT: 100 microns
- c) Finish Coat: Acrylic Polyurethane paint
No. of Coats: 2
DFT: 50 (micron) each coat

Total DFT 100 microns
Total DFT after application of primer and paint shall be 275 e (micron) minimum

10.4 The vendor to ensure that exterior steel surface of equipment and piping painted shall have a fade free life without oxidation of paint surface for at least 10 years in an environment of bright sunlight with an intense UV content.

10.5 The headers of air-cooled exchanger shall be zinc sprayed/ heat resistant epoxy painted.

10.6 Bidder shall make all arrangement for painting of enclosure once in period of 3 years or whenever required whichever is earlier.

11 ERECTION, TESTING AND COMMISSIONING AT SITE

- 11.1 Bidder shall be responsible for erection commissioning, performance test, field noise level test and field trial run of all compressor packages at site.
- 11.2 Bidder shall be liable to pay all local taxes, levies applicable and comply with rules, laws prevailing in concerned state.

12 FIELD TRIAL RUN / PERFORMANCE ACCEPTANCE TEST

1) FIELD TRIAL RUN (Commissioning and Commercial Operation) :



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Bidder shall conduct a field trial run of each compressor package for minimum 72 hours cumulative or 6 hours continuous duration near the guaranteed points in which satisfactory operation of complete package together with all accessories/auxiliaries controls shall be established for specified operating conditions prior to the start of operation and maintenance period as defined in the contract. During the field trial run the bidder will be allowed a maximum of THREE attempts to complete the above-specified test. The Equipment shall be considered commissioned after the successful completion of Field Trial Run. Further Commencement of commercial operation will be intimated by client.

2)Package Performance Test (PT)

Duration of PG test shall be 4 hours with compressor running on continuous basis, however if load is not available at site intermittent running for 4 hours shall be permitted with maintaining minimum continuous operation of ½ hour. Bidder to submit PG test procedure for review / approval. Complete package shall be performance tested as a module along with gas engine & compressor as per Performa (to be decided during engineering). Bidder shall demonstrate all controls, shutdown, trips & alarms, functioning of Instrumentation system, PLC, Motor / Gas engine etc. Pressure and temperature of gas shall be considered at purchaser's boundary limit (or before filter unit of package if provided) and as indicated in the Instrumentation schedule; if provision not available then supplier shall install necessary pressure and temp measuring devices. Discharge PT & TT of compressor will be used for discharge pressure and temperature measurements. All instrument duly calibrated, tools & tackles, any modification required for conducting PT shall be in the scope of supplier.

The PT shall be conducted only after 30 days' running of the machine after successful commissioning or after 30 days from the date of commercial operation, but not later than 90 days from the date of commercial operation of the machine. The delay in conducting PT beyond 90 days shall be liable for PRS unless such delays are solely attributable to the owner(i.e. due to inadequate load, non-availability of CNG vehicles for conducting PT).

The test shall be the basis of assigning penalties on the Bidder of the package thereon. Bidder shall submit the detail test procedure for the same, which shall be approved by PURCHASER/CONSULTANT. The test package shall be witnessed by PURCHASER/CONSULTANT.

Bidder to note that prime mover speed correction shall not be allowed below guaranteed speed. Temperature and pressure will be considered at purchaser's boundary limit, if provision is not available at compressor suction and discharge as explained above.

3)OPERATION & MAINTENANCE SERVICES: The date of start of commercial operation as intimated by client will be considered as date of start of the annual maintenance contract. However , bidder shall be paid only 50% of O&M charge for operation and maintenance of the compressor from the date of commercial operation upto the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through PT. The balance 50% of O&M charge (from the date of commercial operation upto the date of PG test) shall be released to the bidder subsequent to successful PT (ie, after establishing all the guaranteed parameters as per tender) In case the PT is not successful, the balance 50% shall be forfeited.

13 SPARE PARTS, SPECIAL TOOLS AND TACKLES

- 13.1 Special tools & tackles for erection and commissioning and for operation & maintenance are required to be supplied along with the package. These tools and tackles left after work completion shall be the property of MNGL.

Vendor shall maintain sufficient spares to fulfill the warranty & subsequent four years period requirements. In case of additional requirement during the warranty period, if any spare part is taken from MNGL, the same shall be replaced to MNGL with new part supported by necessary document for its authenticity of being new & original spare part.

- 13.2 A brand-new separate set of special tools and tackles as per compressor as required for preventive maintenance as well as breakdown maintenance beyond the contractual one-year operation period shall be supplied by the packager, which shall form the property of MNGL. Special tools shall include 2 nos. Web deflection gauge along with supply of 3 nos. of Compressor package.



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14 DATA AND DRAWING

- a) Drawings and Data shall be furnished in conformity with the Bidder Data Requirements Forms attached with Enquiry Specifications.
- b) Bidder shall furnish all the information at the time of bidding as specified in the relevant Bidder Data Requirement (BDR) forms.
- c) The data requirement after placement of Fax of Intent (FOI) is indicated in the Bidder Data Requirement Forms for the respective equipment, including the number of weeks within which this data is to be provided. Bidder shall confirm that all data as required shall be furnished by him and shall indicate the Bidder's promised data in the columns provided.
- d) After the placement of FOI, a conference (kick off meeting) will be held at such place, as may be mutually agreed upon between the Bidder and the purchaser within 15 days from the date of placement of FOI. The intent of this conference shall be to discuss / clarify various requirements and finalize the modus operandi for execution of the contract within the scheduled delivery period.
- e) Bidder shall furnish the Drawings/Documents for Purchaser's Review / approval as per the Bidder Data Requirement (as specified in the Specifications/Bidder Data Requirement forms). The review comments for major and critical drawings (such as system P&ID's, General Arrangement Drawings, Foundation Drawings, Performance characteristics, Pulsation and Vibration Study Reports, Torsional Analysis etc.) shall be discussed across the table at such date and place as may be mutually agreed between the Purchaser and the Bidder.
- f) Along with the supply of each compressor package, the supplier shall provide software for PLC & HMI, ladder logic and software authorization password/license in two sets.

NOTE- DATA SHEETS ARE ATTACHED IN ANNEXURE-1



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ANNEXURE-1

GUARANTEED PARAMETERS (1200 SCMH GAS ENGINE DRIVEN)

Guaranteed Parameters for Basis of loading and penalty			
Sr. No	Parameters	Bidder's Data	Unit
1	Compressor Capacity at suction pressure @ 14kg/cm ² (g) (minimum 1200 SCMH & 876 kg/hr) (Basis for penalty)		SCMH
2	Fuel (Gas) consumption of package in Kg/hr, Density of natural gas 0.73 Kg/SCM, NCV of 8605 Kcal/SCM (basis for loading and Penalty)		Kg/hr
3	Gas loss as % of production, including loss from SRV, due to oil op ups and idling (Basis for loading & penalty)		%
Guaranteed General Package Data			
Sr. No	Parameters	Bidder's Data	Unit
4	Compressor BKW in KW @ Rated Conditions (No + ve tolerance)		KW
6	Net of all auxiliaries/package ventilation loads in KW		KW
7	Site rated BKW of Gas Engine (No – ve tolerance)		KW
8	Noise level @ 1 meter from enclosure (required 75 dBA)		dB

Note

Bidder to quote in the Unit as asked for in the above table.

Bidder has to fill all the rows in above table. If any row is not filled by bidder or above tables are modified in any manner, bid will be rejected summarily.

Conversion factor for Kg to SCM is 1 kg = 1.3699 SCM

Rated Conditions: suction pressure:14 kg/cm²g, suction temperature: 38°C, discharge pressure: 255 kg/cm²g



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GUARANTEED PARAMETERS (1600 SCMH GAS ENGINE DRIVEN)

1) Guaranteed Parameters for Basis of loading and penalty			
Sr. No	Parameters	Bidder's Data	Unit
1	Compressor Capacity at suction pressure @35 kg/cm ² (g) (minimum 1600 SCMH & 1168 kg/hr) (Basis for penalty)		SCMH
2	Fuel (Gas) consumption of package in Kg/hr, Density of natural gas 0.73 Kg/SCM, NCV of 8605 Kcal/SCM (basis for loading and Penalty)		Kg/hr
3	Gas loss as % of production, including loss from SRV, due to oil op ups and idling (Basis for loading & penalty)		%
Guaranteed General Package Data			
Sr. No	Parameters	Bidder's Data	Unit
4	Compressor BKW in KW @ Rated Conditions (No + ve tolerance)		KW
6	Net of all auxiliaries/package ventilation loads in KW		KW
7	Site rated BKW of Gas Engine (No – ve tolerance)		KW
8	Noise level @ 1 meter from enclosure (required 75 dBA)		dB

Note

- Bidder to quote in the Unit as asked for in the above table.
- Bidder has to fill all the rows in above table. If any row is not filled by bidder or above tables are modified in any manner, bid will be rejected summarily.
- Conversion factor for Kg to SCM is 1 kg = 1.3699 SCM
- Rated Conditions: suction pressure range:30- 45 kg/cm²g, suction temperature: 38°C, discharge pressure: 255 kg/cm²g
- Compressor package shall be operated between 35- 43 kg/cm²g.

2) Data Sheet to be filled by bidder:

Sr. No	Parameters	Bidder's Data	Unit
1	Compressor Capacity at suction pressure @43 kg/cm ² (g) (minimum 2000 SCMH & 1460 kg/hr)		SCMH
2	Fuel (Gas) consumption of package in Kg/hr, Density of natural gas 0.73 Kg/SCM, NCV of 8605 Kcal/SCM		Kg/hr
3	Gas loss as % of production, including loss from SRV, due to oil op ups and idling		%
General Package Data			
Sr. No	Parameters	Bidder's Data	Unit
4	Compressor BKW in KW @ Rated Conditions (No + ve tolerance)		KW



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6	Net of all auxiliaries/package ventilation loads in KW		KW
7	Site rated BKW of Gas Engine (No – ve tolerance)		KW
8	Noise level @ 1 meter from enclosure (required 75 dBA)		dB

DATA SHEET- HEAT EXCHANGER

1	GENERAL		
2	PROJECT: PROCUREMENT OF COMPRESSORS		
3	OWNER:	SITE:	
4	Item No. : Service : Intercooler / Aftercooler for Compressor Package		
5	NOTE: ■ SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER □ INFORMATION REQUIRED FROM VENDOR		
6	□ Manufacturer:	Type: □ Forced Draft □ Induced Draft	
7	□ Bundle Size: m x m x m	Bundles/Section	Number of Units:
8	Bundles/Unit:	In Parallel / Series	Section Size:
9	Surface/Bundle: m ²	Bare Tube: m ²	Section/Unit:
10	Surface/Bundle: m ²	Bare Tube: m ²	Plot Area/ Unit:
11	PERFORMANCE (Of One Unit)		
12	Heat Exchanged: kcal/hr		
13	Transfer Rate: kcal/hr m ² °C	(Finned Surface)	(Bare Surface)
14	TUBE SIDE		
15	Fluid Circulated @ 15.4 EC	GAS	Gravity: Liquid API SG
16	Total Entering Gas kg/hr		
17	Operating Temperature m ² °C/kcal	In: Out:	Fouling Resistance hr
18	Operating Pressure Passes / Bundle kg/cm ²		
19	AIR SIDE		
20	Temperature In : 47.5	Out:	Altitude m
21	Total Flow/Unit kg/hr	Static Pressure kg/cm ²	
22	Quantity/Fan kg/hr	Power/Fan kW	
23	Face Velocity m/sec	Power/Unit kW	
24	CONSTRUCTION(Each Bundle)		
25	Design Pressure: kg/cm ² g °C	Test Pressure: kg/cm ² g	Design Temperature:
26	Code Requirements:		
27	Type of Tubing:	Tube Material: SA 179	Fin Material: Al
28	Tube Bare Tubes (no's) :	No. of rows: O.D.	BWG/Thk Length
29	Fins : Spacing /inch. O.D.	Root Dia	Thickness:
30	Header Type: Plug / Cover	No. of Splits:	Material :
31	Plugs/Gaskets	Side Frame : C.S. Inside Zinc Protected	
32	Nozzles	In :	Out :



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Bid No.: MNGL/CP/2026-27/36

33	Couplings	Vent:	Drain :
34	CONSTRUCTION(Each section)		
35	Structure kgf/m	CS Sec./Gr. No.	Design Wind Load :
36	Plenum Chamber	CS inside Zinc Protected	Type :
37	Fans	No.	Dia. RPM Mfr.
38	Blades	Material :	No./Fan Pitch Angle(Design) :
39	Hubs	Material :	Pitch : Autovvariable / Adjustable (No.)
40	Louvers	Material :	Type : Mfr.
41	Weights kg Each Section(Dry) :		Full of Water:
42	Each Bundle(Dry) :		Full of Water:
43	APPLICABLE SPECIFICATIONS API Standard 661		
44	REMARKS 1. Air coolers shall be designed for 20% excess capacity than required normally.		
45	Exchanger shall be designed with air side temperature of 47.5 0C.		
46	Separate data sheet shall be filled by the bidder for each service i.e. Inter cooler and After cooler		



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DATA SHEET- GAS ENGINE

1	GENERAL		
2	PROJECT: PROCUREMENT OF CNG COMPRESSORS		
3	OWNER:	SITE:	
4	SERVICE: DRIVER FOR CNG COMPRESSOR		
5	NO. REQD:		
6	NOTE: <input type="checkbox"/> SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER <input type="checkbox"/> INFORMATION REQUIRED FROM VENDOR.		
7	■ SITE / INSTALLATION DATA		
8	SITE CONDITION:		
9	LOCATION:	■ OUTDOOR	■ CLOSED ROOM WITH FORCED AIR
10	VEENTILATION SYSTEM		
11	SITE DATA:	AMBIENT TEMPERATURE (°C):	MAX: 48
12	MIN:0	RELATIVE HUMIDITY(%):	MAX: 90
13	ALTITUDE(M): 560		
14	ELECTRICAL AREA CLASSIFICATION:		
15	Class-I, Division I, Group D as per NEC		
16	Zone I, Group II A/ II B as per IS/ IEC		
17	<input type="checkbox"/> UTILITIES DATA		
18	COOLING WATER		
19	COOLING WATER TEMP. (°C)	SUPPLY (DESIGN/MAX/NOR/MIN):	
20	RETURN (MAX):		
21	COOLING WATER PR. (KG/CM²G)	SUPPLY (DESIGN/MAX/NOR/MIN):	
22	RETURN (MIN):		
23	COOLING WATER CHARACTERISTICS:		
24	<input type="checkbox"/> INSTRUMENT AIR:		
25	SUPPLY PRESSURE (DESIGN/MAX/NOR/MIN)(KG/CM² G):		
26	<input type="checkbox"/> ELECTRIC POWER		
27	ELECTRIC SUPPLY: AC / DC	VOLTS	
28	H Z		
29	<input type="checkbox"/> APPLICABLE CODES & STANDARDS		
30	■ NOISE SPECIFICATION: ■ APPLICABLE TO M/CMAX. 75 DBA@ 1.0 M OUTSIDE THE ACOUSTIC ENCLOSURE		
31	■ EXHAUST GAS EMISSION: - STATUTORY REQUIRMENTS AS PER CENTRAL POLLUTION CONTROL BOARD		
32	■ LISTING/APPROVAL OF ENGINE REQUIRED FROM: ■ UL/FM <input type="checkbox"/> TAC		
33	■ AIR RECEIVER FOR STARTING AIR SYSTEM ASME SEC-VIII DIV 1 <input type="checkbox"/> AIR COMPRESSOR FOR STARTING AIR SYSTEM MANUFACTURER'S STD.		
34	<input type="checkbox"/> SHELL AND TUBE TYPE EXCHANGERSMANUFACTURER'S STD. <input type="checkbox"/> AUXILIARY PUMPS MANUFACTURER'SSTD.		
35	<input type="checkbox"/> AIR COOLED HEAT EXCHANGERS/RADIATOR MANUFACTURER'S STD. <input type="checkbox"/> OTHER TANKS AND VESSELS MANUFACTURER'S STD.		
36	DRIVEN EQUIPMENT		
37	■ RECIPROCATING GAS COMPRESSOR		
38	■ DUTY: INTERMITTENT		



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35	PROBABLE PERIOD FOR CONTINUOUS RUNNING: 20 HOURS WITH FREQUENT STARTS AND STOPS				
36	■ DURATION OF MAX. LOAD: 20 HOURS				
37	<input type="checkbox"/> MINIMUM BKW OF THE DRIVEN EQPT. KW: @ RPM:				
38	<input type="checkbox"/> RATED BKW OF THE DRIVEN EQPT. KW: @ RPM:				
39	<input type="checkbox"/> MAXIMUM BKW OF THE DRIVEN EQPT. KW: @ RPM: (@ R.V. SET PRESSURE)				
40	<input type="checkbox"/> FOR MECH. DRIVE APPLICATIONS: MINIMUM SITE RATING OF THE ENGINE REQUIRED KW @ RPM				
41	<input type="checkbox"/> ACCOUNTING FOR ENGINE DERATION FOR SITE CONDITIONS & ALTERNATOR EFFICIENCY WITH ENGINE DRIVING ITS ALL AUXILIARIES.				
42	<input type="checkbox"/> DIRECTION OF ROTATION OF DRIVEN EQUIPMENT VIEWED FROM COUPLING END :				
43	<input type="checkbox"/> METHOD OF DRIVE: DIRECT THRU FLEXIBLE COUPLING OR V-BELTS				
44	CONSTRUCTION FEATURES				
45	<input type="checkbox"/> MANUFACTURER:		<input type="checkbox"/> ENGINE MODEL:		
46	■ TYPE OF ENGINE: FOUR-STROKE ENGINE WATER COOLED		V COOLING: ■		
47	<input type="checkbox"/> TURBO-CHARGED WITH CHARGE AIR COOLER ASPIRATED		<input type="checkbox"/> NORMALLY		
48	<input type="checkbox"/> NO. OF CYLINDERS: ARRANGEMENT:		<input type="checkbox"/> CYLINDER		
49	<input type="checkbox"/> BORE/STROKE (MM/MM):		<input type="checkbox"/> COMPRESSION RATIO:		
50	<input type="checkbox"/> SPEED (RPM): (M/SEC.):		<input type="checkbox"/> MEAN PISTON SPEED		
51	<input type="checkbox"/> PERFORMANCE				
52	RATED ENGINE POWER AT STANDARD OPERATING CONDITIONS AS PER ISO 3046/ BS 5514 (ISO STD. POWER): KW @ RPM				
53	(USING ONLY THE ESSENTIAL DEPENDENT AUXILIARIES AND WITH 10 % OVERLOAD PROVISION FOR ONE HOUR WITHIN A PERIOD OF 12 HOURS OF OPERATION).				
54	RATED ENGINE POWER AT SITE CONDITIONS GUARANTEED, NO NEGATIVE TOLERANCE): KW @ RPM				
55	(USING THE ESSENTIAL DEPENDENT AUXILIARIES AND WITH 10 % OVERLOAD PROVISION FOR ONE HOUR WITHIN A PERIOD OF 12 HOURS OF OPERATION).				
56	MIN. ENGINE SITE POWER AT, WHICH ENGINE CAN BE OPERATED CONTINUOUSLY. KW @ RPM				
57	MIN. ENGINE SPEED & CORRESPONDING SITE POWER AT, WHICH ENGINE CAN BE OPERATED CONTINUOUSLY. RPM @ KW				
58	STARTING TIME REQUIRED FOR FULL LOAD OPERATION (SECONDS):				
59	AIR FLOW REQUIRED FOR OPERATION OF THE ENGINE FOR: <input type="checkbox"/> COMBUSTION & SCAVENGING <input type="checkbox"/> COOLING & VENTILATION OF ENCLOSURE <input type="checkbox"/> AIR COOLERS				
60	ESSENTIAL DEPENDENT AUXILIARIES ARE:				
61	ENGINE SHAFT DRIVEN RADIATOR FAN: KW				
62	ENGINE SHAFT DRIVEN CW PUMP: KW				
63	ENGINE SHAFT MAIN LO PUM: KW				
64	<input type="checkbox"/> SPECIFIC FUEL CONSUMPTION:				
65	DESCRIPTION @ REFERENCE CONDITIONS *		FUEL CONSUMPTION, GM/KW-HR		
66		ISO 3046*	MANUFR'S. STD.*	SITE *	MANFR'S. SHOP *
67	(A) GUARANTEED ENGINE RATED POWER (100 % CONTINUOUS RATING)				
68	(B) 75 % OF (A)				
69	(C) 50 % OF (A)				
70	(D) 110 % OF (A)				



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71	* STANDARD REFERENCE CONDITIONS:				
72	TOTAL BAROMETRIC PRESSURE, P, KG/CM ² A				
73	ATMOSPHERIC TEMP. °C				
74	RELATIVE HUMIDITY %				
75	CHARGE AIR & COOLANT TEMP °C				
76	<input type="checkbox"/> SPEED GOVERNING SYSTEM				
77	TYPE: <input type="checkbox"/> SINGLE SPEED <input type="checkbox"/> MULTIPLE SPEED <input type="checkbox"/> ALL SPEED (VARIABLE SPEED)				
78	GOVERNOR TYPE: <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> ELECTRO HYDRAULIC <input type="checkbox"/> MECHANICAL				
79	■ MAKE: <input type="checkbox"/> MODEL:				
80	GOVERNOR CONTROL MECHANISM: <input type="checkbox"/> MANUAL <input type="checkbox"/> REMOTE				
81	<input type="checkbox"/> STARTING SYSTEM				
82	■ METHOD OF STARTING: AUTOMATIC				
83	■ METHOD OF STOPPING: AUTOMATIC				
84	<input type="checkbox"/> TYPE OF COLD STARTING: (CONSIDERING MIN. AMBIENT TEMP. 2°C)				
85	■ TYPE OF STARTING SYSTEM: AIR STARTING THROUGH ENGINE MOUNTED PNEUMATIC MOTOR				
86	REMARKS:				
87	1. BIDDER SHALL ENGINEER AND SUPPLY THE COMPLETE AIR STARTING MECHANISM INCLUDING AIR COMPRESSOR, AIR RECEIVER.				
88	THE PURCHASER SHALL PROVIDE ELECTRICITY FOR AIR COMPRESSOR MOTOR.				
89	■ STARTING AIR SYSTEM: (TO BE PLACED OUTSIDE THE ENCLOSURES)				
90	■ AIR COMPRESSOR TYPE: SCREW-TYPE KW	RATING: 7.5			
91	<input type="checkbox"/> RATED CAPACITY (AM3/HR AT INLET CONDITIONS):				
92	<input type="checkbox"/> DISCHARGE PRESSURE (KG/CM ² G):				
93	<input type="checkbox"/> BKW: <input type="checkbox"/> RPM:				
94	■ AIR COMPRESSOR DRIVEN BY: ELECTRIC MOTOR (Flame Proof)				
95	<input type="checkbox"/> DRIVER RATING <input type="checkbox"/> KW: <input type="checkbox"/> RPM: ■ <input type="checkbox"/> VOLTS/N/HZ.: 230 / SINGLE/ 50				
96	■ AIR RECEIVER WITH PRESSURE GAUGE, RELIEF VALVE & MANUAL DRAIN VALVE:				
97	■ START-STOP SWITCH FOR COMPRESSOR: AUTOMATIC				
98	<input type="checkbox"/> NO. OF AIR RECEIVER: ONE /TWO CAPACITY OF EACH AIR RECEIVER (M3):				
99	NOTE: TOTAL AIR RECEIVER CAPACITY SHALL BE SUITABLE FOR ATLEAST SIX (6) CONSECUTIVE STARTS.				
100	■ COOLING SYSTEM				
101	TYPE: <input type="checkbox"/> COOLING	CLOSED CIRCUIT			
102	WATER PUMP DRIVEN BY:	ENGINE			
103	COOLANT CIRCUIT PIPING WITH TEMP. CONTROL & MAKE-UP TANK.				
104	HEAT EXCHANGER WITH ANCHOR/FOUNDATION BOLTS: AIR COOLED EXCHANGER				
105	BY-PASS VALVE: <input type="checkbox"/>	CHECK VALVE: <input type="checkbox"/>			
106	HEAT EXCHANGER TEMP (°C) <input type="checkbox"/>	INLET: <input type="checkbox"/>			
107	OUTLET: <input type="checkbox"/>	■ FAN DRIVEN BY: DRIVER <input type="checkbox"/>			
108	RATING/SPEED (KW/RPM): <input type="checkbox"/>	■ ENGINE WATER TEMP (°C): <input type="checkbox"/>			
	<input type="checkbox"/>	INLET: <input type="checkbox"/>			



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	OUTLET:
109	PACKAGER MAY CLUB THE ENGINE JACKET AND COMPRESSOR CYLINDER COOLING WATER SYSTEM WITH ENGINE SHAFT OR COMPRESSOR SHAFT DRIVEN PUMP
110	■FRAME LUBRICATION SYSTEM
111	■TYPE: FORCE FEED LUBRICATION INCLUDING VALVES, OIL PUMP & PIPING
112	<input type="checkbox"/> OIL COOLER TYPE: <input type="checkbox"/> AIR COOLED
	<input type="checkbox"/> WATER COOLED
113	<input type="checkbox"/> OIL FILTERS <input type="checkbox"/> SELF CLEANING <input type="checkbox"/> DUPLEX
	<input type="checkbox"/> PAPER CARTRIDGE
114	<input type="checkbox"/> PRELUBE OIL PUMP DRIVEN BY (IF REQUIRED):
115	<input type="checkbox"/> PRELUBRICATION <input type="checkbox"/> MANUAL
	<input type="checkbox"/> A UTOMATIC
116	<input type="checkbox"/> TYPE/GRADE OF LUB. OIL:
117	<input type="checkbox"/> OIL CONSUMPTION (LPH):
118	<input type="checkbox"/> OIL SUMP CAPACITY (LITRES):
119	<input type="checkbox"/> OIL COOLER TESTING PRESSURE (KG/CM ² G):
120	<input type="checkbox"/> EXPLOSION RELIEF VALVE FOR CRANKCASE
121	■AIR INLET SYSTEM
122	■SUCTION AIR FILTER ■AIR INLET DUCTING / PIPING / MANIFOLDS
	<input type="checkbox"/> INLET SILENCER
123	EXPANSION BELLOWS (IF REQUIRED) & ALL SUPPORTS / HANGERS
124	■ENGINE EXHAUST SYSTEM
125	■EXHAUST MANIFOLDS / DUCTING / PIPING TERMINATED AT SAFE HEIGHT OUTSIDE ENGINE ENCLOSURE EXHAUST SILENCER (RESIDENTIAL TYPE)
126	■EXPANSION BELLOWS ■ EXHAUST STACK / CHIMNEY ■ ALL SUPPORTS / HANGERS
	■ PROTECTION
127	<input type="checkbox"/> PROVIDED AS ABOVE <input type="checkbox"/> YES <input type="checkbox"/> NO
128	CONTROLS & INSTRUMENTATION
129	ELECTRIC SUPPLY:
130	LAMPS: <input type="checkbox"/> ± V: AC/DC:
	N : <input type="checkbox"/> ± HZ:
131	ALARM CIRCUIT: <input type="checkbox"/> ± V: AC/DC:
	N : <input type="checkbox"/> ± HZ:
132	TRIP CIRCUIT: <input type="checkbox"/> ± V: AC/DC:
	N : <input type="checkbox"/> ± HZ:
133	CONTROL CIRCUIT: <input type="checkbox"/> ± V: AC/DC:
	N : <input type="checkbox"/> ± HZ:
134	SOLENOID VALVES: <input type="checkbox"/> ± V: AC/DC:
	N : <input type="checkbox"/> ± HZ:
135	CONTROL SWITCHES:
136	■ AC POWER ON/OFF SWITCH WITH INDICATION LAMP
137	■ CONTROL POWER ON/OFF SWITCH WITH INDICATION LAMP
138	■ START SWITCH WITH INDICATION YES
139	■ START/STOP PUSH BUTTON FOR AUX. DRIVE MOTOR
140	■ EMERGENCY STOP PUSH BUTTON
141	■ LAMP TEST PUSH BUTTON
142	■ ALARM/TRIP ACKNOWLEDGE /RESET PUSH BOTTON YES
143	■ LUBRICATING OIL HEATER 'ON' INDICATING LAMP (IF PROVIDED)
144	■ MOTOR INTERLOCK AGAINST START WITHOUT PRELUBRICATION



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145	
146	NOTE: VENDOR TO PROVIDE CONTACT/SIGNAL FOR EXECUTION IN DCS.
147	<input type="checkbox"/> MATERIAL
148	CHARGE AIR COOLER SHELL: TUBES:
149	WATER COOLER SHELL: TUBES:
150	AIR COOLER SHELL: TUBES:
151	AIR RECEIVER
152	
153	INSPECTION AND TESTING
154	WITNESS OBSERVE
155	<input type="checkbox"/> STAGE INSPECTION DURING MANUFACTURE
156	<input checked="" type="checkbox"/> FULL LOAD TEST AT ENGINE MANUFACTURER'S SHOP AS PER ISO (PERFORMANCE TEST)
157	<input type="checkbox"/> FUEL CONSUMPTION & GOVERNING TEST AT ENGINE MANUFACTURER'S SHOP AS PER ISO
158	<input checked="" type="checkbox"/> FULL LOAD TEST FOR 4 HOURS OF ENGINE-GENERATOR SET WITH ALL AUXILIARIES & 1HR AT FULL LOAD AT SITE.
159	<input checked="" type="checkbox"/> NO LOAD MECHANICAL RUN TEST AT PACKAGER'S/DRIVEN EQPT. MFR. SHOP
160	<input checked="" type="checkbox"/> VENDOR'S STANDARD MECHANICAL RUN TEST (FOR ALL ENGINE)
161	INSPECTION/TESTING WITNESSED BY: <input type="checkbox"/> OTHERS <input checked="" type="checkbox"/> M/S OWNER OR THEIR REPRESENTATIVE
162	<input type="checkbox"/> WEIGHTS
163	NET WEIGHT OF ENGINE WITH MOUNTED ANCILLARIES (KG):
164	HEAVIEST PART TO BE HANDLED DURING ERECTION AND ITS WEIGHT (KG):
165	HEAVIEST PART TO BE HANDLED DURING NORMAL MAINTENANCE AND ITS WEIGHT (KG):
166	RECOMMENDED CRANE CAPACITY (TONS): CRANE HOOK HEIGHT (M):
167	<input type="checkbox"/> MAINTENANCE DATA
168	EXPECTED PERIOD OF RUNNING BETWEEN TOP OVERHAULS: HOURS
169	EXPECTED PERIOD OF RUNNING BETWEEN MAIN OVERHAULS: HOURS
170	THE TYPE AND GRADE OF LUBRICATING OIL RECOMMENDED:
171	LUBE OIL CONSUMPTION (LITRES/HR) (KG/HR)/
172	CHANGE OF LUBRICATING OIL AFTER: HOURS
173	<input checked="" type="checkbox"/> SCOPE OF SUPPLY / WORK
174	ENGINE WITH LUBRICATION SYSTEM, GOVERNING SYSTEM, FUEL SYSTEM, COOLING SYSTEM AND STARTING SYSTEM AS SPECIFIED
175	SUCTION AIR FILTER WITH SUCTION PIPING
176	INSTRUMENTS AND CONTROLS AS SPECIFIED
177	INLET AND EXHAUST MANIFOLDS, EXHAUST PIPING WITH FILLINGS, BENDS AND INSULATION
178	EXHAUST SILENCER (RESIDENTIAL, SPARK ARRESTING TYPE) WITH EXPANSION BELLOWS AND COMPLETE WITH EXHAUST PIPING FROM
179	MANIFOLD TO OUTSIDE SHED WITH FITTINGS AND INSULATION.
180	FLYWHEEL WITH BARRING DEVICE
181	GUARDS FOR MOVING PARTS
182	COUPLING FOR ENGINE - DRIVEN EQUIPMENT
183	BASE PLATE FOR ENGINE & DRIVEN EQUIPMENT
184	MANDATORY SPARES AS PER ORDER
185	ERECTION AND COMMISSIONING SPARES



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186	TORSIONAL ANALYSIS REPORT ON ENGINE
187	REFER TECHNICAL SPECIFICATION FOR COMPLETE SCOPE OF SUPPLY
188	FOUNDATION/ ANCHOR BOLTS
189	ANTI VIBRATION PADS
190	FIRST FILL OF LUBRICATING OIL AND COOLANT.
191	SEPERATE ACCOUSTIC ENCLOSURE WITH VENTILATION FAN
192	
193	REMARKS
194	



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DATA SHEET- CNG COMPRESSOR (2 STAGE & 3 STAGE)

1	GENERAL		
2	PROJECT: PROCUREMENT OF CNG COMPRESSORS		
3	OWNER:	SITE:	
4	SERVICE: COMPRESSOR FOR CNG MOTHER STATION		
5	NO. REQD:	DRIVER: GAS ENGINE	
6	NOTE: ■ SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER	<input type="checkbox"/> INFORMATION REQUIRED FROM	
7	<input type="checkbox"/> MANUFACTURER:	<input type="checkbox"/> MODEL NO.:	
8	<input type="checkbox"/> PLACE OF MANUFACTURE:		
9	■ NO. OF STAGES: THREE	<input type="checkbox"/> CYLINDER ARRANGEMENT:	
10	CYLINDER LUBRICATION: <input type="checkbox"/> LUBRICATED <input type="checkbox"/> MINIMUM LUBRICATED		
11	<input type="checkbox"/> NON LUBRICATED		
11	■ DRIVER TYPE: GAS ENGINE		
12	<input type="checkbox"/> DRIVE: <input type="checkbox"/> V - BELTS (ANTI-STATIC TYPE)		
12	<input type="checkbox"/> DIRECT WITH COUPLING		
13	<input type="checkbox"/> DIRECTION OF ROTATION (FACING DRIVEN END): <input type="checkbox"/> CLOCKWISE		
13	<input type="checkbox"/> COUNTER CLOCKWISE		
14	■ SITE / INSTALLATION DATA		
15	SITE DATA:	AMBIENT TEMPERATURE (°C):	MAX: 48
16	MIN: 0	RELATIVE HUMIDITY(%):	MAX: 90
17	ALTITUDE(M): 560		
18	EARTHQUAKE ZONE V		WIND VELOCITY
19	(KM/HR): 160 (MAX)		
19	INSTALLATION	■ OUTDOOR	
20	■ MOUNTED ON A COMMON SKID ALONG WITH DRIVER, ENCLOSED INSIDE A ACOUSTIC ENCLOSURE		
21	ELECTRICAL AREA HAZARD:		
22	Class-I, Division I, Group D as per NEC or Zone I, Group II A/ II B as per IS/ IEC		
23	APPLICABLE CODES & STANDARDS		
24	COMPRESSOR: API 11P. 2ND EDN./ PISTON / TRUNK	PIPING: ASME / ANSI B 31.3	
25	PRESSURE VESSEL: ASME SEC-VIII, DIV-1.	GAS COOLER: API 11P	
26	OIL COOLER: TEMA 'C'	SOUND: 75 dBA @ 1m FROM ENCLOSURE	
27	<input type="checkbox"/> AUX. ELECTRIC MOTORS:		
28	CONTROL PANELS & INSTRUMENTATION REFER:		
29	UTILITIES DATA		
30	<input type="checkbox"/> Cooling Water (Not Available)		
31	<input type="checkbox"/> Type:	<input type="checkbox"/> Supply temperature (°C):	
31	<input type="checkbox"/> Max return temperature (°C):		



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32	<input type="checkbox"/> Fouling Factor:	<input type="checkbox"/> Supply pressure (kg/cm ² G):
33	<input type="checkbox"/> Min. return pressure (kg/cm ² G):	<input type="checkbox"/> Design temperature (°C):
34	<input type="checkbox"/> Design pressure (kg/cm A):	
34	<input type="checkbox"/> Water Flow Rates (m ³ /hr):	
35	<input type="checkbox"/> Electricity	
36	Auxiliary Motors: Hz	V Ph
37	Oil Heaters: Hz	V Ph
38	Solenoid Valves: AC/DC Hz	V Ph
39	Instruments: AC/DC Hz	V Ph
40	Local Panel INDI. / Alarm/ Ann: AC/DC Hz	V Ph
41	Local Panel Trip Circuit: AC/DC Hz	V Ph
42	UPS: KVA, Hz	V Ph
43	<input type="checkbox"/> Total Utility Consumption	
44	<input type="checkbox"/> Cooling Water (Make UP) (m ³ /hr)	
45	<input type="checkbox"/> Power (Auxiliaries) (kW)	
46	<input type="checkbox"/> Power (Heaters) (kW)	
47	REMARKS:	
48	Vendor/ Bidder shall estimate the requirement for all utilities and indicate the same in the tabular form.	
49	<input type="checkbox"/> CONSTRUCTION/ DESIGN FEATURES	
50	Normenclature	Unit Stage#1 Stage#2 Stage#3
51	Cylinders	
52	No. of Cylinders	
53	Single Acting (SA) / Double Acting (DA)	
54	Cylinder Bore / Stroke	mm/mm
55	Rotational Speed	RPM
56	Linear Average Piston Speed	m/sec
57	Piston Displacement	m ³ /hr
58	Cylinder Liner	
59	Type of Cylinder Liner: Dry/Wet	
60	Clearance Pockets Yes/No	
61	Max. Allow. Working Pressure, Cylinder	kg/cm ² a
62	Max/Min. Allow. Working Temperature. Cylinder	°C
63	MAWP Cylinder @ Amb. Temp.	kg/cm ² a
64	Safety Valve Set Pressure, Cylinder	kg/cm ² a
65	G Helium Test Pressure, Cylinder	kg/cm ² a
66	Hydrostatic Test Pressure, Cylinder	kg/cm ² a
67	Cylinder Jacket Coling Type As Reqd.	



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**Tender for Rate Contract for a period of 02 (Two) years for
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Engine Driven (GED) and Electric Motor Driven (EMD) Compressor
Packages for CNG and CGD Network of all GAS of MNGL.**

Bid No.: MNGL/CP/2026-27/36

68	Cooling Media, Cylinder Jackets Water / AIR				
69	Max. Allow. Working Pressure, Cylinder Jacket	kg/cm2a			
70	Hydrostatic Test Pressure, Cylinder Jacket	kg/cm2a			
71	Suction Nozzle Size/ Rating/ Position				
72	Discharge Nozzle Size/ Rating/ Position				
73	Suction Valve Number				
74	Average Gas Velocity	m/sec			
75	Discharge Valve Number				
76	Average Gas Velocity	m/sec			
77	Type of Suction Valve-				
78	Type of Discharge Valve-				
79	Suction Valve Unloaders Yes/ No				
80	Clearance Pockets Unloaders Type				
81	Piston Rod Diameter	Mm			
82	Rod Reversal at Crosshead Pin (min.)	Deg.			
83	Piston Rod Runout Operating				
84	Max. Allow. Rod Load Comp.	Kg			
85	Tension	Kg			
86	Road Load Comp.	kg			
87	(Inertia Alone) Tension	kg			
88	Rod Load Rated Pr. (Gas+Inertia) Comp.	kg			
89	Tension	kg			
90	Rod Load RV Set Comp.	kg			
91	(Gas+Inertia) tension	kg			
92	Distance piece / Packing				
93	Type of Packing				
94	Packing Vent Connected to ##				
95	Packing Cooling				
96	Type of Distance Piece				
97	Cyl. Side Compartment Purged				
98	Frame Side Compartment Pressurized				
99	Distance Piece purge gas Pressure	mm H ₂ O			
100	Distance Piece purge gas Flow	Nm ³ / hr			
101	Distance Piece Vent to		Safe height	Safe height	Safe height
102	Distance Piece Hydrostatic Test Pressure	kg/cm ² G			
103	## Packaging shall be connected to vent header (7.19.4 of API-11)				
104	Frame				
105	Frame Explosion proof Relief device				
106	Flame Arrestor Yes/ No				
107	Replacable Crosshead Shoes Yes/ No				
108	Crosshead Guide Integral / Separate				
109	Maximum Frame Rating	KW			
110	Speed- Maximum/ Minimum				
111	<input type="checkbox"/> Lubrication System				
112	Type of lube system	Piping Material			
113		Carbon Steel			
114	Main Oil Pump Driven By:	Stainless Steel (all piping & valve Trims)			
115	Standby Oil Pump Driven By:	Auxiliary oil tank			
116	Hand Operated Perelube/Priming Pump:	Oil Grade:			
117	Suction Strainer	Lube Oil Composition			



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Bid No.: MNGL/CP/2026-27/36

118	Pressure Control Valve	Main pump	Make:	Model:
119	Level Sight Glass on Crankcase		Type:	Material:
120	Type of Oil Cooler:	Standby pump	Make:	Model:
121	Size of Filter		Type:	
122	Oil Heater (if required)		Material:	
123	Electric Heater with thermostat (Kw)			
124	Thermostatic Valve			
125	Type of Cylinder Lubrication	Lubricator Equipped With :		
126	Lubricator Type : Manzel or Equivalent .	level sight glass		
127	Single plunger per feed	oil heater electric with thermostat		
128	Divider blocks type.	Electric Heater (Kw) (if required)		
129	Lubricator Driven By :	Auxiliary Oil Tank (if required)		
130	Compressor Shaft	Oil Grade :		
131	Electric Motor KW	Oil System Capacity: (min 150 Hrs.)		
132	All tubing and valves in SS	Oil Consmpn. rate		
133	Double Ball Check valve on each lubrication point			
134	<input type="checkbox"/> Cooling System			
135	<input type="checkbox"/> Static filled coolant system for			
136	All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s			
137	Including expansion chamber, Vents, Drains, Level Gauge, Pipings, etc.			
138	All Piping prefabricated <input type="checkbox"/> Material			
139	<input type="checkbox"/> Atmospheric thermosyphon cooling system for			
140	All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s			
141	Including expansion tank, Vents, Drains, Coolers, Level & Temp. indicators, Pipings, etc.			
142	All Piping prefabricated <input type="checkbox"/> Material			
143	<input type="checkbox"/> Forced Cooling Water System			
144	All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s			
145	<input type="checkbox"/> Packings <input type="checkbox"/> Oil Coolers <input type="checkbox"/> Gas Coolers			
146	<input type="checkbox"/> Including drains, Vents, flow & temp. Indicators, regulating & Isolation valves, complete piping to provide one			
147	<input type="checkbox"/> Common inlet and one common outlet connections for purchaser's interface terminated by a flanged block valve			
148	<input type="checkbox"/> Block valve.			
149	<input type="checkbox"/> Each isolatable circuit to be provided with thermal relief valve.			
150	All Piping prefabricated <input type="checkbox"/> Material			
151	<input type="checkbox"/> Self contained, forced circulation, closed circuit Cooling Water System (if reqd.)			
152	All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s			
153	<input type="checkbox"/> Packings <input type="checkbox"/> Oil Coolers <input type="checkbox"/> Gas Coolers			
154	<input type="checkbox"/> Including drains, Vents, flow & temp. indicators, Temp. Control Valve, Regulating & Isolation valves, complete piping			
155	<input type="checkbox"/> Main circulating pumps with drivers & suction strainers <input type="checkbox"/> Single Coolers			
156	<input type="checkbox"/> Reservoir (Make Up) <input type="checkbox"/> Heater (if required)			
157	<input type="checkbox"/> Pumps, Reservoirs, Coolers etc. to be mounted on a common skid as to make a separate console.			
158	<input type="checkbox"/> Material of piping:			
159	<input type="checkbox"/> Type of coolant:			
160	<input type="checkbox"/> Jacket cooling			
161	<input type="checkbox"/> Gas Piping System			
162	<input type="checkbox"/> Vendor's Supply Includes: <input type="checkbox"/> Suction Separator			
163	suppression equipment as per 'next' page		<input type="checkbox"/> Pulsation	
164			<input type="checkbox"/> Suction Filter:	



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165	Strainer on Compressor Suction	<input type="checkbox"/> Temporary		
166		<input type="checkbox"/> Type of Strainer:		
167	on compressor <input type="checkbox"/> suction <input type="checkbox"/> nter-stage <input type="checkbox"/> on compressor discharge	<input type="checkbox"/> Relief Valves:		
168	Discharge Line (compressor valve design, and suction line)	<input type="checkbox"/> Check Valve on		
169	Coolers Complete With Manual Drain Valve	<input type="checkbox"/> Process Gas		
170	CompleteWith Manual/ Automatic Drain Values	<input type="checkbox"/> Separators		
171	Piping	<input type="checkbox"/> ProcessGas		
172	inlet flange of CNG PACKAGE	<input type="checkbox"/> Supply starts at		
173	priority panel with isolation valve	<input type="checkbox"/> Terminates after		
174	<input type="checkbox"/> Materials:			
175	Piping	<input type="checkbox"/> By-Pass Line		
176	discharge and 1 st stg. Suction	<input type="checkbox"/> Between 3rd stg.		
177		<input type="checkbox"/> Gas cooler		
178	Piping Between Packing Vents, PSV Relief terminating to Vent Recovery System	<input type="checkbox"/> Interconnecting		
179	piping between distance piece terminating to Vent Recovery System upto package B/L	<input type="checkbox"/> Interconnecting		
180	piping between Drains terminating as a single point	<input type="checkbox"/> Interconnecting		
181	piping between Instrument Air terminating	<input type="checkbox"/> Interconnecting		
182	Suppression Equipment	<input type="checkbox"/> Pulsation		
183	Stage#	Stage#1	Stage#2	Stage#3
184	Suction			
185	Pulse Equipment Required (Yes/No)	Yes	Yes	Yes
186	Inlet Pressure			
187	Residual Peak to Peak Pulsation%	As per API 618, CI 3.9.2.7		
188	Inlet Nozzle Size/ Rating/ Position			
189	Discharge Nozzle Size/ Rating/ Position			
190	Design Pressure Kg/cm2a			
191	Design Temperature °C			
192	Volume			
193	Material : vessels	SA 516 Gr.60	SA 516 Gr.60	SA 516 Gr.60
194	Internals			
195	Corrosion Allowance mm	3	3	3
196	Hydrostatic test Pressurekg/cm ² ,g	1.3XMAWP	1.3XMAWP	1.3XMAWP
197	Discharge			
198	Pulse Equipment Required (Yes/No)	Yes	Yes	Yes
199	Inlet Pressure			
200	Residual Peak to Peak Pulsation%	As per API 618, CI 3.9.2.7		



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201	Inlet Nozzle Size/ Rating/ Position			
202	Discharge Nozzle Size/ Rating/ Position			
203	Design Pressure Kg/cm2a			
204	Design Temperature °C			
205	Volume			
206	Material : vessels	SA 516 Gr.60	SA 516 Gr.60	SA 516 Gr.60
207	Internals			
208	Corrosion Allowance mm	3	3	3
209	Hydrostatic test Pressurekg/cm²,g	1.3XMAWP	1.3XMAWP	1.3XMAWP
210	Pulsation Suppressors are complete and installed on the Skid with supports & anchor bolts			
211	Design Code : . ASME SECT. VIII DIV. 1			
212	Analog Piping Study / Accoustic Simulation, As per Approach 3, Cl. 3.9.2.6 API618, 4th edition			
213	Upstream / downstream	Inter-stage		
214	Performed By:	<input type="checkbox"/> Vendor	<input type="checkbox"/> Any other agency having similar experience	
215	Piping Mechanical Analysis			
216	Performed By:	<input type="checkbox"/> Vendor	<input type="checkbox"/> Any other agency having similar experience	
217	<input type="checkbox"/> Automatic Drain Valves For Each Stage suction KOD			
218	<input type="checkbox"/> Capacity Control			
219	<input type="checkbox"/> Start / Stop, based on discharge receiver pressure: Fully Automatic			
220	Unloading for Start up/Shut down :Automatic Through Valve	<input type="checkbox"/> Valve Unloader	<input type="checkbox"/> Recycle	
221	<input type="checkbox"/> Interlock against loaded start			
222	<input type="checkbox"/> Automatic Control based on			
223	<input type="checkbox"/> Suction Pressure Signal	<input type="checkbox"/> Discharge Pressure	<input type="checkbox"/> FlowManual	
224	<input type="checkbox"/> Type of Actuator fluid to unload	<input type="checkbox"/> Actuation fluid to load	<input type="checkbox"/> Actuation	
225	<input type="checkbox"/> On Power / Actuation fluid failure : Compressor to	<input type="checkbox"/> Load	<input type="checkbox"/> Unload	
226	<input type="checkbox"/> At 0 % capacity through Valve Unloader, Compressor shall run			
227	<input type="checkbox"/> Continuously	<input type="checkbox"/> Maximum Hrs.		
228	<input type="checkbox"/> At 25 % capacity through Valve Unloader, Compressor shall run			
229	<input type="checkbox"/> Continuously	<input type="checkbox"/> Maximum Hrs.		
230	<input type="checkbox"/> At All other capacity, Compressor shall run continuously			
231	Vendor's scope Shall Include:			
232	<input type="checkbox"/> Pilot Devices (pressure / temperature / Flow devices ,Controllers & Switches)			
233	<input type="checkbox"/> Intermediate Devices (Solenoid Valves Pneumatic Relay / Valves)			
234	<input type="checkbox"/> Actuators			
235	<input type="checkbox"/> Recycle valves			
236	<input type="checkbox"/> Control Logic and System for Complete Capacity Control			
237	<input type="checkbox"/> Inter Connecting Tubing, Piping, Cabling & Wiring			
238	<input type="checkbox"/> Protection against extended unloaded operation (Trip)			
239	<input type="checkbox"/> valve unloaders are required as such Compressor shall start / stop at specified receiver pressures.			
240	<input type="checkbox"/> Purchaser's Interface			
241	Type of Interface (Single Point)	Size	Rating	Face
242	Main Gas Piping Inlet			Position/Location
243	Main Gas Piping Outlet			
244	Relief Valves discharge			
245	Distance Piece Vent			
246	Packing Vent			
247	C.W. Inlet			
248	C.W. Outlet			



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249	N2 Inlet Supply				
250	N2 Vent (Safe location)				
251	Drains				
252	MATERIALS				
253	Cylinder Materials				
254	Stage#	Stage#1	Stage#2	Stage#3	
255	Cylinder	C.S./ C.I.	D.I / F.S	F.S.	
256	Liner				
257	Piston				
258	Piston Rings	PTFE	PTFE	PTFE	
259	Rider Rings	PTFE	PTFE	PTFE	
260	Piston Rod	Forged steel/ AISI 4142	Forged steel/ AISI 4142	Forged steel/ AISI 4142	
261	Packings Rings				
262	Valve Seats				
263	Valve Stops				
264	Valve Rings / Plates	SS / SS	SS / SS	SS / SS	
265	Valve Springs	SS	SS	SS	
266	Cylinder Head				
267	Motion Work Materials :				
268		Material /ASTM Grades			
269	Top Cover		<input type="checkbox"/> Cast	<input type="checkbox"/> Fabricated	
270	Crankcase		<input type="checkbox"/> Cast	<input type="checkbox"/> Fabricated	
271	Crankshaft		<input type="checkbox"/> Die Forged <input type="checkbox"/> Cast	<input type="checkbox"/> Open Forged	
272	Connecting Rods		<input type="checkbox"/> Die Forged <input type="checkbox"/> Cast	<input type="checkbox"/> Open Forged	
273	Cross heads		<input type="checkbox"/> Cast	<input type="checkbox"/> Fabricated	
274	Cross heads				
275	Cross Head Guide		<input type="checkbox"/> Cast	<input type="checkbox"/> Fabricated	
276	Main Bearings Type		<input type="checkbox"/> Split Precision	<input type="checkbox"/> Bush	
277	Cross Head Pin Bearings Type		<input type="checkbox"/> Split Precision	<input type="checkbox"/> Bush	
278	Connecting Rod Bearings Type		<input type="checkbox"/> Split Precision	<input type="checkbox"/> Bush	
279	Cross Head Pin Type		<input type="checkbox"/> Split Precision	<input type="checkbox"/> Bush	
280	Note:				
281	Each package shall be provided with two number drain lines, one from Suction KOD and second drain as common drain line from intermediate and discharge KOD routed to drain vessels through gas recovery vessels				
282	<input type="checkbox"/> CONTROLS & INSTRUMENTATION				
283	<input type="checkbox"/> AC Power On/Off Switch With Indication Lamp				
284	<input type="checkbox"/> Control Power On/Off Switch With Indication Lamp YES				
285	<input type="checkbox"/> Selector Switch A/M Station For L/O Pump Motor				
286	<input type="checkbox"/> Selector Switch A/M Station For CW Pump Motor				
287	<input type="checkbox"/> Emergency Stop Push Button				
288	<input type="checkbox"/> Start Push Button For Air Compressor Motor				
289	<input type="checkbox"/> Emergency Stop Push Button for Main Motor				
290	<input type="checkbox"/> Lamp Test Push Button				
291	<input type="checkbox"/> Alarm/Trip Acknowledge /Reset Push Button				
292	<input type="checkbox"/> Frame Oil Heater ON (Indicating lamp)				
293	<input type="checkbox"/> Lubricator Oil Heater ON (Indicating lamp)				
294	<input type="checkbox"/> Engine Interlock Against Loaded Start				
295	<input type="checkbox"/> Engine Interlock Against Start Without Prelubrication				
296	<input type="checkbox"/> Low Lube oil pressure				
297	Note:				



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298	Minimum required indications, alarms & trips are shown herewith. Bidder shall provide any additional instrumentation for safe operation.			
299	Compressor shall start stop at pre determined receiver pressure as specified. Bidder shall include in his Scope includes the necessary hardware for the same.			
300	All inter-stage / discharge and suction scrubber shall be provided with high / low level operated auto drain solenoid valves			
301	INSPECTION AND TESTS			
302	Material Composition and Physical Properties Certificates Required For:			
303	■ Cylinder and Liner	■ Piston		
304	■ Crankshaft	■ Connecting Rod		
305	■ Pressure Vessel	■ Heat Exchanger		
306	■ X-Ray Examination for components: Pressure Vessels (certificates to be furnished).			
307	■ Ultrasonic Testing for components: Piston Rod, Crankshaft, Big End Bolts, Main Brg Studs.			
308	■ Magnaflux Testing for components: Crankshaft, Piston Rod, Connecting Rod.			
309	■ Dye Penetrant Testing for : Cylinder, Liner, Piston.			
310		Required	Observed	Witnessed
311	■ Shop inspection by Purchaser during manufacture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
312	■ Cylinder Hydrostatic	■	<input type="checkbox"/>	■
313	■ Cylinder Pressure Test By Helium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
314	■ HydrostaticTest of Pressure Vessels	■	<input type="checkbox"/>	■
315	■ Hydrostatic Test of Distance Piece.	■	■	<input type="checkbox"/>
316	■ Leak Proof Test of Crank case for 24 Hrs		<input type="checkbox"/>	■
317	■ Barring over to check clearance / Rod runout	■	<input type="checkbox"/>	■
318	■ Mech. Running Test with shop Driver (4 Hours min.)	■	<input type="checkbox"/>	■
319	■ Performance Test at Works as per IS 5456/PTC9/BS 726 (*).	■	<input type="checkbox"/>	■
320	■ Partial Stripping and internal inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
321	■ Functional/Continuity Tests - Control Panel.	■	<input type="checkbox"/>	<input type="checkbox"/>
322	■ Field Trial Run 72 Hrs. under Vendor's Supersion (Package)	■	<input type="checkbox"/>	■
323	■ Valve Leak Test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
324	■ Lube Oil Console Run test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
325	■ Closed Circuit C.W. System test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
326	*: During package performance test			
327	Test Certificates Required For:			
328	■ Auxiliary Motor & Pumps	■ Safety Relief Valves		
329	■ Safety Switches	■Solenoid Valves		
330	<input type="checkbox"/> WEIGHTS			
331	Overall supply (excluding driver and gear box, if any) Kg. approx.			
332	Maximum erection weight Kg. approx.			
333	Maximum maintenance weight Kg. approx.			
334	Gear Box Kg. approx.			
335	Driver Kg. approx.			
336	SCOPE OF SUPPLY			
337	■ Compressor Assembly complete with frame, cylinders, cross head etc.			
338	■ Motion work lubrication system			
339	■ Cylinder and packing lubrication system			
340	■ Cooling system			
341	■ Process Gas system			
342	■ Local instrumentation			
343	■ Local Gauge Board			
	■ Local Control Panel	■ PLC Panel		
344	■ Man Machine Interface located in Control Room			



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345	■ Main driver (Gas Engine)	
	■ Barring Device :	□ Manual
346	□ Electric . Pneumatic	
347	■ Flywheel	
348	□ V-Belts with Pulley	
349	□ Couplings	
350	■ Driver Compressor	
351	■ Guards for moving parts ■	
352	■ Baseplate Common for Compressor and Driver	
353	■ Fabricated Steel skid Common for compressor, driver and accessories	
354	■ Ladders and platforms	
355	■ Special Tools - One Set for each package	
356	■ Anchor Bolts for Complete Package	
	■ Piping supports and brackets :	■ prefabricated for piping in Vendor's
357	Scope	
358	■ Supports For Cylinders & Auxiliaries, Prefabricated & fitted in the Package	
359	■ Commissioning Spares, erection and commissioning spares	
360	■ Mandatory Spares as specified in the Job Specification	
361	■ Train Torsion Analysis Study and Report	
362	■ Acoustic Simulation Study & Report	
363	■ Vendor Data as specified	
364	NOTE : Refer checklist for scope of supply	



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Bid No.: MNGL/CP/2026-27/36

**TECHNICAL SPECIFICATION FOR
ELECTRIC MOTOR DRIVEN
COMPRESSOR (1200 SCMH, 3 STAGE AND
1600 SCMH, 2 STAGE)**



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Bid No.: MNGL/CP/2026-27/36

**DETAILED TECHNICAL SPECIFICATION & SCOPE OF WORK FOR ELECTRIC MOTOR
DRIVEN CNG COMPRESSOR (1200 SCMH and 1600 SCMH)**

1.0 GENERAL

This specification along with applicable codes as referred describe the minimum requirements for Design, engineering, manufacturing, inspection, testing, packaging, supply, erection & commissioning including Field Performance Test at site along with one year operation & maintenance during warranty period and operation and maintenance for Nine subsequent years of "1200 SCMH, 3 stage ELECTRIC MOTOR DRIVEN RECIPROCATING CNG COMPRESSOR PACKAGES" and "1600 SCMH @ 35 kg/cm² (g) & 2000 SCMH @ 43 kg/cm² (g), 2 stage ELECTRIC MOTOR DRIVEN RECIPROCATING CNG COMPRESSOR PACKAGES" as required for dispensing CNG to vehicles at various GAs of MNGL. Various parts of this specification shall be read in conjunction with each other and in case where the different parts of this specification differ the more stringent requirement shall govern.

Any additional work/equipment or technical requirement not mentioned in the specification but required to make the offered system complete in accordance with the specification or required for safe operation, shall be deemed to be included in the offer and provided by the bidder, without any additional payment.

Bidder shall be responsible for supply, erection, commissioning, and field trial run. Noise level test and performance test of all packages at sites. The field trial run of the Gas Engine Compressor will be for minimum of 4 hours in which satisfactory performance of the package together with all accessories auxiliaries and controls shall be established for satisfactory performance for specified operating conditions.

The bidder must keep the compressors operational round the clock and all the expenditures including spares and consumables, oil etc. to make the compressors operational shall have to be borne by the bidder. The power required to run the compressors will be provided by MNGL. The contractor shall always maintain the compressors in sound mechanical condition. The contractor shall rectify the defects notified by MNGL immediately and should submit all the history log sheets and spares availability status along with the report in the format mutually agreed between MNGL and the bidder.

Periodic inspections of Safety Valves. Transmitters. Pressure vessel gauge and any other equipment as per statutory norms of Factory Act 1948. SMPV and Gas Cylinder Rules shall have to be carried out by the bidder at his own cost during the period of maintenance by the bidder. The inspections must be carried out by competent persons as per advice of Engineer-in-Charge and certificates have to be submitted to MNGL.

1.1 O&M REQUIREMENTS

The contractor must follow the OPERATION & MAINTENANCE REQUIREMENT as stated below but not limited to and ensure to provide trouble free services as defined in the bid documents.

i. Accommodation/Transportation/Medical

The contractor shall make his own arrangement for the accommodation of his personnel at respective locations and subsequent transportation arrangement for them from their place of residence to workplace or any other place as required and owner shall have no obligation in this respect.

ii. Discipline

The contractor shall be responsible for the discipline and good behavior of all his personnel deployed in the services contracted out and should any complaint be received against any of



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his employee, he shall arrange to replace such persons within 24 hours of notice issued by the Engineer-in-Charge. The decision of the Engineer –in-Charge in this matter shall be final and binding on the contractor.

iii. Gate pass / Identity Card

The contract shall arrange to supply / renew identity card to his workforce at his own cost, if so, required by OWNER for security or for any other reasons. Those contractor's personnel shall be required to carry their respective identity cards while on duty and produce on demand.

iv. Right to Get Services Carried Out Through Other Agencies

Nothing contained herein shall restrict OWNER from accepting similar service from other agencies, at its discretion and at the risk and cost of the contractor, if the contractor fails to provide the said services any time.

The maintenance services shall be provided in terms of shift pattern or the round the clock basis as mentioned in the bid document.

v. MNGL will notify the start date for operation and Comprehensive Maintenance services

- After the successful completion of test run & commissioning, system taking over certificate shall be issued by the owner.
- The contractor shall deploy adequate number of technicians / supervisors / Engineers / helpers as well as tools, spares, consumables and equipment for smooth and proper maintenance of the Compressor supplied in terms of the contract. In case required to meet operational requirements, the contractor shall augment the same as per direction of Engineer-in-Charge. Contractor to depute following persons before starting maintenance of the compressor package.

Manpower	Qualification	Nos.	Remarks
Operator	12 th pass with ITI (min 2yrs relevant Exp.)	4	Site wise requirement
Supervisor (Safety & Maintenance)	Diploma in Mechanical/ Instrumentation/ Electrical/ Safety (min 4yrs relevant exp.)	1	GA wise requirement
Technician Compressor	ITI (min. 5 yrs. relevant exp.)	3	GA wise Requirement (fitter, Inst., Elect.)
Technician Gas Engine	ITI (min. 5 yrs. relevant exp.)	1	GA wise requirement
Helper	ITI (min 1yr. relevant exp.)	2	GA wise requirement

- The contractor is required to carry out all services as mentioned in the Scope of Services and Schedule of Rates on all the 365 days including Sunday and all Holiday & around the clock.
- The contractor shall allow weekly rest and daily working hours to his workmen as per the relevant Act/Law/and Rule made there under. However, no work shall be left incomplete/unattended on any holiday/weekly rest. Technician/operators provided shall have minimum qualification of ITI. Contract in person or his authorized representative shall provide the services on daily basis to interact with Engineer-in- charge and deployed workman.
- The work force deployed by the contractor for maintenance service of Compressors, shall be of sound relevant technical professional expertise which is otherwise also essential from the safety point of view of the personnel of the contractor as well as for the



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installation.

- Contractor must ensure the safety of man and machine all the times. Damages of equipment due to negligence will be recovered as per the decision of Engineer-in- Charge, which will be final.
- Regarding work completion, the decision of the Engineer-In-Charge will be final and binding.
- The contractor shall make his own arrangements to provide all facilities like boarding and transport etc. to his workmen.
- All personnel of the contractor entering on work premises shall be properly and neatly dressed and shall wear uniform, badges while working on premises of the Owner including work sites.
- Contractor shall maintain proper record of his working employee's attendance and payment made to them.
- The contractor's representative/supervisor shall report daily to the Shift-in-Charge for day to day working.
- All the safety rules and regulations prevailing and applicable from time to time at the installations as directed by OWNER will be strictly adhered to by the contractor.
- It will be the responsibility of the contractor to pay as per the minimum wages of the appropriate state-government applicable under the Minimum Wage Act 1948.
- The services shall be provided in terms of shift pattern on the round the clock basis. The contractor is responsible to provide effective and efficient services in all shifts and assure that there is no disruption in the services for want of any resources.
- The contractor shall establish a central control room to operate 24 hours, seven days a week where complaint regarding non-performance of the Compressors in terms of the contract can be lodged. Further, the contractor shall deploy adequate number of technicians/ supervisors / engineers at various site offices in consultation with Engineer-in-Charge to provide trouble free maintenance of the Compressors.
- All arrangements for communication from control room to the contract person working on job under the services shall be the responsibility of the contractor, viz. cell phone / walky-talky.
- The successful bidder shall indemnify the Owner from any claim of the contract labor.
- The bidders / contractor who fail to furnish any proof in respect of separate PF Code/No of the concerned RPF Commissioner / Authority their bids shall be liable for rejection.
- All the jobs mentioned under scope of services shall be carried out as per sound engineering practices, work procedure documentation, recommendation of the manufacturer and as per the guidelines/direction of engineer-in-charge of authorized representative.
- Summary of breakdown hour's station wise with analysis shall be submitted to CNG control room on a monthly basis both in hard and soft form as per MNGL format.
- The contractor must submit the following documents on monthly basis along with the bill:
 - ❖ Preventative maintenance compliance report for that month along with the detailed service report.
 - ❖ Details of the compressor breakdown, summary of break down hours for that month and the cumulative break down hours along with breakdown response time.
 - ❖ Compressor parameter log-book for the month.
 - ❖ Certificate to be given by the bidder stating that they have complied with all the labor regulations and are following the minimum wages act.



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Comprehensive Operation and Maintenance of compressor packages during the warranty period.

- All spares, consumables, lubricating oil, coolant required for carrying out preventive/ any type of maintenance shall be in the scope of supplier during the warranty period. The warranty spares shall be supplied by the vendor during the warranty period as per warranty clause.
- All tools, tackles and fixtures required for carrying out the above maintenance of the compressor shall be in scope of the bidder. The scope will also include handling equipment like crane, forklift, chain pulley block, etc required during the any maintenances activity.
- Any correspondence required to be made with the principal company or OEM or various offices shall be made by the bidder or bidder's agent. All arrangements like phone, fax, computer, Internet etc required for above correspondences shall be arranged by the bidder at his own cost.
- The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The bidder shall provide the detailed preventative maintenance schedule along with
 - a) Estimated down time required for each type of maintenance schedule.
 - b) List of spares and their quantities required for each type of maintenance schedule per compressor.
 - c) Type and number of man days required for each type of maintenance schedule per compressor.
- The bidder shall plan such maintenances during non-peak hours and in consultancy with the Engineer In Charge (EIC) of MNGL. Any maintenance that needs to be taken up shall be well planned with due approval of the EIC.
- The bidder shall use only OEM's certified spares during maintenances. All spares shall be kept in sealed OEM stamped packages. The packages shall be opened in front of MNGL representative during maintenance. In case, the schedule maintenance of the OEM manual recommends checking and replace parts like valve spring, valve plates, piston rings etc. after certain time interval, same shall replace or used further only on approval from the MNGL representative. However, any unto ward consequences for non-replacement of such parts shall be the responsibility of the bidder and spares, repair required to put back the unit into operation will be to bidder's account.
- All routine and periodic checks / inspections required to be done as per OEM recommendation shall be done by the bidder. Instruments required for above inspection like Vernier caliper, micrometer screw gauge, fill gauges, bore gauge etc. shall be in scope of the bidder and these instruments shall be calibrated every year.
- The contractor shall submit a copy of the daily / weekly / fortnightly / monthly/ bimonthly / quarterly and yearly performance report to the EIC in both soft and hard form. All stationery including the printed material such as compressor parameter logbook, complaint logbook, service report, break down summary report etc. shall be in scope of the bidder.
- All the maintenance / inspection job carried out by the bidder shall be recorded in a service report and the report of the same shall be jointly signed by MNGL representative and submitted immediately after carrying out the maintenance. Service report format shall be approved by MNGL.
- The EIC will be final authority to take decision with regards to maintenance or replacement of parts or any disagreement between the bidder and MNGL, during



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the execution of the contract.

- The bidder shall carryout calibration of gas detectors and flame detectors every six months or earlier as per requirement or instruction of EIC of MNGL. Also, yearly calibration of all instruments such as pressure gauges, transmitters, switches, mass flow meters etc. shall be in the scope of the bidder. In addition to the above all safety relief valves shall also be tested and calibrated every year.
- Calibration shall be done from government-approved laboratories and shall be carried out at least 15 days prior to the calibration due date.
- The bidder shall keep 1 set of safety relief valves in spare for the purpose of calibration.
- The bidder shall carry out thickness testing of pressure vessels periodically i.e. every year or earlier as per Gas Cylinder rules 2016 / Static & Mobile Pressure Vessels Rules.

Comprehensive Operation and Maintenance of compressor packages after warranty period for 9 years:

- All spares, consumables, oil and lubricants required for carrying out the Operation and Maintenance of the complete compressor packages for 9 years period after warranty period including periodic breakdown and any other materials required for operation and maintenance of the compressor packages, shall be provided by the bidder.
- All tools, tackles including special tools and tackles and fixtures required for carrying out the above maintenance of the compressor shall be in scope of the bidder. The scope will also include handling equipment's like crane, forklift, chain pulley block, etc. required during the any maintenances activity.
- Any correspondence required to be made with the principal company or OEM or various offices shall be made by the bidder or bidder's agent. All arrangements like phone, fax, computer, internet etc required for above correspondences shall be arranged by the bidder at his own cost.
- The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The bidder shall plan such maintenances during non-peak hours and in consultancy with the Engineer-In-Charge (EIC) of MNGL. Any maintenance that needs to be taken up shall be well planned with due approval of the EIC. The scope shall include preparation of maintenance schedule for carrying out the maintenance during the contract period.
- In case, the schedule maintenance of the OEM manual recommends checking and replace parts like valve spring, valve plates, piston rings etc. after certain time interval, same shall replace or used further only on approval from the MNGL representative.
- All routine and periodic checks / inspections required to be done as per OEM recommendation shall be done by the bidder. Instruments required for above inspection like Vernier caliper, micrometer screw gauge, fill gauge, bore gauge etc. shall be in scope of the vender.
- The contractor shall submit a copy of the daily / weekly / fortnightly / monthly / bimonthly / quarterly and yearly performance report to the EIC in both soft and hard form

1.2 CODES & STANDARDS



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The design, construction, manufacture, supply, testing and other general requirements of the compressor package equipment shall be strictly in accordance with the data sheets, API and other Codes as applicable, and shall comply fully with relevant National/ International standards, Indian Electricity Act, Indian electricity rules, regulations of insurance association of india and Factories Act while carrying out work as per this specification.

Any modification suggested by the statutory bodies either during drawing approval or during inspection, if any shall be carried out by the bidder without any additional cost and delivery implications.

The following codes and standards (versions/revisions valid on the date of order) are referenced to & made part of specification:

API-11P (Second edition), API – 618/ Equivalent Industry Standard, Pressurized crankcase Design /Trunk Piston Design NFPA-37, OISD 179, NFPA-52: 2016, NFPA-37-2015: Standard for installation and use of Stationary combustion Engines and Gas Turbines, ASME B 31.3-2016-process piping, NFPA-496-2017: Standard for purged and pressurized enclosures for electrical equipment, NFPA-68-2013:standard on explosion protection by deflagration venting, NFPA 12-2015: Standard on Carbon dioxide extinguishing system, NFPA -70-2017: National Electrical code,

NFPA-12, IS: 6382, Gas Cylinder Rule-2016

IS: 5571, IS: 5572, IS: 5580, IS-325/IEC or EQV for electric motor.

ANSI, ASTM, NEC, NEMA Indian Electricity Rules, Indian Explosives Act, Delhi Factory Rules,1950 ASME Section VIII Div -1 – Design code for unfired pressure vessel

1.3 PRECEDENCE

In case of any conflict among the various documents of this requisition the following preferential order shall govern:

- 1.3.1 Data sheets/drawings
- 1.3.2 Technical specification
- 1.3.3 International standards/codes as applicable
- 1.3.4 Indian Standards / codes applicable

Compliance with this specification shall not relieve the bidder of the responsibility of furnishing equipment and accessories of proper design, material, and workmanship to meet the specified operating conditions.

No deviations to the technical requirements and to the scope of supply specified in this enquiry document shall normally be accepted and offers not in compliance to the same shall be rejected summarily. In case a deviation is required due to inherent design of the equipment offered, the Supplier shall list all such deviations at one place giving reasons thereon.

- 1.3.5 Bidder shall necessarily furnish the following along with the bid without which the offer shall be considered incomplete:

- (1) Proven Track Record Formats duly filled in along with general reference list shall be submitted for the earlier supplied CNG packages.
- (2) Checklist duly filled in with regards to scope of supply
- (3) Completely filled in Data Sheets of compressor, Gas Engines
- (4) Deviations if any to this Technical Specification
- (5) Tentative Lay out/key plan/General Arrangement indicating size of skids, center



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distance between skids and space required along with maintenance requirements

- (6) (a) Utilities requirements (b) Electrical Load summary
- (7) Catalogues of compressor, engine, instrumentation & controls
- (8) Certificate from compressor block manufacturer towards guaranteed shaft power required (inclusive of all compressor driven auxiliaries load) to deliver 1200 SCMH per hour compression (on given parameters) on above guaranteed shaft power along with any electric power consumption on account of separate motors for gas coolers and radiators fan, etc. to be submitted by bidders.

1.4 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE:

1.5 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE:

The scope of work/services to be provided by the bidder shall be inclusive of but not limited to:

Design, Engineering, Manufacture, assembly, testing at manufacturer's works, erection, commissioning, field trial runs and Equipment performance acceptance test along with associated electrical, instrumentation etc. as per bid document.

Each compressor Package shall be complete with:

- Lubricated and air-cooled Compressor with suction/discharge volume bottles (dampers) as applicable, for each stage (separators) with manual drains and automatic drain system, lube oil system, closed circuit air-cooled as required. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Electrical Motor as compressor driver.
- 3 nos. mass flow meters to measure the Natural Gas consumption at packages inlet, package discharge (both Coriolis type) and package loss / venting (thermal type) with spool piece for online test arrangement. All 3 no. of mass flow meters should be of same make and should have local display and should be weather proof and same shall be interfaced with PLC.
-
- Mass flow meter required to measure the Natural Gas consumption at packages inlet, package discharge, fuel consumption at Gas Engine inlet and package loss / venting with online test arrangement. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Instrumentation and control system as specified on data sheets, P&ID including Local panel, Console/Local gauge boards, PLC with HMI.
- Common structural steel skid for the compressor-engine combination and for all auxiliary systems of maximum 3.25 m (width) x 5 m (length)/ 16.25 sq. mtr.
- Gas Inlet Pressure Regulator of 300 # class rating with an outlet discharge range of 10 kg/cm²g to 30 kg/cm² g adjustable. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Package mounted Duplex Suction gas filters with oil drain and temporary suction inline strainer at the compressor package inlet.
- Air-cooled heat exchanger for inter-stage and discharge gas as well as engine coolant.
- Suction Knockout Drums (KOD) as applicable with solenoid valve operated auto &



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manual drains. Demisters to be provided for each KOD. Vendor to ensure that KOD & coalescent filter shall be provided after the final discharge and before the mass flow meter. All drain lines shall be provided with level operated / time-based auto drain valves. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

- 9 banks Priority Panel at Package Discharge.
- 2 way Ball valves with full flow ball valve for priority line.
- All interconnecting oil, gas, water, air piping within the compressor package.
- Impulse and pneumatic piping/Tubing for all valves, fittings as specified & required for mounting the instruments. Block and bleed valves/ brass type needle valve to be provided for Pressure gauges and pressure Transmitters.
- If applicable, Separate junction boxes for different type of signals like intrinsically safe signals, alarm, shutdowns, thermocouples, RTDs etc. for interfacing to local panel.
- NRV at final discharge.
- SRV for fuel line and air compressor should be provided.
- Structural supports within the compressor package for all piping, instruments etc.
- One no. relief valve at each stage discharge, first (1st) stage suction and Blow Down Vessel (BDV). In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Coupling/V-belts/pulleys/direct.
- Y- type strainers, valves, sight flow indicators, check valves, auto & manual drain traps etc. as required for various auxiliary systems i.e. frame lube oil, cylinder lubrication system, cooling water systems etc. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- Each package shall be provided with two nos. IR Type L.E.L. gas detector with display and two nos. UV - IR flame detectors to cover the enclosure effectively. In case there is separate compartment for Gas engine and compressor, each compartment should have atleast 2 nos. GD's and 2 nos. FD's i.e. total 4 nos. Gas Detector and 4 nos. Flame Detector for the package.
- Common CO2 extinguishing system consisting of two cylinders, piping, valves and control systems (details are given at s.no.1.6).
- Inlet and outlet manual and automatic isolating valves for maintenance & emergency.
- Complete Erection, Testing & Commissioning of compressor packages.
- Training of four engineers in two batches at Packager's works. The travelling, boarding and lodging of MNGL's engineers shall be borne by MNGL. Each training module shall be for one-week span and shall cover the equipment constructional features, operational and maintenance procedures, practical hands-on experience on assembling, dismantling etc.
- Foundation structural drawing.
- Supply, Laying and Termination of following cables including all erection accessories like Lugs, Glands, Cable tray, cable tags etc is included in the scope of bidder.
- Main incoming cables laying from client PDB to main control panel of the



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compressor through Conduit/trenches.

- Bidder to consider distance of PDB in electrical room maximum 100 meters from compressor package & accessories for cable length consideration.
- Cables from compressor to hooter and up to ESD push button in customer room (Length shall be considered as 100 meter).
- Shed structure (galvanized corrugated sheet) of 10' x 8' over the Control Panel to the Operator for operating the compressor. Total structure setup, fabrication & finishing shall be in bidder's scope. Suitable Rainhood / outdoor enclosure for air compressor & dryer shall be in bidder's scope.
- Handling of goods (Package & Accessories etc.) at all stages, loading and unloading facilities at designated storage of client, Re-transportation of the package from the store to the actual site / station including transit insurance.
- All cables and air tubes laid above ground shall be provided by proper conduiting like PE pipe, GI trays through clamps and anchor fasteners. Conduit from PDB to Compressor control panel shall be made available by client & conduit /trays as required from control panel to different accessories / ESD/ units shall be in bidder scope.
- Double earthing strips (Copper for PLC panel & UPS and Aluminum for package body & accessories) shall be laid from owner earth pits and connected to the compressor and all its accessories as per the given location.
- Loading, shifting, and unloading of compressor package & its accessories on foundation shall be in the bidder's scope, if foundation of Compressor package & its accessories is not constructed during compressor shifting at sites.
- Proper Flow directions, Metallic plate tagging shall be provided to all pipelines, tubing of compressor, instruments, and accessories for identification purpose.
- Supply, fabrication, installation, testing commissioning of 2" Carbon Steel suction pipeline, 2" steel Air Line, Co2 line as per site condition shall be in the bidder's scope including all material required for pipeline fabrication, supports, copper jumpers, rubber stirps, painting, clamps, WNRF & Blind flanges etc. as per site conditions. Painting to gas suction line, airline, Co2 system, Air receiver etc as per standards at site after installation.
- Bidders are required to comply with the queries raised by PESO during site inspection in the interest of safety without any additional cost.

Exclusions

The following are excluded from the scope of the supplier:

- i. All civil works and foundation design except GED Compressor grouting. However, the Supplier shall furnish all the relevant data for design of pedestal/ foundation.
- ii. CNG storage cascade.

All piping beyond battery limits except from air compressor & air piping for air starting and piping from CO2 cylinders up to the enclosure. The air and Co2 piping shall be of seamless CS pipe.

1.6 SAFETY

- 1.6.1 All controls shall operate in a fail-safe mode i.e., failure of any control shall not lead to running of equipment in unsafe mode. Fail safe control shall be available through both software and hardware for all trips.
- 1.6.2 Area Classification: The hazardous area classification Class-I, Division I, Group D as per NEC or Zone I, Group II A/ II B as per IS/ IEC. Certificate from recognized agency to the effect that



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equipment supplied and/or installed conform to above area classification. All Devices shall meet the requirement for the specified area classification in which they are installed, including instrumentation leads.

- 1.6.3 Bidder needs to submit either the copy of valid type approval for compressor packages from PESO or copy of application towards the same along with the bid.
- 1.6.4 All exposed rotating parts shall be provided with adequate guards of non-sparking type.
- 1.6.5 Driver belt if used shall be of anti-static and fire-retardant type.
- 1.6.6 Piping shall be arranged in a manner so as to provide clear headroom and accessibility within the package. Adequate clearances shall be provided for all the engineered components. Accessibility concern if any raised by MNGL, to be handled suitably.
- 1.6.7 Acoustic enclosure for Compressor package, Each package shall be provided with two nos. IR Type L.E.L. gas detector with display and two nos. UV - IR flame detectors to cover the enclosure effectively. In case there is separate compartment for Gas engine and compressor, each compartment should have atleast 2 nos. GD's and 2 nos. FD's i.e. total 4 nos. Gas Detector and 4 nos. Flame Detector for the package.
- 1.6.8 All material used in the package shall be flame retardant.
- 1.6.9 Relief Valves shall be provided at interstage / compressor discharge with setting as per Cl. 7.20.3 of API – 11P with R.V. venting as per Cl. 7.20.4 of API-11P. Suction separator at first stage inlet shall also be provided with Relief Valve. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- 1.6.10 The Compressor Package shall trip, if any of the enclosure is opened while the machine is running. However, the bidder shall provide enclosure door by - pass selector switch to facilitate routine checking while compressor is running.

1.7 CO2 FLOODING SYSTEM:

The package shall be protected by automatically operated CO2 flooding system designed as per NFPA-12 which should have minimum following features: -

- a. CO2 flooding system should be installed for the protection of CNG compressor by automatic actuation system. The package should be protected by automatic operated CO2 flooding system designed as per NFPA-12.
- b. Gas Detection by installation of hydrocarbon gas detector (IR type) with self-check function and transmitter with adjustable alarm levels (0-100%) with preset of 10%, 20% and 50%. Each enclosure compartment should have at least 2 nos. gas detectors.
- c. Installation of flame detector (UV-IR type) with self-check function and transmitter, alarm on detection of flame. Each enclosure compartment should have at least 2 nos. flame detectors.
- d. CO2 flooding system will consist of 2 nos. brand new CO2 cylinders of 45 Kg capacity. One cylinder will act as main & other as stand by, which shall have identical arrangement and connected to the system. The cylinders should be placed in a shed raised above ground level to protect from weather and direct sunrays as per Gas Cylinder Rules, 2016. Cylinders shall be fitted with automatic actuated Valves, Solenoid valves.

No extra utility as air, inert Gas shall be made available by MNGL/used by the supplier to operate the system.

Cylinder should be ISI marked as per IS: 7285 and PESO approved. The System shall be designed to operate on 24 V DC supply. FRLS (Fire resistant low smoke) cables shall be used for the wiring of the system.

- e. Interlock of CO2 Flooding system with compressor as per following sequence:
 - i. Compressor shall trip on detection of gas at preset level.



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- ii. *Compressor shall trip on detection of flame at preset level and automatic discharge of CO₂ gas shall take place from the main cylinder simultaneously.*
- iii. *Compressor shall not start if the CO₂ Flooding System is faulty, not working, SWITCHED OFF etc. The compressor shall be able to start only when the CO₂ Flooding System is in healthy working condition.*
- iv. *Maintenance Override Switch shall be provided to keep the system off during maintenance.*
- v. *Selector switch shall be provided to put Main/Stand by Cylinder in line at the turn of a switch as per requirement.*
- f. Alarm panel for CO₂ Flooding System shall be integral with the main compressor panel. Necessary displays as system ON, OFF, FAULT, RESET, Gas/ Flame indication, Remote actuation of solenoid valve, distinguished hooter etc., shall be provided for CO₂ flooding system.
- g. CO₂ Cylinders shall be provided outside the package at a safe place, minimum 4.5 meters away (aerial distance), where it is not exposed to fire in case of fire in the compressor. Facility shall be made to operate the system both manually from remote with the help of a switch/ call point and with help of pull-down lever on cylinders.
- h. Suitable online weight (CO₂) loss monitoring/ indication device to be provided to ascertain the health of the CO₂ flooding system
 - i. All installation shall be compatible for hazardous area Class 1, Division 1, Group-D for Methane Gas.
 - ii. The system designed by the supplier shall be duly approved by MNGL.
 - iii. Technical specifications, Operation and Maintenance Manual, PESO Certificate, Approval/ Manufacturing certificates for cylinders and cylinder valves, gas detectors, flame detectors, solenoid valves etc. shall be furnished by the supplier along with system. The system provided by the supplier is sufficient enough to handle the CO₂ Flooding System independently. Necessary tools (1 set) shall be provided with the system.
 - iv. System shall be offered for testing to MNGL by the supplier after commissioning at site by creating actual Gas leak and Gas fire situations and actual discharge of CO₂ Gas from the Cylinders. This shall form a part of performance test and thereby acceptance of the package. The cylinders have to be refilled by the vendor at no extra cost to MNGL after performance test. If the system fails during testing, subsequent testing and refilling would be at vendor's cost.
 - v. Warning and Operating instructions to be displayed at equipment as per the statutory/ safety regulations.
 - vi. Piping of CO₂ flooding system shall be seamless high-pressure pipe of Schedule 40 of 50 mm dia. of appropriate length with a minimum safe distance of 4 Meter from CNG Compressor, the fittings like elbows, Tees, Union, sockets should be of same schedule and capacity for installation in a high-pressure system as per NFPA-12.
 - vii. Flameproof online weighing system, complete frame with shed and all accessories should be of good quality, weighing scale should be of reputed make.
 - viii. Specifications:

Non-Return Valve for CO₂ High Pressure Hose:

As per BIS specifications Operating Media: CO₂

Body Material: Brass, BIS: 319

Ball: SS 316



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Pin: SS 316

Seal: Teflon (PTFE) Working Pr.: 60 Bars

Test Pressure: 90 Bars for 1 min Weight: 70 gm

Outlet Size: $\frac{3}{4}$ BSP at manifold end

Inlet Size: $\frac{1}{2}$ " BSP at CO₂ Discharge Hose end Temp. Range: -29 °C to 66 °C

Hose Adapter:

As per BIS specifications Operating Media: CO₂ Body Material: Mainly Brass

Test Pressure: 250 Bar Max. Working Load: 150 Bar Temp. Range: -29 °C to 66

°C Discharge Nozzle:

As per BIS specifications Operating Media: CO₂

Body Material: Lead Tin Bronze as per BIS: 318:1981

Design Nozzle Pr.: Not less than 20.6 kgf/cm² at 27 °C

Test Pressure: 140 kgf/cm²

Marking for Code No. (on the basis of equivalent single orifice dia.): As per BIS:
6382:1982

Temp. Range: -29 °C to 66 °C

High Pressure Hoses:

As per BIS 7285:1974

Operating Media: CO₂

Hose Type: Double wire braided (perforated) rubber covered

Min. Bursting Pr.: 420 kgf/cm² at 54 °C Length: 40 cm

Cross-section: $\frac{1}{2}$ "

End Connection: $\frac{1}{2}$ " BSP (F) x W21.614 TPI

End Fittings: Brass

1.8 Ambient Conditions

Complete compressor package shall be suitable to work under the following climatic conditions:

- Max. Height above Mean Sea level: 560 meters (Approx.)
- Max. site temp.: 48 °C
- Minimum site temp.: 0 °C
- RH: 90%

2 UTILITIES & BATTERY LIMITS

2.1 UTILITIES



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- 2.1.1 Bidder shall make his own provision for Instrument and starting air with an electric motor driven Screw type air compressor, air drier and receiver system. Receiver to be sized for 6 consecutive starts (each start of at least 6 seconds) of engine within one hour. Air compressor and system should be designed for 13 to 15 kg/cm²g pressure with PRV at compressor package inlet. The flow rate of the compressor supplied shall be sufficient for 6 consecutive starts (each start of at least 6 seconds) of engine with air vessel capacity of 1000 liters (vertically mounted). Max. allowable noise level is 75dBA @ 1meter. Air drier shall be suitable for the required air flow and pressure.
- 2.1.2 All electrical and instrumentation terminals shall be as specified
- 2.1.3 For running the air compressor and illumination 415 Volt ($\pm 10\%$) 3-phase 4 wire (TN-S), 50 Hz ($\pm 3\%$) power shall be provided by Owner at a single point inside the electrical room on PDB (Power Distribution Board). Bidder shall indicate power/Feeder (KW/Amp) requirement 7 in the offer.
- 2.1.4 Purchaser shall provide the required control power for UPS (230 V, 1 phase (2 wire), 50 Hz A.C.) for UPS of supplier at single point in the electrical room. However, suitable surge protection device to be provided by the bidder of suitable rating for control power

2.2 BATTERY LIMITS

- 2.2.1 Supplier shall arrange its own UPS supply (of min. 3 KVA), testing, installation and commissioning compressor-controlled circuitry. UPS along with 2 hrs. battery back-up to be parts of vendor scope.
- 2.2.2 All customer interface connections (i.e., Gas Inlet & Gas Outlet) shall be brought out to the package edge. Gas inlet shall be connected from client's battery limit of piping with isolation valve and Gas outlet (priority panel outlet connection) shall be terminated through high pressure $\frac{3}{4}$ " full flow ball valves with end connectors for cars and 1" full flow ball valves with end connectors for bus. Bidder to provide 2" flange with blind flange in loose to MNGL steel team during installation at site.
- 2.2.3 As and where specified on the data sheets all vents (i.e., Relief valve, distance piece, packing and starting air) shall be manifolded and terminated at skid edge outside the enclosure and vented to safe height at package roof. Vent shall be terminated at height of 2m from compressor package roof. Separate header for relief valve and packing vent to be provided. Silencer has to be provided in the starting air vent line.
- 2.2.4 All drains from different process equipment, distance piece and packing shall be manifolded and terminated as single point for customer interface duly flanged with isolation valve.
- 2.2.5 Drains should be through a common header and discharge to be allowed in a pit to avoid spillage around compressor package. An oil drain pot outside of the package shall be provided to collect all drains from packaging, distance pieces, processes etc. the capacity of the drain pot should not be more than 25 litres.
- 2.2.6 All the drain collection in the Oil Recovery Vessel is accepted. ORV mounted inside the package, with a capacity of 20lts for uninterrupted operation of machine is accepted. For all drains single point threaded connection with isolation valve is accepted.

3 EQUIPMENT'S CRITERIA

3.1 Gas Compressor

The compressor block model offered shall be from the existing regular manufacturing range of the



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compressor manufacturer and shall meet the following minimum service and manufacturing experience requirements:

3.1.1 The Compressor block shall meet all the technical requirements as below:

- i. The compressor blocks shall be of horizontal balance opposed design or Trunk Piston Design only. Vertical blocks are not acceptable.
- ii. Gas compressor block shall be lubricated, and air cooled only.
- iii. The compressor block design should ensure that:
 - The emission of process gas into the atmosphere does not take place from either of the packing seals / joints / relief valves / pressure vessels such as BDV etc. Not applicable in pressurized crankcase design.
 - There should not be progressive increase of the fugitive emissions / discharge of process gas into the atmosphere with usage / wear of packing seals. Not applicable in pressurized crankcase design.
 - The compressor efficiency / production should not drop with usage and adequate measures be taken to ensure that compressor through put / production does not fall below the guaranteed parameters submitted by the bidder at any point during the lifecycle.
 - In case the compressor block design is such that it requires Nitrogen purging, the bidder shall submit all the technical details of the Nitrogen Purging System and supply the same along with the compressor package.
 - The compressor block / package design shall be such that it shall not vent process gas into the atmosphere upon sudden stoppage / emergency shutdown / power failure.
 - All the vents / relief valve discharge points shall be connected to a common manifold and discharged thru a vertical line of min 1 mtr over the highest point of the package. The line shall be designed to be able to handle the maximum flow of gas without creating backpressure. A thermal mass flow meter for measuring all the fugitive emissions / vent of process gas into the atmosphere (specifications mentioned separately) shall be provided in this line.
 - The compressor block should have a level glass to indicate the residual lubricating oil level.
 - Three stage compressor configuration is envisaged. Gas composition given under Design Case shall be used for Compressor selection, Sizing and performance guarantee estimates. Compressor shall be suitable for continuous operation with the indicated gas composition range and operating parameters given in the data sheet.
 - Compressor shall be suitable for frequent start - stop operation and shall not vent process gas while idling. In case bidder is quoting package with compressor block that may vent / discharge process gas into the environment during idling, the bidder has to confirm the same and declare the maximum extent (in kg/hr) to which their compressor design may vent the process gas during idling. In case ,compressor crankcase being pressurized same is not applicable. Necessary arrangements to prevent any kind of vents during idling shall be as per manufacturer's standards.
- iv. Compressor block design shall be such that the cylinders and the compressor block are both air cooled.
- ii. Directly coupled as well as V-Belt Drive compressor blocks are acceptable. However, the compressor driver RPM shall not exceed 1500.
- iii. The gas cooler fan shall have mechanical drive/ Hydraulically driven only.
- iv. In case the bidder is a Packager utilizing the compressor, block manufactured by other OEM then:
 - The compressor block OEM should have supplied the compressor blocks which fulfil the criteria stated from i) to vi) above.



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- Bidder must submit confirmation letter from compressor block OEM towards above.
 - Bidder shall submit the technical data sheets of compressor block duly endorsed by the compressor block OEM.
2. Suction line pressure may vary from 08 to 19 kg/cm² (g). The discharge pressure shall be 255 kg/cm² (g). Bidder may provide a suction pressure regulator to regulate the suction pressure. The suction pressure of 14 kg/cm² (g) shall be used for compressor sizing/ selection.
 3. Above suction pressures are at the compressor package battery limits. Battery limit is defined at the inlet of compressor suction and downstream of filter, PRV and flowmeter. **MNGL will provide 4"x2" tee connection of steel line within compressor area. Bidder will provide 2" Blind Flange and 2" WNRF to MNGL for tee connection and testing of above ground station pipeline. From package for Gas Suction line, Bidder has to extend the 2" steel line with isolation valve, strainer, filter etc. up to gas suction line of package. The site layout drawings shall be shared during actual execution work at site.** Bidder shall consider all pressure losses at suction, inter stage and discharge at the specified capacity (with no -ve tolerance) for compressor/engine and indicate the same on the data sheets
 4. The compressor Driver shall be suitable to start the compressor against the stabilized Pressure (30 Kg/cm²g) of the system. A gas recovery vessel of suitable capacity shall be provided to collect the gas of 1st, 2nd & 3rd stage of compression. The operating pressure of gas recovery vessel shall be 35 kg/cm²g maximum. In the event of sudden stoppage or otherwise during the operation/idling the blow down vessel shall not vent gas into the atmosphere.
 5. The compressor driver shall be capable of running the compressor under loaded condition with each stage pressurized to its respective specified pressure and final pressure up to PSV set pressure.
 6. Allowable speeds, temperature and vibration levels:
 - The rotational speed of both compressor & engine (driver) shall be limited to maximum of 1500 rpm.
 - The linear piston speed shall be 4.5 m/sec for lubricated compressors
 - The maximum discharge gas temperature for each stage shall be limited to 150-degree C.
 - Compressor maximum vibrations at cylinders and at frame shall not exceed 10 mm /sec. and 5 mm/s respectively unfiltered peak velocity. The Bidder shall provide for all structural support within the package so that these levels can be achieved.

3.2 Electric Motor

The offered Electric Motor shall be from one of the regular production ranges of reputed make for mechanical drive applications. The electric motor rating offered shall be based on internationally published standard rating.

Electric Motor shall be identical or validly similar in Model no., power rating, speeds, service, type of cooling arrangement, mechanical design etc. as supplied in CNG Compressors in India.

GENERAL SPECIFICATION

- 3.2.1 Type : Totally Enclosed Fan Cooled (TEFC)
- 3.2.2 Protection : Explosion Proof, IP55
- 3.2.3 Insulation : Class "F" with Class "B" temperature rise
- 3.2.4 Mounting : Horizontal Foot Mounted
- 3.2.5 Specification Standard : To be Indicated by Bidder
- 3.2.6 Supply Voltage (assumed) : 415 Volt, 3 Phase, 50 Hz
See details for variation
- 3.2.7 Synchronous Speed : To be Indicated by Bidder
- 3.2.8 Motor Rating : To be Indicated by Bidder
- 3.2.9 Motor Efficiency : To be Indicated by Bidder
- 3.2.10 Motor Frequency : To be Indicated by Bidder
- 3.2.11 Cooling Method : To be Indicated by Bidder



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3.2.12 Main Inlet Cable : Electrical Panel to Compressor cable shall be 433 V grade, PVC insulated armored, overall sheathed copper conductor XLPE cable complete with nickel plated double compression type cable glands/lugs, PVC insulated tapes etc. as per Clause 22.6.

3.2.13 Main Motor Drive : Main motor drive shall be Flameproof Ex(d) type. Motor starting control shall be through a VFD starter and shall be housed inside a flameproof panel, wherever installed in hazardous area.

3.2.14 Cable Glands for electrical panels and electric motors shall be of equivalent cable size. Oversized cable glands shall not be allowed. A reset knob shall be provided outside the panel/gear box on the control panel body to reset the star-delta starter without opening the flameproof panel every time.

3.2.15 DRIVE ARRANGEMENT SHALL INCLUDE THE FOLLOWING:

Drive Motor

Flexible Coupling and V-Belt

Drive Guard (Non-flammable Metallic Type)

3.2.16 VARIABLE FREQUENCY DRIVE (VFD)

The VFD used shall be of reputed make such as ABB, Siemens, Delta or equivalent approved make.

Vendor shall ensure life-long spares support for both Motor and VFD.

Installation and commissioning of VFD including cabling, cable termination, testing and commissioning shall be in Vendor's scope. Bidder shall engage OEM erection / commissioning engineer at their own cost for supervision of erection, testing and commissioning of the VFD.

All cables used for Motor/VFD shall be PVC insulated armored, overall sheathed copper conductor XLPE cables suitable for use in hazardous area classification.

Additional requirements for VFD panel installation, if any, shall be communicated during the detailed engineering stage.

4 BASIC DESIGN

4.1 GENERAL

4.1.1 The Compressor shall meet all the technical requirements as specified in:

- i. Data Sheets
- ii. Technical Specification
- iii. Code and specification (as applicable) API-11P, OISD 179, NFPA 37, NFPA 52, ANSI, ASTM, NEC, NEMA, Indian Electricity Rules and Indian Explosives Act are referenced to & made part of specification.

Compressor, engine and auxiliaries design shall be in conformity with API 11P, second edition

4.1.2 Minimum Three stage Compressor configuration is envisaged. Gas composition given under Design Case shall be used for Compressor selection, sizing and performance guarantee estimates. However, compressor shall be suitable for continuous operation with the indicated gas composition range and operating parameters given in the data sheet.

4.1.3 Suction line pressure may vary from 08 kg/cm²G to 19 kg/cm²G with discharge pressure at 255 kg/cm²G. A suction pressure regulator shall be installed to limit the suction pressure to 19 kg/cm²G. The suction pressure of 14 kg/cm²G shall be used for compressor sizing/ selection.

4.1.4 Bidder's offer shall be based on firm and final compressor models on which basis the offer shall be evaluated. All bidders shall take full cognizance of this matter before submitting the bid.

4.1.5 Note that the pressures given on the data sheet are at the compressor package battery limits, bidder shall consider all pressure losses at suction, interstate and discharge at the specified capacity (with no -ve tolerance) for compressor/engine and indicate the same on the data sheets. No venting of the gas is allowed at any point during operation.

4.1.6 The compressor Driver shall be suitable to start the compressor against the stabilized pressure (30 Kg/cm²g) of the system. A gas recovery vessel of suitable capacity shall be provided to



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collect the gas of 1st, 2nd & 3rd stage of compression. The operating pressure of gas recovery vessel shall be 35 kg/cm²g maximum. No venting of gas is allowed.

4.1.7 The compressor driver shall be capable of running the compressor under loaded condition with each stage pressurized to its respective specified pressure and final pressure upto PSV set pressure.

4.1.8 Near Zero Gas Loss compressor package design is envisaged. The Compressor packages with gas loss in excess of 1% shall not be accepted

4.2 ALLOWABLE SPEEDS, TEMPERATURE AND VIBRATION LEVELS

4.2.1 The rotational speed of both compressor & engine (driver) shall be limited to maximum of 1500 rpm.

4.2.2 The linear piston speed shall be limited to 4 m/sec for non-lubricated compressors and 4.5 m/sec for lubricated compressor. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.2.3 The maximum discharge gas temperature for each stage shall be limited to 150°C.

4.2.4 For balance opposed compressor design, Compressor maximum vibrations of cylinders shall not exceed 10 mm/sec. unfiltered peak velocity. Maximum Vibration level of installed compressor frame shall not exceed an unfiltered peak velocity of 5 mm/sec. or 200-micron unfiltered peak to peak vibration whichever is less. The Bidder shall provide for all structural support within the package so that these levels can be achieved. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3 PISTON ROD, BEARINGS AND CROSS HEADS (AS APPLICABLE)

4.3.1 Piston rod should be TC3 coated in the areas that pass through the packing and the surface hardness should be Rockwell C58~C64 minimum. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3.2 Crosshead shall be as per manufacturer's standard material and designs. Adequate openings for removal of the crossheads shall be provided. Crosshead guide cover should be preferably transparent. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.3.3 Piston rod and cross head pin loading at any specified operating condition including the relief valve set condition shall not exceed 80% of the maximum design rod load of the offered compressor. Rod loads shall have sufficient reversals in direction for all specified operating conditions including PSV Settings and part load operation. The calculation for rod loading at various conditions may be submitted.

4.4 PACKING CASES AND PRESSURE PACKING (AS APPLICABLE)

4.4.1 All oil wiper intermediate gas cylinder pressure packing shall be segmental rings with stainless steel garter springs. The pressure packing case shall be provided with a common vent and drain routed outside the package enclosure. ERW steel, seamless steel tubing conforming to ASTM A-192 or series 300 SS tubing conforming to ASTM A-269 with minimum thickness as specified in Cl. 7.11 of API-11P shall be used for vent piping. It may not be applicable for compressor with pressurized crank case design.

4.4.2 Packing vent piping inside of the distance piece shall be designed for the maximum allowable working pressure of the cylinder. It may not be applicable for compressor with pressurized crank case design.

4.4.3 Bidder to indicate the allowable packing vent in their designs in SCM along with the bid.

4.5 COMPRESSOR FRAME LUBRICATION (AS APPLICABLE)

4.5.1 Compressor frame lubrication shall be pressurized system, with main oil pump driven directly by the compressor shaft.



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4.5.2 All lube oil piping after oil filter shall be 300 series stainless steel conforming to ASTM A 269/ Oil galleries.

4.5.3 As applicable, heating shall be provided for reservoir when the minimum ambient temperature is less than the Bidder's required minimum start up temperature.

4.6 DISTANCE PIECES (AS APPLICABLE)

4.6.1 As applicable, compressor manufacturer's standard Type-1 or Type-2 of API 11 P shall be provided as a minimum.

4.7 CYLINDER AND PACKING LUBRICATION (AS APPLICABLE)

4.7.1 Secondary lubrication system with double puppet check valve protector, HP Filter (for all lubricating points) & DNFT flow switches with standby pump. Secondary lubrication system with divider block shall be provided. . In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.7.2 Lubricators shall be driven by crankshaft and bidder shall highlight any pre lubrication requirements of the cylinders and the method of achieving the same.

4.7.3 Lubricators shall have a sight flow indicator for each /Common lubricator point and a stainless-steel double ball check valve shall be provided at each lubrication point.

4.7.4 Digital no flow switch shall be provided to stop the compressor in case of loss of cylinder lubrication in any stage/ packing. Manufacturer's standard arrangement with a common digital NO flow switch (time based) is accepted. When there is no – pulse (from cylinder lubrication - divider block) for certain time interval, the switch should toggles & the compressor should be tripped on lubrication fault.

4.7.5 Lubricator reservoir capacity shall be adequate for 150 Hrs. of normal operation, and shall be equipped with low-level alarm. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.7.6 Bidder shall furnish along with their bids the details of the recommended Lubricating oil type, International Grades & Specifications along with their quantity and changing frequency/ schedule. The recommended oil shall be compatible with gaskets, 'O' rings, seals, packing, lubricating parts and other parts coming into contact.

4.8 COOLING SYSTEM

4.8.1 Engine Jacket/Compressor Cylinder

Compressor cylinders shall be air cooled. The usage of cooling water shall be limited to the engine cooling and the radiator thereof cooled by an air-cooled heat exchanger.

4.8.2 Inter/After Gas Coolers

Air-cooled Interstate and Final stage discharge coolers shall be provided which shall limit the gas temperature after the after cooler to ambient+10-degree C. For calculating the surface area of the air cooler, the ambient air temperature of 47.5°C and 90% RH shall be considered. Cooler design shall be based on 20% extra design based on the thermal duty at most severe condition corresponding to suction pressure. Gas sections of coolers shall be designed as per API-11P requirements and shall be inspected by any approved 3rd party inspection agency. Engine oil cooler and jacket water coolers shall be so designed that the vendor's maximum permissible temperature (47.5°C+10°C) is not exceeded at the maximum ambient temperature of 49°C. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.9 SEPARATORS & OIL REMOVAL SYSTEM



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4.9.1 Carbon Steel separators / KOD at suction and inter stage and with SS 300 series, mist extractors, auto system (level/time based) shall be provided for the capacity as required. All the separators with auto drain system over manual drain system shall be considered for safety reasons, only ORV with manual drain considered. Drain system will be timer based as per manufacturer's standard offering. Manual drain valve is to be provided for draining oil in depressurised circuit for draining oil when compressor is in stop condition.

4.9.2 All pressure vessels shall be designed as per ASME VIII Div. 1 practice and sourced from =bidder approved vendor

4.9.3 The offered scrubber and mist removal shall restrict the oil level to < 5 ppm in the discharge gas of compressor and the equipment shall be designed accordingly.

All vessels including pulsation dampers shall be fully (100 %) radiographed as per ASME VIII UW (a) Minimum design temperature for separators shall be 100 degree C and minimum design pressure shall be maximum operating pressure plus 15% for inter stages and plus 10% for final stage.

4.9.4 Gas Recovery System: It shall comprise of the following.

Blow Down Vessel shall be sourced from a bidder approved vessel manufacturer and shall conform to ASME SEC VIII DIV I Edition 2015.

The name plate of the BDV shall have the manufacturer's name and following parameters: Design Pressure, Design Temperature, Hydro Test Pressure, Corrosion Allowance, Radiography, Heat Treatment, Empty Weight & Capacity / as per Manufacturer standard.

Bidder shall provide blow down vessel to act as:

- A buffer tank during start-up.
- Gas flow dampener during compressor operation.
- Surge tank for depressurization of each of the compressor stage piston cylinders during shutdown.
- Blow-down tank size shall be as per Gas Cylinder Rules and duly certified for the purpose. The gas recovery vessel shall be provided with pressure relief valve and necessary instrumentation to avoid cold flaring of gas.
- Capacity of the BDV shall be such that no gas is vented into the atmosphere either that start or stop or any time during operation.
- Bidder shall provide gas recovery system with gas recovery vessel of sufficient capacity (operating BDV pressure should not exceed 25 Kg/cm²g) so as to limit the gas pressure inside vessel to 30 kg/cm²g after tripping of compressor at PSV trip set pressure of final stage discharge. Gas recovery vessel shall be designed as per the ASME code and will be inspected by Third Party Inspection Agency, approved by Purchaser. Calculation for BDV volume shall be considered 20% higher than calculated volume and it should be calculated on higher range (08 to 19 bar).
- One vent line from gas recovery vessel with double isolation valves shall be provided. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- It is preferred that BDV shall be placed on top of the package enclosure. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.
- The bidder shall carry out retesting of pressure vessels periodically i.e every year or earlier as per Gas Cylinder rules 2016/ Static and Mobile Pressure Vessels Rules.



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Note: Under slung, package base mounted blow down vessels are not acceptable. The BDV shall be mounted on the top of the package in a manner that shall facilitate periodic visual inspections as well as testing as per norms.

4.9.5 All separators / KOD's shall be provided with 3 mm corrosion allowance.

4.10 PULSATION, VIBRATION CONTROL AND ANALOG STUDY

4.10.1 Bidder shall provide pulsation, suppression devices at each suction and discharge of compressor cylinders.

4.10.2 The design of pulsation suppressing devices shall be based on the acoustic and mechanical evaluation carried out as per API 618-design approach 3.

4.10.3 These devices must reduce pressure pulsation in piping within 3%. These pulsation dampers shall be designed to limit pressure drop to 1%. The minimum acceptable volume of pulsation suppression device shall be 10 times the cylinder swept volume.

4.11 Electric Work General Specification and Description

4.11.1 All electrical equipment installed within the equipment enclosures shall be pre-wired to minimize electrical installation time at site.

4.11.2 Electrical items such as control and system protection devices shall be wired using PVC sheathed SWA (Single Wire Armored) cables, supported on galvanized cable trays and secured using nylon cable ties. All control cables shall be routed through cable trays only.

4.11.3 All electrical equipment, if provided as part of the compressor package, shall be installed in accordance with NFPA 70, NEC for Class 1, Division 1, Group D, IS 5571, and other applicable standards. The equipment shall be approved by a recognized certifying authority, and the Bidder shall furnish all relevant certificates.

4.11.4 Hazardous area motors and associated equipment shall possess valid test certificates issued by recognized independent testing agencies such as CMRI, BASEEFA, LCIE, UL, FM, or equivalent. All indigenous motors shall conform to applicable Indian Standards and shall be certified by authorized Indian testing agencies. Both indigenous and imported motors shall have valid statutory approvals (such as CCOE, etc.) applicable for the specified location. All indigenous flameproof motors shall additionally possess valid BIS license and marking as required by statutory authorities.

4.11.5 Electrical wiring shall terminate in "Ex" certified marshalling boxes to facilitate site connections.

4.11.6 Separate marshalling boxes shall be provided for Exd certified operational and control equipment (such as ventilation fans, solenoid valves, etc.) and for system protection devices operating under an intrinsically safe control system. All cable cores shall be identified at both ends using terminal numbers.

4.11.7 The main incomer shall be an MCCB (Moulded Case Circuit Breaker) suitable for Variable Frequency Drive (VFD) application. Provision shall be made for operation from outside the panel. The MCCB shall be microprocessor-based and shall provide overload, short circuit, and earth fault protection.

4.11.8 A Motor Protection Device (motor current-based protection) shall be provided to protect against overcurrent and earth fault conditions.

4.11.9 Electrical supply parameters:

All electrical shall be suitable for the following supply conditions.

- Electrical operating voltage : AC, 3 phase, 415 V, 50 Hz 22.2 Electrical control voltage : 240 VAC, 50 Hz (under supplier's scope)
- Tolerance of voltage : + 15%
- Tolerance of frequency : + 3%
- All solenoid coils, power contactors etc. shall have operating voltage of 240VAC, and 50 Hz.
- PURCHASER shall provide 415 V, TPN electrical connection at only one designated point inside electrical room for complete electric driven compressor package. Bidder shall distribute electric power to all equipment and control system by providing a suitable control / distribution panel. Suitable double



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compression glands shall be provided for termination of main cable in the panel and all electrical equipments. The approximate distance of electrical room from compressor is about 40 meters. The bidder shall include cables accordingly for electrical panel location in safe or hazardous area alternatives as described else where in this specification.

- Motor shall be TEFC squirrel cage type in standard frame size as per IS/IEC rated for continuous duty with high efficiency and designed for VFD starter. Motor torque shall be compatible with speed torque curve of compressor. Motor windings shall be class 'F' insulated with temperature rise limited to class 'B'. Minimum degree of protection of motor enclosure shall be IP55 as per IS. Motors for use in hazardous areas shall have flameproof protection Ex(d) as per area classification.
- The electrical power supply distributions panels, switchgear panels and starter panels shall be skid mounted construction, weather and vermin proof suitable for installation in the compressor package. There shall be FLP push button panel available at the compressor skid. The switch gear shall have one incomer and adequate number of outgoing feeders. The incomers shall be provided with suitably rated switch fuse unit, digital multi-function meter to display voltage, current, PF etc. Motor feeders shall be provided with heavy duty switch. HRC link type fuses, contactors (AC-3 duty), bi-metal relay, single phase preventor, ammeter, push buttons, earth leakage relays, and indication lamps for Start/Stop/Trip, etc. Adequate number of MCB feeders for control and lighting shall be provided. Supplier shall furnish single line diagram of the panel with the bid.
- There shall be separate panel for main incoming switch (MCCB) and the VFD starter of main motor.
- There shall be a minimum clearance of 30 mm between the two power contactors and between the other switchgears (as per relevant standards).
- Suppliers shall make provisions for earthing of the complete package as required as per IS.
- All electrical shall comply with latest IS/IEC. Epoxy-based paints shall be applied on all electrical equipment.
- Supplier's scope shall include obtaining statutory approvals for the complete package, wherever necessary.
- Bidder shall provide uninterrupted power supply (UPS) with internal battery and in-built voltage stabilizer (VS) / Voltage conditioner (VC), to take care of the voltage fluctuations within +/- 15 % of rated voltage (240 VAC) along with the necessary interconnecting cables. Make of the UPS shall be of Keltonics/ Automatic/ Voltamp/ Paramount with 500 Ah with 1 hour's backup power, considering battery voltage of 12V. The bidder shall also be responsible for lying of such cables, installation and commissioning of UPS which shall be installed in electrical room with minimum connectivity distance of 75 meters. Critical electronics/ electrical equipment like UPS shall be packaged properly while dispatching package & care shall be taken by bidder that this equipment shall be protected against worst possible atmospheric conditions when in MNGL store or at site.
- The Motor rating shall have 10% margin on compressor power requirement of rated case and motor rating shall be suitable for compressor power requirement of entire range of operating suction pressure under any of the specification operating conditions. All motors shall be tested in accordance with IS/IEC. package, wherever necessary.
- In the event of power failure / abnormalities, UPS shall provide power back up to PLC and power meter.
- Pre-lubricated sealed bearings for all motors may be considered provided a full guarantee is given for 10 years of trouble – free service without necessity of re- lubrication.
- Copper lugs shall be used for all cable terminals.

4.11.10 Preferred makes of electrical equipment shall be as follows:

- FLP motors : ABB/Siemens/BALDOR/WEG/Crompton Greaves/Bharat Bijlee
- FLP Switchgear : Baliga/ FCG/ FPE/ Sterling/ Flexpro/Sudhir or Equivalent subjected to MGL approval
- Switches/fuses/contactors : GEC/Siemens/Schneider.
- PLC : Siemens/Telemecanique/ Schneider
- IR Gas detectors : Detcon (IR700)/ Crowcon (Nimbus)/ Det-Tronics (PIRECL)/ ESP or equivalent subjected to MGL approval. Refer Annexure-IV.
- UV Flame detectors : Refer Annexure-IV for technical details.



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4.12 COUPLING

- 4.12.1** Directly coupled driver-compressor arrangement and Power transmission should be preferably thro' flexible coupling. V-Belt driven compressor is also acceptable. In case of belt drive idler pulley must be provided for adjustment of belts. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

4.13 ENCLOSURE OF CNG COMPRESSOR PACKAGE

- 4.13.1 The Compressor Package enclosure shall be constructed out of MS Sheets and Iron Frames as per OEM Specifications. The enclosures shall:
- Have dedicated base frame for mounting the compressor block, engine and accessories. (The base frame with integrated blow down vessel is not acceptable as it does not permit either the inspection or testing as per Gas Cylinder Rules).
 - Each compartment shall be provided with two numbers IR Type L.E.L. gas detectors and two numbers UV - IR flame detectors.
- 4.13.2 The maximum allowed temperature within the enclosure shall be 10 °C above ambient temperature.
- 4.13.3 The enclosure shall restrict maximum noise level to 75 dB (A) at 1 meter from the enclosure.
- 4.13.4 The enclosure shall have doors for normal access and removable wall panels for ease of maintenance.
- 4.13.5 All pressure, temperature of gas shall be visible from outside of enclosure. lube oil pressure, coolant temperature indicators etc. parameters shall be viewed from PLC/locally.
- 4.13.6 Enclosures shall have internal flame proof lighting arrangement.
- 4.13.7 For handling of all heavy parts for maintenance purpose lifting arrangement i.e. beam fitted with chain hoist shall be provided in enclosure.
- 4.13.8 All Coolers, knock out Drums, if applicable, Scrubbers, Cooling System, lubrication system along with interconnecting piping shall be inside the enclosure.
- 4.13.9 Enough headroom shall be made available for easy access and maintenance of all equipment.
- 4.13.10 Components such as pressure gauges, temperature, pressure switches, filters, automatic ball valves, safety valves etc., which require in-situ adjustment, maintenance and reading, shall be easily accessible.
- 4.13.11 The enclosure shall be lined with Rockwool / UL approved fire-resistant PU foam to curtail noise. PU foam should be fire resistant and adequate enough to maintain 75 dBA.
- 4.13.12 The enclosure roof shall have provision for mounting of the blow down vessel, silencer cum catalytic converter, air filter, vent mass flow meter etc. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

All Coolers, Knock Out Drums, Scrubbers, Cooling System, lubrication system along with interconnecting piping shall be inside the enclosure. Enough headroom shall be made available for easy access and maintenance of all equipment in the enclosure. The piping layout with respect to the compressor, intercoolers, KOD and auxiliary's location shall be subject to Purchaser's approval during detailed engineering stage.

- Conduits and tubing shall be arranged in orderly and systematic manner and shall be routed neatly to enter the back of display or monitoring panels



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- Routine service item such as, but not limited to, crank case oil filters, inter stage gas filters, inlet and outlets gas filters and drive belt shall be located to facilitate easy one- man servicing.
- One person should be able to access crank case oil inlet and drains to allow addition or drainage of oil without removing panels or adjacent components and without the need of the pump.
- Items which must be operated & monitored during operation shall be readily accessible without opening the door.
- Suitable gradients shall be provided on the enclosure roof for rain drainage and to avoid water pockets.

4.14 PIPING

- 4.14.1 All gas piping shall be designed, fabricated & tested in accordance with ANSI B 31.3.
- 4.14.2 Gas piping shall be seamless carbon steel manufactured in accordance with ASTM A- 53 Gr. B or ASTM A - 106 Grade B. All Gas piping shall be flanged connections.
- 4.14.3 All rigid piping, tubing & other components of compressor package shall be designed for full range of pressure & temp and loading to which they may be subjected with a factor of safety of at least 4 based on minimum specified tensile strength at specified ambient temperature.
- 4.14.4 All rigid piping shall be continuous between their respective components & free of connections except welded joints. All high-pressure joints shall be welded unless otherwise not feasible.
- 4.14.5 The instrument air tubing material shall be Stainless Steel series –304.
- 4.14.6 All high-pressure double ferrule fitting & 2/3-way valves shall be from SWAGELOK or PARKER make & shall be SS 316 material only.
- 4.14.7 Bidder shall furnish Y-type strainer /a conical strainer fitted with adequate size mesh at the gas inlet before the filter.
- 4.14.8 External drain & vent piping shall be Carbon Steel and not less than 1/2" nominal size.
- 4.14.9 Mercaptan/THT dosing is envisaged hence all materials coming in contact with gas shall be compatible to such gas with Mercaptan/THT dosing and be of compressor manufacturer's standard. The use of SA 515 material is prohibited.
- 4.14.10 All high-pressure gas tubing shall be of SS 316 of Sandvik make and hardness less than Rb 80.

Note: In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

5 CONTROL PHILOSOPHY

- 5.1 The compressor package control system shall be designed for unattended operation in automatic mode and in case of any fault it will go in a safe mode.

Compressor Package shall be provided with a PLC based LCP of approved make (i.e. Siemens/Allen Bradley/ABB/GE/Honeywell/Schneider), which shall be weatherproof to IP65 and shall be certified suitable for specified hazardous area classification. PLC should be integral with the package with necessary Hazardous Area Certificate (HAC) compliance. HMI shall be of touch screen type. All operational buttons shall be on touch screen except the Emergency stop button. Touch screen display system shall be weather proof to IP65.



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PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply for bump less changeover from one CPU to the other. In case there is change due to Manufacturer's standards, the same shall be evaluated for acceptance during detailed engineering.

Interface. PLC components/system shall be tropicalized, MIL standard adopted with complete wiring and necessary terminals. Wiring to be colour coded with cross ferruling in position.

PLC shall be capable of carrying out on line routines for at least ten separate loops without affecting the scan, cycle & up dating time etc.

PLC shall be capable for display of flow meter data (i.e. Gas Suction, Gas Discharge, Gas consumed by the engine), various trips/abnormal conditions, compressor running hour etc. in following manner

- a. Shift wise (for 3 shift operations i.e., 06:00-14:00, 14:00-22:00 & 22:00-06:00) - shall be available for at least last 96 hours
- b. Daily basis- shall be available for at least last 31 days
- c. Fortnightly basis- shall be available for at least last 3 fortnights
- d. Monthly basis- shall be available for at-least last 2 months

PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with dial up connectivity. One card for transferring and accessing data from minimum twenty devices with RS 485 port shall be provided. PLC SCADA connectivity is required as per the attached specification at Annexure-IX.

PLC would be provided with integral keyboard and display for configuring, programming and to view process & machine parameters. Suitable communication port shall be provided to download programs etc from PLC through a Laptop. Laptop not included in Bidder's scope.

All source & object codes including logic flow chart, ladder diagram etc are to be furnished by the Packager and PLC shall be capable of incorporating function Block diagram, sequence function chart, ladder diagram and structural text as per IEC 61131.

There shall be three independent ports available in the PLC with all the parameters available on each individual port.

Out of three ports from first port there shall be arrangement to retrieve the data in external storage device such as memory card/ pen drive. Data may be required in suitable format as per MNGL Engineer In-charge discretion. This will include critical temperature, pressure, flow, running hour etc information. Depending upon the parameter's calculation of Gas loss, Efficiency, normalized efficiency etc is also required.

Second port shall be for remote monitoring of the parameters. Besides PLC display, all the parameters which are measured, should be monitored on a HMI/MMI for remote monitoring as well as of remote operation. Data should be stored at 2 places simultaneously in case of failure of one device, data can be retrieved from second device. Trends, alarms, events should be logged for at least 3 months on day/hour/minute basis.

Third port shall be available for any third-party interface which shall be OPC compliant for networking or SCADA. The recorded data or part of the data may be required to transmit to remote locations over open/secured network through internet/ Ethernet using local cable/ data card/ sim-card (GPS/GPRS/CDMA). Modem / router or any other medium to transmit the data should be available. Vendor shall provide protocol details to MNGL and also provide necessary support for third party interface for remote data connectivity.



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Redundancy in PLC is required. PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply, Interface. PLC components/system shall be tropicalized, MIL standard adopted with complete wiring and necessary terminals. Wiring to be colour coded with cross ferruling in position. PLC shall be capable of carrying out on line routines for atleast ten separate loops without affecting the scan, cycle & up dating time etc. PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with dial up connectivity. One card for transferring and accessing data from minimum twenty devices with RS 485 port shall be provided. In case of failure of master / active controller/CPU, standby controller/CPU should take over the control in bump less manner. All values & data should be available through both the controllers immediately, i.e. there should be no data loss.

Successful bidder to include in scope live demonstration of remote monitoring of all PLC logged parameters in one machine at his works. MNGL may ask for the same. However, this may be required to be demonstrated at site.

There shall be an interlocking provision in PLC program for tripping of machine due to communication break or power failure of flow meters.

Fail safe / Wire break alarm for safe operation. Machine should trip in case the loop is broken for GD/FD/PT/TT.

Each cable shall be neatly tagged& dressed of each for instrument. There shall be identification tags for individual instruments.

In PLC pressure process values should be taken from pressure transmitters and should be independent from pressure gauges installed on local gauge panel. Temperature process values should be taken from temperature element like RTD/ thermocouple and should be independent from temperature gauges installed on local gauge panel.

- 5.2 The compressor package control system shall be so designed that the first item to go into alarm condition shall lock out to indicate the cause of the trip though the cause of the trip may have disappeared. The lock out condition shall be manually reset. A change over set of contacts shall be provided for Owner's use to give a remote indication of alarm and trip.
- 5.3 In auto mode, compressor shall start automatically in case high bank storage pressure falls below 220 kg/cm² and stop as soon as pressure of stationery cascade reaches 255 kg/cm².
- 5.4 The priority fill system (In bidder's scope) shall ensure the filling of vehicle, storage cascade and mobile cascade in correct order.
- 5.5 In case of fault, a warning hooter shall operate, the sound of which should be audible at distance of at least 15 meters. Further the fault alarm and emergency stop PB shall be duplicated in the CNG station control room. Acknowledgement/resetting of fault shall be possible only from compressor panel. Emergency stop PBs shall be mushroom head turn lockable type.
- 5.6 Once the fault is acknowledged or the engine and/or compressor are under normal maintenance, the valves of priority panel shall take the position so that gas available in the stationary CNG storage cascade can be dispensed.
- 5.7 The pressure in each bank shall be monitored from down-stream of priority panel.
- 5.8 Bidder shall provide emergency shut down (ESD) system in the control room as well as locally mounted on the compressor panel and one no. on the enclosure. Total 3 nos. of ESD switches to be provided as a minimum.



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- 5.9 Fail-safe system shall be designed and incorporated to isolate cascade storage from dispenser, stop compressor, isolate the compressor suction line and cut off fuel gas supply to engine on activation of ESD switch.

ESD switch shall have to be manually reset to restart the compressor package again.

- 5.10 Bidder shall provide Application program for PLC, HMI (Human Machine Interface) on LCP (one set per package) along with all interfacing adaptors and cables. Bidder shall also provide one set of source & object codes for PLC, HMI on LCP (in both forms, hard & soft).

- 5.11 All pressure and temperature at compressor inlet, outlet, at each stage before and after cooling, all engine related pressure temperature, all cooling water temperature at inlet and outlet to be available on the PLC.

- 5.12 PLC shall have historical as well as event recording system for at least last 200 events as per attached section: General specification for instrumentation.

- 5.13 Remote Monitoring

The compressor package should be equipped with GPRS based Remote Monitoring and Analysis Solution for relay of the data to a remote server and monitoring of the PLC parameters. This is in order to facilitate Predictive and Preventive maintenance and also to enhance safety in operations.

The Remote monitoring system shall fulfill the following minimum requirements:

- 24 x 7, every minute relay of PLC data to dedicated Server.
- Database of all operational parameters of the PLC shall be maintained in Server Storage.
- Supplier shall provide web access to Purchaser and create log in ID's as per Purchaser's requirement (Max. 20 log in ID's).
- The Web access shall allow Purchaser to view all the historical parameters of the compressors in formats as per Purchaser requirement.
- The Server should be programmed to automatically mail the daily log book parameters to Purchaser's servers at designated address.
- There should be feature of user defined virtual set points in the server to trigger pre- alarms. These set points shall be in virtual mode in the server and shall in no way interfere with the working of compressor or OEM defined set points in package PLC.
- The server shall send e-mail and SMS intimation to Purchaser's designated numbers in case of fault/breakdown.
- The Webpage shall display Daily production / gas loss and package wise gas loss along with daily log.
- The Webpage shall display amount of Natural Gas consumed by engine in Kgs to produce one Kg of CNG.
- The Webpage shall also highlight the pipeline pressure available at station Vs. production in Kgs. The bidder shall make provision to tap & read Station Pressure.
- The Server shall have provision to push data to Purchaser's Servers for integration / mapping of production rates and losses etc. to Purchaser's SAP system.
- Logging of gas compressed by respective compressors.
- In case MNGL need the live data access, same shall be provided by the bidder.



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- Note: SCADA is not in bidder's scope. Ethernet port is to be provided for SCADA communication. SCADA compatibility is to be provided for remote monitoring.

6 INSTRUMENTATIONS

- 6.1. All Instruments shall be suitable for an area classification of "Class 1, Division 1, Group D as per NEC "OR "ZONE 1, Group IIA/IIB as per IS/IEC".
- 6.2. All package mounted transmitters/transducers & temperature element shall be intrinsically safe " ia" as per IEC 79-11 and solenoid valves, switches and related junction boxes shall be certified flame proof (Eexd) as per IEC 79-1 by a statutory body viz. FM, BASEEFA etc. for the specified hazardous area classification. Other special equipment's/instruments, where intrinsic safety is not feasible or available the same shall be flame proof (Eexd) certified suitable for the specified hazardous area by a statutory body as per IEC 70-1. All analog as well as digital input to PLC shall be connected through barriers. All analog barrier shall be isolator type.
- 6.3. The compressor package instrumentation & control is to be configured for manual as well fully automatic control system including starting, shutdown as applicable for unattended operation. Control system shall be PLC based with make and model no. duly approved by MNGL.
- 6.4. Instrumentation electronics shall be certified by a recognized authority such as BASEEFA, PTB, LCIE, CESI, INIEX, and SMRS./ CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI).
- 6.5. All the instrumentation shall be capable of operating for full range of operation. For detailed instrument specification refer attached Section: General Specification for Instrumentation.
- 6.6. If required, separate junction boxes shall be provided for each type of signal i.e., analog, digital, solenoids, RTD thermocouple and power supply. Instrument junction boxes should not have any high voltage connection.
- 6.7. All pressure gauges and pressure transmitters shall be provided with block & bleed valves and have accuracy of + or - 1% of Full Scale Deflection (FSD). Centrally located gauges to monitor machine performance from single location is accepted. Also, brass type needle valve for isolation of Pressure gauges and pressure transmitters is accepted.
- 6.8. The temperature gauge shall be generally gas in steel filled type, weatherproof & with capillary extension. Capillary tubing shall be min SS 304 with stainless steel flexible armoring. The gauge shall have accuracy of + or - 1% Full Scale Deflection (FSD). The range shall be 1.5 times of operating temperature.
- 6.9. All field instruments power shall be limited to 24 VDC. Power conversion unit if required shall be in the scope of the vendor. All instruments and enclosures shall be dust proof and weather proof to IP 65 as per IEC-529/ IS 2147.
- 6.10. Units of measurement shall be:
GAS FLOW -Kg/hr & SM³/hr
PRESSURE -Kg/cm² g
TEMPERATURE -⁰C
- 6.11. The package shall be supplied with 4 nos. mass flow meter, one each for compressor suction, discharge, engine fuel consumption and for measuring vent loss. While the suction, discharge and fuel consumption meters shall be Coriolis principle based approved for custody transfer application, the mass flow meter for measuring vent loss shall be thermal type.
 - 6.11.1 Each Mass Flow meter shall include a sensor with integral transmitter i.e. meter electronics certified intrinsically safe/explosion proof by statutory authority suitable for the required hazardous area as per IS-2148 /IEC-79. Also, the offered sensor and the transmitter shall be weather proof to IP 65 as per IS-2147/IEC-529. Statutory authority for local installation is PESO.



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- 6.11.2 Allowable pressure drop for the flow meter at the inlet of the engine is 0.2 kg/cm² and allowable pressure drop for the flowmeter at the inlet and outlet of the compressor shall be 1.0 kg/ cm². Offered mass flowmeter shall be necessary for Custody Transfer application but not exceeding 0.5% of span.
- 6.11.3 Calibration for the offered mass flow meter shall be in Kg/hr and SM³/hr. Pressure, Temperature compensation shall be provided by the meter.
- 6.11.4 Flying lead type electrical termination is not acceptable. All electrical connections shall be ½” NPTF. Cable glands shall be provided for electrical power, signal and control connections. Cable glands shall be double compression type and certified weatherproof and explosion proof for the required area classification as per IS-2147 and IS-2148.
- 6.11.5 Offered Mass flow meter shall be completely free from corrosion of measuring tube due to alternating stresses continuously occurring in the tube. Also measuring tube shall be completely free from erosion, which may result due to fluid velocity.
- 6.11.6 The design of meter electronics shall be in compliance with the electromagnetic compatibility requirements as per IEC-801.
- Meter Electronics shall include all the associated pre-amplifiers converters lineariser etc.
- 6.11.7 Installation details like straight run requirements, recommendation for horizontal /vertical installation, minimum distance between upstream and downstream pipe bends from Mass flow meter to be provided.
- 6.11.8 Vendor shall calibrate each Mass Flow meter at his shop or any recognised test house with the fluid (Use design process conditions) for which it is to be used as per Clause no.9 of MPMS (Draft standard Nov. 2000). In case it is not possible to calibrate the Mass Flow meter with actual fluid. Vendor must indicate:
- Fluid used for calibration
 - Correction factor/Adjustment required for actual process fluid. In any case, inaccuracy when extended to actual process shall not exceed the specified limits (as per manufacturer's standard).
- 6.11.9 Vendor shall submit the following test certificates and test reports for purchaser's review:-
- Material test certificate with detailed chemical analysis from foundry (MIL Certificate).
 - Certificate of radiography / x-ray for any welded joint.
 - Hydrostatic test report with pressure of 1.5 times the design pressure.
 - Calibration report including calibration factors for each Mass flow meter certificate from statutory body for offered sensor and transmitter for required area classification.
- 6.11.10 Individual (2/3 core) cabling is required for each field instrument from field JB to avoid multiple JB's and multicore cables in field for easy trouble shooting & replacement.
- 6.11.11 Each cable shall be neatly tagged & dressed for each instrument.
- 6.11.12 There shall be provision of relay for DO cards between PLC & SOV & barriers/ isolators for DI cards between field & PLC. The barriers and isolators should be either single or double channel in place of multichannel for easier replacement.
- 6.11.13 All the instrumentation shall be capable or operating for full range of operation.
- 6.11.14 Separate junction boxes shall be provided for each type of signal i.e. analog, digital, solenoids RTD, thermocouple, intrinsic safe and for power supply. No cable shall share power & signal.
- 6.11.15 Suitable bypass for interlocks shall be provided for start-up.
- 6.11.16 Compressor package shall be provided with the following indicators:
- Pressure Gauges at each gauge suction and at final discharge



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- Temperature Indicators (Local Panel) at each stage discharge
- Digital Temperature Transmitters at each stage suction and after final stage cooler, providing display at HMI, and having interlock with compressor trip upon exceeding 59 degrees celcius.
- Oil pressure indicator on each pressure lubrication system
- Oil levels indicator, field mounted
- Hour meter shall be available at HMI. Separate hardware not considered.
- Non- resettable electromechanical hour meter on local control panel.
- Hydraulic oil cooler inlet & outlet temperature on local gauge panel (if required)
- Hydraulic oil pressures each stage on local gauge panel (if required) The Compressor package shall be provided with the following trip devices:
 - a. Low oil level protection devices
 - b. High oil temperature devices
 - c. Low suction pressure protection devices
 - d. High discharge temperature protection device
 - e. Coolant flow low devices
- Flame detection
- Gas detection
- Emergency stop devices
- Fail safe/ wire break alarm for safe operation
- Interlocking provision in PLC program for tripping of machine

The compressor package shall be furnished with the following trip logic that shall stop the compressor and suction of compressor shall be isolated:

- On low oil level
- On high oil temperature
- On low suction gas pressure
- On high discharge pressure
- On high discharge gas temperature
- On coolant flow low
- On fire detection
- On gas detection
- On pressing manual stop button at local control panel
- On pressing emergency stop devices

6.11.17 Each compressor package shall be provided with an audible and visual alarm system for annunciation on compressor abnormalities.

6.11.18 Junction box shall be of explosion proof type with 10-20% extra terminal strip & cable gland shall be of double compression type.

6.11.19 Gas detectors and flame detectors should be mounted with the canopy.



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6.11.20 ESD button (3 Nos.) shall be provided (Customer Interface room, locally mounted on package and Panel room). A separate hooter for customer interface room shall be provided with annunciation window alarm of individual protection device.

6.11.21 All instrument shall be of internationally reputed manufacturer

6.11.22 Emergency shut down devices

6.11.23 The emergency shut down (ESD) system is also in scope of vendor. This shall be in accordance with NZS 5425. A fail-safe system shall be designed and incorporated to isolate cascades storage from dispensers, stop compressor isolate the compressor suction storage line and cut off power supply on activation of ESD switch. This ESD switch shall have to be manually reset to restart the compressor package again.

6.11.24 Local Control Panel

- There shall be three independent ports available in the PLC with all the parameters available on each individual port.
- Out of three ports, from first port there shall be an arrangement to retrieve the data in external storage device such as memory card/ pen drive. Data may be required in suitable format as per MNGL engineer in charge discretion. This will include critical temperature, pressure, flow, running hour information etc. Depending upon the parameters calculation of gas loss, efficiency, normalized efficiency etc. is also required.
- Second port shall be for remote monitoring of the parameters. Besides PLC display, all the parameters which are measured should be monitored on a HMI/ MMI for remote monitoring as well as of remote operation. Data should be stored at 2 places simultaneously, in case of failure of one device data can be retrieved from second device. Trends, alarms, events should be logged for at least 3 months on day/ hour/ minutes/ basis.
- Third port shall be available for any third party interface which shall be OPC compliant for networking or SCADA. The recorded data or part of the data may be required to transmit to remote locations over open/ secured network through internet/ Ethernet using local cable/ data card/ sim card (GPS/ GPRS/ CDMA). Modem/ router or any other medium to transmit the data should be available. Vendor shall provide protocol details to MNGL and also provide necessary support for third party interface for remote data connectivity.
- Redundancy in PLC is required. PLC shall incorporate all process parameters (specified elsewhere) and status of compressor, engine & priority panels and shall be modular in construction with 100% redundancy with respect to CPU, Power supply, Interface. PLC components/ system shall be tropicalised, MIL standard adopted with complete wiring and necessary terminals. Wiring to be color coded with cross ferruling in position. PLC shall be capable of carrying out on line routines for at least ten separate loops without affecting the scan, cycle & updating time etc. PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition system complete with GPRS and Ethernet connectivity. One card for transferring and accessing data from minimum twenty devices with RS485 port shall be provided. In case of failure of master/ active controller/ CPU, standby controller/ CPU should take over the control in bump less manner. All values & data should be available through both the controllers immediately, i.e., there should be no data loss.
- Successful bidder to include in scope live demonstration of remote monitoring of all PLC logged parameters in one machine at his works. MNGL may ask for the same. However, this may be required to be demonstrated at site.
- PLC based logic circuits shall be used for control & interlock of the compressor package with RS485 SCADA
- Local control panel shall be furnished with annunciation window alarm of individual protection device and a common hooter for audible alarm.



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- Local panel should have separate push button for start, stop, emergency stop, alarm acknowledge, alarm rest & test button for checking healthiness of annunciation system.

6.11.25 Priority fill system

Contractor shall supply priority fill system with compressor top-up facility inclusive of regulating valves, check, by pass valves & liquid filled pressure gauges all mounted in a stainless-steel panel. All fittings and tubes used in priority system shall be of stainless steel of suitable pressure rating. The priority fill system is to be installed to ensure that vehicle filling takes priority over cascade filling and direct CNG to three storage banks in correct sequence. The compressor shall shut down once all three-cascade storage banks are filled to 250 barg. Compressor shall start on pressing of manual start push button & automatically when the cascade storage high bank pressure of compressor falls to 200 barg and shutdown automatically when all 3 stages of stationery cascade are filled to a pressure of 250 barg.

6.12. Certification:

The requirement of statutory approvals for usage of equipment/instruments/system in electrically hazardous areas shall be as follows:

- a. The vendor shall be responsible for obtaining all statutory approvals, as applicable for all instruments and control systems.
- b. Equipments/instruments/systems located in electrically hazardous areas shall be certified for use by statutory authorities for their use in the area of their installation. In general, the following verification shall be provided by the vendor.
 - Bidder shall provide PESO or Equivalent certificates (from FM, CSA, ATEX, UL, CMRI etc.) from country of origin for all intrinsically safe/flameproof protected by other methods equipment/instrument/systems, which are manufactured outside India. If required, bidder shall provide necessary certification/approvals/authentication, for all such intrinsically safe/flameproof equipment/instrument/systems, by the Indian authority– PESO.
 - For all flame proof equipment manufactured within India, the testing shall be carried out by any of the approved testing houses- Central Mining Research Institute (CMRI)/ERTL etc. The item shall in addition bear the valid certification from PESO and also the manufacturer shall hold a valid Bureau of Indian Standards (BIS) licence.
 - For all intrinsically safe equipment manufactured within India the testing shall be carried out by any of the approved testing houses – Central Mining Research Institute (CMRI)/ERTL etc. The item shall in addition bear the valid certification from PESO.

7 EARTHING / CABLING

Metallic part of all equipment not intended to be live shall be connected to earth as per provisions of IS: 3043/IEC recommendation. Grounding of all electronics shall be separately connected to earth using insulated copper wire. Grounding of electronic equipment shall not be connected to earthing for electrics or equi-potential bonding.

7.1 Cabling

- 7.1.1 Cables for Power & Control inside as well as outside the enclosure shall be 2.5 Sq. mm (copper) and 1.5 Sq. mm (copper) respectively.
- 7.1.2 Cables shall be 1100-volt grade, stranded copper conductor, PVC insulated PVC sheathed, steel round wire armoured. FRLS cables.
- 7.1.3 Cables shall be terminated using double compression type metallic flameproof cable glands and copper lugs.
- 7.1.4 Spare cores to be kept in each control cable.
- 7.1.5 All Junction Boxes (JBs) shall have metallic enclosure



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7.1.6 Cables for control circuits shall be single phase (2 wire), 240 V, 50Hz A.C. supply from UPS.

8 INSPECTION AND TESTING

8.1 General

- a) Inspection and Test Requirements have been spelled out in respective Equipment Data Sheets and Technical Specifications and QAP.
- b) Bidder shall confirm compliance to all inspection and testing requirements stipulated therein and included the inspection charges in the lump sum cost.
- c) All tests which are required to be witnessed as per data sheet and this specification shall be witnessed by the Purchaser. The bidder shall notify the timing of such inspection and testing to MNGL at least 15 days in advance and MNGL shall depute their representative for witnessing the test and/or a third-party inspection agency shall be appointed by MNGL for witnessing the test at MNGL's own cost.
- d) Bidder shall submit detailed Test Procedure for Approval of the Purchaser two months in advance of the actual date of conducting each test.

8.2 Mechanical running test (MRT)

- a) The MRT for the 25% compressors block of the lot shall be carried out with job or shop driver including complete job driving system i.e., job driven V-belt, job pulleys etc., for 4 hours continuously at the premises of compressor block OEM. The compressor need not be pressure loaded for MRT test. During this test following shall be recorded at agreed intervals (as applicable).
 - Vibration levels measured on cylinders and frame
 - Oil cooler inlet and outlet temp (as applicable)

Subsequent to satisfactory run the compressor shall be examined as per standard procedure & following shall be examined as minimum:

- Visual examination of position rod, cylinder guide bore without dismantling

If any of part found damaged, all similar components shall be stripped for inspection. The MRT test shall be repeated after replacement of such parts. Bidder to submit their FAT format along with bid, which shall be approved during detailed engineering

9 PERFORMANCE GUARANTEES, LOADING AND PENALTIES

9.0 This section describes the guaranteed parameter, which the CNG compressor package must fulfil, the penalty for shortfall in guaranteed parameters and rejection of compressor package by the Purchaser.

9.1 The guaranteed parameter shall be adjusted to account for variation in gas composition and prevailing ambient condition during testing.

9.2 Necessary calculations correction curves shall have to be furnished by Bidder along with bid, which shall be final & no deviation shall be permitted afterwards.

9.3 In case of any inconsistency in manufacture and/or operation of supplied compressor package, Bidder shall at his own risk and cost, eliminate the defects to the satisfaction of Owner.

9.4 Compressor Capacity:

For 1200 SCMH EMD Compressor:

Bidder shall guarantee 1200 SCM/hr capacity (as the case may be) of compressor with design case gas composition, at suction pressure of 14 kg/cm²g, suction temperature of 38°C, discharge pressure of 255 kg/cm²g with the negative tolerance for errors in instruments and measurements.



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Since the compressor suction pressure varies from 08 kg/cm²g to 19 kg/cm²g the compressor shall be sized / selected for specified capacity of 1200 SCMH at 14 kg/cm²g (with no -ve tolerance) whereas the driver shall be selected on the basis of compressor BkW with either 08 kg/cm²g or 19 kg/cm²g whichever is higher.

For 1600 SCMH EMD Compressor @ 35 kg/cm²g:

Bidder shall guarantee 1600 SCM/hr capacity (as the case may be) of compressor with design case gas composition, at suction pressure of 35 kg/cm²g, suction temperature of 38°C, discharge pressure of 255 kg/cm²g with the negative tolerance for errors in instruments and measurements.

Since the compressor suction pressure varies from 35 kg/cm²g to 43 kg/cm²g the compressor shall be sized / selected for specified capacity of 1600 SCMH at 35 kg/cm²g (with no -ve tolerance) whereas the driver shall be selected on the basis of compressor BkW with either 35 kg/cm²g or 43 kg/cm²g whichever is higher.

For calculation purpose 1kg of CNG = 1.3699 SCM

The same shall be used to establish the capacity at test bed during package performance test.

9.5 Loading Against Package Gas Loss:

The bidder shall design the compressor package so that no venting and leakage of gas takes place. Bidder shall indicate actual vent & leakage losses through the compressor package. If package loss is quoted more than 1% of suction capacity gas consumption than bid shall be rejected. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools and tackles, erection and commissioning will be loaded as per following formulas:

For 1200 SCMH EMD COMPRESSOR:

$$F = G \times H \times I \times N \times W \times Df$$

Where, F = Loading amount in Rs.

G = Vent/Leakage rate quoted in percentage

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

W = 876 kg for 1200 SCMH

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

For 1600 SCMH EMD COMPRESSOR:

$$F = G \times H \times I \times N \times W \times Df$$

Where, F = Loading amount in Rs.

G = Vent/Leakage rate quoted in percentage

H = Cost of Natural Gas per Kg @ Rs. 79/- per kg

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

W = 1168 kg for 1600 SCMH

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

9.6 Loading against Energy Consumption:

The compressor package shall be designed in such a way that Energy Consumption of electric motor (KW/Hr) should be minimum for production of CNG. Bidder shall indicate actual energy



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consumption for their compressor package. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools & tackles, erection and commissioning will be loaded as per following formulas:

For 1200 SCMH EMD COMPRESSOR:

$$F = (G-Q) \times H \times I \times N \times Df$$

Where, F = Loading amount in Rs.

G = Bidder's Energy consumption rate quoted in KWH for every 1200 SCMH (876 Kg) of CNG produced

Q = Lowest Energy Consumption rate quoted among all vendor in KWH for producing 1200 SCMH (876 Kg) of CNG produced or 138 KWH whichever is higher

H = Unit cost of electricity (Rs 19 / KWH)

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

Energy Consumption quoted by the bidder under guaranteed parameters shall lie within the range of 138 to 146

KWH for 1200 SCMH. In case the Energy consumption quoted by the bidder exceeds the upper limit, i.e. 146 KWH for 1200 SCMH the bid will be rejected. Bidder shall not be given any advantage/credit for quoting energy consumption below 138 KWH for 1200 SCMH.

Therefore, bidders are requested to indicate the fuel consumption very carefully.

However Cumulative loading on package gas loss and energy consumption limited to 10 % of the supplied value of compressor package (Compressor package cost + Air compressor with receiver & accessories cost+ string test cost)

For 1600 SCMH EMD COMPRESSOR:

$$F = (G-Q) \times H \times I \times N \times Df$$

Where, F = Loading amount in Rs.

G = Bidder's Energy consumption rate quoted in KWH for every 1600 SCMH (1168 Kg) of CNG produced

Q = Lowest Energy Consumption rate quoted among all vendor in KWH for producing 1600 SCMH (1168 Kg) of CNG produced or 140 KWH whichever is higher

H = Unit cost of electricity (Rs 19 / KWH)

I = Avg. no. of running hours per year i.e. @ 3650 hours

N = Number of machines

Df = Discounting factor @ 10 % to arrive at Net Present value (NPV) based on 10 Years i.e. 6.145

Energy Consumption quoted by the bidder under guaranteed parameters shall lie within the range of 140 to 148

KWH for 1600 SCMH. In case the Energy consumption quoted by the bidder exceeds the upper limit, i.e. 148 KWH for 1600 SCMH the bid will be rejected. Bidder shall not be given any advantage/credit for quoting energy consumption below 140 KWH for 1600 SCMH.



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Therefore, bidders are requested to indicate the fuel consumption very carefully.

However Cumulative loading on package gas loss and energy consumption limited to 10 % of the supplied value of compressor package (Compressor package cost + Air compressor with receiver & accessories cost+ string test cost)

9.7 Loading against lower discharge capacity:

For 1200 SCMH EMD Compressor:

CNG compressor package's lifetime production capacity (in Kgs for 65,700 hours) is an important parameter to compare different makes of compressors being offered by vendors. It is intended to purchase capacity of 876 Kg per 1200 SCMH at 14 Kg/cm² suction pressure

The loading shall be calculated on basic equipment price (excluding taxes). Packages with maximum capacity below 820 Kgs per hour shall not be accepted.

For 1600 SCMH EMD Compressor:

CNG compressor package's lifetime production capacity (in Kgs for 65,700 hours) is an important parameter to compare different makes of compressors being offered by vendors. It is intended to purchase capacity of 1168 Kg per 1600 SCMH at 35 Kg/cm² suction pressure.

The loading shall be calculated on basic equipment price (excluding taxes). Packages with maximum capacity below 1051 Kgs per hour shall not be accepted.

9.8 Penalty towards Excess Gas Loss:

At the start of O&M period or even at any point of time during the O&M period, cost towards excess gas loss beyond the quoted figure shall be deducted from O&M bills.

Following calculations shall be used for deduction towards excess gas loss:

$$F = 1.5 \times [G - (Q \times D)] \times H$$

Where,

F = Penalty in Rupees to be deducted from O&M bill

G = Monthly Vent/Leakage loss observed during O&M period

Q = Vent / Leakage loss quoted

H = Cost of Natural Gas/Kg – Rs. 79/- per Kg

D = Production during the month (discharge meter) Considering G above shall be taken as (Suction – Discharge – Engine Fuel Consumption) OR Reading from Vent Mass Flow Meter, whichever is higher.

9.9 Penalty towards Excess Energy Consumption:

At the start of O&M period or even at any point of time during the O&M period, cost towards excess energy consumption beyond quoted figure shall be deducted from O&M bills.

Following calculations shall be used for deduction towards excess fuel consumption.

For 1200 SCMH EMD COMPRESSOR:

$$F = 1.5 \times (G - Q) \times H \quad \text{Where,}$$



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- F = Monthly Penalty in Rs.
- G = Monthly Actual Energy consumption in KWH
- Q = Guaranteed energy consumption rate quoted by supplier for every 876 Kg of CNG x CNG produced during the month
- H = Cost of power KWH @ Rs. 19/- per KWH

Note : The penalty for excess fuel consumption shall be calculated for only those days, when the Suction pressure of the machine is equal to or above the minimum guaranteed suction pressure of 14 kg/cm²g. The days where suction pressure is lower than 14 kg/cm²g, shall not be considered for calculation of figures “G” & “Q” and thus excluded from calculation of monthly penalty.

Penalty towards Package Efficiency Loss

This penalty shall be imposed on compressor blocks not capable of delivering rated capacity of 1200 SCMH

Following calculations shall be used for penalty towards package efficiency loss:

$$F = 2 \times \{(1200 \times H \times RD \times AD) - M\}$$

Where,

F = Penalty Amount in Rupees

H = Hours clocked in a month

RD = Average RD for the month using GC Data

AD = Air Density = 1.22541

M = Discharge mass flow during the month in Kgs

Note:

- All the penalties pertaining to energy consumptions, efficiency, gas-loss during O&M periods shall be imposed after rationalization of parameters inline with the performance curves submitted by the bidder along with the Tender documents.
- Gauge Pressure at Station Inlet shall be used as benchmark for imposition of penalties and not suction pressure being displayed at the PLC.
- Pressure regulator shall not be used to reduce the pressure at the compressor block inlet below 14 Kg/Cm².
- In case pipeline pressure at the station itself is less than 14 Kg/Cm², then the penalty shall be imposed if the package delivery falls below discharge values corresponding to the station pressure.

For 1600 SCMH EMD COMPRESSOR:

$$F = 1.5 \times (G - Q) \times H \quad \text{Where,}$$

F = Monthly Penalty in Rs.

G = Monthly Actual Energy consumption in KWH

Q = Guaranteed energy consumption rate quoted by supplier for every 1168 Kg of CNG x CNG produced during the month



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H = Cost of power KWH @ Rs. 19/- per KWH

Note : The penalty for excess fuel consumption shall be calculated for only those days, when the Suction pressure of the machine is equal to or above the minimum guaranteed suction pressure of 35 kg/cm²g . The days where suction pressure is lower than 35 kg/cm²g, shall not be considered for calculation of figures “G” & “Q” and thus excluded from calculation of monthly penalty.

Penalty towards Package Efficiency Loss

This penalty shall be imposed on compressor blocks not capable of delivering rated capacity of 1600 SCMH

Following calculations shall be used for penalty towards package efficiency loss:

$$F = 2 \times \{(1600 \times H \times RD \times AD) - M\}$$

Where,

F = Penalty Amount in Rupees

H = Hours clocked in a month

RD = Average RD for the month using GC Data

AD = Air Density = 1.22541

M = Discharge mass flow during the month in Kgs

Note:

- All the penalties pertaining to energy consumptions, efficiency, gas-loss during O&M periods shall be imposed after rationalization of parameters inline with the performance curves submitted by the bidder along with the Tender documents.
- Gauge Pressure at Station Inlet shall be used as benchmark for imposition of penalties and not suction pressure being displayed at the PLC.
- Pressure regulator shall not be used to reduce the pressure at the compressor block inlet below 35 Kg/Cm².
- In case pipeline pressure at the station itself is less than 35 Kg/Cm², then the penalty shall be imposed if the package delivery falls below discharge values corresponding to the station pressure.

9.11 Penalty for Non-Performance during Ten Year Period of Operation & Maintenance including one year of warrantee period

Details of Penalty for non performance of equipments

- a. On normal day (i.e. the day other than the schedule maintenance day):
 - i. party has to ensure that the complete package is available for operation for a minimum of 98% of the Operational hours in a Quarter. If availability is below 98% then penalty @ of 10,000 per % or part thereof shall be applicable.
 - ii. Penalty for Compressor package shall be applicable either for daily availability or for monthly availability 98% of compressor package; whichever is higher.
 - iii. In any case, the maximum penalty imposed in a month for non-performance of the equipment would be limited to 50% of the amount of O&M charges to be paid to the party per month per compressor.



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- iv. Bidder shall carry forward unutilized breakdown/availability hour for next one quarter with the approval of MNGL.
- v. In case if the services for attending major maintenance are to be provided by third party like fabrication work shop, Motor winding, etc., then Sundays/ Public Holidays / Intervening holidays will be excluded from arriving at B/D time.
- vi. Attending to Breakdown needs activities like fabrication, casting, forging, motor rewinding or any other that takes time however, and the total continuous downtime shall not be more than 72.0 hours.
- vii. Any Major Overhauling/ maintenance require to send at OEM or Third-party workshop the permissible time for major servicing of engine at OEM workshop is 120 hours.
- viii. Daily necessary Check ie. Daily PM Checklist, Oil Top-up, Housekeeping time shall be not considered while calculating breakdown.
- ix. If the equipment is down for more than 8 hours on any day, Penalty would be applicable as follows:
 - upto 24 hours: Rs. 10,000/-,
 - Beyond 24 hours: Rs. 20,000/- per day.
- b. On schedule maintenance day:
 - i. The party would be required to carry out the recommended schedule/preventive maintenance of the equipments for which the party has to indicate the time required for each type of schedule maintenance.
 - ii. If the equipment is down for more than 4 hours & upto 12 hours beyond the time indicated for the agreed schedule maintenance, the party would be penalized Rs. 10,000/- and for more than 12 hours Rs. 20,000/- per day.
 - iii. In any case, the maximum penalty imposed in a month for non-performance of the equipment turns out be 50% or more of the amount of O&M charges to be paid to the party per month per compressor (a complete cost break up of O&M charges need to be furnished by the bidder), MNGL will take necessary actions as per terms and conditions of the contract for such non-performance.
 - iv. In case there is a continuous breakdown beyond 72 hours up to 15 days, 50% of monthly comprehensive maintenance charges excluding operational part will be deducted.
 - v. In case there is a continuous breakdown beyond 15 days, which is not in the control of the contactor, no maintenance charges will be paid. Only operation charges may be payable on sole discretion of EIC.

10 PAINTING AND PROTECTION

10.1 Packing shall be sufficiently robust to withstand rough handling during ocean shipment & inland journey. Sling points shall be clearly indicated on crates.

10.2 Surface Preparation

- (a) Rust, rust scale and foreign matter shall be removed fully to ensure that a clean and dry surface is obtained. The minimum acceptable standard for blast cleaning shall be Sa 2-1/2 or equivalent as per Swedish Standard SIS- 055900-1967 or equivalent.
- (b) Blast cleaning shall not be performed where dust can contaminate surfaces undergoing such cleaning or during humid weather conditions having humidity exceeding 85%.



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(c) The first coat of primer must be applied by brush on dry surface. This should be done immediately after cleaning.

(d) Surface shall be inspected by MNGL/ third party before application of primer.

10.3 Painting (Primer & Finish Coat)

Following primer and finish coats to be applied on the canopy and all structural parts as a minimum: -

a) Primer: Two component epoxy zinc phosphate primer with minimum volume solids of 59%, an initial cure of 75 minutes at 25 deg. C and a weight of around 2.52 kg/liter.

No. of Coats: 1

DFT: 75 (micron) each

b) Primer: Two component intermediate coat with epoxy high build MIO (micaceous iron oxide) of minimum volume solids of 80%, an initial cure of 60 minutes at 25 deg. C and a weight of around 2.1 kg /liter.

No. of Coats: 1

DFT: 100 microns

c) Finish Coat: Acrylic Polyurethane paint

No. of Coats: 2

DFT: 50 (micron) each coat

Total DFT 100 microns

Total DFT after application of primer and paint shall be 275 e (micron) minimum

10.4 The vendor to ensure that exterior steel surface of equipment and piping painted shall have a fade free life without oxidation of paint surface for at least 5 years in an environment of bright sunlight with an intense UV content.

10.5 The headers of air-cooled exchanger shall be zinc sprayed/ heat resistant epoxy painted.

10.6 Bidder shall make all arrangement for paining of enclosure once in period of 3 years or whenever required whichever is earlier.

11 ERECTION, TESTING AND COMMISSIONING AT SITE

11.1 Bidder shall be responsible for erection commissioning, performance test, field noise level test and field trial run of all compressor packages at site.

11.2 Bidder shall be liable to pay all local taxes, levies applicable and comply with rules, laws prevailing in concerned state.

12 FIELD TRIAL RUN / PERFORMANCE ACCEPTANCE TEST

1) FIELD TRIAL RUN (Commissioning and Commercial Operation) :

Bidder shall conduct a field trial run of each compressor package for minimum 72 hours cumulative or 6 hours continuous duration near the guaranteed points in which satisfactory operation of complete package together with all accessories/auxiliaries controls shall be established for specified operating conditions prior to the start of operation and maintenance period as defined in the contract. During the field trial run the bidder will be allowed a maximum of THREE attempts to complete the above-specified test. The Equipment shall be considered commissioned after the successful completion of Field Trial Run. Further Commencement of commercial operation will be intimated by client.

2) Package Performance Test (PT)



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Duration of PG test shall be 4 hours with compressor running on continuous basis, however if load is not available at site intermittent running for 4 hours shall be permitted with maintaining minimum continuous operation of ½ hour. Bidder to submit PG test procedure for review / approval. Complete package shall be performance tested as a module along with gas engine & compressor as per Performa (to be decided during engineering). Bidder shall demonstrate all controls, shutdown, trips & alarms, functioning of Instrumentation system, PLC, Motor / Gas engine etc. Pressure and temperature of gas shall be considered at purchaser's boundary limit (or before filter unit of package if provided) and as indicated in the Instrumentation schedule; if provision not available then supplier shall install necessary pressure and temp measuring devices. Discharge PT & TT of compressor will be used for discharge pressure and temperature measurements. All instrument duly calibrated, tools & tackles, any modification required for conducting PT shall be in the scope of supplier.

The PT shall be conducted only after 30 days' running of the machine after successful commissioning or after 30 days from the date of commercial operation, but not later than 90 days from the date of commercial operation of the machine. The delay in conducting PT beyond 90 days shall be liable for PRS unless such delays are solely attributable to the owner(i.e. due to inadequate load, non-availability of CNG vehicles for conducting PT).

The test shall be the basis of assigning penalties on the Bidder of the package thereon. Bidder shall submit the detail test procedure for the same, which shall be approved by PURCHASER/CONSULTANT. The test package shall be witnessed by PURCHASER/CONSULTANT.

Bidder to note that prime mover speed correction shall not be allowed below guaranteed speed. Temperature and pressure will be considered at purchaser's boundary limit, if provision is not available at compressor suction and discharge as explained above.

3)OPERATION & MAINTENANCE SERVICES: The date of start of commercial operation as intimated by client will be considered as date of start of the annual maintenance contract. However, bidder shall be paid only 50% of O&M charge for operation and maintenance of the compressor from the date of commercial operation upto the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through PT. The balance 50% of O&M charge (from the date of commercial operation upto the date of PG test) shall be released to the bidder subsequent to successful PT (ie, after establishing all the guaranteed parameters as per tender) In case the PT is not successful, the balance 50% shall be forfeited.

13 SPARE PARTS, SPECIAL TOOLS AND TACKLES

- 13.1 Special tools & tackles for erection and commissioning and for operation & maintenance are required to be supplied along with the package. These tools and tackles left after work completion shall be the property of MNGL.

Vendor shall maintain sufficient spares to fulfill the warranty & subsequent four years period requirements. In case of additional requirement during the warranty period, if any spare part is taken from MNGL, the same shall be replaced to MNGL with new part supported by necessary document for its authenticity of being new & original spare part.

- 13.2 A brand-new separate set of special tools and tackles as per compressor as required for preventive maintenance as well as breakdown maintenance beyond the contractual one-year operation period shall be supplied by the packager, which shall form the property of MNGL. Special tools shall include 2 nos. Web deflection gauge along with supply of 3 nos. of Compressor package.

14 DATA AND DRAWING



**MAHARASHTRA NATURAL
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Bid No.: MNGL/CP/2026-27/36

- a) Drawings and Data shall be furnished in conformity with the Bidder Data Requirements Forms attached with Enquiry Specifications.
- b) Bidder shall furnish all the information at the time of bidding as specified in the relevant Bidder Data Requirement (BDR) forms.
- c) The data requirement after placement of Fax of Intent (FOI) is indicated in the Bidder Data Requirement Forms for the respective equipment, including the number of weeks within which this data is to be provided. Bidder shall confirm that all data as required shall be furnished by him and shall indicate the Bidder's promised data in the columns provided.
- d) After the placement of FOI, a conference (kick off meeting) will be held at such place, as may be mutually agreed upon between the Bidder and the purchaser within 15 days from the date of placement of FOI. The intent of this conference shall be to discuss / clarify various requirements and finalize the modus operandi for execution of the contract within the scheduled delivery period.
- e) Bidder shall furnish the Drawings/Documents for Purchaser's Review / approval as per the Bidder Data Requirement (as specified in the Specifications/Bidder Data Requirement forms). The review comments for major and critical drawings (such as system P&ID's, General Arrangement Drawings, Foundation Drawings, Performance characteristics, Pulsation and Vibration Study Reports, Torsional Analysis etc.) shall be discussed across the table at such date and place as may be mutually agreed between the Purchaser and the Bidder.
- f) Along with the supply of each compressor package, the supplier shall provide software for PLC & HMI, ladder logic and software authorization password/license in two sets.

ANNEXURE-1

GUARANTEED PARAMETERS (1200 SCMH MOTOR DRIVEN)

Guaranteed Parameters for Basis of loading and penalty			
Sr. No	Parameters	Bidder's Data	Unit



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1	Compressor Capacity at suction pressure @14kg/cm ² (g) (minimum 1200 SCMH & 876 kg/hr) (Basis for penalty)		SCMH
2	Emergy consumption of package in KWH for 1200 SCMH delivery (basis for loading and Penalty)		KWH
3	Gas loss as % of production, including loss from SRV, due to oil op ups and idling (Basis for loading & penalty)		%
Guaranteed General Package Data			
Sr. No	Parameters	Bidder's Data	Unit
4	Compressor BKW in KW @ Rated Conditions (No + ve tolerance)		KW
6	Net of all auxiliaries/package ventilation loads in KW		KW
7	Site rated BKW of Electric Motor (No – ve tolerance)		KW
8	Noise level @ 1 meter from enclosure (required 75 dBA)		dB

Note

Bidder to quote in the Unit as asked for in the above table.

Bidder has to fill all the rows in above table. If any row is not filled by bidder or above tables are modified in any manner, bid will be rejected summarily.

Conversion factor for Kg to SCM is 1 kg = 1.3699 SCM

Rated Conditions: suction pressure:14 kg/cm²g, suction temperature: 38°C, discharge pressure: 255 kg/cm²g



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DATA SHEET- HEAT EXCHANGER

1	GENERAL		
2	PROJECT: PROCUREMENT OF COMPRESSORS		
3	OWNER:	SITE:	
4	Item No. : Service : Intercooler / Aftercooler for Compressor Package		
5	NOTE: ■ SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER □ INFORMATION REQUIRED FROM VENDOR		
6	□ Manufacturer:	Type: □ Forced Draft □ Induced Draft	
7	□ Bundle Size: m x m x m	Bundles/Section	
8	Number of Units:	In Parallel / Series	
9	Bundles/Unit:	Section Size:	
10	Surface/Bundle: m ²	Bare Tube: m ²	Plot
11	Area/ Unit:		
12	PERFORMANCE (Of One Unit)		
13	Heat Exchanged: kcal/hr		
14	Transfer Rate: kcal/hr m ² °C (Bare Surface)		
15	(Finned Surface)		
16	TUBE SIDE		
17	Fluid Circulated	GAS	
18	Gravity: Liquid API SG @ 15.4 EC		
19	Total Entering Gas kg/hr		
20	Operating Temperature	In:	Out:
21	Fouling Resistance hr m ² °C/kcal		
22	Operating Pressure Passes / Bundle kg/cm ²		
23	AIR SIDE		
24	Temperature	In : 47.5	Out:
25	Altitude m		
26	Total Flow/Unit kg/hr		
27	Static Pressure kg/cm ²		
28	Quantity/Fan kg/hr		
29	Power/Fan kW		
30	Face Velocity m/sec		
31	Power/Unit kW		
32	CONSTRUCTION(Each Bundle)		
33	Design Pressure: kg/cm ² g	Test Pressure: kg/cm ² g	
34	Design Temperature: °C		
35	Code Requirements:		
36	Type of Tubing:	Tube Material: SA 179	Fin
37	Material: Al		
38	Tube Bare Tubes (no's) :	No. of rows: O.D.	
39	BWG/Thk Length		



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29	Fins : Spacing /inch. O.D. Thickness:	Root Dia		
30	Header Type: Plug / Cover Material :	No. of Splits:		
31	Plugs/Gaskets	Side Frame : C.S. Inside Zinc Protected		
32	Nozzles	In :	Out :	
33	Couplings :	Vent:	Drain	
34	CONSTRUCTION(Each section)			
35	Structure CS Design Wind Load : kgf/m	Sec./Gr. No.		
36	Plenum Chamber Type :	CS inside Zinc Protected		
37	Fans	No.	Dia.	RPM Mfr.
38	Blades :	Material :	No./Fan	Pitch Angle(Design)
39	Hubs Adjustable (No.)	Material :	Pitch :	Autovvariable /
40	Louvers	Material :	Type :	Mfr.
41	Weights kg Each Section(Dry) :		Full of Water:	
42	Each Bundle(Dry) :		Full of Water:	
43	APPLICABLE SPECIFICATIONS API Standard 661			
44	REMARKS 1. Air coolers shall be designed for 20% excess capacity than required normally.			
45	Exchanger shall be designed with air side temperature of 47.5 0C.			
46	Separate data sheet shall be filled by the bidder for each service i.e. Inter cooler and After cooler			



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DATA SHEET- GAS ENGINE

1	GENERAL		
2	PROJECT: PROCUREMENT OF CNG COMPRESSORS		
3	OWNER:	SITE:	
4	SERVICE: DRIVER FOR CNG COMPRESSOR		
5	NO. REQD:		
6	NOTE: ■ SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER □ INFORMATION REQUIRED FROM VENDOR.		
7	■ SITE / INSTALLATION DATA		
8	SITE CONDITION:		
9	LOCATION:	■ OUTDOOR	■ CLOSED ROOM WITH FORCED AIR
	VEENTILATION SYSTEM		
10	SITE DATA:	AMBIENT TEMPERATURE (°C):	MAX: 48
	MIN:0		
11		RELATIVE HUMIDITY(%):	MAX: 90
12		ALTITUDE(M): 560	
13	ELECTRICAL AREA CLASSIFICATION:		
14	Class-I, Division I, Group D as per NEC		
15	Zone I, Group II A/ II B as per IS/ IEC		
16	□ UTILITIES DATA		
17	COOLING WATER		
18	COOLING WATER TEMP. (°C) (DESIGN/MAX/NOR/MIN):	SUPPLY RETURN (MAX):	
19	COOLING WATER PR. (KG/CM²G) (DESIGN/MAX/NOR/MIN):	SUPPLY RETURN (MIN):	
20	COOLING WATER CHARACTERISTICS:		
21	□ INSTRUMENT AIR:		
22	SUPPLY PRESSURE (DESIGN/MAX/NOR/MIN)(KG/CM² G):		
23	□ ELECTRIC POWER		
24	ELECTRIC SUPPLY: AC / DC H Z	VOLTS	
25	□ APPLICABLE CODES & STANDARDS		
26	■ NOISE SPECIFICATION: ■ APPLICABLE TO M/CMAX. 75 DBA@ 1.0 M OUTSIDE THE ACOUSTIC ENCLOSURE		
27	■ EXHAUST GAS EMISSION: - STATUTORY REQUIRMENTS AS PER CENTRAL POLLUTION CONTROL BOARD		
28	■ LISTING/APPROVAL OF ENGINE REQUIRED FROM: ■ UL/FM □ TAC		
29	■ AIR RECEIVER FOR STARTING AIR SYSTEM ASME SEC-VIII DIV 1 □ AIR COMPRESSOR FOR STARTING AIR SYSTEM MANUFACTURER'S STD.		
30	□ SHELL AND TUBE TYPE EXCHANGERSMANUFACTURER'S STD. □ AUXILIARY PUMPS MANUFACTURER'SSTD.		
31	□ AIR COOLED HEAT EXCHANGERS/RADIATOR MANUFACTURER'S STD. □ OTHER TANKS AND VESSELS MANUFACTURER'S STD.		
32	DRIVEN EQUIPMENT		



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33	■ RECIPROCATING GAS COMPRESSOR
34	■ DUTY: INTERMITTENT
35	PROBABLE PERIOD FOR CONTINUOUS RUNNING: 20 HOURS WITH FREQUENT STARTS AND STOPS
36	■ DURATION OF MAX. LOAD: 20 HOURS
37	□ MINIMUM BKW OF THE DRIVEN EQPT. KW: @ RPM:
38	□ RATED BKW OF THE DRIVEN EQPT. KW: @ RPM:
39	□ MAXIMUM BKW OF THE DRIVEN EQPT. KW: @ RPM: (@ R.V. SET PRESSURE)
40	□ FOR MECH. DRIVE APPLICATIONS: MINIMUM SITE RATING OF THE ENGINE REQUIRED KW @ RPM
41	□ ACCOUNTING FOR ENGINE DERATION FOR SITE CONDITIONS & ALTERNATOR EFFICIENCY WITH ENGINE DRIVING ITS ALL AUXILIARIES.
42	□ DIRECTION OF ROTATION OF DRIVEN EQUIPMENT VIEWED FROM COUPLING END :
43	□ METHOD OF DRIVE: DIRECT THRU FLEXIBLE COUPLING OR V-BELTS
44	CONSTRUCTION FEATURES
45	□ MANUFACTURER: □ ENGINE MODEL:
46	■ TYPE OF ENGINE: FOUR-STROKE ENGINE V COOLING: ■ WATER COOLED
47	□ TURBO-CHARGED WITH CHARGE AIR COOLER □ NORMALLY ASPIRATED
48	□ NO. OF CYLINDERS: □ CYLINDER ARRANGEMENT:
49	□ BORE/STROKE (MM/MM): □ COMPRESSION RATIO:
50	□ SPEED (RPM): □ MEAN PISTON SPEED (M/SEC.):
51	□ PERFORMANCE
52	RATED ENGINE POWER AT STANDARD OPERATING CONDITIONS AS PER ISO 3046/ BS 5514 (ISO STD. POWER): KW @ RPM
53	(USING ONLY THE ESSENTIAL DEPENDENT AUXILIARIES AND WITH 10 % OVERLOAD PROVISION FOR ONE HOUR WITHIN A PERIOD OF 12 HOURS OF OPERATION).
54	RATED ENGINE POWER AT SITE CONDITIONS GUARANTEED, NO NEGATIVE TOLERANCE): KW @ RPM
55	(USING THE ESSENTIAL DEPENDENT AUXILIARIES AND WITH 10 % OVERLOAD PROVISION FOR ONE HOUR WITHIN A PERIOD OF 12 HOURS OF OPERATION).
56	MIN. ENGINE SITE POWER AT, WHICH ENGINE CAN BE OPERATED CONTINUOUSLY. KW @ RPM
57	MIN. ENGINE SPEED & CORRESPONDING SITE POWER AT, WHICH ENGINE CAN BE OPERATED CONTINUOUSLY. RPM @ KW
58	STARTING TIME REQUIRED FOR FULL LOAD OPERATION (SECONDS):
59	AIR FLOW REQUIRED FOR OPERATION OF THE ENGINE FOR: □ COMBUSTION & SCAVENGING □ COOLING & VENTILATION OF ENCLOSURE □ AIR COOLERS
60	ESSENTIAL DEPENDENT AUXILIARIES ARE:
61	ENGINE SHAFT DRIVEN RADIATOR FAN: KW
62	ENGINE SHAFT DRIVEN CW PUMP: KW
63	ENGINE SHAFT MAIN LO PUM: KW
64	□ SPECIFIC FUEL CONSUMPTION:
65	DESCRIPTION FUEL CONSUMPTION, GM/KW-HR @ REFERENCE CONDITIONS *
66	ISO MANUFR'S. SITE MANFR'S. SHOP *



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		3046*	STD.*	*	
67	(A) GUARANTEED ENGINE RATED POWER (100 % CONTINUOUS RATING)				
68	(B) 75 % OF (A)				
69	(C) 50 % OF (A)				
70	(D) 110 % OF (A)				
71	* STANDARD REFERENCE CONDITIONS:				
72	TOTAL BAROMETRIC PRESSURE, P, KG/CM ² A				
73	ATMOSPHERIC TEMP. °C				
74	RELATIVE HUMIDITY %				
75	CHARGE AIR & COOLANT TEMP °C				
76	<input type="checkbox"/> SPEED GOVERNING SYSTEM				
77	TYPE: <input type="checkbox"/> SINGLE SPEED <input type="checkbox"/> MULTIPLE SPEED <input type="checkbox"/> ALL SPEED (VARIABLE SPEED)				
78	GOVERNOR TYPE: <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> ELECTRO HYDRAULIC <input type="checkbox"/> MECHANICAL				
79	■ MAKE: <input type="checkbox"/> MODEL:				
80	GOVERNOR CONTROL MECHANISM: <input type="checkbox"/> MANUAL <input type="checkbox"/> REMOTE				
81	<input type="checkbox"/> STARTING SYSTEM				
82	■ METHOD OF STARTING: AUTOMATIC				
83	■ METHOD OF STOPPING: AUTOMATIC				
84	<input type="checkbox"/> TYPE OF COLD STARTING: (CONSIDERING MIN. AMBIENT TEMP. 2°C)				
85	■ TYPE OF STARTING SYSTEM: AIR STARTING THROUGH ENGINE MOUNTED PNEUMATIC MOTOR				
86	REMARKS:				
87	1. BIDDER SHALL ENGINEER AND SUPPLY THE COMPLETE AIR STARTING MECHANISM INCLUDING AIR COMPRESSOR, AIR RECEIVER.				
88	THE PURCHASER SHALL PROVIDE ELECTRICITY FOR AIR COMPRESSOR MOTOR.				
89	■ STARTING AIR SYSTEM: (TO BE PLACED OUTSIDE THE ENCLOSURES)				
90	■ AIR COMPRESSOR TYPE: SCREW-TYPE RATING: 7.5 KW				
91	<input type="checkbox"/> RATED CAPACITY (AM ³ /HR AT INLET CONDITIONS):				
92	<input type="checkbox"/> DISCHARGE PRESSURE (KG/CM ² G):				
93	<input type="checkbox"/> BKW: <input type="checkbox"/> RPM:				
94	■ AIR COMPRESSOR DRIVEN BY: ELECTRIC MOTOR (Flame Proof)				
95	<input type="checkbox"/> DRIVER RATING <input type="checkbox"/> KW: <input type="checkbox"/> RPM:				
96	■ <input type="checkbox"/> VOLTS/N/HZ.: 230 / SINGLE/ 50				
97	■ AIR RECEIVER WITH PRESSURE GAUGE, RELIEF VALVE & MANUAL DRAIN VALVE:				
98	■ START-STOP SWITCH FOR COMPRESSOR: AUTOMATIC				
99	<input type="checkbox"/> NO. OF AIR RECEIVER: ONE / TWO CAPACITY OF EACH AIR RECEIVER (M ³):				
100	NOTE: TOTAL AIR RECEIVER CAPACITY SHALL BE SUITABLE FOR ATLEAST SIX (6) CONSECUTIVE STARTS.				
101	■ COOLING SYSTEM				
102	TYPE: <input type="checkbox"/> OPEN CIRCUIT <input type="checkbox"/> CLOSED CIRCUIT COOLING				
103	WATER PUMP DRIVEN BY: <input type="checkbox"/> ENGINE <input type="checkbox"/> ELECTRIC MOTOR				



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103	COOLANT CIRCUIT PIPING WITH TEMP. CONTROL & MAKE-UP TANK.
104	HEAT EXCHANGER WITH ANCHOR/FOUNDATION BOLTS: AIR COOLED EXCHANGER
105	BY-PASS VALVE: CHECK VALVE:
106	HEAT EXCHANGER TEMP (°C) INLET: OUTLET:
107	■ FAN DRIVEN BY: DRIVER <input type="checkbox"/> RATING/SPEED (KW/RPM):
108	□ ENGINE WATER TEMP (°C): INLET: OUTLET:
109	PACKAGER MAY CLUB THE ENGINE JACKET AND COMPRESSOR CYLINDER COOLING WATER SYSTEM WITH ENGINE SHAFT OR COMPRESSOR SHAFT DRIVEN PUMP
110	■ FRAME LUBRICATION SYSTEM
111	■ TYPE: FORCE FEED LUBRICATION INCLUDING VALVES, OIL PUMP & PIPING
112	□ OIL COOLER TYPE: □ AIR COOLED □ WATER COOLED
113	□ OIL FILTERS □ SELF CLEANING □ DUPLEX □ PAPER CARTRIDGE
114	□ PRELUBE OIL PUMP DRIVEN BY (IF REQUIRED):
115	□ PRELUBRICATION □ MANUAL □ AUTOMATIC
116	□ TYPE/GRADE OF LUB. OIL:
117	□ OIL CONSUMPTION (LPH):
118	□ OIL SUMP CAPACITY (LITRES):
119	□ OIL COOLER TESTING PRESSURE (KG/CM²G):
120	□ EXPLOSION RELIEF VALVE FOR CRANKCASE
121	■ AIR INLET SYSTEM
122	■ SUCTION AIR FILTER ■ AIR INLET DUCTING / PIPING / MANIFOLDS □ INLET SILENCER
123	EXPANSION BELLOWS (IF REQUIRED) & ALL SUPPORTS / HANGERS
124	■ ENGINE EXHAUST SYSTEM
125	■ EXHAUST MANIFOLDS / DUCTING / PIPING TERMINATED AT SAFE HEIGHT OUTSIDE ENGINE ENCLOSURE EXHAUST SILENCER (RESIDENTIAL TYPE)
126	■ EXPANSION BELLOWS ■ EXHAUST STACK / CHIMNEY ■ ALL SUPPORTS / HANGERS ■ PROTECTION
127	□ PROVIDED AS ABOVE □ YES □ NO
128	CONTROLS & INSTRUMENTATION
129	ELECTRIC SUPPLY:
130	LAMPS: ± V: AC/DC: N: ± HZ:
131	ALARM CIRCUIT: ± V: AC/DC: N: ± HZ:
132	TRIP CIRCUIT: ± V: AC/DC: N: ± HZ:
133	CONTROL CIRCUIT: ± V: AC/DC: N: ± HZ:
134	SOLENOID VALVES: ± V: AC/DC: N: ± HZ:
135	CONTROL SWITCHES:



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136	■ AC POWER ON/OFF SWITCH WITH INDICATION LAMP
137	■ CONTROL POWER ON/OFF SWITCH WITH INDICATION LAMP
138	■ START SWITCH WITH INDICATION YES
139	■ START/STOP PUSH BUTTON FOR AUX. DRIVE MOTOR
140	■ EMERGENCY STOP PUSH BUTTON
141	■ LAMP TEST PUSH BUTTON
142	■ ALARM/TRIP ACKNOWLEDGE /RESET PUSH BOTTON YES
143	■ LUBRICATING OIL HEATER 'ON' INDICATING LAMP (IF PROVIDED)
144	■ MOTOR INTERLOCK AGAINST START WITHOUT PRELUBRICATION
145	
146	NOTE: VENDOR TO PROVIDE CONTACT/SIGNAL FOR EXECUTION IN DCS.
147	<input type="checkbox"/> MATERIAL
148	CHARGE AIR COOLER SHELL: TUBES:
149	WATER COOLER SHELL: TUBES:
150	AIR COOLER SHELL: TUBES:
151	AIR RECEIVER
152	
153	INSPECTION AND TESTING
154	WITNESS OBSERVE
155	<input type="checkbox"/> STAGE INSPECTION DURING MANUFACTURE
156	■ FULL LOAD TEST AT ENGINE MANUFACTURER'S SHOP AS PER ISO (PERFORMANCE TEST)
157	<input type="checkbox"/> FUEL CONSUMPTION & GOVERNING TEST AT ENGINE MANUFACTURER'S SHOP AS PER ISO
158	■ FULL LOAD TEST FOR 4 HOURS OF ENGINE-GENERATOR SET WITH ALL AUXILIARIES & 1HR AT FULL LOAD AT SITE.
159	■ NO LOAD MECHANICAL RUN TEST AT PACKAGER'S/DRIVEN EQPT. MFR. SHOP
160	■ VENDOR'S STANDARD MECHANICAL RUN TEST (FOR ALL ENGINE)
161	INSPECTION/TESTING WITNESSED BY: <input type="checkbox"/> OTHERS ■ M /S OWNER OR THEIR REPRESENTATIVE
162	<input type="checkbox"/> WEIGHTS
163	NET WEIGHT OF ENGINE WITH MOUNTED ANCILLARIES (KG):
164	HEAVIEST PART TO BE HANDLED DURING ERECTION AND ITS WEIGHT (KG):
165	HEAVIEST PART TO BE HANDLED DURING NORMAL MAINTENANCE AND ITS WEIGHT (KG):
166	RECOMMENDED CRANE CAPACITY (TONS):
167	CRANE HOOK HEIGHT (M):
168	<input type="checkbox"/> MAINTENANCE DATA
169	EXPECTED PERIOD OF RUNNING BETWEEN TOP OVERHAULS: HOURS
170	EXPECTED PERIOD OF RUNNING BETWEEN MAIN OVERHAULS: HOURS
171	THE TYPE AND GRADE OF LUBRICATING OIL RECOMMENDED: LUBE OIL CONSUMPTION (
172	KG/HR)/ (LITRES/HR) CHANGE OF LUBRICATING OIL AFTER:



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	HOURS
173	■ SCOPE OF SUPPLY / WORK
174	ENGINE WITH LUBRICATION SYSTEM, GOVERNING SYSTEM, FUEL SYSTEM, COOLING SYSTEM AND STARTING SYSTEM AS SPECIFIED
175	SUCTION AIR FILTER WITH SUCTION PIPING
176	INSTRUMENTS AND CONTROLS AS SPECIFIED
177	INLET AND EXHAUST MANIFOLDS, EXHAUST PIPING WITH FILLINGS, BENDS AND INSULATION
178	EXHAUST SILENCER (RESIDENTIAL, SPARK ARRESTING TYPE) WITH EXPANSION BELLOWS AND COMPLETE WITH EXHAUST PIPING FROM
179	MANIFOLD TO OUTSIDE SHED WITH FITTINGS AND INSULATION.
180	FLYWHEEL WITH BARRING DEVICE
181	GUARDS FOR MOVING PARTS
182	COUPLING FOR ENGINE - DRIVEN EQUIPMENT
183	BASE PLATE FOR ENGINE & DRIVEN EQUIPMENT
184	MANDATORY SPARES AS PER ORDER
185	ERECTION AND COMMISSIONING SPARES
186	TORSIONAL ANALYSIS REPORT ON ENGINE
187	REFER TECHNICAL SPECIFICATION FOR COMPLETE SCOPE OF SUPPLY
188	FOUNDATION/ ANCHOR BOLTS
189	ANTI VIBRATION PADS
190	FIRST FILL OF LUBRICATING OIL AND COOLANT.
191	SEPERATE ACCOUSTIC ENCLOSURE WITH VENTILATION FAN
192	
193	REMARKS
194	



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DATA SHEET- CNG COMPRESSOR (2 STAGE & 3 STAGE)

GENERAL		
PROJECT: PROCUREMENT OF CNG COMPRESSORS		
OWNER:	SITE:	
SERVICE: COMPRESSOR FOR CNG MOTHER STATION		
NO. REQD:	DRIVER: GAS ENGINE	
NOTE: ■ SCOPE OPTION / INFORMATION SPECIFIED BY PURCHASER	<input type="checkbox"/> INFORMATION REQUIRED FROM	
<input type="checkbox"/> MANUFACTURER:	<input type="checkbox"/> MODEL NO.:	
<input type="checkbox"/> PLACE OF MANUFACTURE:		
■ NO. OF STAGES: THREE	<input type="checkbox"/> CYLINDER ARRANGEMENT:	
CYLINDER LUBRICATION:	<input type="checkbox"/> LUBRICATED	<input type="checkbox"/> MINIMUM LUBRICATED
<input type="checkbox"/> NON LUBRICATED		
■ DRIVER TYPE: GAS ENGINE		
<input type="checkbox"/> DRIVE:	<input type="checkbox"/> V - BELTS (ANTI-STATIC TYPE)	
<input type="checkbox"/> DIRECT WITH COUPLING		
<input type="checkbox"/> DIRECTION OF ROTATION (FACING DRIVEN END):	<input type="checkbox"/> CLOCKWISE	
<input type="checkbox"/> COUNTER CLOCKWISE		
■ SITE / INSTALLATION DATA		
SITE DATA:	AMBIENT TEMPERATURE (°C):	MAX: 48
MIN:0		
	RELATIVE HUMIDITY(%):	MAX: 90
	ALTITUDE(M): 560	
	EARTHQUAKE ZONE V	WIND VELOCITY
(KM/HR): 160 (MAX)		
INSTALLATION ■ OUTDOOR		
■ MOUNTED ON A COMMON SKID ALONG WITH DRIVER, ENCLOSED INSIDE A ACOUSTIC ENCLOSURE		
ELECTRICAL AREA HAZARD:		
Class-I, Division I, Group D as per NEC or Zone I, Group II A/ II B as per IS/ IEC		
APPLICABLE CODES & STANDARDS		
COMPRESSOR: API 11P. 2ND EDN./ PISTON / TRUNK	PIPING: ASME / ANSI B 31.3	
PRESSURE VESSEL: ASME SEC-VIII, DIV-1.	GAS COOLER: API 11P	
OIL COOLER: TEMA 'C'	SOUND: 75 dBA @ 1m FROM ENCLOSURE	
<input type="checkbox"/>		
AUX. ELECTRIC MOTORS:		
CONTROL PANELS & INSTRUMENTATION REFER:		
UTILITIES DATA		



**MAHARASHTRA NATURAL
GAS LIMITED**

**Tender for Rate Contract for a period of 02 (Two) years for
Procurement of 2 stage 1600 SCMH and 3 stage 1200 SCMH Gas
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Packages for CNG and CGD Network of all GAS of MNGL.**

Bid No.: MNGL/CP/2026-27/36

<input type="checkbox"/>	Cooling Water (Not Available)				
<input type="checkbox"/>	Type:	<input type="checkbox"/> Supply temperature (°C):			
<input type="checkbox"/>	Max return temperature (°C):				
<input type="checkbox"/>	Fouling Factor:	<input type="checkbox"/> Supply pressure (kg/cm²G):			
<input type="checkbox"/>	Min. return pressure (kg/cm²G):				
<input type="checkbox"/>	Design pressure (kg/cm A):	<input type="checkbox"/> Design temperature (°C):			
<input type="checkbox"/>	Water Flow Rates (m3/hr):				
<input type="checkbox"/>	Electricity				
Auxiliary Motors:		V	Ph		
Hz					
Oil Heaters:		V	Ph		
Hz					
Solenoid Valves: AC/DC		V	Ph		
Hz					
Instruments: AC/DC		V	Ph		
Hz					
Local Panel INDI. / Alarm/ Ann: AC/DC		V	Ph		
Hz					
Local Panel Trip Circuit: AC/DC		V	Ph		
Hz					
UPS: KVA,		V	Ph		
Hz					
<input type="checkbox"/>	Total Utility Consumption				
<input type="checkbox"/>	Cooling Water (Make UP) (m3/hr)				
<input type="checkbox"/>	Power (Auxiliaries) (kW)				
<input type="checkbox"/>	Power (Heaters) (kW)				
REMARKS:					
Vendor/ Bidder shall estimate the requirement for all utilities and indicate the same in the tabular form.					
<input type="checkbox"/>	CONSTRUCTION/ DESIGN FEATURES				
Normenclature	Unit	Stage#1	Stage#2	Stage#3	
Cylinders					
No. of Cylinders					
Single Acting (SA) / Double Acting (DA)					
Cylinder Bore / Stroke	mm/mm				
Rotational Speed	RPM				
Linear Average Piston Speed	m/sec				
Piston Displacement	m3/hr				
Cylinder Liner					
Type of Cylinder Liner: Dry/Wet					
Clearance Pockets Yes/No					
Max. Allow. Working Pressure, Cylinder	kg/cm2a				
Max/Min. Allow. Working Temperature. Cylinder	°C				



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MAWP Cylinder @ Amb. Temp.	kg/cm2a			
Safety Valve Set Pressure, Cylinder	kg/cm2a			
G Helium Test Pressure, Cylinder	kg/cm2a			
Hydrostatic Test Pressure, Cylinder	kg/cm2a			
Cylinder Jacket Coling Type As Reqd.				
Cooling Media, Cylinder Jackets Water / AIR				
Max. Allow. Working Pressure, Cylinder Jacket	kg/cm2a			
Hydrostatic Test Pressure, Cylinder Jacket	kg/cm2a			
Suction Nozzle Size/ Rating/ Position				
Discharge Nozzle Size/ Rating/ Position				
Suction Valve Number				
Average Gas Velocity	m/sec			
Discharge Valve Number				
Average Gas Velocity	m/sec			
Type of Suction Valve-				
Type of Discharge Valve-				
Suction Valve Unloaders Yes/ No				
Clearance Pockets Unloaders Type				
Piston Rod Diameter	Mm			
Rod Reversal at Crosshead Pin (min.)	Deg.			
Piston Rod Runout Operating				
Max. Allow. Rod Load Comp.	Kg			
Tension	Kg			
Road Load Comp.	kg			
(Inertia Alone) Tension	kg			
Rod Load Rated Pr. (Gas+Inertia) Comp.	kg			
Tension	kg			
Rod Load RV Set Comp.	kg			
(Gas+Inertia) tension	kg			
Distance piece / Packing				
Type of Packing				
Packing Vent Connected to ##				
Packing Cooling				
Type of Distance Piece				
Cyl. Side Compartment Purged				
Frame Side Compartment Pressurized				
Distance Piece purge gas Pressure	mm H ₂ O			
Distance Piece purge gas Flow	Nm ³ / hr			
Distance Piece Vent to		Safe height	Safe height	Safe height
Distance Piece Hydrostatic Test Pressure	kg/cm2G			
## Packaging shall be connected to vent header (7.19.4 of API-11)				
Frame				
Frame Explosion proof Relief device				
Flame Arrestor Yes/ No				
Replacable Crosshead Shoes Yes/ No				
Crosshead Guide Integral / Separate				
Maximum Frame Rating	KW			
Speed- Maximum/ Minimum				
<input type="checkbox"/>				



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Lubrication System	
Type of lube system	Piping Material
	Carbon Steel
Main Oil Pump Driven By:	Stainless Steel (all piping & valve Trims)
Standby Oil Pump Driven By:	Auxiliary oil tank
Hand Operated Perelube/Priming Pump:	Oil Grade:
Suction Strainer	Lube Oil Composition
Pressure Control Valve	Main pump Make: Model:
Level Sight Glass on Crankcase	Type: Material:
Type of Oil Cooler:	Standby pump Make: Model:
Size of Filter	Type: Material:
Oil Heater (if required)	
Electric Heater with thermostat (Kw)	
Thermostatic Valve	
Type of Cylinder Lubrication	Lubricator Equipped With :
Lubricator Type : Manzel or Equivalent .	level sight glass
Single plunger per feed	oil heater electric with thermostat
Divider blocks type.	Electric Heater (Kw) (if required)
Lubricator Driven By :	Auxiliary Oil Tank (if required)
Compressor Shaft	Oil Grade :
Electric Motor KW	Oil System Capacity: (min 150 Hrs.)
All tubing and valves in SS	Oil Consmpn. rate
Double Ball Check valve on each lubrication point	
<input type="checkbox"/>	
Cooling System	
<input type="checkbox"/>	
Static filled coolant system for	
All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s	
Including expansion chamber, Vents, Drains, Level Gauge, Pipings, etc.	
All Piping prefabricated <input type="checkbox"/> Material	
<input type="checkbox"/> Atmospheric thermosyphon cooling system for	
All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s	
Including expansion tank, Vents, Drains, Coolers, Level & Temp. indicators, Pipings, etc.	
All Piping prefabricated <input type="checkbox"/> Material	
<input type="checkbox"/> Forced Cooling Water System	
All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s	
<input type="checkbox"/> Packings <input type="checkbox"/> Oil Coolers <input type="checkbox"/> Gas Coolers	
<input type="checkbox"/> Including drains, Vents, flow & temp. Indicators, regulating & Isolation valves, complete piping to provide one	
<input type="checkbox"/> Common inlet and one common outlet connections for purchaser's interface terminated by a flanged block valve	
<input type="checkbox"/> Block valve.	
<input type="checkbox"/> Each isolatable circuit to be provided with thermal relief valve.	
All Piping prefabricated <input type="checkbox"/> Material	
<input type="checkbox"/> Self contained, forced circulation, closed circuit Cooling Water System (if reqd.)	
All Stage Cylinders <input type="checkbox"/> 1 Stage Cylinder/s <input type="checkbox"/> 2 Stage Cylinder/s <input type="checkbox"/> 3 Stage Cylinder/s	
<input type="checkbox"/> Packings <input type="checkbox"/> Oil Coolers <input type="checkbox"/> Gas Coolers	
<input type="checkbox"/> Including drains, Vents, flow & temp. indicators, Temp. Control Valve, Regulating & Isolation valves, complete piping	



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<input type="checkbox"/> Main circulating pumps with drivers & suction strainers	<input type="checkbox"/> Single Coolers
<input type="checkbox"/> Reservoir (Make Up) <input type="checkbox"/> Heater (if required)	
<input type="checkbox"/> Pumps, Reservoirs, Coolers etc. to be mounted on a common skid as to make a separate console.	
<input type="checkbox"/> Material of piping:	
<input type="checkbox"/> Type of coolant:	
<input type="checkbox"/> Jacket cooling	
<input type="checkbox"/> Gas Piping System	
<input type="checkbox"/> Vendor's Supply Includes: <input type="checkbox"/> Suction Separator	
<input type="checkbox"/> Pulsation suppression equipment as per 'next' page	
<input type="checkbox"/> Suction Filter:	
<input type="checkbox"/> Temporary Strainer on Compressor Suction	
<input type="checkbox"/> Type of Strainer:	
<input type="checkbox"/> Relief Valves: on compressor <input type="checkbox"/> suction <input type="checkbox"/> inter-stage <input type="checkbox"/> on compressor discharge	
<input type="checkbox"/> Check Valve on Discharge Line (compressor valve design, and suction line)	
<input type="checkbox"/> Process Gas Coolers Complete With Manual Drain Valve	
<input type="checkbox"/> Separators Complete With Manual/ Automatic Drain Values	
<input type="checkbox"/> Process Gas Piping	
<input type="checkbox"/> Supply starts at inlet flange of CNG PACKAGE	
<input type="checkbox"/> Terminates after priority panel with isolation valve	
<input type="checkbox"/> Materials:	
<input type="checkbox"/> By-Pass Line Piping	
<input type="checkbox"/> Between 3rd stg. discharge and 1 st stg. Suction	
<input type="checkbox"/> Gas cooler	
<input type="checkbox"/> Interconnecting Piping Between Packing Vents, PSV Relief terminating to Vent Recovery System	
<input type="checkbox"/> Interconnecting piping between distance piece terminating to Vent Recovery System upto package B/L	
<input type="checkbox"/> Interconnecting piping between Drains terminating as a single point	
<input type="checkbox"/> Interconnecting piping between Instrument Air terminating	
<input type="checkbox"/> Pulsation Suppression Equipment	
Stage#	Stage#1 Stage#2 Stage#3
Suction	
Pulse Equipment Required (Yes/No)	Yes Yes Yes
Inlet Pressure	
Residual Peak to Peak Pulsation%	As per API 618, Cl 3.9.2.7
Inlet Nozzle Size/ Rating/ Position	
Discharge Nozzle Size/ Rating/ Position	
Design Pressure Kg/cm ² a	
Design Temperature °C	
Volume	
Material : vessels	SA 516 Gr.60 SA 516 Gr.60 SA 516 Gr.60
Internals	
Corrosion Allowance mm	3 3 3
Hydrostatic test Pressure kg/cm ² ,g	1.3XMAWP 1.3XMAWP 1.3XMAWP
Discharge	
Pulse Equipment Required (Yes/No)	Yes Yes Yes
Inlet Pressure	
Residual Peak to Peak Pulsation%	As per API 618, Cl 3.9.2.7
Inlet Nozzle Size/ Rating/ Position	



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Discharge Nozzle Size/ Rating/ Position				
Design Pressure Kg/cm ² a				
Design Temperature °C				
Volume				
Material : vessels	SA 516 Gr.60	SA 516 Gr.60	SA 516 Gr.60	
Internals				
Corrosion Allowance mm	3	3	3	
Hydrostatic test Pressure kg/cm ² ,g	1.3XMAWP	1.3XMAWP	1.3XMAWP	
Pulsation Suppressors are complete and installed on the Skid with supports & anchor bolts				
Design Code : . ASME SECT. VIII DIV. 1				
Analog Piping Study / Accoustic Simulation, As per Approach 3, Cl. 3.9.2.6 API618, 4th edition				
Upstream / downstream		Inter-stage		
Performed By:		<input type="checkbox"/> Vendor	<input type="checkbox"/> Any other agency having similar experience	
Piping Mechanical Analysis				
Performed By:		<input type="checkbox"/> Vendor	<input type="checkbox"/> Any other agency having similar experience	
<input type="checkbox"/> Automatic Drain Valves For Each Stage suction KOD				
<input type="checkbox"/> Capacity Control				
<input type="checkbox"/> Start / Stop, based on discharge receiver pressure: Fully Automatic				
Unloading for Start up/Shut down :Automatic Through Valve		<input type="checkbox"/> Valve Unloader	<input type="checkbox"/> Recycle	
<input type="checkbox"/> Interlock against loaded start				
<input type="checkbox"/> Automatic Control based on				
<input type="checkbox"/> Suction Pressure Signal		<input type="checkbox"/> Discharge Pressure	<input type="checkbox"/> Flow Manual	
<input type="checkbox"/> Type of Actuator fluid to unload		<input type="checkbox"/> Actuation fluid to load	<input type="checkbox"/> Actuation	
<input type="checkbox"/> On Power / Actuation fluid failure : Compressor to		<input type="checkbox"/> Load	<input type="checkbox"/> Unload	
<input type="checkbox"/> At 0 % capacity through Valve Unloader, Compressor shall run				
<input type="checkbox"/> Continuously		<input type="checkbox"/> Maximum Hrs.		
<input type="checkbox"/> At 25 % capacity through Valve Unloader, Compressor shall run				
<input type="checkbox"/> Continuously		<input type="checkbox"/> Maximum Hrs.		
<input type="checkbox"/> At All other capacity, Compressor shall run continuously				
Vendor's scope Shall Include:				
<input type="checkbox"/> Pilot Devices (pressure / temperature / Flow devices ,Controllers & Switches)				
<input type="checkbox"/> Intermediate Devices (Solenoid Valves Pneumatic Relay / Valves)				
<input type="checkbox"/> Actuators				
<input type="checkbox"/> Recycle valves				
<input type="checkbox"/> Control Logic and System for Complete Capacity Control				
<input type="checkbox"/> Inter Connecting Tubing, Piping, Cabling & Wiring				
<input type="checkbox"/> Protection against extended unloaded operation (Trip)				
<input type="checkbox"/> valve unloaders are required as such Compressor shall start / stop at specified receiver pressures.				
<input type="checkbox"/> Purchaser's Interface				
Type of Interface (Single Point)	Size	Rating	Face	Position/Location
Main Gas Piping Inlet				
Main Gas Piping Outlet				
Relief Valves discharge				
Distance Piece Vent				
Packing Vent				
C.W. Inlet				



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	C.W. Outlet				
	N2 Inlet Supply				
	N2 Vent (Safe location)				
	Drains				
	MATERIALS				
	Cylinder Materials				
	Stage#	Stage#1	Stage#2	Stage#3	
	Cylinder	C.S./ C.I.	D.I / F.S	F.S.	
	Liner				
	Piston				
	Piston Rings	PTFE	PTFE	PTFE	
	Rider Rings	PTFE	PTFE	PTFE	
	Piston Rod	Forged steel/ AISI 4142	Forged steel/ AISI 4142	Forged steel/ AISI 4142	
	Packings Rings				
	Valve Seats				
	Valve Stops				
	Valve Rings / Plates	SS / SS	SS / SS	SS / SS	
	Valve Springs	SS	SS	SS	
	Cylinder Head				
	Motion Work Materials :				
		Material /ASTM Grades			
	Top Cover		<input type="checkbox"/> Cast <input type="checkbox"/> Fabricated		
	Crankcase		<input type="checkbox"/> Cast <input type="checkbox"/> Fabricated		
	Crankshaft		<input type="checkbox"/> Die Forged <input type="checkbox"/> Open Forged <input type="checkbox"/> Cast		
	Connecting Rods		<input type="checkbox"/> Die Forged <input type="checkbox"/> Open Forged <input type="checkbox"/> Cast		
	Cross heads		<input type="checkbox"/> Cast <input type="checkbox"/> Fabricated		
	Cross heads				
	Cross Head Guide		<input type="checkbox"/> Cast <input type="checkbox"/> Fabricated		
	Main Bearings Type		<input type="checkbox"/> Split Precision <input type="checkbox"/> Bush		
	Cross Head Pin Bearings Type		<input type="checkbox"/> Split Precision <input type="checkbox"/> Bush		
	Connecting Rod Bearings Type		<input type="checkbox"/> Split Precision <input type="checkbox"/> Bush		
	Cross Head Pin Type		<input type="checkbox"/> Split Precision <input type="checkbox"/> Bush		
	Note:				
	Each package shall be provided with two number drain lines, one from Suction KOD and second drain as common drain line from intermediate and discharge KOD routed to drain vessels through gas recovery vessels				
	<input type="checkbox"/> CONTROLS & INSTRUMENTATION				
	<input type="checkbox"/> AC Power On/Off SwitchWith Indication Lamp				
	<input type="checkbox"/> Control Power On/Off SwitchWith Indication Lamp YES				
	<input type="checkbox"/> Selector Switch A/M Station For L/O Pump Motor				
	<input type="checkbox"/> Selector Switch A/M Station For CW Pump Motor				
	<input type="checkbox"/> Emergency Stop Push Button				
	<input type="checkbox"/> Start Push Button For Air Compressor Motor				
	<input type="checkbox"/> Emergency Stop Push Button for MainMotor				
	<input type="checkbox"/> Lamp Test Push Button				
	<input type="checkbox"/> Alarm/Trip Acknowledge /Reset Push Botton				
	<input type="checkbox"/> Frame Oil Heater ON (Indicating lamp)				
	<input type="checkbox"/> Lubricator Oil Heater ON (Indicating lamp)				
	<input type="checkbox"/> Engine Interlock Against Loaded Start				



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<input type="checkbox"/>	Engine Interlock Against Start Without Prelubrication		
<input type="checkbox"/>	Low Lube oil pressure		
Note:			
Minimum required indications, alarms & trips are shown herewith. Bidder shall provide any additional instrumentation for safe operation.			
Compressor shall start stop at pre determined receiver pressure as specified. Bidder shall include in his Scope includes the necessary hardware for the same.			
All inter-stage / discharge and suction scrubber shall be provided with high / low level operated auto drain solenoid valves			
INSPECTION AND TESTS			
Material Composition and Physical Properties Certificates Required For:			
<input type="checkbox"/>	Cylinder and Liner		
<input type="checkbox"/>	Piston		
<input type="checkbox"/>	Crankshaft		
<input type="checkbox"/>	Connecting Rod		
<input type="checkbox"/>	Pressure Vessel		
<input type="checkbox"/>	Heat Exchanger		
<input type="checkbox"/> X-Ray Examination for components: Pressure Vessels (certificates to be furnished).			
<input type="checkbox"/> Ultrasonic Testing for components: Piston Rod, Crankshaft, Big End Bolts, Main Brg Studs.			
<input type="checkbox"/> Magnaflux Testing for components: Crankshaft, Piston Rod, Connecting Rod.			
<input type="checkbox"/> Dye Penetrant Testing for : Cylinder, Liner, Piston.			
	Required	Observed	Witnessed
<input type="checkbox"/>	Shop inspection by Purchaser during manufacture	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cylinder Hydrostatic	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cylinder Pressure Test By Helium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Hydrostatic Test of Pressure Vessels	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Hydrostatic Test of Distance Piece.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Leak Proof Test of Crank case for 24 Hrs	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Barring over to check clearance / Rod runout	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Mech. Running Test with shop Driver (4 Hours min.)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Performance Test at Works as per IS 5456/PTC9/BS 726 (*).	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Partial Stripping and internal inspection	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Functional/Continuity Tests - Control Panel.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Field Trial Run 72 Hrs. under Vendor's Supersion (Package)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Valve Leak Test	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Lube Oil Console Run test	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Closed Circuit C.W. System test	<input type="checkbox"/>	<input type="checkbox"/>
*: During package performance test			
Test Certificates Required For:			
<input type="checkbox"/>	Auxiliary Motor & Pumps	<input type="checkbox"/>	Safety Relief Valves
<input type="checkbox"/>	Safety Switches	<input type="checkbox"/>	Solenoid Valves
<input type="checkbox"/> WEIGHTS			
Overall supply (excluding driver and gear box, if any) Kg. approx.			
Maximum erection weight Kg. approx.			
Maximum maintenance weight Kg. approx.			
Gear Box Kg. approx.			
Driver Kg. approx.			
SCOPE OF SUPPLY			
<input type="checkbox"/> Compressor Assembly complete with frame, cylinders, cross head etc.			
<input type="checkbox"/> Motion work lubrication system			
<input type="checkbox"/> Cylinder and packing lubrication system			
<input type="checkbox"/> Cooling system			



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	■ Process Gas system	
	■ Local instrumentation	
	■ Local Gauge Board	
	■ Local Control Panel	■ PLC Panel
	■ Man Machine Interface located in Control Room	
	■ Main driver (Gas Engine)	
	■ Barring Device :	□ Manual
	□ Electric . Pneumatic	
	■ Flywheel	
	□ V-Belts with Pulley	
	□ Couplings	
	■ Driver Compressor	
	■ Guards for moving parts ■	
	■ Baseplate Common for Compressor and Driver	
	■ Fabricated Steel skid Common for compressor, driver and accessories	
	■ Ladders and platforms	
	■ Special Tools - One Set for each package	
	■ Anchor Bolts for Complete Package	
	■ Piping supports and brackets :	■ prefabricated for piping in Vendor's Scope
	■ Supports For Cylinders & Auxiliaries, Prefabricated & fitted in the Package	
	■ Commissioning Spares, erection and commissioning spares	
	■ Mandatory Spares as specified in the Job Specification	
	■ Train Torsion Analysis Study and Report	
	■ Acoustic Simulation Study & Report	
	■ Vendor Data as specified	
	NOTE : Refer checklist for scope of supply	



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DATASHEET OF ELECTRIC MOTOR DRIVEN CNG COMPRESSOR (1200 SCMH & 1600 SCMH)

1.0	PROJECT:		DATA SHEET NO:	
1.1	NO. OF UNITS	:	As per SOR	DRIVE: Electrical Motor (Energy Efficient)
1.2	DUTY	:	Continuous	LOCATION: As per SOR
2.0	OPERATING CONDITIONS			
2.1	Service/Stage	:	Compressor for CNG Stations/ Three	
2.2	Gas Handled	:	Natural Gas	
2.3	Composition (%)	:	Natural Gas	
2.4	Corrosive due to:	:		
2.5	Molecular Weight at Intake (Avg.)	:		
2.6	Cp/Cv at intake/compressibility Factor	:		
2.7	Relative Humidity	:		
2.8	Suction Temperature (°C)	:	35°C max	
2.9	Suction Pressure (Kg/cm ² , Gauge)	:	14-19 Kg/cm ² Gauge	
2.10	Discharge Temperature (°C)	:	Maximum 52°C After Cooler	
2.11	Discharge Pressure (Kg/cm ² , G)	:	255Kg/cm ² (Gauge)	
2.12	Required Capacity (SM ³ /hr.) : 1200	:		Driver Motor Rating: KW
2.13	Drive arrangement Direct Coupling/V-Belt	:		
2.14	Standard Conditions referred to	:	Standard Atmospheric pressure (1.033 Kg/cm ² abs) and Temperature of 15.6°C	
3.0	SITE CONDITIONS			
3.1	Place	:		Installation: Outdoor
3.2	Site Ambient Temp. (°C)	:	Min: 2 °C Max: 47.5 °C	Max. Relative Humidity (%): 90%
3.3	MSL – 220 m	:		
3.4	Area Classification	:	Class I Div I Group D or Zone I Div I Group IIA Group IIB	
4.0	APPLICABLE CODES & SPECIFICATIONS			
4.1	Compressor	:	API 11P, 2nd edn. ; API 618	Piping: ASME/ANSI B 31.3
4.2	Driver	:	Electrical Motor Data Sheet	
4.3	Air Cooled Exchangers	:	API 661	Water cooled exchangers: TEMA 'C' – Not Applicable
4.4	Pressure Vessel	:	ASME Sec. VIII Div.1/2	Control Panel: Refer Tech Specs
5.0	MANUFACTURER'S SPECIFICATION			
5.1	Name	:		Model:
5.2	No. Off	:		Compressor RPM/Stroke (mm):
5.3	Type	:		Drive Arrangement:
5.4	Service/Stage	:		



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5.5	Mol. Wt. At Intake (Avg.) (Gas Composition)	:		Cp/Cv Value/Compressibility Factor at Intake
5.6	Adiabatic Power (KW)	:		Shaft Power @ RV set pressure (KW)
5.7	Driver Rating & Speed (KW/RPM)	:		Noise level:
5.8	Suction Line (Size/ Rating)	:		Discharge Nozzle (Size/Rating)
5.9	Direction of Rotation from Driving End:			
5.10	Compressor Weight:	Max. Erection Weight:	Max. Maintenance Weight:	
5.11	Diff. Pr. In Suc. Strainer, Piping, puls Dampener: Diff. Pr. In after Cooler			
5.12	PERFORMANCE DATA OF PACKAGE			
	Gas	Suction Pr 14 kg/cm2g		
		Ist Stage	IInd Stage	IIIrd Stage
	Mol. Wt at intake			
	Specific Gravity			
	Cp/Cv Value / compressibility Factor at intake			
	Cp/Cv Value / compressibility Factor at discharge			
	Suction Pressure, kg/cm2 g			
	Suction Temp. °C	35		
	Suction capacity, SM3 / Hr			
	Discharge pressure, kg/cm2 g			
	Discharge Temp. Adiabatic °C			
	Discharge Temp. Actual, °C			
	shaft power, Kw			
	V-belt / coupling losses, kW			
	Shaft power at RV set pressure including			
	V-belt / coupling losses, kW			
	Volumetric Efficiency, %			
	Valve lift			
	Valve lift area			
	Valve velocity (Average) M/sec			
5.13	DESIGN DATA	Suction Pressure 19 Kg/ Cm2g		
		Ist Stage	IInd Stage	IIIrd Stage
	Mol. Wt at intake			
	Specific Gravity			
	Cp/Cv Value / compressibility Factor at intake			
	Cp/Cv Value / compressibility Factor at discharge			
	Suction Pressure, kg/cm2 g			
	Suction Temp. °C	35		
	Suction capacity, SM3 / Hr			
	Discharge pressure, kg/cm2 g			
	Discharge Temp. Adiabatic °C			
	Discharge Temp. Actual, °C			
	Shaft power, kW			
	V-belt / coupling losses, kW			
	Shaft power at RV set pressure including			
	V-belt / coupling losses, kW			



**MAHARASHTRA NATURAL
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Bid No.: MNGL/CP/2026-27/36

	Volumetric Efficiency, %			
	Valve lift			
	Valve lift area			
	Valve velocity (Average) M/sec			
6.0	CYLINDER & PACKAGING DATA			
6.1	Service / stage	Ist Stage	IInd Stage	IIIRD Stage
6.2	Cylinder bore (mm/No. off)			
6.3	Single / Double Acting			
6.4	Liner (yes/ No.)			
6.5	Type of Valves			
6.6	Piston Displacement (M3/Hr)			
6.7	Volumetric Efficiency (%) Min/ Nor/max			
6.8	Mean Piston Speed(m/sec) [<3.5 m/sec]			
6.9	Suction / discharge valve gas velocity (m/sec)			
6.10	Relief valve setting (kg/cm ² g)			
6.11	Max. allowable cylinder pressure (kg/cm ² g)			
6.12	Max. allowable cylinder temperature (°C)			
6.13	Pneumatic Test By (kg/cm ² g)			
6.14	Hydrostatic test (kg/cm ² g)			
6.15	Hydrostatic test water jacket (kg/cm ² g)			
6.16	Suction / discharge nozzle orientation			
6.17	No.of suction / discharge valves			
6.18	Piston Rod Dia (mm)			
6.19	Piston Load			
	-Max. Rod load gas compression, Kg			
	-Max. Rod load gas tension, Kg			
	- Rod load (Inertia alone) compression, Kg			
	- Rod load (Inertia alone) tension, Kg			
	-Rod load rated Pr. (gas + inertia) compression, Kg			
	-Rod load rated Pr. (gas + inertia) tension, Kg			
	-Rod load at R.V set Pr. (gas + inertia) compression, Kg			
	-Rod load at R.V. set Pr. (gas + inertia) tension, Kg			
6.20	Max. Permissible Piston Rod loads (kg)			
6.21	Rod packing cooling by liquid (yes/No.)			
6.22	Rod packing lubrication (Yes/No)			
6.23	Rod packing vent to			
6.24	distance piece type			
6.25	Cylinder jacket cooling by			
7.0	LUBRICATION SYSTEM			
7.1				
	Splash	Force feed Lubricated		
	Pressure lubrication including piping, valves and	Mini Lubricated		
	Oil filter: single	Non-Lubricated		
	Degree of filtration	Lubricator Driven by		
	Oil cooler	Compressor shaft		
	Oil pump driven by compressor shaft	Electric Motor (kW)		
	Auxiliary oil pumps, if required.	Lubricator equipped with sight flow indicator for each point storage tank with level gauge		
	Pre-lube Motor driven pump, in case of splash system			
	Grade / viscosity of lube oil	Grade / viscosity of lube oil		



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	Oil sump capacity	Oil sump capacity (For 500 hrs)			
	Lube oil consumption (Lt/100 Hr.)	Lube oil Consumption(Lt./100 hr)			
	Change lube oil after	Hours			
	Type of bearing : Main Big End:	Small End:			
8.0	COMPRESSOR CONTROLS				
8.1	Automatic start / stop on storage pressure level and manual start stop	Actuators (To be included in supply)			
8.2	Automatic drain of separators	Manual on machine			
8.3	Compressor to start automatically after power interruption with 10 seconds delay.	Intermediate devices (to be included in supply)			
8.4	Automatic recovery of gas from gas recovery vessel	Solenoid valves			
8.5	Automatic closing of suction isolating valve on compressor trip	Manual -mounted in a local panel.			
		Controller (For auto control)			
		Pressure switches (For auto control)			
8.6	Compressor shall unload on Power failure/ stoppage through (Vendor to indicate) Automatically/Manually	Any other instrument required.			
8.7	Compressor shall load on start through (Vendor to indicate)	Automatically Manually			
8.8	Recommended time duration for compressor operation @ 0% capacity (minutes)				
8.9	Recommended number of starts/ stops for the Motor : Per Hours				
AUXILIARIES					
9.0	COOLERS				
9.1.1		Oil Cooler Required)	After cooler	Inter coolers	
9.1.2	Cooler Type				
9.1.3	Tube Material				
9.1.4	Tube sheet material shell Material				
9.1.5	Shell Material				
9.1.6	ASME / IBR CODE STAMP	Yes	Yes	Yes	
9.2	Suction Strainer	Temporary Mesh Size			
9.3	Volume Bottles / Pulsation Dampers	1st Stage	2nd Stage	3rd Stage	
9.3.1	Type at Suction /Discharge				
9.3.2	Residual Pulse Amplitude (peak to peak)	3% / 3%			
9.3.3	Maximum Allowable Working Pressure (kg/cm2g)				
9.3.4	Capacity (M3)				
9.3.5	ASME / IBR CODE STAMP	Yes	Yes	Yes	
9.4	Separator	1st Suction	1st Discharge	2nd Discharge	Final Discharge
9.4.1	Type				
9.4.2	Max allowable Pr (kg/ cm2g)				
9.4.3	Capacity (M3)				
9.4.4	ASME / IBR CODE STAMP	Yes	Yes	Yes	Yes
9.5	Oil Mist separator at final discharge to limit oil carry over to 5 PPM				
9.5.1	Type	Capacity:			
9.5.2	Max allowable Pr (kg/ cm2g)	ASME / IBR CODE STAMP/: Yes			
9.6	Gas Recovery vessel	Capacity:			
9.6.1	Max allowable Pr (kg/cm2g)				
9.6.2	ASME / IBR CODE STAMP	yes			
10.0	INSTRUMENTATION				
10.1	PRESSURE INDICATION			PRESSURE SWITCHES	
10.2	Gas At inlet	Frame oil header (1 no. For trip on low pressure.)			
10.3	Gas at discharge (each stage)	Jacket water system failure			
10.4	Frame oil Header	Compressor discharge Prhigh (Each stage)			
10.5	Frame oil filter (Differential local)	Compressor discharge Pr Low (Final stage)			
10.6	Gas at after cooler exit (local)	Compressor suction pressure low			



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10.7	Hydraulic Oil Pr. (each stage)	Compressor suction pressure high			
10.8	TEMPERATURE INDICATION	Frame High vibration			
	Gas at suction to compressor	TEMPERATURE SWITCHES			
	Gas at Discharge of Comp (Each stage before cooler)	Temperature after compressor discharge before cool (each stage)			
	Gas at after cooler				
10.9	Oil cooler oil outlet				
10.10	OTHER INSTRUMENTS	LEVEL TRANSMITTERS			
10.11	Junction Box with interconnecting wiring	Suction K.O.D (for automatic drain)			
10.12		Discharge K.O.D (for automatic drain)			
10.13	Pressure Relief Valve at discharge each stage	BAFFLE FLOW SWITCHES OR ORIFICE DIFF. PRESS SWITCHES			
10.14	Pressure Relief Valve at suction to compressor	Low cooling water flow			
10.15		Water outlet -after cooler			
10.16	Instruments for closed circuit cooling water system	SIGHT FLOW INDICATORS			
10.17	Hour meter	As reqd. in close ckt. cooling system			
10.18	Gas detection system	Sight flow indicators, cylinder and packing lubrication oil lines			
10.18	Flame detection system	LEVEL GAUGE AND INDICATORS			
10.19	Forced feed lubrication failure to stop comp.	Frame oil (Bull's eye type)			
10.20	Priority fill panel	Packing / cylinder lubrication oil			
10.21	Emergency shut down system	Make up water tank			
10.22	Other instrument for safe running of compressor				
	Note: 1. Each pressure gauges and pressure switch with an isolating valve and a drain valve. Switch contacts to open under fault conditions Switch / junction box enclosure (As per the electrical area classification)				
11.0	INSTRUMENTAL PANEL				
11.1	PNEUMATIC CONTROLS FOR	TRIP CIRCUIT TO BE CONNECTED TO MAIN DRIVER CONTROL SWITCH			
11.2	Capacity Indication	Cause of shut down			
11.3	Pressure Regulator	Frame Oil Pressure-Low			
11.4		Low Cooling Water Flow			
11.5	PUSH BUTTONS AND SIGNAL LIGHTS FOR				
11.6	Main Motor & Aux. Motors	Compressor discharge PR.(Each stage)			
11.7	Ammeters for main and Aux. Motors	Compressor suction Pr. Low			
11.8	ESD	Compressor suction Pr.			
11.9	Common machine trip-alarm				
11.10	Following to be included in vendor's scope of supply:				
11.11	All interconnecting oil gas water piping & tubing as per schematic attached.				
11.12	All electrical power distribution and interconnection as specified.				
11.13	Intrinsically safe system for trips (Ref. Inst. specs)				
11.14	Electrical circuits to be housed in Explosion Proof Cabinet (Refer Elect. & inst. Specs)				
11.15	Electrical circuits to be provided for repeating pre alarm and trip alarm on the local panel.				
11.16	Annunciation system with test / acknowledgement push buttons & sole first off sequences				
11.17	Motor Interlock against loaded start				
11.18	Motor Interlock against start without air cooler fan running				
11.19	Motor interlock against start without pre-lubrication				
11.20	Provision shall be made for common alarm and trip alarm				
11.21	Any additional instruments & controls required for safe operation of compressor (as recommended by compressor vendor)				
12.0	MATERIAL OF CONSTRUCTION & GRADES				
12.1	Stage	1st	2nd	3rd	Remark
12.2	Cylinder & Head				
12.3	Liner				
12.4	Piston				



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12.5	Piston Ring								
12.6	Piston Shoe (Wear Band)								
12.7	Valve seat								
12.8	Valve stop								
12.9	Valve / plate / Ring								
12.10	Valve spring								
12.11	Cylinder Packing Ring								
12.12	Crank Shaft F.S (Forged steel)	Connecting Road (CR) F.S	CR cap. Bolts FS						
12.13	Main bearing: Big End Beating: Small end bush:								
12.14	Piston Rod	Yield strength	Hardness (RC)	Surface Finish					
12.15	Pulsation Dampers / Volume Bottles			Suction/Discharge KOD					
12.16	Non Return Valve- Shall be compressor Discharge valve type								
13.0	INSPECTION AND TESTING								
13.1	X-ray examination for welded joints for heat exch. / Press. Vessel / gas Piping (Certificate to be furnished)			NO only TC					
13.2	Ultrasonic testing for piston rod, connecting rod, crankshaft, big end bolts, main brg. Studs.			YES					
13.3	Magnaflux testing for crankshaft, piston rod, connecting rod			YES					
13.4	Dye penetrant testing for cylinder liners , piston			YES					
13.5	Shop inspection by purchaser during construction			YES					
13.6	Barring over to check clearance			YES					
13.7	Mechanical running test with shop job driver at compressor vendor's works			YES					
13.8	Stripping check and internal inspection			for one comp					
13.9	Hydrostatic test of Cylinders, Pressure Vessels			Yes					
13.10	Leak proof test of crank case (min 24 hrs with With kerosene)			Yes					
13.11	Fit up test at compressor packager's			Yes					
13.12	Performance Acceptance Test			YES					
13.13	Field noise level test			YES					
13.14	Field trial run at site for 12 hours			YES					
13.15	Functional / continuity tests - control panel (At sub vendor's works)			YES					
13.16	Inspection and tests of compressor vessels								
	Piston			Piston Rod					
		Cylinder and liner	Connecting Rod	Crank case					
		Crank shaft	Heat Exchangers	Valve components					
		Pressure vessels							
	Test Certificate required for								
		Auxiliary Motor & Pumps	Safety Relief Valves (Temp / F	Capacity control devices					
		Safety switches	Solenoid valves	All instruments					
	Note : 1. For electrical / instrument items, vendor shall provide certificates issued by statutory inspection authority confirming suitability of design / construction for specified Hazardous area classification. Service								
		Size Type (Induced Force)		Craft/No. of Bays					
		Surface per Unit-Finned Tube (m2)		Bare Tube (m2)					
		Heat Exchanged (KW)		MTD. Eff °C					
		Transfer Rate * Finned Tube : Bare Tube, Service Clean		W/m2 °C					
	PERFORMANCE DATA-TUBE SIDE								
				Min. Suc. Pr.		Normal. Suc. Pr.	Max. Suc. Pr		
				In	Out	In	Out	In	Out
	Gas	Inter Cooler 1st Stage	Flow Kg/s						
			Temp °C						
			Pr. Kg/cm2						
			Total Heat KJ/Kg						
		Inter Cooler	Flow Kg/s						
			Temp °C						



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	Composition	2nd Stage	Pr. Kg/cm2									
			Total Heat KJ/Kg									
		After Cooler Stage	Flow Kg/s									
			Temp °C									
			Pr. Kg/cm2									
			Total Heat KJ/Kg									
	Oil Cooler Stage	Flow Kg/s										
		Temp °C										
		Pr. Kg/cm2										
		Total Heat KJ/Kg										
	Water/Air Cooler Stage	Flow Kg/s										
		Temp °C										
		Pr. Kg/cm2										
		Total Heat KJ/Kg										
	Total Heat all streams KJ											
	Pressure Drop Allow/Calc. Kg/cm2 g											
	Performance –Data –Air Side											
	Air Quantity (Total Kgs.)											