MAHARASHTRA NATURAL GAS LTD., PUNE
(MNGL)

BID DOCUMENT
FOR

1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA

UNDER OPEN DOMESTIC COMPETITIVE BIDDING (THROUGH E-TENDERING MODE)

Bid Document No.: MNGL/CP/2023-24/172 dated 20.02.2024

MAHARASHTRA NATURAL GAS LIMITED	**Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.** **Bid No.: MNGL/CP/2023-24/172**

Volume I OF II

SECTION - I
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/2023-24/172 dated 20.02.2024
ITEM(S)	Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA
TYPE OF BID	Open Domestic Competitive Bidding
TIME SCHEDULE	As per Section IV of Vol. II of II
EARNEST MONEY/ BID SECURITY	Rs.2,00,000/- in the form of Demand Draft / BG to be in favor of "**Maharashtra Natural Gas Ltd.**" payable at **Pune**. Account Details for NEFT / RTGS for EMD: Name of the Beneficiary: M/s Maharashtra Natural Gas Limited Name of the Bank & Address: State Bank of India Branch: Industrial Finance Branch, "Tara Chambers", Pune- Mumbai Road, Wakadewadi, Pune-411 003 A/c No.: 35310073625 IFSC Code: SBIN0008966
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	27.02.2024 @11:00 Hrs. VC Link: https://meet.google.com/vjo-dcqi-ooq
Bid submission due date and time	12.03.2024 till 15:00 Hrs. IST
Bid Submission at	https://etenders.gov.in
Techno-commercial bid opening date and time	13.03.2024 at 16:00 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	General Manager (C&P) C&P Department, Maharashtra Natural Gas Limited, Pride Purple Coronet, 2nd Floor, Baner Road, Baner, Pune – 411045
Contact details	Telephone: +91 (20) 25611000/1190/1153 Email: gasaid@mngl.in / akshay.girme@mngl.in / mayur.patil@mngl.in
BIDDER ELIGIBILITY CRITERIA & 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.

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 must register itself on CPPP's website **https://etenders.gov.in/eprocure/app**. Please also note that the bidder must 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 & nonregistration.

(The bids must 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 letterhead 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.

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 after 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 must 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. After 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 6(SIX) months from the bid due date, must accompany the offer in the format made available in the Bid Document.

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), 10% of Delivery Order Value
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) Bidder have been 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

Ganesh Said
General Manager (C&P)

Encl. 1. Vol. I of II & II of II of Bid Document.

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.

ANNEXURE-I to IFB

BIDDERS' ELIGIBILITY CRITERIA

0.0 INTRODUCTION

Maharashtra Natural Gas Limited (MNGL) is a joint venture company of M/s GAIL (India) Limited and M/s Bharat Petroleum Corporation Limited (BPCL). MNGL has been set up to supply natural gas to domestic, commercial, and industrial sectors including setting up of CNG filling stations to cater to the automobile sector for vehicle in Pune, Nashik, Nanded and Sindhudurg in Maharashtra, Nizamabad in Hyderabad and Ramanagara in Karnataka.

1.0 GENERAL INFORMATION

This tender deals with for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.

2.0 SCOPE AND QUANTITY OF SUPPLY:

This specification covers the requirements of design, material, manufacturing, construction features, inspection, testing and commissioning of a complete District Regulating Station (DRS) including all packing, preservation and transportation to sites /MNGL's Store. The maximum inlet pressure to the DRS shall be 19 bar (g). Unless otherwise specified, all the pressures indicated in this specification are gauge pressures.

SOR Item No.	Item Description	GA	Unit (No.)
1.01	DRS Twin Stream 5,000 SCMH (150#)	Pune	03
1.02	DRS Twin Stream 10,000 SCMH (150#)		05

3.0 BIDDER'S ELIGIBILITY CRITERIA:

The following are the BEC parameters:

A. TECHNICAL:

A.1. The bidder must have supplied at least 50% of the quoted quantity of Twin Stream DRS / MRS of the 1000 SCMH (size in terms of output flow i.e. SCMH of the DRS / MRS mentioned in the tender) or higher size of 150 class or higher rating, to any City Gas Distribution Company in India as a manufacturer/packager in the last five years reckoned from the final bid due date.

A.2. DOCUMENTS REQUIRED:

To meet the technical qualification criteria as stated above, bidder shall provide documentary evidence viz. copies of detailed Purchase Order, inspection report, inspection release note/Dispatch clearance document, approved technical data sheet along with supply completion/execution certificate issued by CGD company/client/consultant mentioning the quantity supplied.

B. FINANCIAL (For SOR Item No.2 i.e. 10,000 SCMH Twin Stream DRS):

B.1. Turnover

The bidder should have achieved a minimum annual turnover of Rs.80 Lakhs in any one of the last 3 (three) audited financial years i.e., 2020-21, 2021-22 & 2022-23.

B.2. Net worth

Net worth must be positive as per last audited financial statement i.e., for the year 2022-23

B.3. Working Capital

The bidder should have a minimum working capital of Rs.16 Lakhs as per latest audited balance sheet i.e., for the year 2022-23. If the bidder's working capital is inadequate, the bidder should supplement this with a letter from bidder's bank, having net worth not less than Rs.100 crores, confirming the availability of line of credit to cover the inadequacy of previous year and meet the current working capital requirement.

Bidders must submit documentary evidence such as balance sheet & Profit & Loss A/c Statement for last three audited financial years i.e., 2020-21, 2021-22 & 2022-23 in support of the above.

If the audited financial results of the immediately preceding financial year i.e., 2022-23 is not available, then the audited financial results of the year immediately prior to 2022-23 i.e., 2021-22 shall be considered for calculation of Net Worth and Working Capital and audited Financial Results of the year 2019-20, 2020-21 & 2021-22 shall be considered for calculation of Annual Turnover as specified at **B. of Financial Criteria**.

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

4.0 Evaluation and award of contract:

Evaluation shall be done on item-wise least cost basis to the Purchaser & order shall be placed to L-1 bidder for each SOR Item separately. In case of tie for L1 bidder, the order shall be placed on the bidder having highest turnover during the preceding 3 Financial Years i.e., 2020-21, 2021-22 and 2022-23.

SECTION – II

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://etendrs.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/eprocure/app) 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 II or 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 several 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.

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 consider corrigendum if any published before submitting their bids.

After selecting the tender document same shall be moved to the 'My favorite' 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 upload 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 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 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 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 17.0 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" i**n 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.

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**

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 Section-IV, Special Condition of Contract.

1.2 The successful bidder will be expected to complete the Scope of supply within the period stated in IFB.

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. One Bid per Bidder

3.1 Each bidder shall submit only one bid. 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. If bid of companies which is managed & controlled by same group of individual (common owners/ proprietor, common partner/ common directors), the participation in a particular tender by more than one such bidder will not be allowed, and bids will be disqualified.

3.2 Also, if this fact is known at a later stage during bid evaluation or even after finalization of contract, the award will be made null and void and appropriate action including forfeiting of security deposit in any form and putting the firms on holiday list will be taken.

3.3 Alternative bids are not acceptable.

4. Bidder Eligibility

4.1 Experience Criteria as per Invitation for Bid (IFB) (Section – I of this Bid Document)

4.2 Financial Criteria as per Invitation for Bid (IFB) (Section – I of this Bid Document)

5. Cost of Bidding

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

B. BIDDING DOCUMENT

6. Content of Bidding

6.1 The bidding documents are those stated below Documents and should be read in conjunction with any addenda issued in accordance with ITB Clause

a) Volume I of II - IFB, ITB, GCC, ATC

b) Volume II of II – SCC, MR & TS, SOR, etc.

6.2 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 to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

7. Clarification of Bidding Documents

7.1 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.

8. Amendment of Bidding Documents

8.1 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.

8.2 Any addendum /corrigendum/ clarifications to bidders query thus issued shall be part of the bidding documents pursuant to ITB Clause- 7.0 and shall be hosted on the on website www.mngl.in and CPPP's e-tendering website before bidding 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 bidder's query for their reference. Bidders desirous to submit its bid must take into consideration of all the

addendum(s)/ corrigendum (s)/ clarifications to bidder's query hosted on the above websites before submitting the bid.

8.3 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 amendments issue

8.4 Bidders are advised to visit www.mngl.in and CPPP's e-tendering website from time to time to get updated information / documents.

C. PREPARATION OF BIDS

9. Language of Bid

9.1 The bid prepared by the bidder as well as all correspondence/drawings and documents relating to the bid exchanged by bidder and the PURCHASER shall be written in English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an ENGLISH translation, in which case, for the purpose of interpretation of the bid, the ENGLISH translation shall govern.

9.2 In the event of submission of any document/certificate by the Bidder in a language other than English, the English translation of the same duly authenticated by Chamber of Commerce of Bidder's country shall be submitted by the Bidder. Metric measurement system shall be applied.

10 Documents Comprising the Bids

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

10.1.1 UN-PRICE BID

a) Price Schedule (with price figures blanked) completed in accordance with ITB Clauses 11, 12 & 13.

b) Documentary evidence establishing that Bidder is eligible to bid and meets qualification criteria in accordance with ITB Clause 14.

c) Documentary evidence establishing Goods' eligibility and conformity to Bidding Documents in accordance with ITB Clause 15

d) Copy of Bid Security in accordance with ITB Clauses.

e) Power of Attorney of the signatory to the Bidding Document.

f) Document showing annual turnover for the last three years such as annual reports, profit and loss account, net worth etc.

g) Various forms & formats including bid form enclosed as Attachment to GCC/SCC to be duly filled & submitted.
(Please note space for prices to be kept blank in these documents, which are meant for Part – I of the bids.)

h) List of 2(two) years spares with blank price, if applicable, in line with Unpriced part.

i) List of commissioning spares, if applicable, in line with Technical part

j) Any other information/details required as per bidding document including addendum/ corrigendum to this bidding document, if issued.

10.1.2 PRICED BID

Price bid having Price Schedule/SOR filled up in accordance with tender documents.

10.1.3 Original Bid Security (Part-III) – For Applicability refer ITB clause no. 17.0

11. Bid Form & Price Schedule

11.1 The bidders shall complete the Bid Form and appropriate, Price schedule furnished in the Vol II of II of Bidding Document, indicating the required information for all the goods to be supplied, a brief description of the goods, their country of origin and quantity.

12.0 BID PRICES

12.1 The Bidder shall e-quote Bid Prices on appropriate format of “Schedule of Rates” (SOR) as enclosed part of bid documents as it proposes to supply under the contract.

12.2 Indian Bidders shall indicate the following separately (as per Price Schedule)

A) Ex-works Price including packing and forwarding charges (such price to include all costs as well as duties and taxes paid or payable on components and raw materials incorporated or to be incorporated in the goods).

B) Goods & Service Tax which will be payable on the finished goods, if this contract is awarded.

C) The bidders shall indicate breakup of the quantum of imports involved for import of necessary raw materials and components giving CIF value of Import in applicable currency considered and included in bid price Essentiality certificate may be provided by the Purchaser for Project imports, wherever applicable.

D) The statutory variation in Goods & Service Tax (GST) on finished goods covered under Cl. 12.1 B within the contractual delivery period shall be to MNGL's account. However, any increase in the rate of these taxes and duties beyond the contractual completion period shall be to bidder's account and any decrease in rate shall be passed on to MNGL. Further, any statutory variation in the rate of customs duty (except GST) within contractual delivery period, on-the actual CIF value of import content, but subject to maximum of such duty payable on quoted CIF value, under Cl. 12.1 (A) shall also be to MNGL's account. In case of delay in delivery, any increase in the rate of customs duty beyond the contractual completion period shall be to bidder's account and any decrease in rate shall be passed on to MNGL.

E) The total amount which can be claimed / set off by MNGL for CENVAT (for Goods & Service tax) separately.

12.3 Inland transportation, other local costs incidental to delivery of the goods to its destination (FOT-site) shall be quoted by the Bidder.

12.4 The bidder's break-up of price components in accordance with above sub-clauses will be solely for the purpose of facilitating the comparison of bids and will not in any way, limit the PURCHASER's right to contract on different terms.

12.5 Fixed Price: Prices quoted by the bidder shall be firm and fixed during the bidder's performance of the contract and not subject to variation on any account except for variations permitted under 12.1 D for domestic bidders. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

12.6 The delivery terms shall be interpreted as per INCOTERMS 2010.

13 Bid Currencies

13.1 Bidders shall submit their bids in Indian Rupees only

14 Documents Establishing Bidder's Eligibility and Qualification

14.1 Bid Evaluation Criteria

14.1.1 Pursuant to evaluation Criteria specified in Invitation for Bids (IFB) the bidder shall furnish all necessary supporting documentary evidence to establish the bidder's claim of meeting Bid evaluation criteria.

14.2 Bidders Eligibility Criteria

14.2.1 The bidder shall furnish, as part of his bid, documents establishing the bidder's eligibility to bid and its qualification to perform the contract if its bid is accepted.

14.2.2 The documentary evidence of the bidder's qualifications to perform the contract if his bid is accepted, shall establish to the PURCHASER'S satisfaction:

a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture (or otherwise, produce, the Bidder has been duly authorized by the goods Manufacturer or producer to supply the goods in the Purchaser’s country).

b) that the Bidder has the financial, technical and production capacity necessary to perform the contract.

c) that, in case of a Bidder not doing business within the Purchaser's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped and able to carry out the Supplier's maintenance, repair and spare parts stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

14.2.3 The PURCHASER will determine to its satisfaction whether the bidder selected as having submitted the lowest evaluated, responsive bid is qualified to satisfactorily perform the contract. An affirmative determination will be pre-requisite for award of the Contract.

15 Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

15.1 Pursuant to ITB Clause 10, the bidder shall furnish, as part of the bid, documents establishing the eligibility and conformity to the Bidding Documents of all goods and services which the bidder proposes to supply under the Contract.

15.2 The documentary evidence of the goods and services' conformity to the Bidding Documents may be in the form of literature, drawings or data and shall furnish:

a) detailed description of the essential technical and performance characteristics of the goods.

b) a clause-by-clause commentary on the PURCHASER'S Technical specifications demonstrating the goods and services' substantial responsiveness to the specifications.

15.3 For purpose of the commentary to be furnished under Clause-15.2 above, the bidder shall note that standards for workmanship, material and equipment and reference to brand names or catalogue numbers, designated by the PURCHASER in its Technical Specifications are intended to be descriptive only and not restrictive.

16 Period of Validity of Bids

16.1 The bid shall remain valid for acceptance for **four (4)** months from the bid due date.

16.2 In exceptional circumstances, prior to expiry of the original bid validity period, the PURCHASER may request that the bidder extend the period of bid validity for a specified additional period. The requests and the responses thereto shall be made in writing (by fax / post 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 ITB Clause 17.0 in all respects.

17 Bid Security

17.1 Pursuant to ITB Clause-10, the bidder shall furnish, as part of his bid, bid security in the amount specified in the Invitation for Bids.

17.2 The bid security is required to protect the PURCHASER against the risk of bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause-17.7

17.3 The bid security in US Dollars for bidders quoting in foreign currency and Indian Rupees for bidders quoting in Indian Rupees shall be in the form of Demand Draft/ Banker's Cheque/NEFT/RTGS in favour of Maharashtra Natural Gas Limited, payable as per IFB (issued by Indian Nationalised /Scheduled bank or first class International bank) or in the form of Bank Guarantee/ irrevocable Letter of Credit as per format enclosed in the Bidding Document.

MNGL shall not be liable to pay any bank - charges, commission or interest on the amount of bid security.

In case, bid security is in the form of Bank Guarantee or Letter of Credit, the same 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.

The Bid Security shall be valid for two (02) months beyond the validity of the Bid as specified in Clause 16.0 of ITB.

17.4 Any bid not secured in accordance with ITB Clause 17.1 and 17.3 may be rejected by the PURCHASER as non-responsive

17.5 Unsuccessful bidder's bid security will be discharged/returned as promptly as possible after award of contract and signing of agreement.

17.6 The successful bidder's bid security will be discharged upon the bidder's accepting the order, pursuant to ITB Clause-41 and furnishing the Contract Performance Guarantee pursuant to ITB Clause-42.

17.7 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 Purchase Order in accordance with ITB Clause-41 or

ii) to furnish Performance Guarantee in accordance with ITB Clause-42

iii) to accept correction of errors pursuant to ITB Clause 32.0

c) If the Bidder changes the proposed manufacturer after submission of his bid.

17.8 Bid Security should be in favor of Maharashtra Natural Gas Limited and addressed to MNGL. Bid Security must indicate the Bid Document number and the item for which the bidder is quoting. This is essential to have proper co-relation at a later date. The Bid Security in the form of Bank Guarantee or letter of Credit shall be in the form provided in the Bidding Document.

17.9 **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.**

18. Pre-Bid meeting **– As per IFB**

18.1 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

18.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

18.3 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 7.1 that may become necessary because of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 8 and not through the minutes of the pre-bid meeting.

18.4 Non-attendance of the pre-bid meeting will not be a cause for disqualification of a bidder.

19 Format and Signing of Bid

19.1 The bid shall be typed or written in indelible ink. Each page of bid offer shall be stamped and signed by the Bidder or a person or persons duly authorized by competent authority in order to bind the bidder to the contract.

19.2 Any interlineations, erasures, or corrections shall be valid only if the person or persons signing the bid initial them. Overwriting will not be treated as correction and may lead to rejection of bid. A correction shall be considered if a part of text or figures or dates needing corrections are deleted and a separate text or figure or date, as the case may be, is written separately having proper link to the place of correction.

19.3 As bidding shall be done through e-tendering, digitally signed documents to be uploaded.

20 Zero Deviation

20.1 Bidders to note that, MNGL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract, Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of supply, technical specifications etc., to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer.

20.2 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), 10% of Delivery Order Value
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) Bidder have been put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
xiv) Bidders 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.

21 Mode of Payment

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

22 Agent/ consultant/ Representative/ Retainer/ Associate *[Applicable for ICB tenders only]*

22.1 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.

22.2 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 indicate clearly 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 also 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.

(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.

22.3 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.

D. SUBMISSION OF BIDS

23.0 PREPARATION OF BIDS

23.1 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.

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

24.0 DEADLINE FOR SUBMISSION OF BID

24.1 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.

24.2 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.

25.0 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.

26.0 MODIFICATION AND WITHDRAWAL OF BIDS

26.1 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.

26.2 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.

26.3 Upon selecting "withdraw" option on the e-tender portal and providing the reason for withdrawal, the portal will not allow the bidder to re-submit his bid. MNGL shall not be responsible if the bidder is not able to re-submit his bid after withdrawal.

E. OPENING AND EVALUATION OF BIDS

27. Bid Opening

27.1 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.

27.2 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.

27.3 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.

27.4 The Purchaser will prepare a bid opening statement to be signed by all representatives present during bid opening.

28 Process to be Confidential

28.1 Information relating to the examination, clarifications, evaluation and comparison of bids and recommendations for the order, shall not be disclosed to bidders or any other person officially concerned with such process.

29 Contacting the Purchaser

29.1 From the time of the bid opening to the time of the release of order, if any bidder wishes to contact the Purchaser for any matter relating to the bid, it should do so in writing.

29.2 Any effort by a bidder to influence the Purchaser in any manner in respect of bid evaluation or award will result in the rejection of that bid.

30 Preliminary Examination of Bids

30.1 Technical-Commercial Bid Evaluation

30.1.1 The PURCHASER will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required securities have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

30.1.2 Prior to the detailed evaluation, the PURCHASER will determine whether each bid is of acceptable quality, is generally complete and is responsive to the Bidding Documents. For purposes of this determination a responsive bid is one which conforms to all the terms, conditions and specification of the bidding document, without deviations, objections, conditionally or reservations.

30.1.3 No deviation whatsoever, is permitted in the Bidding Documents and the Priced bids of those bidders whose Un-Priced bids contain any exception to the conditions and stipulations of the Bidding Documents shall not be opened and returned un-opened to such bidder(s).

30.1.4 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. If a bid is non-responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the bidder by correction of the nonconformity.

30.1.5 The Purchaser will carry out a detailed evaluation of the bids previously determined to be responsive to determine whether the technical aspects are in accordance with the requirements set forth in the Bidding Documents. To reach such a determination, the Purchaser will examine and compare the technical aspects of the bids on the basis of the information supplied by the bidders, taking into account the following factors:

(a) Overall completeness and compliance with the Technical Specifications; quality function and operation of the process control concept included in the bid. The bid that does not meet minimum acceptable standard of completeness, consistency and detail will be rejected as non-responsive.

(b) Any other relevant factor, if any that the Purchaser deems necessary or prudent to be taken into consideration.

30.2 Requisite forms contain all necessary information including those, required for meeting qualifying criteria stipulated in the Bidding Document.

31.0 **OPENING OF PRICE BID**

31.1 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.

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

32 Arithmetic Corrections

32.1 The bids will be checked for any arithmetical errors as follows:

32.1.1 In case of any discrepancy between prices in words and prices in figures, the prices in words shall be valid and binding. In case of any error in total indicated by the Bidder, the unit price alone shall be considered valid and binding on the Bidder.

32.1.2 If the bidder does not accept the correction of errors, his bid will be rejected, and the bid security will be forfeited.

33 Conversion to Single Currency *[Applicable in ICB tenders only]*

33.1 To facilitate evaluation and comparison, the PURCHASER will convert all bid prices expressed in the amounts in various currencies in which bid price is payable, to Indian Rupees at the Bills selling exchange rate declared by the State Bank of India on the working day prior to Priced bid (Part-II) opening.

34 Evaluation and Comparison of Bids

34.1 The PURCHASER will evaluate and compare the bids previously determined to be substantially responsive, pursuant to ITB Clause - 30.

34.2 Bid Evaluation and Comparison Criteria:

The evaluation of all the responsive bids for supplies to be arrived at the lowest evaluated offer as under:

(A) **Domestic Bidders:**

The evaluated price of domestic bidders shall include the following:

i) The prices quoted by Domestic Bidder for the scope of work defined in the tender documents will include customs duty plus Goods & Service Tax and any additional duty, if any, Goods & Service Tax as applicable which shall be indicated separately

ii) Price quoted by the domestic bidders shall include all costs towards Insurance, all type of handling, transportation, etc. as applicable and payable by the CONTRACTOR under the contract

iii) Goods & Service Tax on the finished goods.

34.3 OWNER'S price evaluation and price comparison of technical-commercially acceptable bids shall take following in account***:***

i) Total value on FOT site basis including liability towards customs duty, GST, all other taxes & duties, levies, transportation, all insurance and all

other costs as applicable up to Final Acceptance of work complete in all respects covered under para-A above.

ii) Cost of mandatory spares, if any.

iii) **The total site price quoted shall be compared.**

34.4 Bids not conforming to Bid Qualification criteria and technical & commercial requirements shall be rejected.

35 Domestic Preference **–**

35.1 **VOID**

F. AWARD OF CONTRACT

36 Post Qualification

36.1 In the absence of pre-qualification, the PURCHASER will determine to its satisfaction whether the bidder selected as having submitted the lowest evaluated, responsive bid is qualified to satisfactorily perform the contract.

36.2 The determination will consider the bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the Bidder, pursuant to ITB Clause-10, as well as such other information as the PURCHASER deems necessary and appropriate.

36.3 An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid.

37 Award Criteria

37.1 Subject to ITB Clause 30, the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

38 PURCHASER's Right to Vary Quantities at Time of Award

38.1 PURCHASER reserves the right at the time of award of ORDER to increase or decrease by **up to 20%** the quantity of GOODS specified in the Material Requisition, without any change in unit price or other terms and conditions. Variation beyond this limit will be subject to mutual agreement between the PURCHASER and the Seller.

39 PURCHASER's Right to Accept Any Bid and To reject Any or All Bids

39.1 PURCHASER 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 the PURCHASER'S ACTION.

40 Notification of Award/ Fax of Intent / Purchase Order

40.1 Prior to the expiration of period of bid validity, the PURCHASER will notify the successful bidder in writing, by fax or email to be confirmed in writing that his bid has been accepted. The notification of award/ Fax of Intent / Purchase Order will constitute the formation of the Contract.

40.2 Delivery shall be counted from the date of Delivery Order.

40.3 Upon the successful bidder's furnishing of contract performance bank guarantee. Pursuant to ITB Clause-42, the PURCHASER will promptly notify each unsuccessful bidder and will discharge his bid security pursuant of ITB Clause 17.

41 Acceptance of Purchase Order

41.1 PURCHASER will issue the Purchase Order to the successful bidder, who, within 15 days of receipt of the same, shall sign all pages and return the acceptance copy to the PURCHASER.

42 Performance Guarantee

42.1 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 in accordance with Clause 12 of General Conditions of Contract in the form provided in the bidding documents. The Bank Guarantee/Letter of Credit towards performance guarantee shall be in the currency of the Contract.

42.2 The performance guarantee shall be for an amount equal to 10% of the value of the Delivery Order towards faithful performance of the contractual obligations and performance of equipment. This 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 bank guarantee/letter of Credit shall be valid for a period as-stated in Clause-12 of General Conditions of Contract

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

43 Income Tax Liability

43.1 The bidder will have to bear all income tax liability, both Corporate as well as for his personnel.

44 Corrupt or Fraudulent Practices:

44.1 The Purchaser requires that Bidders / Practices Suppliers observe the highest standard of ethics during the procurement and execution of the order. In pursuance of this policy, the Purchaser:

a) defines, for the purposes of this provision, the terms set forth below as follows:

i) "corrupt practice" means the offering, giving, receiving, 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 to influence a procurement process or the execution of a contract to the detriment of the Purchaser 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 Purchaser 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, either indefinitely or for a stated period of time, if at any time the Purchaser determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a contract.

45: 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.

IV. "Bidder from a country which shares a land border with India" for the purpose of this:
a. An entity incorporated, established or registered in such a country; or
b. A subsidiary of an entity incorporated, established or registered in such a country; or

c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
d. An entity whose beneficial owner is situated in such a country; or
e. An Indian (or other) agent of such an entity; or
f. A natural person who is a citizen of such a country; or
g. 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:

i) 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—

a) "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company.

b) "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 shareholder's agreements or voting agreements.

ii) 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.

iii) 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.

iv) 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.

v) 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

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.

Attachment 1

UNDERTAKING ON LETTERHEAD

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

Sub:

Tender No:

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:

(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) [ ]

(Bidder to tick appropriate option above)

We hereby certify that bidder M/s _____ (***Name of bidder)*** fulfils all requirements in this regard and is eligible to be considered against the tender.

Place:
Date:

{Signature of Authorised Signatory of Bidder}
Name:
Designation:
Seal:

SECTION – III
GENERAL CONDITIONS OF CONTRACT
(GCC – GOODS)

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 up to 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.

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 INCO TERMS 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, stagewise as well as final, before dispatch, at SELLER's works and on receipt at SITE as per terms of the CONTRACT.

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 equipments, 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 considered when these calculations are made from detailed or construction drawings, or from work 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 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

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 are 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 six (6) 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.

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.

a. All instructions and orders to SELLER shall, excepting what is herein provided, be given by PURCHASER.

b. All the work shall be carried out under the direction of and to the satisfaction of PURCHASER.

c. All communications including technical/commercial clarifications and/or comments shall be addressed to PURCHASER and shall always bear reference to the CONTRACT.

d. Invoices for payment against CONTRACT shall be addressed to PURCHASER.

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.

11.3 SELLER shall also protect and fully indemnify the PURCHASER from any claims from SELLER'S workmen/employees or their heirs, dependants, 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 Bank Guarantee/irrevocable Letter of Credit to the PURCHASER, in the form provided in the Bidding Documents, for an amount equivalent to 10% of the total 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.

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 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.

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.

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 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 warrantee/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.

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 blue prints, 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 (trade-mark), quality and grade.

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

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 authorized 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.

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 / Purchase Order together with Performance Guarantee for 10% of 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.
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.

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 contract price shall be reduced by ½ % (half percent) of the total contract price per complete week of delay or part thereof subject to a maximum of 5% (five percent) of the total contract price.

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.

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 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.

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.

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 licenses 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 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 CLAUSES

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 sells the materials of identical description to any persons/organizations including the Purchaser or any department of the Central Govt. or any Dept. 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 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 offered/sold by me/us to any person/organizations including the Purchaser or any Dept. Of Central Govt. or any Dept. Of State Govt. or any Statutory Undertaking of the Central or State Govt. up to 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.

SECTION - IIIA
FORMS AND FORMATS

FORM F-1
BIDDER'S GENERAL INFORMATION
(Information must be provided on bidder's letterhead)

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

1-1 Bidder Name: _____
1-2 Number of Years in Operation: _____
1-3 Address of Registered Office: _____

City_____ District _____

State _____PIN _____

1-4 Operation Address
(If different from above): _____

City_____District _____

State _____PIN _____

1-5 Telephone Number: _____
(Area Code) (Telephone Number)

1-6 Mobile Number, if any _____
1-7 E-mail address: _____
1-8 Website: _____
1-9 Fax Number: _____
(Area Code) (Telephone Number)

1-10 ISO Certification, if any {If yes, please furnish details} _____
1-11 Whether Supplier / Manufacturer
/ Dealer / Trader / Service Provider _____

1-12 Types of material / service provided _____
1-13 Bank's Name: _____
1-14 Bank's Branch: _____
1-15 Branch Code: _____
1-16 Bank account Number: _____
1-17 Account type: _____
1-18 IFSC Code: _____
1-19 MICR Code: _____
1-20 Type of Firm: Proprietary/ Partnership/ PVT/Public Ltd.: _____
1-21 If others, please specify _____
1-22 **Details of Directors/ Proprietors/ Partners** _____

(Kindly attach separate sheets giving details for name of directors / proprietors and their stakes) along with the supporting documents.

1-23 PAN No.: _____

1-24 EPF No.: _____

1-25 MSME category, if applicable (i) Type of Enterprises: _____

(ii) Social Category of Enterprises: _____

(iii) Gender (Male/Female/Transgender/NA: _____

1-26 GST Registration no.
(If registered) _____

1-27 If unregistered (Reason)

a) Turnover threshold
b) Providing exemption goods/services
c) Others (specify)

(SIGNATURE OF BIDDER WITH SEAL)

Note:

1 The above required information is required on the bidder's letterhead.

2 Bidders have to submit supporting documents for the above details including the following:

a. PAN card copy
b. GST certificate copy (of the same state as the office address mentioned above)
c. Cancelled cheque of the bank account mentioned above

(SIGNATURE OF BIDDER WITH SEAL)

FORM F-2
BID BOND PROFORMA / PROFORMA FOR EMD IN THE FORM OF BG

Bank Guarantee No.:
Date:

To
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Pune – 411045

TENDER NO. _____ FOR CARRYING OUT _____
WHEREAS…….. (HEREINAFTER CALLED 'THE Bidder') has submitted his Bid dated……. for carrying out of …… (Herein after called 'The Bid') KNOW ALL MEN by these presents that WE ……. (hereinafter called 'The Bank') are bound unto MAHARASHTRA NATURAL GAS LIMITED, 2nd Floor, Pride Purple Coronet, Baner Road, Baner, Pune–411045 (herein after called 'MNGL') in the sum of ……. for which payment well and truly made to MNGL, the BANK binds itself its successor and assigns by these presents. Sealed with the Common Seal of the said BANK this ……. day of ……2023.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws his Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of his bid by MNGL during the period of bid validity

    a) Fails or refuses to execute the Contract Form, if required: or
    b) Fails or refuses to furnish the PERFORMANCE SECURITY in accordance with the Instructions to the Bidder.

We undertake to pay MNGL up to the above amount upon receipt of its first written demand, without MNGL having to substantiate its demand, provided that in its demand MNGL will note the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions specifying the occurred condition or conditions.
The Guarantee will remain in force up to and including 60 days after the period of bid validity and any demand in respect thereof should reach the BANK not later than the above date.

(Signature of the BANK)

(Signature of the Witness)
Name & address of Witness:
Date:

FORM F – 3 A
ANNUAL TURNOVER

Bidder must fill in this form

Annual Turnover data for the last 3 years:

Year	Last three financial year	Amount (in INR)
Year 1:		
Year 2:		
Year 3:		

1. The information supplied should be the Annual Turnover of the bidder

2. A brief note should be appended describing thereby details of turnover as per audited results.

SEAL AND SIGNATURE OF THE BIDDER

FORM F – 3 B
FINANCIAL STATUS

Bidder must fill this form

FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR

Description	Amount (in INR)
1. Current assets	
2. Current Liabilities (including secured and un-secured short-term loans & working capital loans)	
3. Working Capital (Current Assets-Current liabilities)	
4. Net Worth Owners funds (Paid up share capital and Free Reserves & Surplus) (NW)	

1. Attached are copies of the audited balance sheets, including all related notes and income statement and Auditor's report, for the last Audited Financial year, as indicated above, complying with the following conditions.
   - All such documents reflect the financial situation of the bidder
   - Historic financial statements must be audited by a certified accountant.
   - Historic financial statements must be complete, including all notes to the financial statements.

- Historic financial statements must correspond to accounting periods already completed and audited (no statement for partial periods shall be requested or accepted)

SEAL AND SIGNATURE OF BIDDER

FORM F-4
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

Name of the Bidder : M/s

Signature :

Name :

Designation :

Date Seal:

FORM F-5
DEVIATION FORM
(On Bidder's letter head)

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Notes

1) BIDDER may give a consolidated list of deviations / clarifications / comments for all sections of the bid documents which for an appropriate offer are considered unavoidable by him.

2) Deviations / clarifications mentioned elsewhere in the offer shall not be binding on the MNGL and any such deviations if indicated elsewhere other than this form will render the offer non-responsive and shall liable to be rejected.

3) BIDDER shall state the reason for the deviations in the remark column.

4) Only the deviations listed herein, in conjunction with the original Tender shall constitute the contract document for the award of the job to the BIDDER.

5) Any clarification raised by the Purchaser/ Consultant should be resolved within 10 days failing which the bid is liable for rejection.

Sec No./ Clause. No.	Page No.	Requirements as per tender	Deviation by Bidder	Clarification/ Comments by Bidder	Remarks
1)					
2)					
3)					
4)					
5)					
6)					

The bidder confirms that all clauses of the tender document, which are not listed above are fully complied by the bidder.

(Signature of the bidder)

FORM F-6
DECLARATION ON TENDER DOCUMENT DOWNLOADED
(on Bidder's letter head)

No. Date:

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Subject: **Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.**

Sir,

We hereby confirm that we have read each page of the subject tender document along with Corrigendum & Reply to bidder's queries thoroughly and understood the complete Scope of Work and other terms & conditions. We hereby also confirm that tender terms & conditions are acceptable to us and any deviation other than mentioned in deviation Form F-5 is not to be taken into account.

Yours faithfully,

Signature
Name & Designation
For and on behalf of

FORM F-7
PROFORMA FOR LETTER OF AUTHORITY

No. Date:

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Subject: **Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA**

Sir,

We _____ hereby authorise following representative (s) to attend the Un-Priced Bid opening and Priced Bid opening against above Bidding Document:

1. Name & Designation _____ Signature _____

2. Name & Designation _____ Signature _____

We confirm that we shall be bound by all and whatsoever our representative(s) shall commit.

Yours faithfully,

Signature
Name & Designation
For and on behalf of

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.

FORM F-8
DECLARATION
(on Bidder's letter head)

To,

M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Subject: **Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA**

We confirm that we are not under any liquidation, court receivership or similar proceedings.

We also confirm that we have not been put on holiday / ban by any Government Organization / Public Sector or their joint ventures/ MNGL for any forgery, Corrupt or Fraudulent Practice or unethical behaviour.

SEAL AND SIGNATURE OF BIDDER

Form F-9

DETAILS OF LITIGATION
(on Bidder's letter head)

Bidder shall furnish details of litigation cases of the bidder during the last 5 years if any, in this Form.

FORM F- 10
COVERING LETTER
(ON LETTER HEAD)

Date:

To,

Subject: Certificate regarding…….

Dear Sir,

We……. (name of the Statutory Auditor/Chartered Accountant) are the Statutory Auditor/Chartered Accountant of M/s……. (name of the bidder).

We hereby confirm that we have issued following certificate:

1.

2.

3.

Thanking You,

Place: (Signature)

Date: Name of Authorised Signatory
Membership No.

Encl.: As above

Note: Submission of this form is Mandatory for all the bidders.

FORM F- 11
FORMAT FOR STATUTORY AUDITOR'S/ CHARTERED ACCOUNTANT

CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER
(For supply of Goods/Works/Services)

We have verified the Annual Accounts and other relevant records of M/s……. (Name of the bidder) and certify the following

A. ANNUAL TURNOVER OF LAST 3 YEARS:

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	

B. FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR:

Description	**Year_____**
	Amount (Currency)
1. Currency Assets	
2. Current liabilities	
3. Working capital (Current assets-current liabilities)	
4. Net worth (Paid up share capital and free reserves & surplus)	

Name of Audit Firm:
Chartered Accountant
Date:

[Signature of Authorized signatory]
Name:
Designation:
Seal:
Membership no.
UDIN No.

Instructions:

1. The financial year would be the same as one normally followed by the bidder for its Annual Report.
2. The bidder shall provide the audited annual financial statements as required for this Tender Document. Failure to do so would result in the personnel being considered as non-responsive.
3. For the purpose of this Tender document (i) Annual Turnover shall be "Sale value/Operating Income" (ii) Working capital shall be "Current Assets Less Current Liabilities" and (iii) Net Worth shall be "Paid up share capital and Free reserves & Surplus"

FORM F-12
FORMAT FOR CERTIFICATE FROM STATUTORY AUDITOR FOR DETAILS OF SIMILAR GOODS/ WORK/ SERVICES SUPPLIED/ DONE DURING PAST 10 YEARS

Sr. no.	Description of the goods/works/services	LOA/PO /WO no. & date	Full proposal, address & phone nos. of client Name, designation & address of engineer/officer-in-charge (for cases other than purchase)	Value of Contract /Order (Specify Currency amount)	Date of Commencement of work/services or supply of goods	Scheduled completion time(months) delivery schedule	Date of actual completion /supply	Reasons for delay in execution, if any	Project cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

Place:
Date:

[Sign. Of authorized signatory of bidder]

Name:
Designation:

Instructions:

1. Copies of letter of awards/order/work orders and completion certificate (in case of works/services) or IRN/Proof of delivery (in case of supplies, if applicable) to be enclosed.
2. The supply/work/services completed earlier than 5 years need not be indicated here.
3. The list of supply/ work/ services not of similar nature need not be indicated here. Failing to comply aforementioned instructions may lead to rejection of bid.
4. Bidders are expected to provide details in respect of each order in this Annex. The orders cited must comply with the bid evaluation criteria specified in Tender Document. Details provided in this section is intended to serve as a backup for information provided in Offer/Quotation. Bidder should also refer to the instructions below.
5. A separate sheet should be filled for each LOA/work order/ purchase order.
6. Certificate from the bidder's statutory auditors must be furnished in the format below for LOA/Work Order/Purchase Order mentioned above (separately for each orders)
7. It may be noted that in the absence above certificates, the details would be considered inadequate and could lead to the bid being considered ineligible for further evaluation.

Certificate from the Statutory Auditor regarding Supply of Goods/Works/Services

Based on its books of accounts and other published information authenticated by it, {this is to certify that LOA/PO/WO no. …….. dated……was awarded to ……. (name of the bidder) by…….(name of the client) to execute…….((name of the supply/work/service). The Supply/ works/services commenced on …… (date) was/is likely to be completed on……..(date, if any). It is certified that the total value of contract/order executed by……. (name of bidder) was…… (specify currency & amount) and executed value was……(specify currency & amount).

Name of Audit Firm:

[Signature of authorized signatory]

Chartered Accountant:

Date:

Name:
Designation:
Seal:
Membership no.:

FORM F-13

FORMAT FOR SUPPLY RECORDS FOR MEETING BEC

Sr. no.	Purchase Order no.	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.

Form F-14
FORMAT FOR BIDDER'S PRE-BID QUERIES

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Subject: **Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA**

Sr. no.	Section / Tender page no.	Clause No.	Subject	Bidder's Query

NOTE: The Pre-Bid Queries may be sent by e-mail, before pre-bid meeting due date, to MNGL. Editable copy of queries may be enclosed while sending signed pre bid queries.

SEAL AND SIGNATURE OF BIDDER

MAHARASHTRA NATURAL GAS LIMITED	**Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.** **Bid No.: MNGL/CP/2023-24/172**

Form F-15
TECHNO-COMMERCIAL PROPOSAL
(To be filled serial-wise on the e-tendering portal bid floor in the provided format)

Wherever remarks are required, bidders are advised to ensure that sufficient information has been provided and remarks such as “attached”, “enclosed”, “submitted” or other such terms alone should be avoided.

Sr.	Requirement	Response
	General Information	
1	Complete Bidder Organization Name	
2	Date of Registration	
3	Company Address(s) in India	
4	No. of years in business	
5	Type of Firm (Proprietary / Partnership / Private Ltd. / Public Ltd.)	
6	Details of Directors / Proprietors / Partners	
7	Phone no. of contact person	
8	Email ID of contact person	
9	GST registration number	
	Technical BEC	
1	As defined in tender document	Agree
	Details in support of Technical BEC	
1	Any one past reference client (Company Name)	
2	Reference client’s PO / work order / Agreement no. and date of award	
3	Reference client’s Completion certificate with clear mention of PO / work order / Agreement no., awarded value/ qty. & executed value/ qty.	
	Financial BEC	
1	Bidder’s turnover for immediate preceding financial year FY _____(as per tender requirement).	
2	Bidder’s turnover for second to last preceding financial year FY _____(as per tender requirement).	
3	Bidder’s turnover for third to last preceding financial year FY _____(as per tender requirement).	
4	Bidder’s net worth for preceding financial year FY _____ (as per tender requirement). Should be positive.	
5	Bidder’s working capital for preceding financial year FY _____(as per tender requirement).	
	Commercial Terms and Conditions	
1	Bidder accepts to keep the bid valid for a period of 4 months from the date of opening of techno-commercial bid	Agree
2	Bidder to submit the original copy of EMD / Bid Security (if applicable) required against tender document within the stipulated time.	Agree
3	EMD / Bid Security DD/BG no. / MSME/NSIC certificate no. and date	
4	Bidder accepts to quote the prices as per SOR enclosed with this	Agree

	tender document	
5	Prices quoted by the bidder shall remain firm, fixed and valid for entire contractual period	Agree
6	Prices quoted by the bidder shall be inclusive of all taxes, duties, levies, fees, insurance, etc.	Agree
7	Bidder understands and accepts the complete scope of work as defined in the tender document	Agree
8	Bidder accepts the contractual validity period as per tender	Agree
9	Bidder accepts the terms of payment as per tender	Agree
10	Bidder accepts to submit the Performance Bank Guarantee(s) as per tender provisions	Agree
11	Bidder accepts the Price Reduction Schedule and other penalties as mentioned in the tender document	Agree
12	Bidder accepts the General / Special / Technical Terms & Conditions of the tender	Agree
13	Bidder accepts all statutory compliances against tender	Agree
14	Bidder has read and accepts the tender document in toto	Agree
15	Any deviation from the tender document sought by the bidder is listed separately in Form-5 only	Agree
16	All the bidders must ensure adequacy and sufficiency of their document while submitting bid in all respects. Bid shall include all documents confirming to the tender terms and conditions, BEC and the tender specifications in toto failing which their bids are liable to be rejected.	Agree

MAHARASHTRA NATURAL GAS LIMITED	**Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.** **Bid No.: MNGL/CP/2023-24/172**

DOCUMENTS TO BE UPLOADED ON E-TENDER PORTAL

Sr.	Document Header Name	Document Description
1	Covering Letter/Forwarding Letter	Covering Letter/ Forwarding Letter
2	Bid Signatory PoA / Board Resolution	Power of attorney of the signatory to the bid offer on non-judicial stamp paper / Board resolution of company for authorized signatory.
3	Form-1	Bidder's General Details/ information as per appended format
4	Form-2	Bid Security (EMD) as per format Form F-2
5	Form-3A & 3B	Certificate for financial capability of the bidder as per appended format. In case bidder's working capital is lower than that required as per Tender BEC, letter from bidder's bank showing availability of credit to cover inadequacy of working capital to be attached with this Form-14
6	Form-4	Agreed Terms & Conditions
7	Form-5	Deviation/ Exceptions as per appended format.
8	Form-6	Declaration as per appended format.
9	Form-7	Letter of authority in favour of any one or two of Bidder's executives having authority to attend the un-Priced and price bid opening as per appended format.
10	Form -8	Declaration for bidder not under Liquidation, etc. (on Bidder's letter head)
11	Form-9	Information regarding any current litigation in which the bidder is involved in Form F-9.
12	Form-10,11 & 12 Certificates	Certificates as per appended Form- F- 10, 11 & 12
13	Form 13	Supply Records
14	Form 15	Techno-Commercial Proposal as per form 15
15	Copy of GST	Copy of GST (Goods & Service Tax), ESI, PF, PAN registration Certificates
16	Other Documents for Technical BEC Eligibility	Any other documents to show compliance of Technical BEC
17	Corrigenda and Other Docs	Copy of all addenda / corrigenda, if any, along with required documents as stated therein, duly signed and stamped. (In case no addendum / corrigendum has been issued against this tender document, then the bidder may upload a letter stating that "No addendum / corrigendum has been issued against this tender document").

Note:

1. Bidder may attach any other docs, not in above list but relevant to this tender, at the specified link on the e-tendering portal.

2. Bidder has to upload the file as asked above on e-tender portal in .pdf format by keeping the file name as provide in the column "*Document Header Name*" above only.
3. All pages of the bid offer to be signed and stamped by an authorised representative (as describe in bid document) of the bidder**.**
4. 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.

Bidder have to upload the unpriced SOR marked "Quoted/ Unquoted" for each item as per excel (named "*Unpriced SOR*") provided on the e-tender portal along with applicable GST rate (in percentage only) and HSN code. If there is any discrepancy observed between the HSN code/ GST rate in unpriced SOR and priced bid, then the GST rate as per unpriced SOR or as agreed during technical-commercial queries shall be considered for evaluation. MNGL also may take necessary clarifications from bidders quoting HSN code or GST rate inconsistent with other bidders or previous contract.

Form F-17
CONTRACT PERFORMANCE BANK GUARANTEE
(To be stamped in accordance with Stamp Act)

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
Baner Road, Baner,
Pune – 411045

Dear Sir,

M/s_____ have been awarded the work of _____ for Maharashtra Natural Gas Limited, PUNE vide Purchase Order 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.

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 favor 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.

INSTRUCTIONS FOR FURNISHING PERFORMANCE GUARANTEE

1. The Bank Guarantee by successful bidder(s) will be given on non-judicial stamp paper as per stamp duty applicable. The non-judicial stamp paper should be in name of the issuing bank. In case of foreign bank, the said bank guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper and place of bid *to* be considered as Pune.
2. The bank guarantee by bidders will be given from bank as specified in ITB.
3. A letter along with SWIFT Statement from the issuing bank of the requisite Bank Guarantee confirming that said bank guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Employer

Form F-18

FORMAT FOR CERTIFICATE FROM BANK
IF BIDDER'S WORKING CAPITAL IS INADEQUATE/NEGATIVE
(To be provided on Bank's letter head)

Date:

To,
M/s MAHARASHTRA NATURAL GAS LIMITED
2nd Floor, Pride Purple Coronet,
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 have to 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

Form F-19
E-Banking Mandate Form
(To be issued on vendor's letter head)

1. Vendor/customer Name:

2. Vendor/customer Code:

3. Vendor /customer Address:

4. Vendor/customer e-mail id:

5. Particulars of bank account
   a) Name of Bank
   b) Name of branch
   c) Branch code:
   d) Address:
   e) Telephone number:
   f) Type of account (current/saving etc.)
   g) Account Number:
   h) RTGS IFSC code of the bank branch
   i) NEFT IFSC code of the bank branch
   j) 9 digit MICR code

I/We hereby authorize MNGL to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the MNGL responsible.

(Signature of vendor/customer)

BANK CERTIFICATE

We certify that ---------- has an Account no. ---------- with us and we confirm that the details given above are correct as per our records.

Bank stamp

Date (Signature of authorized officer of bank)

F – 20
[APPLICABLE FOR DOMESTIC TENDERS]
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 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.

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).

(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.

MAHARASHTRA NATURAL GAS LIMITED	**Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.** **Bid No.: MNGL/CP/2023-24/172**

FORMAT FOR TENDER ACCEPTANCE LETTER

(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: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: - _____

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 put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).

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,
(Signature of the Bidder, with Official Seal)

SECTION – IV
BREIF AGREED TERMS & CONDITIONS

MAHARASHTRA NATURAL GAS LIMITED	**Tender for 1-Year Rate Contract for procurement of 5,000 & 10,000 SCMH capacity District Regulating Station-DRS (#150) for CGD network of Pune GA.** **Bid No.: MNGL/CP/2023-24/172**

Brief summary of Agreed Terms and Conditions

Following shall be duly filled in and should be returned by the bidder along with each copy of Unpriced Part of Bid / Offer:

Sl. No.	Description	Bidder's Confirmation
1	**Bidder's details:** a) Name b) Full address c) Tel. No. d) Fax No. e) E-mail f) State / UT where Registered Office of Company is located g) State / UT where Manufacturing Facilities of the Company is located h) Name and Designation of the person signing the Bid	
2	**In case the bidder is not manufacturer:** a) Name b) Full address c) Tel. No. d) Fax No. e) E-mail f) Name and Designation of the contact person	
3	**The followings are to be enclosed along with the bid:** a) Power of Authority of the person signing the bid	
	b) Letter of Authority of the person attending the bid opening.	
	c) In case bidder is not manufacturer:	
	Letter of authority from the manufacturer that they will meet the commitment of the bidder and supply the material in time, as required.	
4	Indicate Country of origin of offered GOODS	
5	Indicate dispatch point (Place of dispatch)	
6	**Bid Security Details:** a) Name and Address of Issuing Bank: b) Security No. & Date: c) Value (Rs. _____) d) Validity (Valid Minimum for 6 (Six) months from the final date of submission of offer e) Details of Issuing Bank i) Name: ii) Full Address: iii) Tel. No.: iv) Fax. No.: v) E-mail: vi) Name & Designation of the contact person	
7	**Validity of Bid:** {Valid minimum for Four (4) months from the final date of submission of offer.}	
8	a) Please confirm that the scope of work is complete as per tender requirement.	
	b) If reply to (a) is 'No', have all 'Exception & Deviation' been furnished in the format attached with bid document.	
	c) Confirm there are no 'Exception & Deviation' other than those indicated as (b) above and if indicated in offer elsewhere the same shall be considered 'NULL & VOID'.	

9	**Delivery Period / Completion period** Confirm your acceptance of delivery period completion period as per requirement Specified in bid Document in 'Time Schedule' on FOT Project Site Basis to be reckoned from date of Purchase Order (PO).	
10	**Currency of Offer** a) Please indicate the currency in which the offer is submitted. (for foreign bidder US Dollar for foreign component and / or Indian Rupee). b) For Domestic bidder in Indian Rupees c) Please confirm that currency once quoted shall not be permitted to be changed.	
11	**Correspondence Language** a) Confirm that all correspondences will be in English language only.	
12	**Price** a) Ensure and confirm that unit prices Quoted in 'Price Schedule', (i.e. Schedule of Rates) on FOT Site Basis.	
	b) Confirm that price quoted are as per 'Price Format' given in tender document without any change.	
	c) Confirm that quoted prices will remain firm and fixed till complete execution of the order. Purchase Order (PO), placed within offer validity, shall be considered as 'Notification of Award of Contract'.	
	d) Confirm that the tender document is carefully studied & understood and have taken its full consideration in the quoted prices.	
	e) Confirm that Blank SOR submitted with un-priced part of the bid contains the followings	
	i) Each 'Cell' of the schedule has been marked "Quoted" or "Not Quoted" and none of the 'Cell' has been left blank.	
	ii) All information on the top of the SOR or at the 'Note' of the SOR has been provided in totality.	
13	**Spares (Article – 19 of GCC)** Confirm that 2 years Spares if required in Bid Document, has been quoted on FOT Site and or FOB port of exit Basis and Freight charges have also been indicated separately.	
14	**Freight Charges** **For Indian bidder** -Ensure & confirm that firm freight charges up to Project Site has been quoted separately for each item in SOR.	
15	**Transit Insurance and all other insurances.** a) Transit Insurance and all other insurance shall not be arranged by the Purchaser. Confirm that Insurance charges have been included in Quoted Price.	
16	**Goods & Service Tax (GST) for Indian bidders** Indicate rate of taxes & duties applicable, as quoted in price schedule a) Goods & Service Tax	
	b) Confirm that GST indicated above is what have been indicated in blanked SOR and also in Priced SOR submitted.	
	c) In case of Discrepancy, rate indicated here shall be considered for bid evaluation. However, order will be placed on the lower one. Difference will be borne and paid by bidder.	
17	**Taxes & Duties for Indian bidders** All taxes, duties, levies, License fee etc. incurred until delivery of the contracted goods, shall be borne, and paid by the bidder. However, Goods & Service Tax on finished products shall be reimbursed by the Owner (limited to provisions in the quoted price as per bid document).	

	The statutory variation in taxes & duties (payable on finished product) if any, within the contractual delivery period shall be to the Owner account. Further, variation in basic charge on Goods & Service Tax within contractual delivery schedule, shall be borne and paid by the Owner. (However, limited to provision in bid document).	
18	**Goods & Service Tax for Indian bidders** a) Indicate present rate of terminal Goods & Service Tax (GST) applicable on the supplies and as quoted in price schedule. In case, Bid Document calls for Spares, (Mandatory/2 years) where, generally more than one rate of GST is applicable then such rates as considered in offer are to be indicated in the itemized Spare parts list.	
	b) If there is any variation in Goods & Service Tax at the time of supplies for any reason, other than statutory, including due to turnover, confirm the same will be borne by bidder.	
	c) It is noted and confirmed that statutory variation in GST within contractual delivery shall be to Owner's account.	
	d) If GST is presently not applicable, confirm whether the same will be borne by bidder in case it becomes levied later.	
	e) In case (b) or (d) is not acceptable, indicate maximum rate of GST chargeable (same shall be considered by Owner for price evaluation & comparison).	
19	**Price Reduction Schedule:** a) Confirm acceptance of Price Reduction Schedule (PRS) as per clause 26 of GCC and modified as per SCC i) For delay in completion/ delivery beyond contractually agreed delivery schedule as specified in the Bid Document. ii) for deficiency in performance & services as per provision of Bid Document. The invoice shall be submitted for the amount duly reduced to the extent of PRS. Otherwise, purchaser / owner reserve right to deduct the same.	
	b) Confirm in case of delay in delivery beyond CDD, any new or additional or increase in taxes and duties imposed after contractual delivery the same shall be to Bidder's account.	
20	**Terms of Payment as specified in Special conditions of Contracts.** a) Confirm acceptance of terms of payment. b) It is noted and confirmed that deviations to 'Terms & Conditions of Payment' may lead to rejection of offer, as Owner considers fit. c) All the Deviation have been indicated in 'Exception & Deviation' format (including annexure, if any) and have not been repeated in the bid/offer and if repeated, the same shall be considered " Null & Void"	
21	**Guarantee / Warrantee** Confirm that the GOODS shall be guaranteed against defective materials/workmanship etc. for a period of 24 months from the last Shipment or 12 months from the commissioning date, whichever is earlier, as per Guarantee/warrantee conditions of Bid Document.	
22	**Contract-cum-Performance BG.** Confirm that Contract-cum-Equipment-Performance Bank Guarantee (CPBG) for 10% of Delivery Order Value shall be furnished as per provision of bid document, valid for 3 months beyond the expiry of Guarantee/Warranty or Defect Liability period, as applicable as per terms of Bid Document.	
23	**Inspection (Article – 13 of GCC)**	

	a) Confirm acceptance to inspection requirement as per Bid Document. b) As inspection & certification of all goods may also be conducted by OWNER. Confirm there shall be no extra charges, since all personal & incidental expenses of Owner's Inspectors shall be borne by the Owner.	
24	**Part order** Confirm acceptance to PART ORDER. In case of part ordering any value of part ordering, charges if quoted lump sum and/or applicable to more than one item, shall be prorated on value basis.	
25	**Quantity Variation** PURCHASER reserves the right at the time of award of ORDER to increase or decrease by up to 20% the quantity of GOODS specified in the Material Requisition, without any change in unit price or other terms and conditions. Variation beyond this limit will be subject to mutual agreement between the PURCHASER and the Seller.	
26	**Agent Commission** a) Confirm Agent Commission has been indicated in the price bid. b) The Agent Commission has been included in FOB/CFR/CIF prices indicated in the price bid.	
27	**Advance Payment** Please note that No Advance payment shall be made by Purchaser / Owner	
28	**MISCELLANEOUS** a) Confirm that all Bank charges associated with Bidder's Bank shall be borne by Bidder. b) Confirm that all documents, as per Article -10 of ITB 'Documents comprising after by Bidder', have been enclosed. c) Confirm that owner reserves the right to make any change in the terms & conditions of the Bid Document and to reject any or all bids including those received late or incomplete.	
29	**Declaration by Bidder** a) Confirm acceptance in toto of the Terms & Conditions contained in the bid document. Deviation, if any, have been listed in 'Exception & Deviation' format. b) Confirmed that all the terms & conditions have been indicated in this format (including annexure, if any) and have not been repeated in the bid elsewhere.It is noted and confirmed that Terms & Conditions indicated elsewhere including any Printed Terms & Conditions, shall not be considered by Owner. c) Confirm that any of the Directors of bidder is not a relative of any Director of Owner or the Bidder is a firm in which any Director of Owner or his relative is a partner or the Bidder is a private company in which any Director of Owner is a member or Director. d) Confirm that you have not been banned or delisted by any Government or Quasi-Government agencies or Public Sector Undertaking. If you have been banned delisted, then this fact must be clearly stated. e) Confirm that bidder is not under litigation including arbitration for 20 years. If answer is No than confirm that complete details of litigation and / or arbitration have been furnished in the offer.	

Bidder Signature:
Name:
Designation & Stamp

VOLUME-II OF II

C O N T E N T

Sl. No.	Description
SECTION-V	SPECIAL CONDITIONS OF CONTRACT (SCC)
SECTION-VI	MATERIAL REQUISITION & TECHNICAL SPECIFICATION
SECTION-VII	SCHEDULE OF RATES/ PRICE SCHEDULE

SECTION - V
SPECIAL CONDITIONS OF CONTRACT (SCC)

C O N T E N T

1.0 SCOPE OF SUPPLY

2.0 QUALITY ASSURANCE / QUALITY CONTROL

3.0 QUANTITY VARIATION

4.0 DISPATCH INSTRUCTIONS

5.0 INSPECTION

6.0 REJECTION

7.0 DELIVERY SCHEDULE

8.0 TERMS OF PAYMENTS

9.0 PRICE REDUCTION SCHEDULE

10.0 REPEAT ORDER

11.0 CONTRACT PERIOD

12.0 GENERAL INFORMATION – CONSIGNEE ADDRESS, PAYING AUTHORITY ETC.

SECTION - V
SPECIAL CONDITIONS OF CONTRACT (SCC)

The following articles shall supplement the Instructions to Bidders and General Conditions of Contract (GCC). In case any conflict between General Conditions of Contract and Special Conditions of Contract, the latter shall prevail to the extent applicable.

1. **Scope of Supply**

The scope of supply shall be as given in Material Requisition and Technical Specifications (Section-VI of Volume II).

The contract shall be valid for 1 year from the date of PO and the delivery of the Item (DRS) shall be as per the time schedule included elsewhere in the tender documents. The Zero date for the supply as per the time schedule will be the date of written intimation from MNGL.

2. Quality Assurance / Quality Control

2.1 The supplier shall prepare a detailed Quality Assurance Plan for the execution of Contract for various facilities, which will be mutually discussed and agreed to.

2.2 The supplier shall establish document and maintain an effective quality assurance system outlined in recognized code.

2.3 The Purchaser, while agreeing to a Quality Assurance Plan shall mark the stages where they would like to witness the tests; review any or all stages of work at shop / site as deemed necessary for quality assurance.

3. QUANTITY VARIATION:

The tendered quantity may vary depending upon the project requirement. MNGL reserves the right to decrease / increase the quantity of any SOR item subject to overall ceiling of contract value depending upon its requirement.

Quantities indicated in the tender / ARC are as per our projected requirement. MNGL cannot assure any firm commitment for procurement of entire quantities in the tender / ARC. After issue of ARC, Delivery Order (DO) shall be placed for each & every requirement.

4. DISPATCH INSTRUCTIONS:

4.1 Seller shall obtain dispatch clearance from the Purchaser prior to each dispatch.

4.2 Copy of Inspection Release Certificate, Dispatch Clearance and Statement showing the name of the Vessel / Trailers description and weight of the material and shipping marks etc. to be submitted along with the documents.

5. INSPECTION:

Maharashtra Natural Gas Ltd. (MNGL) reserves the right to engage their own personnel and or MNGL's inspection agency. All the charges towards all kinds of tests shall be included in the quoted rates. No additional payment to this effect will be made. The charges towards MNGL's Inspection Agency, if engaged, shall be borne by MNGL.

6. REJECTION:

6.1 Any materials / goods covered under scope of supply, which during the process of inspection by appointed third party, at any stage of manufacture / fabrication and subsequent stages, prior to dispatch is found not conforming to the requirements / specifications of the Purchase Requisition / Order, shall be liable for immediate rejection.

6.2 Supplier shall be responsible and liable for immediate replacement of such material with acceptable material at no extra cost or impact on the delivery schedule to EMPLOYER.

7. Delivery Schedule

Schedule for Supply:

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 per time schedule as under:

Sl. No.	Item Description	Completion Schedule
1	**5,000 & 10,000 SCMH DRS:** Design, Engineering, Factory Testing, Supply (FOT Site basis) including packaging forwarding, Insurance, transportation, custom clearance, Loading / Unloading at port as well as MNGL sites / Designated store	Within 12 (Twelve) Weeks from the date of written intimation / Delivery Order by MNGL
2	**Site Activity:** Supervision during Installation & Commissioning at site for the above	Within 4 (Four) days from the date of written intimation from MNGL.

Date of Delivery:

The date of receipt of material at MNGL Stores shall be taken as the date of delivery.

Note: - Dispatch details for DRS shall be provided at the time of dispatch. Bidder has to transport the DRS to the respective site in Pune GA.

8. **Payment Terms:** The terms of payment shall be as follows:

For Supplies:

- 100% (Hundred percent) payment within 30 days from receipt of goods at site along with following dispatch documents.
  - i) Cen-vatable Invoice in triplicate
  - ii) Inspection Release note by Owner or his appointed or approved agency.
  - iii) GR / LR
  - iv) Packing List
  - v) A certificate from manufacturer that all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor, the contractor owning overall responsibility will duly endorse this certificate.
  - vi) Performance Bank Guarantee(s) of 10% of Delivery Order Value. If already submitted, a copy of the same.
  - vii) Document related to CENVAT credit to be claimed by Owner, if applicable.
  - viii) Documents as specified in the Technical Specifications / Material Requisitions, Vol II of II of the Bid Document.

For Services:

100% payment shall be made after commissioning of DRS at site against submission of Commissioning Report.

9. **Price Reduction Schedule:**

The supplier agrees that time of supply of Stores / Works shall be of the essence of the Contract. If the supplier fails to supply Stores / Works within the respective scheduled / fixed date for supply, Company may without prejudice to any other right or remedy available to the Company: -

a. Recover from the supplier as certain and agreed, genuine pre-estimate price reduction and not by way of penalty, a sum equivalent to ½% per week or part thereof for each week's delay, prorated for part thereof beyond the scheduled supply date each subject to maximum of 10% of Delivery Order value, even though the Company may accept delay in supply after the expiry of the scheduled supply date.

b. Arrange to get supply from elsewhere on account and at the risk of the Supplier, such decision of the company being final and binding on the supplier.

OR

c. **Terminate the contract or a portion of the supply work thereof, and if so desired, arrange for the supply in default by the supplier to be attained from elsewhere at the risk and cost of the supplier.**

10. REPEAT ORDER:

MNGL reserves the right to place a repeat order within 6 months from the date of purchase order up to 50% of purchase order value on same rates, terms, and conditions.

11. **Contract Period:**

The period of contract will be for one year from the date of PO.

12. **General Information relating to Consignee address, Banker's Name, Paying Authority, Insurance Agent etc.:**

- **Location & Address of project Consignee**:
  Maharashtra Natural Gas Ltd.,
  Pride Purple Coronet, 2nd Floor,
  Baner Road, Baner,
  Pune - 411045

  Address of Store at Pune:
  M/s. Maharashtra Natural Gas Ltd.
  Gate No. 1377A Village Wadki,
  Tal Haveli, Dist. Pune - 412308

- **Name & Address of the Bankers**:
  State Bank of India,
  Industrial Finance Branch,
  Tara Chambers, Pune Mumbai Road,
  Wakdewadi,
  Shivajinagar, Pune-411003

- **GST Number for Maharashtra**: 27AAECM5536G1ZF
- **Paying Authority**:
  General Manager (F&A)
  Maharashtra Natural Gas Ltd.
  Pride Purple Coronet, 3rd Floor,
  Baner Road, Baner,
  Pune - 411045

- **Name & Address of consignee for import at seaport/ airport of entry**: Mumbai
- **Whether Certificate for availing concessional project rate of custom duty will be given:** No
- **Name & Address of insurance agency:**
  To be intimated at the time of placement of PO.
- Mode of Payment: A/C Payee Cheque / NEFT
- Preferred mode of dispatch:
  Imports: Sea
  Domestic: By Road
- Inspection agency for indigenous items: MNGL / Third party inspection agency appointed by MNGL

SECTION – VI
MATERIAL REQUISITION
&
TECHNICAL SPECIFICATION

Technical Specification for Twin Stream District Regulating Station (SMART DRS) of 150# for Natural Gas.

SCOPE:

This specification covers the requirements of design, material, manufacturing, construction features, inspection, testing and commissioning of a complete District Regulating Station (DRS) including all packing, preservation and transportation to sites /MNGL's Store. The maximum inlet pressure to the DRS shall be 19 bar (g). Unless otherwise specified, all the pressures indicated in this specification are gauge pressures.

A General Specifications.

1. REFERENCE CODES AND STANDARDS

Unless otherwise specified in this document or elsewhere in tender, the vendor shall take reference of latest version of following codes and standards.

PNGRB pipeline Standard:	Technical standard and specifications for natural gas pipelines (T4S-pipeline) For CGD networks (T4S-CGD)
ASME B 31.8	Gas transmission and Distribution piping systems
IGE/TD/13	Pressure regulating installations for natural gas, Liquefied petroleum Gas and Liquefied Petroleum Gas /Air
EN 14382	Safety devices for gas pressure regulating stations and installations –gas Safety shut-off devices for inlet pressures upto 100 bar
EN 334	Gas pressure regulators for inlet pressures upto 100 bar
API 526	Flanged steel pressure Relief valves
API 527	Seat tightness of pressure relief valves
API 520	Sizing, Selection and installation of pressure-relieving Devices
ASME Sec VIII Division I	Boiler and pressure vessel code: Rules for construction of power boilers
ASME Sec IX	Boiler and pressure vessel code: Qualification standard for Welding, Brazing and Flushing procedures; Welders; Brazers; and Welding, Brazing, and fusing Operators
ASME Sec V	Boiler and pressure vessel code: Nondestructive examination

2. The meter and governing components should be designed not in isolation, but as a single installation. Normally both should be sized for the same load and consideration must be given to the effect that each may have on the other.

3. The installation should be designed to pass the maximum designed gas flow rate at the lowest expected inlet pressure and the designed outlet pressure.

4. Suitable for the use with natural gas of specific gravity 0.6.

5. Gas velocities in pipe work must not exceed 20 meters / second up to the inlet of the filter and 40 meters / second downstream of filter, when the maximum flow rate occurs at the lowest expected inlet pressure and maximum outlet pressure. All pipe work and equipment upstream of strainer / Filter must be capable of withstanding the maximum pressure that might result from a fault condition. The allowable sound pressure values should not be exceeded, and materials selected should be suitable to prevent erosion at such high velocities.

6. All pipe work and equipment must be capable of withstanding the maximum pressure resulting from a fault condition.

7. Twin stream DRS should have a provision for stream selection wherever specified / mentioned in the specific requirements. Automatic switch over from active stream to the hot standby stream should take place in the event of shut down of the active stream for any abnormal reason.

8. There shall be an inlet and an outlet valve on each governor(s). Each valve shall be designed to seal on both upstream and downstream faces and the space between the faces shall be fitted with vents.

   FOR 150#, Up to 6"- Floating type and more than 6”-Trunion mounted type.

9. A meter shall be positioned in such a way that the index can be read conveniently. When viewing the index, the gas flow direction through the meter is from the left to the right. General piping arrangement shall be made in such a way that meter with EVC can be installed on upstream as well as on downstream of regulator.

10. Pressure test points, purge and vent points shall be fitted as indicated in the Installation Schematic drawing attached herewith. When a test point is not provided on an item of equipment, a point shall be provided on the adjacent pipe work. All the ends of drain and vent points shall be plugged. The vent purge valves provided at the inlet and outlet ends shall not be fitted very close to the base level of the skid, which will be very difficult to be operated.

11. Means to avoid entrainment of liquids in the gas entering regulator assembly & if necessary, suitable provision for their removal should be provided. Sizing of components should be done considering avoidance of unacceptably low temperatures, which may lead to requirement of preheating.

12. Technical literature (in English language only), dimensional details of the equipment and system hook up drawing shall be submitted along with the technical bid.

13. Installation arrangement for guidance is as shown in the schematic drawing enclosed. Actual arrangement should be proposed by vendor and shall be reviewed and certified by MNGL.

14. Any deviation from the specified technical specification should be highlighted and vendor may also quote advanced / latest models (with all the details) to reduce overall cost as an alternate. However, the acceptance of the same shall be at the sole discretion of MNGL.

15. The data sheet (see Clause N) should be filled up completely and should be enclosed along with the Technical Bid.

16. Compliance with Technical Specification will be taken for granted, if deviations are not specifically mentioned.

17. Hole tight / leak tight should not be used on threaded / flange joints. Stud nuts only are to be provided on flange joints.

18. Flanges made of cast iron, ductile iron and non-ferrous materials (brass or bronze) shall not be used. For piping class 150 or above all the flanges shall be with raised face. Flanged end connections (inlet and outlet) of the DRS should be in sizes of 2", 4", 6" and 8" only, to ensure compatibility with the transition fittings employed by MNGL. All stud bolts and nuts used in CGD networks shall be hot dipped galvanized as per ASTM A 153 or equivalent.

19. The pressure gauges shall be aligned with reference to the regulator in the same line, in order to facilitate the easy reading of the gauge pressure during the commissioning and maintenance activity. One isolation valve shall be provided perpendicular to the pressure gauge provided at the inlet required for venting purpose.

20. Vendor shall confirm that the DRS is suitable for outdoor installation in tropical climate with the following conditions:

    Ambient temperature: 0 – 60 °C.
    Humidity: 100 %.

B SCOPE OF WORK

1) The vendor shall be responsible for material selection, design, engineering, fabrication, FAT (Factory acceptance test), supply including loading and unloading at site, commissioning assistance, supply of documentation of skids comprising of complete assembly.

2) Vendor shall submit detailed calculation of Pipe design.

3) Vendor shall submit specifications for general items like U clamp sleeve, tagging, insulation padding, canopy window glass, sealant jelly, clamp diameter, separate earthing clits for both instrument and skid piping etc.

4) Vendor shall be responsible for replacement/repairing of skids if any part of skid are found damaged during transportation & unloading at site or store with no cost to MNGL.

5) Vendor shall provide all the Test certificates and inspection reports of supplied materials.

6) Vendor shall design a skid in such a way that all equipment & valves of the assembly shall be easily accessible for Operation & Maintenance.

7) Functional testing of skid shall be carried out as per the MNGL approved FAT.

8) Vendor shall supply the necessary repair kit and consumables required as part of Commissioning process with no cost to MNGL.

9) VENDOR at no additional cost to MNGL shall arrange the classroom as well as field training for MNGL project & O&M personnel.

10) VENDOR shall be responsible for material selection, design, engineering and supply to the designated delivery point and performance testing of DRS as per the data sheet and specification furnished and taking into consideration successful operation, safety as per the established international standards.

11) Vendor shall perform all the tests as per the MNGL approved QAP.

12) Vendor shall perform non-destructive tests as per ASME section V, ASME B 31.3 & MNGL approved QAP.

13) Any soft material used shall be able to retain its functional properties for minimum period of 18 months from the date of dispatch.

14) Vendor shall adopt standard operating procedures for fabrication of skids.

15) Vendor shall provide proper packaging of all equipment, piping, accessories and canopy packaging to safeguard all components of skid during transportation.

16) Vendor shall furnish the details of foundation and grouting pockets requirement. Supply of

foundation bolts of adequate strength is in the scope of vendor.

17) MNGL branding to be displayed on the Canopy (Water & Scratch Proof). Design of the same shall be submitted after award of contract. If any design changes to be carried out by the vendor on the design submitted by us, then Vendor shall carry out the design changes after MNGL approval.

18) Vendor to provide 10-meter cabling connecting battery/ adapter to JBs (which consist of Modem) along-with equal length of conduit pipe.

19) Control cable connecting EVC to Laptop to be provided free of cost to MNGL (2 cables per Skid).

20) Software of EVC and AMR to be provided free of cost to MNGL.

C Smart DRS Features (Proof of Concept) - Technical details

a. **Remote Shut –off of DRS**- DRS shall be able to remotely shut off from our control room without sending our operation team to the site. However, Resetting of Slam shut valve will be manual.

b. **Automatic Meter Reading System with SAP integration** –DRS shall be able to get all the readings of the industries at the same time & also our DRS shall be compatible to link with SAP system for JMR entry without any manual interventions. Meter reading entered in the SAP system must generate Invoices, automatically as per the requirement of MNGL & should be compatible to send the same to specified email address of the customer. The Vendor will provide SAP Up-loadable file, which can be uploaded into SAP server for generating Invoices. MNGL will provide SIM card required for communication.

SAP integration with DRS is bidder's responsibility. MNGL shall facilitate coordination with SAP team.

c. **Gas leakage detection System with Alarm**- Smart DRS shall provide us on-time gas leakage alarms to our control room, which shall facilitate our operation team to attend the issue on immediate basis. Alarm to be triggered in MNGL control room, no hooter / beacon required. Numbers of gas detectors may be decided as per the system requirement.

Gas detector shall be in the scope of bidder & it must generate alarm in case of gas leakage at MNGL control room. For approved vendor list of Gas Detector - vendor to be submit make after award of contract for approval.

d. **Web-App**- Smart DRS shall be configured with WEB- APP, which will provide us all the inputs such as meter reading, pressure, temperature at actual time. DRS shall provide us graph indicating trend of PNG consumptions. The data can be retrieved any time from the web server on request.

Web app shall be in MNGL scope, bidder to ensure that DRS must be Compatible with our web app. Communication protocol will be RS485. Bidder to provide 1 year free services for

any issue related to controller communication with WEB app.

The Vendor must provide training to MNGL personnel as and when requested by MNGL for using the Web based application without any cost to MNGL, within the contract period. Vendor should handover all programming and installation files including controller & program files used for designing the controller to MNGL after commissioning of the system, at free of cost.

e. **Solar Powered DRS**- Smart DRS shall be powered by solar energy with minimum 15 days battery back-up, and it should Pole mounted (4-5 Meters away from DRS).

Provision of power supply also in scope of supplier. Solar panel & external power supply shall be two different options to be provided. Primary supply shall be solar and secondary shall be external power supply. It should be Atex certified.

Complete solar system including cable connecting solar panels to battery, solar panel and battery shall have PESO/ATEX certification complying with the safety requirements. Documentary proof for the same to submitted during inspection.

EVC shall be programmed for Qmax, Qmin, Pressure high or low and the alarm contact will be hooked up with the controller.

The controller will collect the data every 5 min and will send to web server every hour.

EVC vendor should provide Socket type connection for battery, so as to avoid data loss during the replacement.

D SPECIAL NOTES

1) Solar Panel with battery should have minimum 15 days' backup.

2) Isolation valves for PG shall be ½" Ball valve (NPT). After Isolation valve SS 304 pipe to be used connecting Pressure gauges.

3) Isolation valve (as root valve) is required for DPG.

4) In between filter leg/skirt and base frame Insulating pad to be provided.

5) Supply of foundation bolts is under bidder's scope. Supplier to provide foundation bolt hole size and location details.

6) Waterproof laminated copy of approved P& ID shall be displayed on the inside of Canopy.

7) Lifting lugs shall be provided properly as per center of gravity of skid. Lifting procedure to be recommended by the vendor and approved by MNGL prior to dispatch.

8) All impulse tubing shall be of material SS316.

9) For equipment not manufactured by the bidder, OEM accredited certification is required for consent on services, supports, spare & maintenance.

10) Filter DP gauge nozzle shall be SWRF.

11) Sound pressure levels shall be limited to the values prescribed by Environmental authorities but in no case it shall exceed 85 dbA. Vendor shall provide noise suppression treatment to limit the noise level.

12) Vendor shall provide 02 no's earthing provision diagonally opposite (Earthing boss of material SS304) at base frame of skid.

13) Platform along with handrails shall be provided with skid in case of vertical filters and any other equipment having height more than 2 meters.

14) 1" drain assembly for filters to be supplied in all sizes of DRS. Drain pipe shall extended till the inner wall of canopy. One additional spool comprising of two flanges in loose shall be provided along with the skid to extend the drain outside the canopy.

15) Factory acceptance test (FAT) for the skid shall be witnessed by TPIA.

16) Vendor shall provide Companion flanges with skid inlet and outlet valve.

17) The general arrangement of the skid shall be of compact design with ease in operations & maintenance activities.

18) All piping, pipe fittings & fasteners to be used are hot dip galvanized.

19) Vendor shall provide Spectacle blind at inlet and bypass line of meter.

20) Plug in the vent shall be provided for testing.

21) Flange and piping in the vent shall be as per pipe material specifications.

22) Vent assembly shall be provided with flame arrester.

23) Civil Foundation drawing shall be submitted with following details
    a) Bought out item weight.
    b) Detailed pressure drop calculation.
    c) Base frame weight
    d) Equipment, pipe & fitting weight
    e) Canopy weight
    f) Empty weight
    g) Hydro test weight
    h) Total weight of skid with canopy

24) For Base frame and support vendor shall carry out stress analysis before submitting drawing to MNGL for approval. Stress analysis report to be submitted to MNGL.

E Gas Pressure Regulator.

1. Purpose

For regulating pressure in gas service lines supplying industrial and commercial customers from 19 bar (g) distribution systems and incorporating appropriate safety devices to protect against excess and lack of downstream pressure.

Regulator should be proved as satisfactory pressure vessels by hydrostatic and pneumatic tests and test certificates should be provided by manufacturers / Third party Inspection agency appointed by MNGL.

2. Standard Features

Pressure shut-off device should be provided to protect against excess and lack of downstream pressure. Accuracy of slam shut operation should be as per the requirements of EN 14382: 2009 or better.

Pressures Regulators shall be pilot operated type and shall be designed in such a way that inlet pressure does not come in direct contact with the main valve diaphragm (i.e. loading type of regulator shall be accepted). Regulator should be proved as satisfactory pressure vessels by hydrostatic and pneumatic tests and test certificates should be provided by manufacturers / Third party Inspection agency appointed by MNGL. Regulator accuracy and lock up class shall be ±1% and ±5% respectively.

Relief valve should be provided to protect against downstream over pressure at low flows or in the event of seat malfunction. Creep relief valves shall not have a capacity larger than 1% of stream fault capacity. Vent shall be provided to discharge gas from relief valve to a safe place at least 3 meters away from the working platform in DRS vicinity and it should be terminated with suitable flame arrestors.

Preferably in-built slam-shut valves should be provided to gas pressure regulators in each stream.

Isolation Valve is required for CRV.

The burst pressure of a diaphragm should be at least three times the maximum workingdifferential pressure.

Adequate clearance should be provided between the top of the regulator and the skid in order to carry out the adjustment and maintenance of regulator without any inconvenience.

3. Marking

The regulator shall be marked with the details of Sr. No., Type, year of manufacture, flow range & flow at set outlet pressure, inlet pressure range, outlet pressure range and set point, over pressure shut off range and set point, under pressure shut off range and set point, relief pressure range and set point, and orifice size.

4. Performance characteristic curves

The following performance characteristic curves should be furnished:
a) Outlet pressure v/s flow (for various inlet pressures)
b) Inlet pressure v/s flow (for various outlet pressures)

5. All regulators shall be EN334 complied and SSV with OPSO, UPSO shall be EN14382 complied. Certificate to be submitted.

6. All regulators shall be pilot operated only.

7. Regulator end connection should be 150 # flanged type.

F <u>Gas Meter & Electronic Volume Converters (EVC).</u>

1. Purpose.

For measuring the flow of natural gas, each meter & EVC should have calibration certificates duly signed by Weights and Measures Authority. Alternatively, vendors' in-house calibration certificate is also acceptable provided the uncertainty of vendors' meter proven system istraceable to National / International mass standards. Vendors shall furnish certificate indicating the uncertainty of meter prover system.

Meter & EVC shall be installed outdoors in open environment. Vendor shall confirm that the meter is suitable for outdoor installation in tropical climate with the following conditions:

Ambient temperature: 0 – 60 °C.
Humidity: 100 %

Vendor in the offer shall include accessories such as lubrication pumps (if required). Turbine Meter should in addition be fitted with an open ended top hat type strainer (Conical type of the straineris acceptable) inserted in horizontal pipe work between governors and meters. The strainer meshsize shall not be finer than the mesh size of the main filter, nor should it be coarser than 250 microns. Provision should be made in the design of pipe work to enable removal of strainer for cleaning and inspection.

Maximum working pressure requirement for Turbine Meter shall be 7 bar(g). Meter should be provided with two LF pulse and one HF pulse output with 5 pin configuration. The Meter pulse outputs (female connector) shall be located at a position (left and right side of meter head) such that there is no ingress of water. Integral / External (as a separate unit) EVC with RPD Meter is acceptable.

The EVC to be used shall comply EN 12405 & ATEX. EVC shall be compatible to communicate with MNGL web application. EVC shall be compatible to collect data from RPD meter and send the data to IOT through wired medium. The IOT should be capable to communicate to with MNGL web app. Web app to SAP communication is in MNGL's scope.

Proper lubrication arrangement should be provided. Inlet and outlet straight piping requirement

and flow straightening device should be as per PTB/EC/TRG13 or equivalent.

Meter with EVC should be IP-65 protection

Meter end connections should be 150 # flanged type.

2. Nameplate

A nameplate should be fixed on the meter, which will give the following information:

- Name and trademark of the manufacturer,
- Type of the meter,
- The serial number,
- The maximum flow,
- The minimum flow,
- Maximum working pressure, and
- Direction of the gas flow.

G AMR System

MNGL needs to pull data of Pressure, Temperature, Corrected Volume Flow, Uncorrected Volume Flow, 24 hrs Flow Data etc. any time to its control room. The mode of communication shall be data call.

- GSM/GPRS Modem in AMR system shall be ATEX approved for connection with a device in hazardous area.
- Modem must be 4G and LTE sim compatible.

The power supply shall be installed at a distance of around 20 meters from the meter i.e., from Zone 0 (if it is external). The electrical cabling required for the connectivity between various accessories (i.e., from External Power Supply to GSM/GPRS Modem etc) is in Vendor's scope.

AMR shall be programmed to send the data by both the means i.e., periodically as well as at convenient time.

H Filters & Strainers

Design and construction shall meet the requirements as per ASME Boiler & Pressure Vessel (BPV) Code, Section VIII: 2007. The filters & strainers shall be of horizontal design only. However, in case of vertical design / alignment of the filter (in special cases and with prior MNGL approval only), there should be enough clearance provision between the top end of the filter and the roof of the skid for removing the filter element from the top end. Differential pressure indicator (clogging indicator) should be provided. All the filters shall have purge, vent and drain connections with valve (with positive blind arrangement), and should be suitably located and sized to ensure a reasonably short blow down time. Filters are acceptable with blind covers with davit arm. All welded joints should be radio graphically examined and acceptance criteria should comply with ASME BPV Codes.

I Pipe Work, Fittings and General Construction.

DRS skid construction / fabrication, reinforcement pads, etc. shall meet the requirements of codes ASME B31.8: 2007 and or ASME BPV Code, Section VIII: 2007. The design and assembly of all the equipment's shall be such that there is no difficulty in the operation and maintenance of the same.

Pipe work and fittings shall be of seamless type and as per ASTM A 106 Gr.B/API 5L Gr.B and ASTM A234 Gr. WPB &ASTM A 105 and as per MNGL Piping specifications. All branch connections shouldbe of weldolet type up to d\D ratio less than 0.3 and sweepolet type up to d\D ratio less than 0.6.All valves for pressure / vent, pressure gauge and bleed should have positive blind arrangement.

Size of sensing line and pressure test points is left to manufacturer's discretion. On impulse line valves, the mean of actuation must be capable of being removed. The DRS should be a skid mounted. Welders and welding procedures have to be qualified in accordance with ASME BPV Code Section IX / API 1104: 2005. All the welded joints should be radio graphically examined and acceptance criteria should comply with ASME BPV Code, Section VIII: 2007 / API 1104: 2005.

Vendor shall furnish details of foundation and anchor bolts. Supply of foundation bolts of adequate strength is in the scope of the vendor. The position of the foundation bolts in the drawing (to be submitted for approval) should be clearly indicated in all the views of the DRS. The center point of the inlet and outlet flanged connections should be clearly marked / visible in all the views in the drawing submitted for MNGL approval.

The shut off valve of the DRS shall be easily accessible and shall be clearly marked in English and Regional language. Also it should indicate the directions of opening as well as closing.

The direction of flow of gas in the piping system of the skid shall be indicated on the pipes on both the streams.

Painting shall be carried out by application of one coat (DFT 35-50 microns) of zinc phosphate primer followed by two coats (DFT 60 microns each) of chloro rubber high build paint of colour canary yellow. Before painting, surfaces shall be thoroughly cleaned by applying mechanical methods. However, the outlet valves should be painted with red colour. On the DRS skid, the following instructions shall be inscribed in English and Regional language:

Danger – Inflammable Gas.
MNGL Toll Free No.: 1800 266 2696 Mob No: +91-9011676767
Fire Brigade Tel. No.:101
No Smoking or spark flame or naked flame within a radius of 3 meters.

(MNGL branding on DRS Canopy must be painted (Scratch proof paint) as per MNGL approve design which will be submitted after award of PO. Branding shall be done on Front & back side of canopy. Rest 2 (two) sides to match the color of MNGL branding design.)

In case screws are used to fix nameplates etc., on the skid, all the sharp points should be adequately filed and smoothened.

Hooks of adequate strength should be provided to facilitate lifting and convenient handling of the DRS. Working platforms, if required should be provided in the skids at appropriate locations (and shown clearly in the drawing) to facilitate easy access to all parts of the skid and to avoid any operational or maintenance problems. Working platforms, if required should be provided in the skids at appropriate locations (and shown clearly in the drawing) to facilitate easy access to all parts of the skid and to avoid any operational or maintenance problems. Also provide the tag for stream (working and standby stream) of DRS, so that the same can be interchange during the maintenance activity.

Isolation valve – isolation valves 6" size and above shall be gear operated. (150# outlet)

4" x 125mm & 6" x 180mm – TF should be provided along with the DRS of the respective outlet pipe size.TF should be welded along with the spool piece of outlet pipe, as per the approved GAD. Radiography report for the same is to be provided.

J <u>Powder coated Cabinet.</u>

A protecting powder coated cabinet should be provided to cover the DRS and to avert the ingress of water. It should be constructed with durable, corrosion resistant and non-inflammable materials and should have adequate strength so that it should not get damaged / deformed during handling, transportation and installation.

The cabinet supplied by the vendor should have free ventilation of at least 5% of the surface area. It should have front doors that open fully on either sides, and also be lockable from the outside by padlocks, and rear doors that are lockable from the inside, which are to be supplied by the vendor.

Regulator vents should protrude through the cabinet wall and terminate with flame arrestors. The constructional details of the flame arrestor are also to be provided.

Latches, handles of locking system to be SS riveting.

Cabinet sheet is of MS & the thickness shall be of 1.99 mm minimum.

Adequate cut-out should be provided at appropriate location on the cabinet such that the readings of the counter of the Meter as well as the reading of the Pressure Gauge are easily visible from outside. Window glass used in the cut-out of the canopy shall provide the protection as per IP 50.

The name plate should be fixed on the front door of the cabinet in the mid position and the font size should be 1.5 cm in height so that it facilitates the easily reading of the details of DRS provided on the cabinet. A nameplate should be fixed on the Cabinet, which will give the following information:

- Name of the Manufacturer,
- Description of DRS,
- Flow Capacity,
- Inlet Pressure,
- Outlet Pressure,
- Meter Type, Size and Serial Number,
- Set points of Regulators, SSV and CRV of both stream,
- Filter (Micron rating, No. of cartridges and size),
- Date and year of Manufacturing.

K Tests.

a) Hydrostatic Testing.

Hydrostatic test should be carried out up to the test pressure as detailed in the specific requirements. Wherever necessary, regulators, relief valves and similar components that have been tested independently should be removed from the line. Blind flanges or double flange pipes should be installed temporarily in their place. All small bore connections and impulse lines should be disconnected and suitable plugs or blank flanges should be installed.

b) Leakage Testing:

i. Pneumatic testing using air or an inert gas should be undertaken on all installations and should include all equipment and associated small bore pipe work. Care must be taken to disconnect equipment, which might get damaged at the testing pressure.
ii. It should be confirmed that all main, by pass and impulse valves within the section under test are in the open position. Any open ends should be blanked off. The installation should be pressurized slowly up to the recommended test level as detailed in specific requirements column.
iii. All joints, flanges and glands on valves and fittings should be tested for leakage with a suitable foaming fluid.

NDE EXAMINATION - Full inspection by radiography shall be carried out on all butt weld joints and all the fillet joints shall be inspected by MPT/UT. The acceptance criteria shall be complying with API 1104.

Test Certificates: A record of all hydrostatic testing and pneumatic testing carried out should be prepared for every installation. A material test certificate for all components of DRS should be furnished at the time of inspection by third party / MNGL representative. MNGL reserves the right to witness all the tests.

L Spare Parts.

The spare parts required in the warranty period (24 months from the date of delivery or 12 months from the date of commissioning, whichever is earlier) should be supplied free of cost. Also, a separate detailed list in addition to the spare parts mentioned below (with the rates valid for 2 years after the warranty period) for the requirement of spare parts after the warranty period should be submitted along with the technical bid. **However, MNGL may or may not or defer the**

purchase of spare parts.

List of spare parts:

Regulators: Standard spare kit containing diaphragms springs, 'O' rings and gaskets. Slam shut valve: Standard spare kit containing diaphragms springs, 'O' rings and gaskets. Relief valve: Standard spare kit containing diaphragms springs, 'O' rings and gaskets.
Filter element & Gasket.

Special Tools and Equipment:

Any special tools or equipment required for the installation or routine maintenance of DRS should be listed and priced separately.

M Documentation required (minimum 3 sets):

a. Performance specification and test certificate.
b. Certificate from DVGW or equivalent.
c. Construction drawings, material specifications and technical data sheets. (In English language only)
d. Instructions and recommendations regarding installation, operation, and maintenance of all the components of the unit.
e. Parts list.
f. Material test certificate for all the pipe and fittings material.
g. Hydrostatic & pneumatic test certificate

The vendor shall submit below tabulated documents after getting firm order from owner for review and approval as per the requirement mentioned in the table. Vendor shall be responsible for the **submitting** all drawings and technical documents including QAP to MNGL for approval within 7 Days after placement of order.

SR.NO.	DOCUMENT	REQUIREMENT
1	P & ID Diagram	MNGL Approval
2	GA Drawing	MNGL Approval
3	Isometric drawing	MNGL Approval
4	Skid sizing calculation sheet for inlet, intermediate & outlet, DP across the skid as well as major center	MNGL Approval
5	Detailed Design calculations for Pipe sizing, velocity calculations, Pressure drop calculations	Information
6	Specifications for general items like U clamp sleeve, tagging, insulation padding, canopy window glass, sealant jelly, clamp diameter, separate earthing clits for both instrument and skid piping, etc & Bill of material	Information
7	WPS/PQR	Approval
8	Operation philosophy	Information
9	Operation, installation & maintenance manual	Information
QUALITY		
1	Quality Assurance Plan	MNGL Approval
2	Factory acceptance test procedure	MNGL Approval
3	Functional test procedure	MNGL Approval
4	Site acceptance test procedure	MNGL Approval
5	Hydrostatic test procedure	MNGL Approval
6	Hydrostatic test report	Information
7	Nondestructive examination	TPI Approval
VALVES & EQUIPMENT		
1	Filter datasheet	MNGL Approval
2	Filter drawing	Information
3	Design of filter vessels containing sizing calculation, weld schedule, GAD, support details, QAP, selection of crtridge,etc.	Approval
4	Filter cartridge selection	MNGL Approval
CIVIL & STRUCTURAL		
1	Detail of base frame with supports including size	MNGL Approval
2	Civil foundation drawing	MNGL Approval
3	Tubing support drawing	Information
4	Name plate	MNGL Approval
5	Canopy drawing and specification	MNGL Approval

- The vendor is entirely responsible for the quality of skid manufactured by them.
- Vendor shall provide all testing report as mentioned in quality assurance plan (QAP) for review

during FAT. Also all tests to be certified out during FAT shall be witnessed by MNGL representative.

- Vendor shall provide WPS & PQR before commencement of fabrication job for approval.
- Vendor shall procure bought out items from approved vendors with MNGL.
- For any control test or examination required under the supervision of MNGL representative vendor shall informed in writing one (1) month in advance about inspection date & place along with production schedules

N Commissioning.

The supplier's technical personnel, at no additional cost to MNGL should carry out commissioning of the entire DRS skid at our site. Supplier should carry all the necessary tools and tackles along with manpower required for commissioning of DRS.

O Performance and Inspection

Adequate data on capacity, range ability, lock-up, minimum and maximum operating pressure differentials, dynamic performance characteristics and predicted noise level emissions, set points of slam-shut valve, relief valve, active and monitor regulators, etc., should be given by the manufacturer in order to determine the performance of the regulators under various operating conditions. Results of such tests carried out by the manufacturer to determine operational performance and thereby confirm these design data and Manufacturing Test Certificates (MTC) for all components / parts of DRS, NDT results, Welding Procedure Specification (WPS), Welder's Performance Qualification Record (WPQR), Welding Procedure Qualification Record (PQR), etc, should be made available prior to offering the complete skid for witnessing the performance testing by MNGL / Third party Inspection agency appointed by MNGL.

The final performance test of complete DRS skid shall be carried out in presence of third party inspecting agency / MNGL representative before accepting the skid and giving clearance for dispatch. Cost of TPI for inspection in India is in MNGL scope. For Outside India, Inspection will be in bidders scope, if any. Inspection is to be carried out as per the inspection plan stated below.

P Inspection plan:

a. QAP to be as per MNGL QAP.
b. Visual inspection of the DRS assembly:
c. Witnessing of:
   - Hydrostatic & pneumatic testing of & DRS assembly, as per the parameters given in 'Specific requirements'.
   - Performance testing of regulator: Outlet pressure v/s flow (for various inlet pressures), inlet pressure v/s flow (for various outlet pressures), checking of lock up pressure to be within limits, slam shut operation & its setting, regulator and relief valve operation & its setting.
d. Stage-wise inspection to be carried out for inspection of workmanship quality and for inspection of surface preparation and primer coat / intermediate coats to ensure proper adhesion / paint quality.

e. Strictly all MNGL & PNGRB latest guidelines to be followed.
f. All the manufacturing of equipment to be as per PNGRB & MNGL standards.

Q Performance Guarantee:

24 months from the date of delivery or 12 months from the date of commissioning, whichever is earlier, should be provided.

R DOCUMENT HAND OVER:

MANUFACTURER shall also submit 2 sets hard copies and one (1) digital copy on compact disc of following documents along with shipment of skid and one (1) digital copy to MNGL.

- Approved bill of material
- Approved P& I diagram
- Approved plan and isometric drawing
- Approved cross section drawing
- Approved Quality assurance plan
- Material test certificates (physical property, chemical composition, heat treatment report etc.)
- Traceability Records (including welding rods)
- Statutory test certificates, as applicable.
- WPS, PQT & WQT records wetted by TPIA
- Dimensional check report
- Nondestructive test report: RT, UT, MPT
- Pressure testing certificate: Hydrostatic & Pneumatic test
- Performance/Functional test certificates
- Painting specification and report
- Inspection & test reports for all mandatory tests duly certified by MNGL authorized TPI / Representative after review/ witness as per the applicable code as well as test reports for any supplementary tests.
- Vendor shall provide purchase orders of bought out items along with all TCs.
- Mechanical gauge/Instrument calibration certificate
- Warranty certificate
- FAT Report
- TPI approved inspection release note
- Equipment design, sizing & calculation documents
- System pressure drop
- Valve documentation
- Filter cartridge details & Specifications
- Equipment & Instrument data sheets
- Hook up details
- Operation and maintenance instruction manual & requirements
- Typical noise Assessment & Control report
- Typical hazardous area classification
- Original Equipment/Instrument catalogs
- Compliance certificate in line with MNGL bid
- Other information which MANUFACTURER seems necessary

- Consolidate Exception / deviation report
- FAT procedure
- Start up and commissioning procedure
- Summary report which includes all the test as per QAP, TC/Report number, observed values of tests.

Vendor to submit soft copies (CD as well through email) & Hard copies of all the Test certificates, Inspection release note & O & M Manual to **manik.kadam@mngl.in and gasaid@mngl.in.**

S Technical Bid Evaluation Criteria (TBEC) for DRS

1. Bidder's offer should comply with all requirements of MNGL Technical Specification. Duly filled and signed data sheet, including specific requirements of DRS (Double Stream) and technical specification should be enclosed with technical bid as a token of acceptance.

2. The bidder should have past experience either in supply / fabrication / assembly of similar regulating stations, or should be manufacturers of similar type of regulators (as listed at Sr. No. 3 below) used in the DRS, and should have a facility to test the DRS units. Documentary evidences (in English language only) such as copy of POs of past supply including technical specification, Third Party inspection release notes / completion test certificate/one-year trouble free performance certificate, etc., should be furnished along with the technical bid.

3. Bidder should confirm that they shall supply following major components of DRS from reputed manufacturers as given below. Bidder may offer the models of any other manufacturer apart from those listed below, provided they furnish the documentary evidence (like copy of appropriate approvals, proof of past supply of the offered models by the manufacturers to other gas industries, along with inspection certificate or at least one-year satisfactory performance, etc.) along with the technical bid. The same shall be considered only with prior approval of MNGL, and acceptance / rejection of the same shall be at the sole discretion of MNGL. In case of bidders who are not Original Items Manufacturers (OIM) as listed in table below, shall furnish, a confirmation letter from OIM that their product can be marketed through the bidder and they stand guarantee for any manufacturing defect / non performance found during the operation and guarantee period and also furnish a delivery schedule of OIM to the bidder.

Sl. No.	Regulators / Slam Shut Valve / Relief Valve	Isolation Valve
1	M/s Itron (Actaris / Schlumberger)	M/s Audco
2	M/s Emerson	M/s Microfinish
3	M/s Gorter Controls/Honeywell	M/s Virgo
4	M/s Nirmal Industrial Controls	M/s Automech
5	M/s Pietro Fiorentini	M/s Petro valves
6	M/s RMG / Bryan Donkin	M/s Flowchem
		Any other party with API6D Monogram

Sl. No.	Transition Fitting
1	M/s George Fischer
2	M/s Kimplas Piping Systems.

Sl. No.	TURBINE METER
1	M/s Elster Instromet (Belgium)
2	M/s RMG (Germany)
3	M/s Barton Instruments (UK)
4	M/s Daniel Industries (USA)
5	M/s Hoffer Flow Controls(USA)
6	M/s Itron (Actaris / Schlumberger)
7	M/s Rockwin
8	M/s Vemmtech

4. A full-fledged facility for carrying out DRS assembly test should be available with the bidder and bidder should specify the equipments available for the same in the technical bid.

5. Type and model number of all components of DRS shall be mentioned clearly in the offer, sizing calculation, CV/Kg value for selected regulator and slam shut, filter pressure drop calculation, performance curve and specific technical catalogue (in English language only) of the models offered shall be furnished with the technical bid.

6. Offers not complying with requirements stated at BEC Clause 1 to 5 are liable for rejection.

7. MNGL reserves the right to consider the offer of vendor based on its past Performance in MNGL.

LIST OF VENDORS FOR BOUGHT-OUT ITEMS

I) VOLUME CORRECTOR

1) M/s RMG Messtechnik Gmbh,Germany
2) M/s Instromet International, Belgium
3) M/s Daniel Flow Products inc.,USA
4) M/s Dresser ,(Rockwin Flow Meter,India)
5) M/s Itron (Actaris / Schlumberger)
6) M/s Barton Instruments, UK
7) M/s Romet, Canada.
8) M/s Elgas
9) M/s Plum

II) PRESSURE SAFETY VALVES

1) M/s Keystone Valves (India) Pvt. Ltd. (Baroda)

2) M/s Sebim Sarasin Valves India (P) Ltd. (New Delhi)
3) M/s Tyco Sanmar Ltd. (New Delhi)
4) M/s Parcol SPA, Italy
5) M/s Tai Milano SPA, Italy
6) M/s Fisher Rosemount (Now M/s Emerson Process) Singapore
7) M/s Instrumentation Ltd., Palghat
8) M/s Nirmal Industrial controls Pvt. Ltd

III) CARTRIDGE FILTER

1) M/s Grand Prix Fab (Pvt.) Ltd. (New Delhi)
2) M/s Multitex Filteration Engineers Ltd. (New Delhi)
3) M/s Perry Equipment Corp. (USA)
4) M/s Siirtec NIGI SPA (Italy)
5) M/s Axsia Howmar Ltd. (UK)
6) M/s Faudi Filters Systems GmbH (Germany)
7) M/s Filtan Filter Anlagenbau GmbH (Germany)
8) M/s Plenty Filters (UK)
9) M/s Forain S.r.l. (Italy)
10) M/s Ravi Techno Systems (Mumbai)
11) M/s Gujarat Otofilt (Ahmedabad)
12) M/s Nirmal Industrial Controls (India)
13) M/s Flash Point
14) M/s. Control Plus Oil & Gas Solutions Pvt Ltd
15) M/s. Emerson

IV) GLOBE VALVE

1) M/s Weir BDK Valves (New Delhi)
2) M/s Datre Corporation(Kolkota)
3) M/s KSB Pumpo(New Delhi)
4) M/s L & T, New Delhi
5) M/s Neco Schubert & Salzer Ltd.(New Delhi)
6) M/s Niton valve (Mumbai)
7) M/s Ornate valves(Mumbai)
8) M/s Panchvati valves(Mumbai)

V) CHECK VALVES

1) M/s Malbranque (France)
2) M/s Mannesmann Demag (Germany)
3) M/s Petrol Valve (Italy)
4) M/s True Flow Rona (Belgium)
6) M/s AV Valves Ltd., Agra
7) M/s Weir BDK Valves, Hubli, Karnataka
8) M/s Neco Schubert & Salzer Ltd. New Delhi
9) M/s BHEL, OFE & OE Group New Delhi
10) M/s Precision Engg. Co., Mumbai
11) M/s Leader Valves Ltd., Jalandhar
12) M/s Niton Valves Industries (P) Ltd., Mumbai
13) M/s Larsen & Toubro Ltd. (Audco India Limited, Chennai)

14) M/s Aksons & Mechanical Enterprises, Mumbai
15) M/s Datre Corporation Ltd., Calcutta
16) M/s Advance Valves Pvt. Ltd., Noida

VI) PRESSURE GAUGES, D. P. GAUGES & TEMPERATURES GAUGES

1) M/s AN Instruments Pvt. Ltd., New Delhi
2) M/s General Instruments Ltd., Mumbai
3) M/s WIKA

VII) RTDs

1) M/s General Instruments Ltd., Mumbai
2) M/s Nagman Sensors (Pvt.) Ltd.
3) M/s Pyro Electric, Goa

VIII) PRESSURE TRANSMITTERS

1) M/s Fisher Rosemount (Emerson)
2) M/s Yokogawa
3) M/s Fuji
4) M/s Honeywell

IX) SS VALVES, SS TUBE & SS TUBE FITTINGS

1) M/s Swagelok (USA)
2) M/s Parker (USA)
3) M/s Sandvik, Sweden
4) M/s Arya
5) M/s DK-LOK

X) LEL DETECTION SYSTEM

1) M/s CHEMTROLS ENGG,
2) M/s DETECTION INSTRUMENTS
3) M/s ANACON PROCESS CONTROL
4) M/S OLDHAM FRANCE SA,
5) M/S CROWCON DETECTION INSTRUMENTS LTD

XI) MCB'S:

1) HAVELL'S
2) INDO ASIAN
3) MDS

XII) RELAYS:

1) OEN
2) JYOTI

Notes:

1) For Critical items viz. Pressure Regulator & Slam Shut Valve, Volume Corrector, RPD/ Turbine Meter, the makes shall be from the above-mentioned list only.

2) For procuring other bought out items (excluding critical items as mentioned in Note-1) from vendors other than those listed above, the same may be acceptable subject to the following: -

a) The vendor/supplier of bought out item(s) is a regular and reputed manufacturer/supplier of said item(s) for intended services and the sizes being offered is in their regular manufacturing/supply range.
b) The vendor/supplier should not be in the Holiday list of any other city gas company. The bidder should enclose documentary evidences i.e. PO copies, Inspection Certificate, end-user certificate etc. for the above, along with their bids.

3) For any other item(s) for which the vendor list is not provided, bidders can supply those item(s) from reputed vendors/ suppliers who have earlier supplied same item(s) for the intended services in earlier projects and the item(s) offered is in their regular manufacturing/ supply range.

The bidder is not required to enclose documentary evidences (PO copies, Inspection Certificate, end-user certificate etc.) along with their offer. However, in case of successful bidder, these documents shall be required to be submitted by them for prior approval of MNGL within 30 days from date of Placement of Order.

DATASHEET FLANGES AND BLINDS		
SR.NO	**DESCRIPTION**	**SPECIFICATION**
GENERAL		
1	Size	AS per approved design Calculations
2	Pressure Rating	150#
3	Design Standard (**Guideline: PNGRB T4S Standard)**	ASME B16.5/ASMEB 16.47/ASME B 16.48
4	Corrosion allowances	1.5mm
5	Design factor	0.4
SERVICE CONDITION		
7	Design Pressure	19 barg
8	Design Temperature	150# = -15 to 65 deg.
9	Service Fluid	Natural Gas
10	Operating temperature	150# = -10 to 50 deg.C
11	Operating Pressure (Max)	19barg -150#/
CONSTRUCTION DESIGN		
12	Allowable Stress	ASME B 31.8
13	Flange Type	WNRF/BLRF/SORF/BLIND
14	Flange Facing	Raised Face (125 AARH)

15	Bevel End & Bevel Angle for WNRF	ASME B 31.8
MATERIAL SPECIFICATION		
	PART	**SPECIFIED MATERIAL**
16	Material Construction	1) ASTM A 106 Gr. B/API 5L Gr. B and ASTM A 234 GR.WPB & ASTM A 105 2)The carbon Contents is greater than 0.12% in product analysis, the CE(IIW) shall not exceed than 0.40% and if the carbon content is less than 0.12% in product analysis, the CE(Pcm) Shall not Exceed 0.20%

TESTING & INSPECTION		
17	Charpy Impact Test	As per material of Construction Standard In Case Charpy Test not specified in relevant codes and standard than charpyshall be carried out at 0 deg C and absorbed energy Valve shall be average 35J and minimum 28 J respectively.
18	Hardness test	ASTM A 106 Gr. B/API 5L Gr. B and ASTM A 234 GR.WPB & ASTM A 105 Incase hardness Valve not given in MOC thenHardness Valve shall not exceed 235 HBN
19	Tensile Test	As per relevant Code and Standard
20	Yield Strength	As per relevant Code and Standard
21	Elongation	As per relevant Code and Standard
22	UT	100% Surface
23	MPT	100% at Bevel Ends
24	DPT	100% at bevel end for 50 mm width
25	Marking	MSS SP 25 and MNGL Specification
NOTE		
1)Bidder shall clearly mentioned deviation, if any, and must get approval for MNGL for any deviation		

DATASHEET FOR DIFFERENTIAL PRESSURE GAUGE			
SR. N O	**DESCRIPTION**	**SPECIFICATION**	
1	Type	As per P&ID	
2	Mounting	Local	
4	Standard (**Guideline: PNGRB T4S Standard)**	As Per IS 3624/EN 837	
5	Dial Size	100mm	
6	Colour	White (Non rusting plastic with black engraving)	
7	Case material	SS304/SS316	
8	Bazel Ring	Bayonet	
CONSTRUCTION			
9	Window material	Shatterproof Glass	
7	Enclosure	IP 67	
8	Sensor	Piston Type	
9	Pointer	Black Aluminum	
10	Accuracy	±2% FSD	
11	Zero Adjustments	Vendor to Furnish	
12	Connection	1/2" NPT (M)	
13	Connection Location	Horizontal	
14	Movement	Vendor to furnish	
15	Over-Range Protection	Vendor to furnish	
16	Blow out Protection	Vendor to furnish	
17	Make	As per MNGL approved vendor list	
18	Manifold	5 way 3 valve manifold	
19	Model	Vendor to Indicate	
20	Fluid	Natural Gas	
	TAG	**Range**	**Working Pressure**
	DPG-0101	0-1000 mbar	19 Bar G
Note – Vendor Shall Provide Calibration Certificate			

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DATASHEET FOR REGULATOR		
SR.NO.	**MNGL SPECIFICATION**	**REQUIREMENTS**
GENERAL		
1	Make	As per Approved vendor Specification
2	Type/Model	As per Approved vendor Specification
3	Type	Pilot Acting Fail to open
4	Maximum Temperature	60 deg. C
5	Minimum Operating temperature	-10 deg. C
6	Regulating Accuracy (AC)	+/- 1 % of set outlet pressure (G) or Better
7	Lockup (SG)	+/- 5 % or better
8	Standard	As per PNGRB Guidelines
9	Fire safe design	API 607 / API 6 FA' (Latest)
10	Connection Details	Raised Face Flanged ends – ANSI 150#
MATERIAL OF CONSTRUCTION		
11	Body	Steel ASTM A216 Gr. WCB or equivalent to suitable for withstanding the pressure & temperature Requirements
12	Internals	SS or Brass or suitable material for withstanding the pressure requirements
13	Diaphragm	Synthetic rubber or suitable material for withstanding the pressure requirement
STANDARDS		
14	Regulators	EN 334 : 2005 (+A1:2009)
15	Components for Gas Supply	DIN30690-1:2006/DIN 30690-2: 1980 OR Equivalent

DATASHEET FOR EVC		
Sr.No	**DESCRIPTION**	**SPECIFICATION**
1	Make	As per MNGL Approved vendor Specification
2	Model No.	As per MNGL Approved vendor Specification
3	Type	Microprocessor based battery Operated Volume Corrector with integral/external Smart pressure transmitter and temperaturesensor suitable for mounting in the field location
4	Function	To measure actual Gas Volume, Pressure and Temperature, To calculate Compressibility factor of the gas and based onwhich calculates Standard volume of gas Unit will be complete in all respect to achieve this function
5	Input	1. HF/LF Pulse for Turbine Meter for flow/Volume 2. Temp Sensor: -40 deg C to 50 degC 3. Pressure Sensor : 1.5 BarA to 7.0 BarA
6	Output	1. Corrected volume, Uncorrected Volume, Alarm outputs for unit malfunctioning. 2. RS 232 serial port (01 nos,) for PC/Laptop connectivity or GSM connectivity. More than 16 parameters including the Temperature, Pressure, Actual Volume, Correction factor etc. provided through RS-232 port
7	Isolation	All inputs, outputs and power supply shall be individually isolated
8	Display	2 line 16 large Character LCD display with selectable decimal Displaying a units, messages, alarms (Battery Low, Pressure out of range, Temp. out of range flow over range, fault in measurement English.
9	Power Supply	Lithium Battery
10	Battery Life	5 years typical or more
11	Configuration.	To be done in factory for all volume corrector fully taking. into account the process conditions, sensor & flow meter's characteristics and calibration for direct on site operations
12	Calculation	AGA7 latest for Volume measurement
13	Standard	Compressibility: AGA 8 (Latest) Detail or Gross 1, 2 method
14	Hazardous area	Certified intrinsically safe for area classification Class 1, Div. 1, Group D
15	Site Condition	Temperature 0-65°C, Hot, humid, tropical, saline environment
16	Mounting	Integral with respective RPD meter
17	Accuracy	±0.5% of reading at ambient temp. And ±0.3% of reading at 20°C

18	Facility	1. Built in diagnostics to detect proper functioning 2. Modbus facility or any third party software with Modbus register address changing facility... 3. Data security through password/key-lock facility and volume conversion and configuration to be sealed 4. Parameters and programmed constants shall be stored in EEROM/ non- volatile memory 5. Will store at least 40 days data (on hourly basis) for flowing pressure, temperature and corrected flow with data and time stamping 6. The stored data is retrievable and programming can be done by using portable PCs. Suitable dedicated port is available on the Electronic Volume Corrector for portable PC connection 7. All Software's of EVC shall be handed over to MNGL for lifetime free of cost basis

FILTER		
1	Make	As per MNGL Approved vendor Specification
2	Type/Model	As per MNGL Approved vendor Specification
3	Type	Cartridge
4	Fineness	5 Microns
5	Efficiency	99%
6	Maximum working pressure-	19 Bar
7	Connections Details	Flanged End ANSI150#
8	Design & Construction	As per ASME BPV CODE, Section VIII:2007
9	O Ring	Buna N
10	Support	ASME A 283 Gr. C/IS:2062
	Accessories	
11	QOEC Davit Details(with make & model)	Davit arm for filter shell size of 6 ’’ and above.
12	Companion flange, blind, flange, gasket, bolts/stud for all nozzles, earthing lug	Yes

NOTE	
1	All CS parts weld joints to be stress relieved. Hardness in welds not to exceed 200 BHN.
2	Filtration area should be minimum 8 times of inlet nozzle area. Sizing calculations to be submitted by the vendor.
3	Fire case PSV of suitable capacity shall be provided on each dry gas filter.
4	Proper support, crossover & platform required for maintenance of filter, PSV, DPG etc.
5	Sizing calculation of filter element to be submitted by VENDOR'S
6	100% Radiography applicable on casting
7	Filter Design & Calculations shall be approved by MNGL

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Data Sheet of Gas Leak Detectors

Display Type	:Digital, Analog
Gas Type	:Natural Gas, Combustible Gas
Maximum Load	:600 ohms
Operating Temperature	:0 to + 60 degree Celsius
Accuracy	:2 % FS
Zero Drift	:0.2 % FS
Response Time	:Less than 2 Seconds
Power Input	:12 - 24 V DC

Features:

- Gas Sampling by Natural diffusion
- Auto Calibrated
- Replaceable Filter & Gas Sensor
- Manual Calibration (On Site)
- PFC Relay O/P (NO or NC)
- Explosion Proof Enclosure, Flame proof
- Atex certified
- Sensor life minimum 5 years
- Pre-set Alarm (Low and High Alarm)
- Analog output- 4-20 mA

Other Details:

- The system will be able to continuously monitor VOC in the 0-2000 PPM to generate alarm.
- Detection Range - 0-100% LEL (Methane)
- Gas Leak detection system to generate Alarm at MNGL Control room.
- No Hooter required.
- Sensing range upto 10 meters.

The concentration of VOC in 0-2000 PPM, 0-100% and will have the following:

- 1 x 4-20 mA analogue output for BMS or Variable Speed Drive
- 3 x Digital Inputs (for muting the alarm)
- The Mute Switch will be installed ,Lock/key arrangement for extra security
- 24 V DC/AC operation (optional 240 VAC – 24 VDC Plug-Pack)
- Wall Mounted, IP 65· LC Display

Technical Specifications:

- Detection Principle: Catalytic combustion, Semiconductor
- Terminations: PCB Mounted terminal blocks to accept 1.5 mm wires
- Display: LED Indication L-Alarm, H-High Alarm
- Output: Two Number Relay contact
- Power Consumption: 2 wire: 0.5 W max./3 wire: 3.6 W max
- Standard: UL1484 and EN50194

DATASHEET FOR GSM/GPRSMODEM		
Sr.No	**DESCRIPTION**	**SPECIFICATION**
1	Power Supply	5V To 32V DC:400mA Average @5V 1A Peak @5V
2	Connectors & Fasteners	Antenna Connection Type: SMA Jack SerialConnector:15-PinRS232SUBDFemale(DE 155S) Pins : RS232 Link, Audio Link,BOOT,RESET Power Connector: 2.5mm Miniature Power Jack SIM Receptacle : (Standard)- 4G standard Volte compatibility
3	Operating temperature	45 to +65 deg C
4	Certification	CE MARK EMC: FCC Part 2,15,22,24, EN 55022 & EN 55024 Safety : UL 60950, EN 60950
ELECTRICAL CHARACTERISTICS		
5	Switching The GSM Modem	On / Off Type The Device is Permanently Powered(When Connected To The Power Supply)
6	Voltage Range	5 to 32V DC
7	Over & Under Voltage	Correct Operation Of The Wireless Multi Modem in Communication Mode is not Guaranteed if input Voltage Falls Below 5V
8	LED Indicators	TD, RD, CD,LS,TR,And PWR
9	Standard	Dual Band Extended GSM 900 MHz Class 4 (2W) And GSM 1800/1900 MHz Class 1/1W
10	Interface	Serial Interface RS232.V.24/V.28 Autobauding Function. At Command Set based On V25ter And GSM 07.05 &07.07
11	Data	Asynchronous 2400, 4800, 9600 and 14400 bps Data Transparent and Non Transparent Modes In Non Transparent Modes:300,1200/75 Baud Rate Available. Mode 3.1 KHz (PSTN) And V110 (ISDN)
HOUSING & OTHER ACCESSORIES		
12	GSM Housing	Ex. Proof Gas Group IIA IIB, IP 66 Housing
13	Isolator	Isolator is required for Preventing electronics devices from Lighting., Faculty Ground Loops Etc.
14	Power Supply	External DC Power Supply With Battery Back Up

DATASHEET FOR ISOLATION BALL VALVE (BELOW 2''-800#)		
SR. NO	**DESCRIPTION**	**SPECIFICATION**
GENERAL		
1	Valve Size	Below-2"
2	ANSI RATINGS	ANSI 800#
3	Design Standards (**Guideline: PNGRB T4S Standard)**	BS EN ISO 17292 (Latest)
4	Corrosion allowances	1.5mm
5	Design factor	0.4
SERVICE CONDITIONS		
6	Service	Natural Gas
7	Design Pressure	138 bar-g
8	Design Temp.	-15 to 65ºC (for Operating Pressure 19bar-g)
9	Operating Pressure (maximum)	Up to 19 bar (g)
10	Fire safe design	API 607 / API 6 FA' 2008
11	Operation temp	-10 to 50ºC (for Operating Pressure 49 bar-g)
VALVE CONSTRUCTION DESIGN		
12	Location	Above Ground
13	Valve type (Floating/Trunnion Mounted)	Floating
14	Bore (Full/Reduced)	Full Bore
15	End Connection	Socket Welded (as per ASME B 16.11) with pups
16	Locking Devices	Locking facility in full open Position
17	Shutoff Class	VI
18	Construction	Two/Three Piece Construction required /Bolted
19	Bi-directional	Required
20	Double Block & Bleed	Not Required
21	Blow out proof	Required
22	Anti-Static device	Required
23	Lever Operation	Required

VALVE MATERIAL SPECIFICATIONS		
	PART	**SPECIFIED MATERIAL**
24	Body	ASTM A105
25	Ball (Solid)	ASTM A479 SS316/ASTM A351 CF8M + 80 micron ENP
26	Seat	RPTFE
27	Stem (Anti blow out)	ASTM A 479 SS316 (No Casting)
28	Stem Seal	As per manufacturer's recommendation
29	Stud bolts/Nuts	A193 Gr.B7/A 194 Gr.2H
30	Gland Packing	GRAFOIL
31	Anti-Static Device	SS302

DATASHEET FOR ISOLATION BALL VALVE 2''& ABOVE		
SR.NO	**DESCRIPTION**	**SPECIFICATION**
GENERAL		
1	Valve Size	2"& above
2	ANSI RATINGS	ANSI 150#/300#
3	Design Standards(**Guideline: PNGRB T4S Standard)**	API 6D (Latest)
4	Corrosion allowances	1.5mm
5	Design factor	0.4
SERVICE CONDITIONS		
6	Service	Natural Gas
7	Design Pressure	19 bar-g
8	Design Temp.	150# : -15 to 65ºC
9	Operating Pressure (maximum)	19 bar(g) /
10	Operation temp	150#: -10 to 50ºC
11	Fire safe design	API 607 APL 6 FA' (Latest)
VALVE CONSTRUCTION DESIGN		
12	Location	Above Ground
13	Valve type	FOR 150#, 6"ABOVE SHALL BE TRUNNION MOUNTED
14	Bore (Full/Reduced)	Full Bore
15	End Connection	Flange End (as per ASME B 16.5) Raised face
16	Locking Devices	Locking facility in full open Position
17	Shutoff Class	VI
18	Construction	Two/Three Piece Construction required
19	Bi-directional	Required
20	Double Block & Bleed	Applicable only for 600#
21	Blow out proof	Required
22	Anti-Static device	Required
23	Valve Operator	FOR 2" TO 4" – LEVER OPERATED FOR 6" AND ABOVE - GEAR OPERATED
24	Open and Close Ball position indicator	Required

VALVE MATERIAL SPECIFICATIONS		
	PART	**SPECIFIED MATERIAL**
25	Body	ASTM A 105
26	Ball (Solid)	ASTM A479 SS316/ASTM A351 grade CF8M + 80 micron ENP
27	Primary Seat	ASTM A479 SS316/ASTM A351 grade CF8M
27	Seat insert	RPTFE
28	Stem (Anti blow out)	ASTM A 479 SS 316 (No Casting)
29	Stem seals(Renewable with valve open on stream)	As per manufacture recommendation
30	Stud bolts	A 193 Gr.B7/A 194 Gr 2H
31	Anti-Static device	ASTM A 479 Gr. SS 302

DATASHEET FOR JUNCTION BOX		
GENERAL		
Sr.No.	**DESCRIPTION**	**SPECIFICATION**
1	Make	Vendor to specify
2	Enclosure	EX-d as per IS 2148/81
3	Protection	IP 67 as per IS 13947/93 (Part-1)
4	Area Classification	Gas Groups IIA IIB as per IS 21248/81
5	Material	Dia. Cast Aluminium alloy LM-6
6	Thickness	min 5 mm
7	Gasket	Endless, Moulded neoprene
8	Earthing	1 no. inside& 2 Nos. outside M6
9	Size	As per mfg. std.
10	Finish	Epoxy light grey shade as per IS-5
11	Painting	2 Coats of lead free base primer &2 Coats of Leadfree Epoxy base paint applied on both for interior and exterior Surface
12	Engraving	Engraved/internally cast on the cover isolate power supply elsewhere before opening
13	Cable Entry	Vendor to specify
14	Bottom Entry	Vendor to specify
15	Top Entry	Vendor to specify
16	Left Side Entry	Vendor to specify
17	Right Side Entry	Vendor to specify

DATASHEET FOR PAINTING			
SR. No.	**Technical Description**	**Filter, Pressure Safety Valve, Regulator, Creep Relief Valve, Ball Valve, Globe Valve, Check Valve, Base frame & Support**	**Piping**
GENERAL			
	Standard **(Guideline: PNGRB T4S Standard)**	IGE/TD/13	
1	Surface Preparation	SA 2.5 finish as per ISO 8501 - 1 and profile up to 50 to 80 micron	SA2.5 finish as per ISO 8501 -1 &profile up to 30 to 50 micron. After galvanizing sweep blast and profile up to 10 to 15 micron
		Blasting Surface shall be free from loose mill scale, rust, dirt, oil grease, any foreignparticles, etc.	Blasting Surface shall be free from loose mill scale, rust, dirt, oil grease, any foreign particles, etc.
2	Hot Dip galvanizing	Not Applicable	Thickness (micron) as per ASTM A153 for all pipe, pipe fittings and fasteners.
			□ Pipe Min. 86 micron
			Pipe Fittings Min. 86 Micron
			□ Fasteners-Min53 micron for more than 9.6 mm Dia
			Fasteners Min 43 micron for under 9.6 mm
3	Colour Coating	Primer Epoxy Based Zinc Primer 60 microns (min) thick	Finish Coat: Epoxy polyamide paint - 100 microns (min) thick/coat Two number of coat
		Intermediate Coat : Polyamide Epoxy- 80 microns (min) thick	
		Finish Coat: Acrylic polyurethane - 60 microns (min) thick	

		Total DFT : 200 microns (approx.)	Total DFT: 200 microns (approx.)- Excluding galvanizing DFT
4	Colour Code	Pipe Lines	Golden Yellow (IS 356)
		Structural Support	Smoke Grey: powder coating (IS 692)
		Ball, Globe, Check valves	Oxford Blue (IS 105)
		SSV, PCV	Oxford Blue (IS 105)
		CRV, PSV	Fire Red (IS 536)
		Filter	Silver or Smoke Grey(IS 628 or IS692)
		Canopy (Powder Coated)	Silver (RAL 7001)
5	MNGL Branding	Canopy	Eco solvent Print with 3mm PVC,1mm MS sheet fromboth sides No flexor Sticker accepted

NOTE:

1. Vendor shall prepare Internal report for surface preparation for all piping and shall be reviewed by TPI
2. Vendor shall prepare internal report for painting for all piping and shall be reviewed by TPI

DATASHEET FOR PRESSURE GAUGE		
SR.NO	**DESCRIPTION**	**SPECIFICATION**
GENERAL		
1	Type	Direct
2	Mounting	Local
3	Dial Size	100 mm
4	Standard(**Guideline: PNGRB T4S Standard)**	As Per IS 3624/EN 837
5	Design	Solid Baffle wall and blow out back as per EN837-1, Glycerine filled
6	Colour	Aluminium dial with black engraving
7	Case material	SS304
8	Bazel Ring	Vendor to Furnish
CONSTRUCTION		
9	Window material	Shatterproof Glass
7	Enclosure	IP 67
8	Pressure Element	C Type Bourdon Tube
9	Element Material	SS316
10	Socket material	SS316
11	Accuracy	±1% FSD
12	Connection	1/2" NPT (M)
13	Connection Location	Bottom
14	Movement	SS316
15	Over-Range Protection	130.00%
16	Blow out Protection	Required
11	Manifold	3 way 2 valve manifold
12	Make	Vendor to Furnish
13	Model	Vendor to Indicate
14	Fluid	Natural Gas
15	Make	As per MNGL approved vendor list
Note – Vendor Shall Provide Calibration Certificate		

DATASHEET FOR SEAMLESS FITTINGS		
SR.NO	**DESCRIPTION**	**SPECIFICATION**
GENERAL		
1	Size	AS per MNGL approved design Calculations.
2	Pressure Rating/Schedule No.	
2a	Butt-welded Fittings/Weld-O-let	STD/SX/XXS SCH.40, SCH 80, SCH160
3	Design Standards (**Guideline: PNGRB T4S Standard)**	ASME B 16.9/ASME B 16.11/MSS SP 75/MSS-SP 97/ASMEB1.20.1/ASME B16.48
4	Corrosion allowances	1.5mm
5	Design Factor	0.4
SERVICE CONDITION		
11	Service Fluid	Natural Gas
12	Design Pressure	19 Bar-g
13	Design temperature	1.150# = -15 to 65 deg. C
14	Operating Pressure (Max)	150# = 19 Bar G
15	Operating Temp	1) 150# = -10 to 50 deg C
CONSTRUCTION DESIGN		
16	Bevel Angle	ASME B 31.8
MATERIAL SPECIFICATION		
	Part	**Specified material**
17	Material Construction	ASTM A 234 GR WPB,ASTM A 105

DATASHEET FOR SOCKET WELDED AND THREADED GLOBE VALVE (BELOW 2''-800#)		
SR.NO.	**DESCRIPTION**	**SPECIFICATION**
1	Valve Size	Below 2"
2	Pressure class Rating	800#
3	Corrosion allowance	1.5 mm
4	Design Standard(**Guideline: PNGRB T4S Standard)**	BS EN ISO 15761
5	Design Factor	0.4
SERVICE CONDITIONS		
7	Service	Natural Gas
8	Design Pressure	138 Bar-g
9	Design Temperature	1. -15 to 65°C (for Operating pressure 19 bar-g) 2.-15 to 65°C (for Operating pressure 49 bar-g & 98 bar-g
10	Operating temp.	-10 to 50°C (for Operating pressure 19 bar-g) -10 to 50°C (for Operating pressure 42 bar-g & 98 bar-g)
11	Operating Pressure(Maximum)	Up to 19 Bar-g / 42 Bar-g/98 Bar-g
VALVE CONSTRUCTION DESIGN		
12	Location	Above Ground
13	End Connections	1. Socket Welded (As per ASME B 16.11) 2. Threaded-ASME B 1.20.1.
14	Body/ Bonnet connection	Bolted
VALVE MATERIAL SPECIFICATION		
	PART	**MATERIAL SPECIFICATIONS**
15	Body	ASTM A 105
16	Bonnet	A216 Gr. WCB
17	Stem (ANTI BLOW OUT)	ASTM A 479 Gr. SS 316 (No Casting)
18	Disc (Plug Type)	ASTM A 479 Gr. SS 316 Stellited

	PART	MATERIAL SPECIFICATIONS
19	Disc Nut	ASTM A 479 Gr. SS 316
20	Body Seat Ring	ASTM A 479 Gr. SS 316 Stellited
21	Gland/Gland Flange	ASTM A 479 Gr. SS 316
22	Gland Packing	GRAFOIL
23	Stem seals	As per Manufacturer's recommendation
24	Stud bolts/Nuts	A 193 Gr B7/A 194 Gr 2H
25	Bonnets Gasket Type	SP WND CNAF filler + Inner and Outer SS316 ring
26	Seat and back seat arrangement	Renewable
27	Screw type	OS & Y
29	Position indicator	Open and close indicator required
30	Hand wheel	CS/MS coated with PVC grip

DATASHEET FOR SWING TYPE CHECK VALVE			
Sr.No	**DESCRIPTION**	**SPECIFICATION**	
GENERAL			
1	Valve Type	Swing Check Valve	
2	Valve Size	Vendor to Furnish	
3	Valve Pressure Class	150# /300# / 600#	
4	Design Standard(**Guideline: PNGRB T4S Standard)**	API 6D	
SERVICE CONDITIONS			
		For 150#	**For 300# and 600#**
5	Service	Natural Gas	Natural Gas
6	Design pressure	19 Bar-g	49 bar-g/98 bar-g
7	Design Temperature	-15 to 65 °C	-.15 to 65 °C
8	Operating Temperature	-10 to 50 Deg. C	-.10 to 50 °C
9	Fire safe design	API 6 FA' 2008	
VALVE CONSTRUCTION			
10	Location	Above Ground	Above Ground
11	Corrosion Allowance	1.5	1.5
12	Shut off Class	IV	IV
13	End Connections	Flanged End (As per ASME B 16.5) as per piping material specification	
14	Flange Facing	RF-125 AARH (ASME B 16.5)	
MATERIAL OF CONSTRUCTIONS			
15	Body	ASTM A 216 Gr. WCB (Charpy test at 0 Deg C)	ASTM A 352 Gr. LCB/LCC
16	Cover	ASTM A 216 Gr. WCB (Charpy test at 0 Deg C)	ASTM A 352 Gr. LCB/LCC
17	Disc/Plates	ASTM A 216 Gr. WCB +13 Cr Steel	ASTM A 352 Gr. LCB/LCC + 13 Cr. Steel
18	Body Seat ring	ASTM A 216 Gr. WCB +13 Cr Steel	ASTM A 352 Gr. LCB/LCC + 13 Cr. Steel
19	Disc Hinge	ASTM A 216 Gr. WCB +13 Cr Steel	ASTM A 352 Gr. LCB/LCC + 13 Cr. Steel
20	Hinge pin	ASTM A 479 Gr. SS410/SS316	
21	Stud Bolts & Nuts	ASTM A 193 Gr. B7/ASTM A 194 Gr. 2H, Hot Dipped Galvanized as per ASTM A 153.	ASTM A 320 Gr.L7 NUT: ASTM Gr. 7, Hot Dip Galvanized as per ASTM A 153.
22	Gasket	SS316 Spiral Wound with CNAF Filter	
23	Spring	SS316	

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DATASHEET FOR WAFER TYPE CHECK VALVE (NRV) (2" & Above)			
SR.NO	**DESCRIPTION**	**SPECIFICATION**	
GENERAL			
1	Tag No.	Vendor to furnish	
2	Valve Size	Vendor to Furnish	
3	Make	As per MNGL Approved Specification.	
4	Service	Natural Gas	
5	Governing Standard(**Guideline: PNGRB T4S Standard)**	API 6D	
SERVICE CONDITION			
		For 150#	For 300# and 600#
6	Design Pressure and Class	19 bar-g	49barg/99 bar-g
7	Design Class	150#	300#/600#
8	Design Temperature	0 to 65°C	-10 to 65°C
9	Operating Pressure	As per P & ID	As per P & ID
10	Operating Temperature	0 to 50°C	-10 to 50°C
11	Fire safe design	API 6 FA' 2008	
CONSTRUCTION OF VALVE			
12	Location	Above ground	Above ground
13	Valve Type	Wafer Type	Wafer Type
14	End Connections	Sandwich type	Sandwich type
15	Flange facing	RF-125 AARH(ASME B 16.5),150#	RF-125 AARH(ASME B 16.5) 300#/600#
16	Shutoff Class	IV	IV
MATERIAL OF CONSTRUCTION			
17	Body of material	ASTM A 216Gr. WCB with Charpy Test at 0 °C	ASTM A352 Gr. LCB/LCC
18	Disc / Plates	ASTM A 217 Gr. CA15	ASTMA182 F6 (13% Cr Steel)
19	Body Seat Ring	ASTM A216 Gr WCB+13% Cr.Steel	ASTMA 352 Gr LCB/LCC +13% Cr.Steel
20	Disc Hinges	ASTM A217 Gr. CA15/SS 316/ASTM A352 Gr. LCB/ A352 Gr.LCB/A352 Gr. LCB	
21	Hinges Pin	ASTM A 479 Gr. SS410/SS 316	
22	Holder	SS316	
23	Clip	SS316	
24	Spring	SS316/Inconel X 750	

VALVE TESTING REQUIREMENTS		
25	Charpy Impact Test	All pressure containing part as per the MOC standard in case charpy test valve not specified in relevant codes and standards than charpy shall be carried at 0 °C and absorbed energy valves Shall be Average 35 J and Minimum 28 J Respectively
26	Hydro Test	
26a	Body Hydro	1.5X Design Pressure
26b	Seat Hydro	1.1 X Design Pressure
27	Marking and Painting	As per API 6D
28	Radiography	100% Applicable

DATASHEET RELIEF VALVES PROTECTION & SLAM SHUT VALVE		
SR. NO.	**MNGL SPECIFICATION**	**REQUIREMENTS**
RELIEF VALVE		
1	Relief Valve Protection	Against Downstream over pressure at low flows
2	Make	As per Approved vendor list
3	Type	As per Approved vendor list
4.	Maximum Capacity	1% of Stream fault capacity
5.	Standard (**Guideline: PNGRB T4S Standard)**	DIN 33821:2009 OR Equivalent
6.	Fire safe design	API 607 FA' 2008
SLAM SHUT VALVE		
6	Make	As per Approved vendor list
7	Type/Model	Vendor to Specify
8	Body	ASTM A216 Gr WCB or equivalent to suitable for with standing the pressure & temperature Requirements
9	Accuracy	As per EN 14382:2009
10	Connection	Flanged 150#
11	Standards	EN 14382:2009
12	Fire safe design	API 607 FA' 2008

DATASHEET OF TURBINE METER		
1	MAKE	VENDOR TO SPECIFY
2	TYPE / MODEL	VENDOR TO SPECIFY
3	ACCURACY	+/- 2% (Qmin-0.2Qmax), +/-1% (0.2Qmax-Qmax)
4	MAXIMUM INDEX READING	99999999 m3
5	REVOLUTION OF LAST COUNTER	1 m3
6	WORKING TEMP. RANGE	-10-50 Deg.C
7	METER HEAD	IP-67 PROTECTION, 8 DIGIT SILICA GEL UNIT
8	PULSE GENERATOR	LF & HF
9	APPROVAL	EN 12261/OIML R137 PART 1
10	CONNECTION	FLANGED END, ANSI 150#
11	SIZE	TO BE SPECIFIED BY VENDOR
12	REPEATABILITY	BETTER THAN +/- 0.2 %
13	CONSTRUCTION STANDARD	BS EN 12261:2002
14	STRAIGHTENER	AS PER PTB/EC TRG 13/WQUIVALENT
15	METER BODY	CORROSION RESISTANT STEEL OR OTHER SUITABLE MATERIAL FOR PRESSURE REQUIREMENT AND OUTDOOR INSTALLATION
16	MAX FLOW (M3/HR)	VENDOR TO SPECIFY FOR EACH TYPE
17	RANGABILITY	1: 20 OR BETTER

MAHARASHTRA NATURAL GAS LIMITED

FACTORY ACCEPTANCE TEST
PROCEDURE FOR
NATURAL GAS DISTRICT REGULATING STATION

DOCUMENTS NO. MNGL/FAT/DRS/2021

FOR TENDER PURPOSE ONLY

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1. INTRODUCTION

This document defines the procedure for Factory Acceptance Test (herein after referred to as FAT) to Be carried out for DRS. The purpose of carrying out FAT is to inspect, test and check the skid, fit for use purpose and desired functionality of entire skid with respect to MNGL approved technical documents.

2. SCOPE

FAT will confirm the compliance of DRS in accordance with the PNGRB Guidelines. The purpose of FAT is to check overall integration and functional tests in sequential manner of the PRV's, SSV's and CRV's with the overall skid. All the equipment/instruments/items shall be installed (as far as possible) for integration & functionality check during FAT. For items that are not erected or installed during FAT, list of such items along with reason for not installing the same to be provided before start of FAT.

All the equipment installed should have easy accessible for operation

3. REFERENCE DOCUMENTS

DOCUMENTS		REFERENCE NO.
1	P & ID	
2	GA Drawing-skid and filter	
3	Base frame and Foundation Drawing	
4	Canopy Drawing	
5	Painting specification	
6	Datasheet of PRV,SSV,CRV,EVC,METER	

B) COMMON DOCUMENTS

DOCUMENTS		REFERENCE NO.
1	Quality assurance plan-Mechanical items	
2	Quality assurance plan-Instrumentation Equipment	
3	Material Test certificate, Radiography test report, Hydrostatic test certificate	
4	Functional design specification and operation control logic	
Datasheet/Drawing of Equipment's:		
1	pressure gauge –Datasheet	
2	Differential Pressure gauge – Datasheet	
3	Ball valves-Datasheet and Drawing	
4	Check valves-Datasheet and Drawing	
5 6	Globe valves-Datasheet and Drawing Design Calculation of pipe sizing	

4. ORIENTATION WITNESSES

All Representatives shall be briefed on operating principles of the DRS package before commencing the FAT.

5. AUTHORITIES AND RESPONSIBILITIES

Performance and Execution of this procedure will be under the control of assigned discipline Engineers, Mechanical Production Manager and QA/QC Manager is responsible for the implementation of this procedure. Client/TPI shall witness FAT.

6. PRE-FACTORY ACCEPTANCE TEST

Visual inspection of the skid:

The skid will be inspected for installation of all components as per approved P&ID and G.A. Drawing. Dimensional checking shall be done as per approved GA drawing. The skid shall be inspected for the proper weld visual. The skid will be inspected for proper support with rubber pads/clamps for the major equipment /instruments and pipes and impulse lines. Calibration of all the instruments shall be confirmed by corresponding calibration certificates. The client shall review the calibration certificates for all instruments & gauges etc. Hydro test reports shall be Submitted before doing FAT.

Upon completion of the test mentioned in this mentioned in this documents, Test Certificate Should be filled with the results, reviewed and sign/stamped/approved by representative of all the parties- Vendor and TPI/Client.

Canopy & Base frame to be Checked as per Design & load Calculations.

7. TEST CERTIFICATES

Upon completion of the tests mentioned in this document, Test certificate should be fitted with the results, reviewed and signed/stamped/approved by representatives of all the parties-VENDOR and TPI/Client

8. FACTORY ACCEPTANCE TEST

a. PNEUMATIC LEAK TEST

Pneumatic leak test shall be carried out on completely erected skid using nitrogen.

1) Keep all valves open. Isolate inlet TF (Transition Fitting) spool and close either inlet or outlet side pipe with blind flange.

2) Check all drains and vents (Incl. any other openings on pressure containing part and equipment) are in closed position and safety valve inlets and intermediate line ball valves are in open condition

3) Charge air or nitrogen at 1-2 bar (g) from inlet and visually check all the joints of soundness.

4) Slowly increase the pressure in control manner by incremental steps of 2 bar (g) up to 7 bar (g).

5) After stabilization of pressure, the pressure holding period of 2 hours to be maintained.

6) Check all flanged and threaded joints using soap water and also inspect for any leakage at all isolation valve (Ball & Globe valves), joints, connections, impulse tubing or any other connection or any other part of skid. In case the leakage from skid or its part is noticed, the same shall be attended and corrected

9. FUNCTIONAL TEST

1. Set point of PRV-set the required pressure of PRV as per approved data sheet/approved P&ID.

2. Set point of SSV-increase the PRV pressure to cross the set point of SSV. The SSV should trip at set pressure value as per approved data sheet/approved P&ID.

3. Set Pressure for Regulating Skid: -

- **FOR OVER PRESSURE SHUTOFF VALVE (OPSO)–_____bar-g**
- **UNDER PRESSURE SHUTOFF VALVE(UPSO)-_____bar-g**
- **CREEP RELIEF VALVE (CRV) Set Pressure –_____bar-g**
- **CREEP RELIEF VALVE (CRV) Complete Open -_____bar-g**
- **CREEP RELIEF VALVE (CRV) Reset Pressure -_____bra-g**
- **PRESSURE CONTROL VALVE (PCV) –_____bar-g**

10. PAINTING

Painting shall be inspected as per approved painting procedure.

11. DOCUMENTS REVIEW

All the document to be checked after completion of all test. The document review shall minimum, but not limited to, cover material test certificates, Radiography test, Hydro test, certificate for Meters, pipe spools, calibration /test reports etc. for ball valves, PSV/CRV, SSV and meter shall be reviewed as per approved QAP for the equipment /Instruments. Calibration reports for PG, TG and DPG shall be reviewed and checked for traceability with standard reference.

TEST CERTIFICATE

VISUAL INSPECTIONS

Check points for District Regulating Station (DRS)

Note: Specify the Skid description, PO No. and system / job no. of skid for each skid

Sr. No.	Activity Description	TPIA Remarks
1	Check the list of components as per the approved P&ID and GAD.	
2	Check the dimension of skid as per the approved GAD and base frame details.	
3	Check that enough clearance should be provided between the components of the MRS, such that they do not obstruct or interfere or hamper the performance of any other component in the skid.	
4	Check that the inter distance between the two streams should have sufficient distance for maintenance (minimum 500 mm).	
5	Check that the distance on both side of piping assembly till the canopy should be 200 mm minimum.	
6	Check that minimum 250 mm distance should be maintained between vent points of filter, pilot of regulator and roof of canopy, so that the same cannot be hindered during the commissioning and maintenance activity.	
7	Check that all the vent and drains points shall be properly plugged.	
8	Check the orientation of pressure gauges with respect to the approved GAD, and check whether the range of the pressure gauge is appropriate to measure the intended operating pressure.	
9	Adequate cut-out should be provided at appropriate location on the cabinet such that the reading of the Pressure Gauge is easily visible from outside.	
10	Check that the proper support is provided for pilot of regulator, creep relief valve and for the vent line for CRV.	
11	Check all the ball valves must be marked with open and close indicator and check the valve operation by closing / opening the valve (by operating them), and that this operation is not obstructed by any component or part thereof.	
12	Check the marking of flow direction of gas in the piping system on both the streams of DRS.	
13	Adequate cut-out should be provided at appropriate location on the cabinet such that the reading of the counter of the Meter is easily visible from outside.	
14	Check whether a spade is provided in the inlet and standby stream of the MRS.	
15	The vent pipe of creep relief valve shall protrude from the side walls of the cabinet and not from the roof of the cabinet.	
16	Flame arrestor should be provided with proper protection (Cap, etc.) to prevent any ingress of water.	
17	Pasted Laminated P&ID inside the canopy (A2 size)	

18	The canopy should be fixed with a nameplate, which shall have the following information: Name of the Manufacturer: Material Code & Description of Skid: Purchase Order No. & Date: Inlet Pressure: Outlet Pressure: Filter Details: Inlet / Outlet connection, No. of Cartridges and Filter element dimension: Set points of Regulator, SSV and CRV: Job / System No.: Year of Manufacturing:	
19	Please check the details of each component of skid provided on the name plate of component and check the details of each component with the approved data sheet also.	
20	The canopy should be affixed with safety sticker, which give the following instructions in English and Marathi language: Danger – Inflammable Gas. MNGL Toll Free No.: Fire Brigade Tel. No.: 101 No Smoking or spark flame or naked flame within a radius of 3.0 meters.	
21	Witness the hydrotesting pressure test at 1.5 times of design pressure for 4 hours	
22	Witness the Pneumatic (leak test) at 7 bar (g) for 120 minutes.	
23	Witness the sets points of Regulators (Active and Monitor), Slam shut valve (under pressure shut off and over pressure shut off), Creep relief valves of both streams of DRS. Note – Test should be carried out by using Digital Pressure gauge (3 Decimal) only.	
24	Specify the marking / stamp provided by the TPIA on the skid.	
25	Check the list / details of the components (eg. foundation bolts, flame arrester, studs, bolts and gaskets, SSV handle etc.) which is going to be dispatched by the vendor along with the skid.	
26	Witness that the meter is functioning by checking that the counter is rotating properly for a flow of Qmax of the meter.	
27	Check that the meter is duly sealed by Department of Legal Metrology.	
28	Check that the information provided on the index of the meter is as per the requirements of MNGL technical specifications.	
29	Check the ease of operation (lever / gear handle) of inlet and outlet valves in the skid, by actually operating them.	
30	Check that the EVC is mounted in the piping assembly at an appropriate location and that the connections of the same with the meter are done correctly.	
31	Check that the impulse tubing is not obstructing the operation, installation or maintenance of any other component in the skid.	
32	Check that copper jumpers are provided as per the requirements	
33	Check the painting of the components / piping assembly / canopy is as per the requirements of MNGL technical specification.	

VENDOR **TPIA** **CLIENT**

TEST CERTIFICATE

DIMENSIONAL AND WEIGHT INSPECTION

Sr No.	POINTS INSPECTED	FOUND OK
1	Base frame Dimension As per Foundation drawing	YES/NO
2	Height of inlet pipe from base in mm-	YES/NO
3	Height of outlet pipe from base in mm-	YES/NO
4	Painting thickness of pipe line as per approved specifications	YES/NO
5	Length of cabinet/canopy	YES/NO

VENDOR **TPIA** **CLIENT**

TEST CERTIFICATE

HYDROSTATIC TEST

Project: DRS

Customer: Maharashtra Natural Gas Limited

PO.NO.

SYSTEM NO.

Sr No.	POINTS INSPECTED	FOUND OK
1	TPIA Inspection Reports for Hydro -Test for pipe spools ,as per approved procedure	YES/NO

VENDOR **TPIA** **CLIENT**

TEST CERTIFICATE

PNEUMATIC TEST OF COMPLETE SKID

Project: DRS

Customer: Maharashtra Natural Gas Limited

PO.NO.

SYSTEM NO.

Test Pressure:7.0 Bar(g)

Test media: Nitrogen

Duration: 120 minutes (post pressure stabilization)

Sr No.	POINTS INSPECTED	FOUND OK
1	LEAK TEST AT FLANGE JOINTS AND OTHER CONNECTIONS	YES/NO

VENDOR **TPIA** **CLIENT**

DOCUMENTS REVIEW

Project: DRS

Customer: Maharashtra Natural Gas Limited

PO.NO.

SYSTEM NO.

Sr No.	INSPECTION	CHECKED	REMARKS
1	Radiography test Reports as per approved QAP	Accepted/Rejected	
2	Dye penetration test as per approved QAP	Accepted/Rejected	
3	Test certificate for isolation ball valves, Globe Valve, check valve, filter, PG, DPG, pipe spools, canopy, etc.	Accepted/Rejected	
4	Hydro test report for pipe spools & for items as per Approved QAP	Accepted/Rejected	
5	Material test report as per approved QAP	Accepted/Rejected	
6	Calibration report for all instruments	Accepted/Rejected	
7	Welding procedure specification, Welder qualification.	Accepted/Rejected	
8	Compliance certification for painting of skid including all items (Filtration system,valves,etc.)	Accepted/Rejected	
9	Material correlation chart & Welding joints correlation chart	Accepted/Rejected	
10	Technical specification/datasheet/drawing/PO copy should be available for all bought out Items	Accepted/Rejected	

VENDOR **TPIA** **CLIENT**

SECTION-VII
PRICE SCHEDULE/
SCHEDULE OF RATES (SOR)

Schedule of Rates (SOR) / Item wise BOQ is enclosed separately on e-tendering portal. Following to be submitted along with Technical Bid duly filled in quoted / not quoted:

Item No.	Work Description	Qty. (No.)	Quoted / Not Quoted
BoQ1	1-Year Rate Contract for procurement of DRS Twin Stream 5,000 SCMH (150#) for **Pune GA.**	**03**	
BoQ2	1-Year Rate Contract for procurement of DRS Twin Stream 10,000 SCMH (150#) for **Pune GA.**	**05**	

Note:

1. Evaluation shall be done on item-wise least cost basis to the Purchaser & order shall be placed to L-1 bidder for each Item separately.

2. Bidder shall indicate the following rates considered in the prices indicated in the Price Schedule above.

3. Bidder shall note that any error in estimating these taxes & duties will be to Bidder's Account.

a. Goods & Service Tax @----------
Please indicate the breakup of above GST as under:
i) CGST @_____
ii) SGST @_____
iii) IGST @_____
iv) UGST @_____

Seal & Signature of Bidder