




MAHARASHTRA NATURAL GAS LIMITED
(MNGL)

TENDER DOCUMENT
FOR
LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE &
ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL
PLANT IN THE RAMANAGARA GA.

OPEN DOMESTIC
COMPETITIVE BIDDING
(THROUGH E-TENDERING MODE)

Bid Document No.: MNGL/CP/2024-25/176

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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VOLUME I OF III

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Tender Document No. : MNGL/CP/2024-25/176

Sl. No.	Description
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2)	Volume-II of III : Technical Specification & Standards (Mainline & Mechanical Works, Civil & Structural Work & Telecommunication Works and Tender Drawings)
3)	Volume-III of III : Tender Drawings



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PART A

1.0 INVITATION FOR BIDS (IFB)


BID DOCUMENT NO.: MNGL/CP/2024-25/176

Date: 13.02.2025

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/2024-25/176 dated 13.02.2025
ITEM(S)	TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.
TYPE OF BID	Open Domestic Competitive Bidding
TIME SCHEDULE	As per Annexure 3.0 to SCC (Technical), Vol I of III
EARNEST MONEY/ BIDSECURITY	Rs.2,00,000/- (Rupees Two Lakh Only) in the form of Demand Draft/BG/Online through e-portal to be in favour of "Maharashtra Natural Gas Ltd." payable at Pune.
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
Contact Details	Ramanagara GA Contact Person: Mr. Bhartendra Singh /Jaisal Rajawat Contact No.: 9557820978/7019694496
Pre-bid meeting date and time	<u>20.02.2025, 11:00 Hrs.</u> Video Conference link as below Video call link: https://meet.google.com/qhe-ntpv-uhs
Bid submission due date and time	06.03.2025 till 15:00 Hrs. IST
Bid Submission at	https://etenders.gov.in
Techno-commercial bid opening date and time	07.03.2025 at 16:00 Hrs. IST
Price bid opening date and time	Date and time shall be intimated later

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<p>Address for submission of EMD/Bid Security and venue for pre-bid meeting and opening of bids</p>	<p>General Manager (C&P) Department, Maharashtra Natural Gas Limited, Pride Purple Coronet, 2nd Floor, Baner Road, Baner, Pune - 411045</p>
<p>Contact details</p>	<p>Telephone: +91 (20) 25611000/1190/1155 Email: gasaid@mngl.in / neeraj@mngl.in</p>
<p>BIDDER ELIGIBILITY CRITERIA & BID EVALUATION CRITERIA</p>	<p>As per Annexure - I to IFB</p>

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 has to register itself on CPPP's website <https://etenders.gov.in/eprocure/app>. Please also note that the bidder has to obtain digital signature token for applying in the tender and in general, activation of registration may take 24 hours subject to the submission of all requisite documents required in the process.


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

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

3.0 DOWNLOADING OF TENDER DOCUMENT

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

Disclaimer clause: Bidders are advised to visit CPPP's e-tendering website and MNGL website regularly for any updates on the tender. The ignorance to visit the website will not

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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 subsequent to the pre-bid meeting.

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

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


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

Advisories for the bidders attending the pre-bid meeting:

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

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

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

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

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

5.0 OTHERS:

5.1 Bid Document is non-transferable.

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

5.3 The Bid Document calls for offers on single point "Sole Bidder" responsibility basis.

Order will be placed on the "Sole Bidder" alone (in whose name the bid document has been issued) who will be responsible for all contractual purposes.

Further the bidders are advised to ensure that their offer is on single bidder responsibility basis and in total compliance of scope of supply as specified in Bid Document.

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

5.5 Bidder shall ensure that Bid Security having a validity of 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 Contract/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.

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

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

THIS IS NOT AN ORDER


Yours faithfully,
for Maharashtra Natural Gas Limited, Pune

Ganesh Said
General Manager
(C&P)

Encl. 1. Vol.-I of III, Vol.-II of III & Vol.-III of III of the Bid Document.

Note:

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

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ANNEXURE-I to IFB

BIDDER'S ELIGIBILITY CRITERIA (BEC) FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.

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, Ramanagara, Sindhudurga, Nanded & Nizamabad Geographical Areas.


1.0 BRIEF PROJECT DETAILS

Tender for laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA.

2.0 SCOPE OF WORK:

This tender deals with laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA with sections as under:

Sr. No.	Sections	Stretch Details	Length (approx. kms)	Length (approx. kms)
			6"	4"
1	Section 1	Ms Harohalli To Near Sri Chamundeshwari Temple, Chathra	10	1.1
2	Section 2	Near Sri Chamundeshwari Temple, Chathra To Bamul Plant, Kanakapura	9	2
Total (kms)			19	3.1

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3.0 Bidder's Eligibility Criteria (BEC):

Following are the BEC parameters:

A) TECHNICAL:

- A.1 The Bidder should have laid, tested & commissioned underground 6" and above carbon steel pipeline as a main contractor for Natural gas in India in the last 5 years in a single contract (*), to be reckoned from the final bid submission date, of length as given below for qualification for the requisite number of section(s):

Sections	Eligibility Criteria
Section 1	Minimum 5.55 kms length
Section 2	Minimum 5.50 kms length

(*) In case more than one contract is emanating against one tender, all such individual contracts are to be considered as separate independent single contract for evaluation of credential of a bidder for meeting their experience criteria.

- A.2 Bidder may quote for more than one section, however bidders who intend to qualify for more than one section shall meet the qualifying requirement on cumulative basis for the quoted section(s) by producing maximum 1 (one) number of contracts i.e., summation of the length of the commissioned pipeline in the contract (in max. 1 no of contracts) is required to be same or more than the cumulative length required as per the quoted sections.
- A.3 Bidder must submit documentary evidence like Work Order/ Agreement and its Completion Certificate issued by Owner / Owner's Consultant showing the scope of work, length of pipeline commissioned (filled with natural gas and being used to transport natural gas) etc., in support to fulfil the criteria mentioned above.


B FINANCIAL:

B.1 Turnover

The bidder should have achieved a minimum annual turnover as under in any one of the last 3 (three) audited financial years i.e. **2021-22, 2022-23 and 2023-24:**

Section	Minimum Annual Turnover Requirement
Section 1	Rs. 232.5 Lakhs
Section 2	Rs. 230.0 Lakhs

Note: In case bidder quotes for more than one section, the requirement of Annual Turn Over shall be on cumulative basis for the quoted Section(s).

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B.2 Net worth

Net worth must be positive as per last audited financial statement i.e. for the year **2023-24**.

B.3 Working Capital

The bidder should have a minimum working capital as under as per latest audited financial statement i.e. for the **year 2023-24**.

Section	Minimum Working Capital requirement
Section 1	Rs. 46.5 Lakhs
Section 2	Rs. 46.0 Lakhs

Note: In case bidder quotes for more than one section, the requirement of Working Capital shall be on cumulative basis for the quoted Section(s).

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., **2021-22, 2022-23 & 2023-24** in support of the above.

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

2.3 Evaluation & award of contract:

The MNGL will evaluate and compare the bids, which are found to be techno-commercially qualified.

- The evaluation shall be carried out on "Section wise lowest (L1) cost Basis including applicable GST, for complete scope of work. The bidder must quote for all the items of SOR, otherwise bid offer shall be liable for rejection.**
- Maximum One section shall be awarded to a single bidder based on its meeting the eligibility criteria**
- If a bidder happens to be lowest in more than one section and has qualified for lesser number of Section(s), the entire work shall be finalized on Least cost basis to MNGL. Once a certain Section is considered for award to particular L-1 bidder (selected on least cost basis), the bid of that bidder will not be considered for the remaining Section(s).**


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Example:

Suppose one (1) bidder has participated in all sections, but techno-commercially qualified for any one (01) number of Section. After opening of price bid, if it is noted that such bidder is L1 in all the Sections, in such case, one (01) Section shall be awarded to this bidder on least cost basis. His bid will not be considered for the remaining Section(s).

Note MNGL reserves the right to negotiate the rates with L1 bidder before finalizing the award.

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. 2021-22, 2022-23 and 2023-24

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**Annexure- I to IFB
FORMAT-A**

ANNUAL TURNOVER

Applicant's Legal Name :

Date:
Tender
No.:

Page of

Each bidder must fill in this form (Single Entity)


Annual Turnover data for the last 3 audited financial years.

Year	Currency	Amount	Exchange Rate (*)	Amount (INR) (*)
Year 1:				
Year 2:				
Year 3:				

1. The information supplied should be the - Annual Turnover of the applicant.
2. A brief note should be appended describing details as per audited results.
3. Indicate Financial year if it is different from April to March.

Signature of Bidder

(*) To filled by Owner

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**Annexure- I to IFB
FORMAT-B**

FINANCIAL SITUATION

Applicant's Legal Name :

Date:

Tender No.:

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Each bidder must fill in this form

FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR


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

- Attached are copies of the audited balance sheets, including all related notes, and income statement for the last Audited Financial year, as indicated above, complying with the following conditions:

- All such documents reflect the financial situation of the bidder and not sister or parent companies.
- 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 period shall be requested or accepted).

Signature of Bidder

(*) Applicable for foreign bidders to be filled by Owner.

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2.0 ACKNOWLEDGEMENT CUM CONSENT LETTER

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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ACKNOWLEDGEMENT CUM CONSENT LETTER

To,
M/s. Maharashtra Natural Gas Limited
Pride Purple Coronet, 2nd Floor,
Baner Road, Baner,
Pune - 411045
Ph.No. : 91-20-25611000
E-mail : gasaid@mngl.in

Kind Attn: Shri Ganesh Said, General Manager (C&P)

Sub:

Dear Sir,


We hereby acknowledge receipt of complete set of Bid Document along with enclosures for the subject works. We understand that documents received remain property of M/s. Maharashtra Natural Gas Limited and further undertake that the contents of the above bid documents shall be kept confidential and shall not be transferred. We indicate below our intentions with respect to the Invitation for Bid.

- a) We intend to bid as requested and furnish following details with respect to our quoting office:-

- | | | | |
|------|----------------|---|-------|
| I) | POSTAL ADDRESS | : | _____ |
| | | | _____ |
| | | | _____ |
| II) | TELEPHONE NO. | : | _____ |
| III) | TELEFAX NO. | : | _____ |
| IV) | E-MAIL | : | _____ |
| V) | CONTACT PERSON | : | _____ |

- b) We are hereby returning the bid document as we are unable to bid for the reasons given below.

Reasons for non-submission of Bid:

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COMPANY'S NAME : _____

SIGNATURE : _____


NAME : _____

DESIGNATION : _____


DATE : _____

Note: Bidder is requested to furnish the details mentioned at (a) & (b) above as applicable, immediately after receipt of Bid Document.

(SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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3.0 SUBMISSION OF BID

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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SUBMISSION OF BID

From:

M/s

To:

M/s Maharashtra Natural Gas Limited


Pride Purple Coronet, 2nd Floor,

Baner Road, Baner,

Pune - 411045

Ph.No. : 91-20-25611000

1. I/We hereby tender for execution of the WORKS of **tender for laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA** as per TENDER DOCUMENT within the Time Schedule of completion of work for jobs, as separately signed and accepted by me/us, at the Schedule of Rates quoted by me/us for the whole work in accordance with Notice/Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates of Completion of Job, and other documents and papers, all as detailed in the Tender documents.
2. It has been explained to me/us that the time stipulated for jobs and completion of WORKS in all respects and in different stages mentioned in the "Time Schedule" of completion of jobs and signed and accepted by me/us in the essence of the CONTRACT. I/We agree that in the case of failure on my/our part to strictly observe the Time of Completion mentioned for jobs or any of them and to the Final Completion of WORK in all respects according to the schedule set out in the said "Time Schedule" of completion of jobs. I/We shall pay compensation to the OWNER as per provisions and stipulations contained in General Conditions of Contract and I/We agree to recovery being made as specified therein. In exceptional circumstances, extension of time which shall always be in writing may, however, be granted by the Engineer-in-Charge at his entire discretion for some items of work, and I/We agree that such extension of time will not be counted for the extension of completion dates stipulated for job and for the Final Completion of WORK as stipulated in the said "Time Schedule" of completion of jobs.

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3. I/We agree to pay the Earnest Money and Contract Performance Bank Guarantee (CPBG) and accept the terms and conditions laid down in the memorandum below in this respect.

MEMORANDUM

- (a) General Description of Work _____

- (b) Earnest Money Rs. _____
 (Rupees) _____

The Earnest Money is payable in the manner set out in para 5 below.


The Earnest Money, if the tender is accepted, will be adjusted against the Contract Performance Bank Guarantee (CPBG), when Earnest Money is paid by demand draft only.

- (c) Contract Performance Bank paid Guarantee (CPBG) **10 % of the CONTRACT amount which** will be in the manner set out in the General Conditions of Contract.

4. Should this tender be accepted, I/We hereby agree to abide by and fulfill all terms and conditions referred to above and in default thereof, to forfeit and pay to the OWNER or its successors or its authorized nominees such sums of money as are stipulated in conditions contained in General Tender Notice and other Tender Documents.

5. I/We hereby pay the Earnest Money of Rs. _____ (Rupees _____) in Bank Demand Draft/Bank Guarantee No. _____ issued by _____ (name and office of the State Bank of India or any Nationalized Bank) in favour of Maharashtra Natural Gas Limited, Pune.

6. If I/We fail to commence the work specified in the Memorandum in Para (3) above, or I/We to deposit the amount of Contract Performance Bank Guarantee (CPBG) specified in the Memorandum in (3) above, I/We agree that the said OWNER or its successors without prejudice to any other right or remedy be at liberty to forfeit the said Earnest Money in full, otherwise the said Earnest Money shall be retained by OWNER towards the Contract Performance Bank Guarantee (CPBG) specified in (3) above. The said OWNER shall also be at liberty to cancel the Notice of Acceptance of Tender if I/We fail to deposit the Contract

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Performance Bank Guarantee (CPBG) as aforesaid or to execute an Agreement or to start WORK as stipulated in the Tender Documents.

I/We enclose herewith evidence of my/our experiment of execution of works of similar nature and magnitude carried out by me/us in the prescribed proforma and also the Income- Tax Clearance Certificates.

Dated the_____day of_____2025


Witness:

Name in Block Letters:


Address:

Yours faithfully,
Signature of Tenderer(s) with the
seal of the Firm.

Name and Designation of authorized person signing the
Tender on behalf of the Tenderer(s).

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PART – B

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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1.0 INSTRUCTION TO BIDDERS (ITB)



 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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INSTRUCTIONS TO BIDDERS

INSTRUCTION FOR ONLINE BID SUBMISSION

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

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/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 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.

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SEARCHING FOR TENDER DOCUMENTS


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

PREPARATION OF BIDS:

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

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


- (ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- (iii) Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.
- (iv) Bidders should get ready in advance the bid documents in the required format (PDF/xls/rar/dwf/jpg formats) to be submitted as indicated in the tender document/schedule. **Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.**

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- (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.**

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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, there after 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” in the portal), the bidders shall **take print out of system generated acknowledgement** number and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.
- (xi)** Bidders should follow the server time being displayed on bidder’s dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.
- (xii)** All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.

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.

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- (ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24X7 CPP Portal Helpdesk. The 24 x 7 Help Desk Number 0120-4001002, 0120-6277787 and 0120-4001005. The helpdesk email id is support-eproc@nic.in

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A. GENERAL

1. Scope of Bid

- 1.1 The Employer, as defined in the General Conditions of Contract, hereinafter “the Employer”, wishes to receive bids for the Work as described in bidding document.
- 1.2 The successful bidder will be expected to complete the Works within the period stated in Special Conditions of Contract.
- 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 Bidders

- 2.1 Bidders shall, as part of their bid, submit duly executed power of attorney authorizing the signatory of the bid to bind the bidder.
- 2.2 This invitation for bid is open to any bidder.
- 2.3 A bidder shall not be affiliated with a firm or entity
 - (i) that has provided consulting services related-to the Works to the Employer during the preparatory stages of the Works or of the Project of which the Works form a part, or
 - (ii) that has been hired (or is proposed to be hired) by the Employer as Engineer/ Consultant for the contract.
- 2.4 The bidder shall not be under a declaration of ineligibility by Employer for corrupt or fraudulent practices as defined in ITB.
- 2.5 While evaluating the bids, pursuant to bid evaluation criteria in Global Notice of IFB, bidders and / or his sub-contractors past performance shall be assessed for ascertaining the responsiveness of the bid. In such case the decision of employer / consultant shall be final and binding on the bidder.
- 2.6 **The bidder is not Black / holiday list by MNGL/MoP&NG/Oil Public Sector Enterprise(s)**


3. Bid Evaluation Criteria:-

3.1 Technical

3.1.1 Experience Criteria - As per Annexure – I of IFB.

3.1.2 Equipment Deployment Criteria

The bidder shall meet the requirement regarding deployment and ownership of minimum critical construction equipment as specified in SCC Technical of the bidding document.

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3.2 Financial - As per Annexure – I of IFB

- 3.3 Bidder shall not be affiliated with a firm or entity, (i) that has provided consulting services related to Works to Employer during preparatory stages of Works or of the Project of which the Works form a part, or (ii) that has been hired (or is proposed to be hired) by Employer as Engineer/ Consultant for the contract.
- 3.4 Bidder shall meet the technical, as well as, commercial qualification criteria as stated above. Bidder shall furnish necessary documentary evidence such as LOA Copy/ Audited Financial Statement **(UDIN from CA is compulsory on financial document)** along with the bid, to justify meeting the stipulated qualification criteria. In absence of requisite documents as stated above, MNGL reserve the right to reject the bid without making any reference to the bidder.
- 3.5 .

4. Bids from Consortium – Not applicable

5. One Bid per Bidder

- 5.1 A firm shall submit only one bid in the same bidding process. A bidder who submits or participates in more than one bid will cause all the proposals in which the bidder has participated to be disqualified.
- 5.2 More than one bid means bid(s) by bidder(s) having same Proprietor / Partners / Limited Liability Partner in any other bidder(s). Further, more than one bids shall also include two or more bidders having common power of attorney holder.

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


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

6. Cost of Bidding

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

7. Site Visit

- 7.1 The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.
- 7.2 The bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof,

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and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

- 7.3 The Employer may conduct a Site visit concurrently with the pre-bid meeting.

B. BIDDING DOCUMENTS

8. Content of Bidding Document

- 8.1 The Bidding Documents/ Tender Documents should be read in conjunction with any addenda issued in accordance with ITB Clause 10.
Volume I of III
Volume II of III
Volume III of III

- 8.2 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. The Invitation for Bids (IFB) together with all its attachments thereto, shall be considered to be read, understood and accepted by the bidders. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at bidder's risk and may result in the rejection of his bid.


9. Clarification of Bidding Documents

- 9.1 A prospective bidder requiring any clarification of the Bid Documents may notify the Owner and / or the Consultant as the case may be, in writing or by email at the address indicated in the tender/RFQ. The Owner 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 prior to the pre-bid meeting date. Written copies of the Owner's response (including an explanation of the query but not necessarily identifying the source of inquiry) will be hosted on CPPP's e-tendering website <https://etenders.gov.in/eprocure/app> and official MNGL website www.mngl.in along with the corrigendum before the bid due date. All such clarifications issued shall deem to form a part and parcel of the Bid documents.

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

10. Amendment of Bidding Documents

- 10.1 At any time prior to the bid due date, Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender document, by issuing corrigendum.
- 10.2 Any addendum /corrigendum/ clarifications to bidders query thus issued shall be part of the bidding documents pursuant to ITB Clause-8.0 and shall be hosted on the MNGL's official website before bid due date. All the prospective bidders who have attended the Pre-Bid meeting till date shall be informed by email/ post about the addendum/ corrigendum/ clarifications to bidders query for their reference. Bidders desirous to submit

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its bid have to take into consideration of all the addendum(s)/ corrigendum (s)/ clarifications to bidders query hosted on the above websites before submitting the bid.

- 10.3 Bidders are advised to visit MNGL's websites and CPPP's e-tendering website from time to time to get updated information / documents.
- 10.4 In case of any inconsistency between an addendum and this tender document, the addendum shall prevail and in similar case between two or more addenda, the last issued addendum shall prevail.
- 10.5 The Purchaser may, at its discretion, extend the bid due date in order to allow prospective bidders, a reasonable time to furnish their most competitive bid taking into account the addenda / corrigenda issued.

C. PREPARATION OF BIDS

11. Language of Bid

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


12. Documents Comprising the Bid

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

12.1.1 Technical cover:

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

- i) Covering Letter as per format "Submission of Tender" / "Submission of Bid" enclosed with Part- A of Vol-I of II.
- ii) Bidder's general/ details information as per format F-1.
- iii) Power of Attorney in favour of person(s) signing the bid that such person (s) is/are authorized to sign the bid on behalf of the bidder and any consequence resulting due to such signing shall be binding on the bidder.
- iv) Specific experience, annual turnover and equipment deployment details as called for in qualifying requirements.
- v) A Bid Form as per format F-2.
- vi) Copies of documents as required in list of enclosure.
- vii) Documents establishing the eligibility and conformity to the Bid Documents of all Goods and services, which the bidder proposes to supply under the award. Such document may be, literature, drawing or data and shall also include (a) the detailed description of the Good's essential technical and performance characteristics; (b) a clause by clause commentary on Employer's technical

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specification and demonstrating supplies substantial responsiveness to the specifications.


- ix) Copy of Bid security in accordance with IFB & Clause 16 of ITB to be furnished either in the form of Cashier's / Banker's cheque / Bank Draft payable to MNGL at Pune/ Bank Guarantee as per format F-4.
- x) 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 on specified dates and venue as per format F-5.
- xi) Confirmation of no deviation as per Format F-6.
- xii) Present commitments strictly as per form F-9.
- xiii) **Indian Bidders are required to submit Employees Provident Fund registration certificate, ESIC registration certificate, Professional Tax Registration certificate, Labour welfare registration under Maharashtra Labour Welfare Fund Act and Shop Act Registration certificate.**
- xiv) Bidder's declaration that they are not under liquidation, court receivership or similar proceedings.
- xv) Any other information/details required as per bid document.

12.1.2 Financial cover:


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

- 12.2 All the documents submitted shall be duly signed and stamped on each page by the bidder or an authorized signatory of the bidder.
- 12.3 Bidders are advised to submit quotations based strictly on the terms and conditions and specifications contained in the bid document and not stipulate any deviations. Should it, however, become unavoidable, deviations should be stipulated only in the prescribed Pro forma. Owner reserves the right to evaluate quotations containing deviations having financial implications after adding the cost for such deviations as determined by Owner.
- 12.4 Original schedule of rates duly filled in shall not contain any condition whatsoever. Any condition given in this part shall not be considered and shall render the offer liable for rejection.
- 12.5 All signatures in bids shall be dated, as well as all pages of bids shall be initialed at lower right hand corner by the Bidder or by a person holding power of attorney authorizing him to sign on behalf of the bidder before the submission of bids.
- 12.6 The Bidder's bid is central to the evaluation and selection process. Therefore, it is important that the Bidder carefully prepares the bid and answers all questions completely. Missing information and vague answers may delay the evaluation of a bid and may impair the Bidder's chances of success.
- 12.7 Information received by Purchaser from the Bidder will be disclosed to Purchaser's employees and/or advisers or external consultants for the purpose of evaluating the bid response.

13. Bid Prices

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- 13.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole works as described in Bidding Document, based on the unit rates and prices submitted by the Bidder and accepted by the EMPLOYER.
- 13.2 Prices must be filled in format for 'Schedule of Rates' enclosed as part of Bidding Document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed; the bid is liable to be rejected.
- 13.3 Bidder shall quote for all the items of Schedule of Rates after careful analysis of cost involved for the performance of the completed item considering all parts of the Bidding Document. In case any activity though specifically not covered in description of item under 'Schedule of Rates' but is required to complete the works as per Scope of Work, Scope of supply, Specifications, Standards, Drawings, General Conditions of Contract, Special Condition of Contract or any other part of Bidding Document, the prices quoted shall deemed to be inclusive of cost incurred for such activity. Items against which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the SOR.
- 13.4 All duties and taxes including applicable Custom duty, Works Contract tax, Goods & Service Tax and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates and prices and the total bid price submitted by the bidder.
- 13.5 Prices quoted by the bidder, shall remain firm and fixed and valid until completion of the Contract and will not be subject to variation on any account except statutory variations in Goods & Service tax as mentioned below.
- Statutory variations in Goods & Service Tax on finished product during the contractual completion period, shall be to the Employer's account for which the Contractor will furnish documentary evidence(s) in support of their claims to MNGL. However, any increase in the rate of these taxes and duties beyond the contractual completion period shall be to Contractor's account and any decrease shall be passed on to MNGL.
- 13.6 The Bidder shall quote the prices both in figures as well as in words. There should not be any discrepancies between the price indicated in figures and the price indicated in words. In case of any discrepancy, the price indicated in words shall prevail over the price indicated in figure.
- 13.7 Alternative bids shall not be considered.
- 13.8 Conditional discount, if offered, shall not be considered for evaluation.
- 13.9 The bidder shall have to raise the Cenvatable invoice in the name of Director (Commercial), MNGL, Pune
- 14. Bid Currencies – VOID**
- 15. Bid Validity**
- 15.1 Bids shall be kept valid for 4 (four) month from the final bid due date.

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- 15.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing or by fax / e-mail. A bidder may refuse the request without forfeiture of his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of its bid security for the period of the extension and in accordance with Clause 16 in all respects.


16. Bid Security

- 16.1 Pursuant to Clause-5A, the bidder shall furnish, as part of his bid, bid security in the amount specified in the Invitation for Bids (IFB).
- 16.2 The bid security is required to protect MNGL against the risk of bidder's conduct which would warrant the security's forfeiture, pursuant to Clause-16.7
- 16.3 The bid security in Indian Rupees for bidders quoting in Indian currency shall be in the form of a Bank Draft/ Banker's Cheque/ Bank Guarantee.

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 a Bank Guarantee or irrevocable 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 in case of Indian bidder and from any reputed International bank or Indian scheduled bank in case of foreign bidder. Bid Security shall be valid for 2 months beyond the validity of the Bid.

- 16.4 Any bid not secured in accordance with Clause-16.1 and 16.3 may be rejected by MNGL as nonresponsive.
- 16.5 Unsuccessful bidder's bid security will be discharged/ returned as promptly as possible after award of contract and signing of agreement.
- 16.6 The successful bidder's bid security will be discharged upon the bidder's accepting the award & signing the Agreement, pursuant to Clause-39 and furnishing the Contract Performance Security pursuant to Clause-40.
- 16.7 The bid security may be forfeited:
- a) If a bidder withdraws his bid during the period of bid validity.
 - b) in the case of a successful bidder, if the bidder fails:
 - i) to accept the Notification of Award/Service Order (SO) or
 - ii) to furnish Contract Performance Security in accordance with Clause-40.
 - iii) to accept arithmetical corrections,
- 16.8 Bid Security should be in favour of Maharashtra Natural Gas Limited and addressed to MNGL. In case Bid Security is in the form of Bank Guarantee, the same must indicate the Bid Document and the work for which the bidder is quoting. This is essential to have proper co-relation at a later date. The Bid Security shall be in the form provided at F-4 (Bank Guarantee).

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

17. Pre-Bid Meeting – As per IFB

17.1 The bidder(s) or his designated representative, who have purchased bid document, are invited to attend a pre-bid meeting which will take place as indicated in IFB

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

17.3 Text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted without delay (without identifying the sources of the question) to all purchasers of the bidding documents. Any modification of the bidding documents listed in ITB Sub-Clause 8.1 that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 and not through the minutes of the pre-bid meeting.

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

18. Format and Signing of Bid


18.1 The original of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the bidder. The name and position held by each person signing, must be typed or printed below the signature. All pages of the bid except for unamended printed literature where entries or amendments have been made shall be initialed by the person or persons signing the bid.

18.2 The bid shall contain no alterations, omissions, or additions, unless 1 such corrections are initialed by the person or persons signing the bid.

19. Zero Deviation

19.1 Bidders shall note that if any deviation are taken to the under mentioned provisions of Bid Document by the Bidder the bid is liable to be rejection.

- i) Do not meet BEC Criteria
- ii) Bid Security
- iii) Performance Security (Contract Performance Bank Guarantee), 10% of Contract/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.

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

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

20. Mode of Payment

Online/RTGS/Cheque.

21. Agent/ consultant/ Representative/ Retainer/ Associate - VOID

D. SUBMISSION OF BIDS

22.0 DEADLINE FOR SUBMISSION OF BID

22.1 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.

22.2 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.

23.0 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.

24.0 MODIFICATION AND WITHDRAWAL OF BIDS

24.1 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.


24.2 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.

E. BID OPENING AND EVALUATION


25. Bid Opening

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- 25.1 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.
- 25.2 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.
- 25.3 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.
- 25.4 The Purchaser will prepare a bid opening statement to be signed by all representatives present during bid opening.
- 26. Process to be Confidential**
- 26.1 Information relating to the examination, clarification, evaluation and comparison of bids, and recommendations for the award of a contract, shall not be disclosed to bidders or any other persons officially concerned with such process. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of the bidder's bid.
- 27. Contacting the Employer**
- 27.1 From the time of bid opening to the time of Contract award, if any bidder wishes to contact the Employer on any matter related to the bid, it should do so in writing.
- 27.2 Any effort by the bidder to influence the Employer in the Employer's bid evaluation, bid comparison, or Contract award decisions may result in the rejection of the bidder's bid.
- 28. Examination of bids and Determination of Responsiveness**
- 28.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid
- meets the Bid Evaluation Criteria;
 - has been properly signed;
 - is accompanied by the required securities;
 - is substantially responsive to the requirements of the bidding documents; and
 - provides any clarification and/ or substantiation that the Employer may require to determine responsiveness pursuant to Sub-Clause 28.2.
- 28.2 A substantially responsive bid is one which conforms to all the terms, conditions and specifications of the bidding documents without material deviations or reservations. A material deviation or reservation is one
- that affects in any substantial way the scope, quality, or performance of the Works;

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- b) that limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the bidder's obligations under the contract; or
 - c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 28.3 If a bid is not substantially responsive, it will be rejected by the Employer and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.
- 29.0 OPENING OF PRICE BID**
- 29.1 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.
- 29.2 The bid prices stated in the price schedules will be announced during price bid opening.
- 30. Correction of Errors**
- 30.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
 - a) where there is a discrepancy between the amounts in words and in figures, the amount in words will govern; and
 - b) where there is a discrepancy between the unit rate and the total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 30.2 The amount stated in the bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the bid security shall be forfeited.
- 31. Conversion to Single Currency for Comparison of Bids - NOT APPLICABLE**
- 32. Evaluation and Comparison of Bids**
- 32.1 The evaluation and comparison of bids will be done as per the provisions of the bid evaluation criteria as per Annexure – I to ITB (to be separately enclosed along with bidding document against individual tenders).
- 33. Preference for Domestic Bidders - VOID**
- 34. Purchase Preference - VOID**
- 35. Compensation for extended stay - VOID**
- F. AWARD OF CONTRACT**
- 36. Award**

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- 36.1 Subject to Clause 29, MNGL will award the contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest, is determined to be qualified to satisfactorily perform the contract.

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

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

38. Notification of Award

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

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

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


Also, successful bidder has to ensure that purchase order (PO) of long lead items (i.e. fittings and flanges) is made available to MNGL within 10 days of Service Order. Failure to do so shall result in termination of contract.

39. Signing of Agreement

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

40. Contract Performance Security

- 40.1 Within 15 days of the receipt of the notification of award/ Service Order from MNGL, the successful bidder shall furnish the contract performance security in accordance with Article 24 of General Conditions of the Contract in the form provided in the bidding documents. The Contract Performance Security shall be in the form of either Banker's

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Cheque or Demand Draft or Bank Guarantee or Letter of Credit and shall be in the currency of the Contract.


40.2 The contract performance security shall be for an amount equal to **10% of the** value of the contract towards faithful performance of the contractual obligations and performance of equipment. This Bank Guarantee/ DD/ 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 shall be valid for a period as stated in Article-24 of General Conditions of The Contract.

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

41. Corrupt or Fraudulent Practices

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

- a) defines, for the purposes of this provision, the terms set forth below as follows:
 - i) "corrupt practice" means the offering, giving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition;
- b) will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- c) will declare a firm ineligible and put on holiday, either indefinitely or for a stated period of time if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a contract.

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42.0 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 (IV) 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.




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- 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. The Successful bidder shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
- VIII SUBMISSION OF CERTIFICATE IN BIDS: Bidder shall submit a certificate in this regard as Format F-18. 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.
- IX. The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution

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2.0 ANNEXURE TO INSTRUCTIONS TO BIDDERS (ITB)

CONTENTS

Sl. No.	Description
1)	Annexure-I : Bid Evaluation Criteria
2)	Annexure-II : List of Formats
3)	Annexure-III : Commercial Questionnaire
4)	Annexure-IV : Check List

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BID EVALUATION CRITERIA

{Annexure – I TO Instruction to Bidder (ITB)}

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EVALUATION / COMPARISON OF BIDS

- 1.0 The Employer will examine the bids to determine whether the bids are complete as per Check List, Stamped and signed on each page and are in order.

2.0 **EARNEST MONEY DEPOSIT**

The bids without requisite EMD and / or EMD not in the prescribed proforma will not be considered and bids of such bidders shall be rejected.

Note :

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

3.0 **DEVIATION TO STIPULATIONS**

“It may be noted that since this is zero deviation tender the bidder is advised to quote strictly as per terms & conditions of tender document & not to stipulate any deviation/ exception. Offers requesting deviation shall not be amended for further evaluation & shall be summarily rejected”.

4.0 **CONFORMANCE TO SCOPE OF WORK**

Bidder will be required to confirm to the Scope of Work as mentioned under Annexure-I to SCC, Schedule of Rates and Job Specification/ Technical Specifications.

5.0 **CONFORMANCE TO SCOPE OF SUPPLY**

Bidder will be required to confirm to the Scope of Supply as mentioned under Annexure - II to SCC, Schedule of Rates and Jobs Specification/ Technical Specifications.

6.0 **DETERMINATION OF RESPONSIVENESS**

The bid submitted by the bidder should be responsive to the requirements of the Bidding Document. A responsive bid is one which conforms to the terms, conditions and specifications of the Bidding Document and Bid Evaluation Criteria without **Deviation**.


- 7.0 Bidders are advised to quote strictly as per terms and conditions of the Bidding Document and not to stipulate any deviation/ exception as it is “No Deviation” tender. Offers with any Exception/ deviation shall be liable for rejection.

- 8.0 Bidder will be required to establish up to the satisfaction of Owner that the resources proposed to be deployed in Annexure – 9 & 10 of SCC (Technical) by the bidder are in conformity with the WORK REQUIREMENT.

The following requirement must be noted while submitting the resource deployment details.

i) Construction Equipments

Mechanized type of construction equipments should be considered. All requisite equipments such as cranes, diesel generators, compressors, welding machines, pumps, tractor-trailor, etc. shall be considered. Deployment of minimum equipments must be furnished as per Annexure – 9 to SCC (Technical).

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ii) Deployment of Supervisory/ Skilled Personnel


Bidder must furnish a site organization with qualified and experienced personnel in adequate numbers keeping in view the specific requirement for this work. Bidder will prepare & submit these details also keeping in view the minimum no. of skilled personal as per Annexure – 10 to SCC (Technical).

9.0 EVALUATION OF PRICE BIDS

- i) The price part of only those bidders will be evaluated whose bid is technically and commercially acceptable to Owner.
- ii) Quoted price for the complete scope of work and supply as per SOR shall be taken into account for arriving at the lowest evaluated price. Please refer Cl. No. 4.0 of Annexure - I to IFB for evaluation & Award of work.


10.0 BIDDERS MUST CHECK THAT THEIR BID IS COMPLETE IN ALL RESPECTS WITH ALL DETAILS AS PER VARIOUS FORMATS ENCLOSED IN INSTRUCTIONS TO BIDDERS, CHECK LIST AND COMMERCIAL QUESTIONNAIRE REPLIED

Issue of any technical/ commercial questionnaire or having any classificatory discussions, in general, is not envisaged. Bidders in their own interest must ensure that their bid is complete in all respects complying with the requirement of Instructions to Bidders and have furnished all details/ clarifications/ confirmations. Also note that all details/ documents shall be submitted in relevant SECTIONS and mentioned in CHECK LIST.

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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LIST OF FORMATS

{Annexure – II TO Instruction to Bidder (ITB)}

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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CONTENT

Sl. No.	Description
1)	F-1 : Bidder's General Information
2)	F-1A : Detail information about bidder (in case of open Tender)
3)	F-2 : Bid Form
4)	F-3 : List of Enclosures
5)	F-3A : Financial Detail
6)	F-4 : Proforma for Bank Guarantee for EMD/ Bid Security • Instruction for Furnishing Bid Guarantee/ Bank Guarantee
7)	F-5 : Letter of Authority
8)	F-6 : No Deviation Confirmation
9)	F-7 : Certificate
10)	F-8 : Details of Similar Work done during past five years
11)	F-9 : Present commitments of the Bidder
12)	F-10 : Proforma of Bank Guarantee for Contract Performance Security
13)	F-11 : Proposed Site Organization Chart
14)	F-12 : Construction Schedule with Bar Chart
15)	F-13 : Confirmation regarding schedule of labour rate
16)	F-14 : Confirmation regarding schedule of equipment rate
17)	F-15 : Rate for Extended Stay Compensation (Loading Schedule for Price Comparison Purpose)
18)	F-16 : Format for No Claim Certificate



**MAHARASHTRA
NATURAL GAS LIMITED**

TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL
PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE
BAMUL PLANT IN THE RAMANAGARA GA.

Bid No.: MNGL/CP/2024-25/176

F-1


BIDDER'S GENERAL INFORMATION

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

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

- 1.4 Operation Address : _____
if different from above _____
- 1.5 Telephone Number : _____
(Country Code) (Area Code) (Telephone No.)
- 1.6 E-mail address & Web Site : _____
- 1.7 Telefax Number : _____
(Country Code) (Area Code) (Telephone No.)
- 1.8 ISO Certification, if any : {If yes, please furnish details}


(SIGNATURE OF BIDDER WITH SEAL)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-1A
DETAILED INFORMATION ABOUT BIDDERS
(In case of open Tender)**

1. IN CASE OF INDIVIDUAL
 - 1.1 Name of Business
 - 1.2 Whether his business is registered
 - 1.3 Date of commencement of business
 - 1.4 Whether he pays Income Tax over Rs.10, 000/- per year
2. IN CASE OF PARTNERSHIP
 - 2.1 Name of Partners
 - 2.2 Whether the partnership is registered
 - 2.3 Date of establishment of firm
 - 2.4 If each of partners of the firm pays Income Tax over Rs.10,000/- per year and if so, which of them pays the same.
3. IN CASE OF LIMITED LIABILITY COMPANY OR COMPANY LIMITED BY GUARANTEE
 - 3.1 Amount of paid up capital
 - 3.2 Name of Directors
 - 3.3 Date of Registration of Company
 - 3.4 Copies of the balance sheet of the company of the last three years.

(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-2
BID FORM**

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

Dear Sir,
After examining/ reviewing the Bidding Documents for **tender for laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA** including technical specifications, drawings, General and Special Conditions of Contract and schedule of rates etc. The receipt of which is hereby duly acknowledged,

we, the undersigned, pleased to offer to execute the whole of the Job of **tender for laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA** and in conformity with, the said Bid Document, including Addenda Nos. (if any).

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

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

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


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

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

SEAL AND SIGNATURE
DATE: _____

Duly authorized to sign bid for and on behalf of _____

(SIGNATURE OF WITNESS)
WITNESS NAME:
ADDRESS:

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-3

LIST OF ENCLOSURES


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

Dear Sir,

We are enclosing the following documents as part of the bid:

1. Power of Attorney of the signatory to the Bidding Document.
2. QA/OC Manuals.
3. Health Safety and Environment (HSE) Policy and HSE Manual.
4. Document showing annual turnover for the last three years such as annual reports, profit and loss account, net worth etc. along with information as sought in enclosed format F-3A.
5. Organization chart of the bidder and the structure assigned for execution of the work under this bid.
6. Methodology of execution of work.
7. Execution schedule with interlinking of various activities.
8. Copy of Bidding Documents along with addendum/ corrigendum no. duly signed and sealed on each page, in token of confirmation that Bid Documents are considered in full while preparing the bid and in case of award, work will be executed in accordance with the provisions detailed in Bid Documents.

(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-3A
FINANCIAL DETAIL**

EACH BIDDER MUST FILL IN THIS FORM

a) Annual Turnover data for the last 3 years.

Year	Currency	Amount	Ex. Rate (*)	Amount (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 along with audited balance sheet with profit & loss account statement for the last 3 years.


b) Annual Net-worth data for the last 3 years.

Year	Currency	Amount	Ex. Rate (*)	Amount (INR) (*)
Year 1				
Year 2				
Year 3				

1. Net Worth = Reserves + Capitals - Accumulated Loss

(SEAL AND SIGNATURE OF BIDDER)

(*) To be filled by Employer

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Sheet 1 of 2

F-4

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT/ BID SECURITY

(To be stamped in accordance with the Stamp Act)

Ref:

Bank Guarantee No.

Date

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

Dear Sir(s),

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

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

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

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

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this
_____ day of _____ 2022 at _____.

WITNESS:

(SIGNATURE)

(NAME)

(OFFICIAL ADDRESS)

(SIGNATURE)


(NAME)

Designation with Bank Stamp

Attorney as per

Power of Attorney No. _____

Date: _____


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Sheet 2 of 2

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

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

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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-5
LETTER OF AUTHORITY
PROFORMA FOR LETTER OF AUTHORITY FOR ATTENDING AND SUBSEQUENT
NEGOTIATIONS/CONFERENCES**

No.:

Date:

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

Dear Sir,

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

1) Name & Designation_____ Signature_____

2) Name & Designation_____ Signature_____

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

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.

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

 MAHARASHTRA NATURAL GAS LIMITED	TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA. Bid No.: MNGL/CP/2024-25/176
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**F-6
NO DEVIATION CONFIRMATION**

(Tender/ Bid Document No. _____)

EXCEPTION AND DEVIATION STATEMENT

NAME OF WORK:

BID DOCUMENT NO. :


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

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

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

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____
& SEAL

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-7
CERTIFICATE**


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

Dear Sir,

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

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

(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-8
DETAILS OF SIMILAR WORK DONE DURING PAST FIVE YEARS

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


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

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

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

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

(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**F-9
PRESENT COMMITMENTS OF THE BIDDER**

Full Postal Address and phone nos. of Client & Name of Officer-in-charge	Description of Work	Date of Commencement of Work	Scheduled Completion Period	%Age Completion as on Date	Expected Date of Completion	Remarks

Note: This list must be a full list of all type of works in hand

(SEAL AND SIGNATURE OF BIDDER)



**MAHARASHTRA
NATURAL GAS LIMITED**

TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL
PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE
BAMUL PLANT IN THE RAMANAGARA GA.

Bid No.: MNGL/CP/2024-25/176

Sheet 1 of 2

F-10

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

TO:

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


Dear Sir,

M/s _____ have been awarded the work of
_____ for Maharashtra Natural Gas Limited, vide Service
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.

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Sheet 2 of 2


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

Yours faithfully,

_____ Bank

By its Constituted Attorney

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


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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F-11

PROPOSED SITE ORGANIZATION

The BIDDER is to indicate here the proposed site organization he proposes to set up for execution of the work. It is understood that this will be augmented from time to time depending on the requirements for timely completion of work, as directed by Engineer-in-Charge. The BIDDER is also to furnish the Bio-data of Site-in-Charge and key personnel to be deployed at site.

(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-12

CONSTRUCTION SCHEDULE WITH BAR CHART

Bidder shall submit Construction Schedule with Bar Chart for complete work covering all the following activities of work as applicable for TCP & PCP System.

- 1) Mobilisation :
- 2) Route Survey :
- 3) Design package Submission & :
Approval
- 4) Ordering for Supply Materials :
- 5) Supply of Material at site :
- 6) Installation :
- 7) Testing :
- 8) Commissioning :
- 9) Other Miscellaneous Works :
- 10) Hydro-test :
- 11) Commissioning :
- 12) Others, if any :

(SEAL AND SIGNATURE OF BIDDER)


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-13

CONFIRMATION REGARDING SCHEDULE OF LABOUR RATES

We accept Schedule of Labour Rates attached as Annexure-11 to SCC and also confirm acceptance for using the same for analysing rates for extra items as per Clause No. 60.0 of GCC.

(SEAL AND SIGNATURE OF BIDDER)


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-14

CONFIRMATION REGARDING SCHEDULE OF EQUIPMENT RATES

We accept Schedule of Equipment Rates attached as Annexure-12 to SCC and also confirm acceptance for using the same for analysing rates for extra items as per Clause No. 60.0 of GCC.


(SEAL AND SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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F-15

RATE FOR EXTENDED STAY COMPENSATION

Not Applicable

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-16

Format for No Claim Certificate
[On the Letter-head of Contractor]

NO CLAIM CERTIFICATE

We, _____, a company incorporated under the laws of India, having its Registered Office at _____ and carrying on business under the name and style M/s. _____ were awarded the Contract by Maharashtra Natural Gas Ltd. in reference to Tender No. _____ dated_.

After completion of the above said Work under the contract, we have scrutinized all our claims, contentions, disputes, issues with the project officials and we hereby confirm that after adjusting all payments received by us against our R.A. Bills, our balance entitlement under the contract is to a sum of Rs. _____ (Rupees _____ only) as per our Final Bill dated _____ towards full and final settlement of all our claims, dues, issues and contentions from Maharashtra Natural Gas Ltd.


We confirm and declare that with the receipt of aforesaid monies, all our claims, dues, disputes, differences between M/s. _____ and Maharashtra Natural Gas Ltd. under and with reference to above said contract stands fully and finally settled.

We further absolve Maharashtra Natural Gas Ltd. from all liabilities present or future arising directly or indirectly out of the contract.

We further confirm that the present settlement has been arrived at after mutual negotiations and is freely and fairly entered into between the parties. There is no economic duress or any other compulsion on us in entering into this settlement.

Signature with Seal of Contractor

Dated :

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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F-17

**Real Time Gross Settlement (RTGS)/ National Electronic fundtransfer (NEFT)
Mandate Form**

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:

We hereby authorize Maharashtra Natural Gas Limited 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 Maharashtra Natural Gas Limited 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)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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F-18

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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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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 Raod, 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 volumes, 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 hereby declare that our Firm has not been 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)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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COMMERCIAL QUESTIONNAIRE

{Annexure - III to Instruction to Bidder (ITB)}


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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COMMERCIAL QUESTIONNAIRE


Note:

- 1) The Bidder shall submit reply to each query.
- 2) The bidder's reply/ confirmation as furnished in the Commercial Questionnaire (CQ) shall supercede the stipulation mentioned elsewhere in the Bid.

Sl. No.	MNGL's Query	Bidder's Reply/ Confirmation
1.	Confirm that your Bid is valid for 4(four) month from the last date of submission of Bid.	
2.	Confirm that all details in unpriced part have been submitted. Bidding Document and drawings, signed and stamped on each page shall be submitted in original on e-tendering portal	
3.	Confirm that the following documents are submitted with Part-I :	
i)	All documents in relevant Section as per CHECK LIST	
ii)	Schedule of Rates/ Prices without specifying the rates/ prices are submitted in unpriced part, exactly as per the priced portion submitted in Part-II. In case some of items have not been quoted, such items should be identified in blank price format.	
iii)	Addendum duly signed and stamped on each page as a token of acceptance (applicable if issued).	
iv)	Confirm Acceptance of Labour rates submitted as per Annexure-11 of SCC.	
4.	Confirm that price has been submitted in 1 ORIGINAL only on e-tendering portal as per tender	
5.	Rates/ amount must be filled in format for 'Schedule of Rates' enclosed as part of Bidding Document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed, the bid is liable to be rejected. In any case, Bidder shall be presumed to have quoted against the tendered description of work and the same shall be binding on the Bidder. Please confirm.	
6.	Confirm that deviation/ terms & conditions are not mentioned in the price part. In case any terms and condition is mentioned in the price part, the same shall be treated as null and void.	
7.	Confirm that correction fluid is not used in the price part. (In case of any correction, the same shall be signed and stamped by authorized signatory).	
8.	Confirm that you have studied complete Bidding Document including Technical and commercial part and your Bid is in accordance with the requirements of the Bidding Document.	
9.	Confirm your compliance to total Scope of Work mentioned in the Bidding Document.	
10.	Confirm your acceptance for 'Scope of Supply' as mentioned in Bidding Document.	
11.	Confirm your compliance to critical stipulations of tender document as mentioned below	
i	Defect Liability Period clause no. 80.0 of GCC	
ii	Contract Performance Security - clause no. 24.0 of GCC	
iii	Schedule of Rates - clause no. 87.0 of GCC	


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Sl. No.	MNGL's Query	Bidder's Reply/ Confirmation
iv	Arbitration - clause no. 107.0 of GCC	
v	Termination - Clause nos. 32.0 A & B of GCC	
vi	Terms of Payment - as per Annexure-5 to SCC Technical	
vii	Price Reduction Schedule - Clause no. 27 of GCC	
12.	Confirm your acceptance for 'Time Schedule' as per Annexure – 3 to SCC (Technical).	
13.	Confirm that your quoted price includes following taxes/ duties, insurance etc.	
i)	All taxes, charges and duties assessed or levied in respect of profits earned or income receivable by the Contractor by reason of this Contract.	
ii)	All taxes, duties as per applicable for this WORK in accordance with the provision of General Conditions of Contract and Special Conditions of Contract.	
iii)	All types of insurance as per the provisions of General Conditions of Contract and Special Conditions of Contract.	
14.	Confirm that you have proposed adequate project/ site organization with qualified supervisory personnel having requisite experience including personnel responsible for safety, planning stores, QA/ QC etc.	
15.	Confirm that all costs resulting from safe execution of WORK, such as safety induction, use of protective clothing, safety glasses and helmet, safety precaution taken during monsoon, or any other safety measures to be undertaken by the Contractor for execution of work are included in the quoted rates.	
16.	Confirm the following :	
i)	The planning schedule, manpower estimates, construction equipment deployment schedule etc., submitted by the bidder with his Bid, are indicative and shall not be basis for extra compensation in case actual needs are higher.	
ii)	Detailed planning schedule developed by CONTRACTOR after contract award may be subject to fluctuations depending upon actual progress of the project and available work front.	
iii)	Co-ordination and making available by Contractor of all staff, manpower, construction equipment, tools, cranes, etc. and materials are required for a timely completion of all WORK as per Owner's construction and priority schedule and in accordance with the available work front are included in the quoted rates.	
iv)	Bio-Data of Key Personnel(s), such as Project Manager, Construction Manager, Lead Engineer for all relevant categories have been submitted in your Bid.	
17.	Please confirm that the deployment schedule of supervisory personnel(s) & deployment schedule of construction equipment shall be reviewed and firmed up after award of work	
18.	Please confirm the rate schedule of extra works and recovery rate of equipment as per Annexure – 12 to SCC Technical is acceptable to you.	

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Sl. No.	MNGL's Query	Bidder's Reply/ Confirmation
	<p>Note: Please note that Schedule of Rates/ Prices embodied in the Bidding Document is deemed to include all activities of work specified under Scope of Work, Scope of Supply, technical specifications, Conditions of Contract, drawings or any other document forming part of Bidding Document, irrespective of whether such activities of work are specified in the Schedule of Rates/ Prices or not.</p>	

(STAMP & SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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CHECK LIST

{Annexure - IV to Instruction to Bidder (ITB)}


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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CHECK LIST FOR SUBMISSION OF BID

Bidder is requested to fill this check list and ensure that all details/ documents have been furnished as called for in the Bidding Document along with duly filled in, signed & stamped **check list with each copy of the “Unpriced Part”** of his bid.


OTHER ESSENTIAL DOCUMENTS REQUIRED (to be submitted by the bidder)

SI No.	Tender Clause/Item	Documents Required	Submitted (Yes/No)	Reference in Offer (Refer Page No.)
1.	Letter of Submission	As given in Part-A of the tender document		
2.	EMD/ BID GUARANTEE/ BID SECURITY	As per Tender Proforma F-4 of ITB		
3.	Past Similar work done during last five years	As per Format : F-8 of ITB		
4.	Present Commitments	As per Format : F-9 of ITB		
5.	PF & ESIC Registration Certificate	Relevant documents		
6.	Goods & Service Tax Registration Certificate	Relevant documents		
7.	Power of Attorney in favour of the person who has signed the bid on stamp paper of appropriate value.	Valid power of Attorney		
8.	Partnership Deed in case of partnership firm and Article of Association in case of limited company.	Relevant documents		
9.	Deployment List of Supervisory personnel.	As per tender		
10.	Minimum No. of major equipment	As per Annexure-9 of SCC(Technical).		
11.	Minimum no. of skilled labour	As per Annexure-10 of SCC(Technical)		
12.	A Tentative Quality Assurance Plan in line with Spec. and Format	As per Annexure-6 to SCC (Technical)		
13.	Site Organisation Chart	As per Format - F-11 of ITB		
14.	Bio-Data of key supervisory personnel such as Project Manager, Construction Manager,QA/ QC Manager, lead engineer, site engineer etc.:	Bio-data of all key supervisory personal to be deployed		
15.	An overall schedule in the form of Bar Chart	As per format-12		
16.	Schedule of Labour Rates	As per Format - F-13 & Annexure-11 of SCC(Technical)		

 MAHARASHTRA NATURAL GAS LIMITED	TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA. Bid No.: MNGL/CP/2024-25/176
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SI No.	Tender Clause/Item	Documents Required	Submitted (Yes/No)	Reference in Offer (Refer Page No.)
17.	Schedule of equipment rates, Rate for Extra work and recovery rate of equipment.	As per Format - F-14 & Annexure-12 of SCC(Technical)		
18.	Health Safety and Environment (HSE) Policy and HSE Manual.	As per Annexure-7 of SCC (Technical)		
19.	A copy of SOR (without prices) duly signed & stamped as per SOR Format	-		
20.	Original copy of Bidding Document & Drawings alongwith Addendum, if any, has been submitted alongwith offer, duly signed and stamped on each page			
21.	No Deviation Confirmation	As per Format - F-6 of ITB		
22.	Reply to commercial questionnaire, with Bidder's reply/ confirmation	As per Annexure-III to ITB		

(STAMP & SIGNATURE OF BIDDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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PART-C

GENERAL CONDITIONS OF CONTRACT (GCC-WORKS)


 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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	equipment, materials, labour etc.
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 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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ANNEXURES TO GCC

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 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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General Conditions of Contract


Section- I. Definitions

1. Definition of Terms:


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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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- 1.1.10 The "SPECIFICATION" shall mean all directions the various technical specifications, provisions attached and referred to the Tender Documents which pertain to the method and manner of performing the work or works to the quantities and qualities of the work or works and the materials to be furnished under the CONTRACT for the work or works, as may be amplified or modified by the MNGL or ENGINEER-IN-CHARGE during the performance of CONTRACT in order to provide the unforeseen conditions or in the best interests of the work or works. It shall also include the latest edition of relevant Standard Specifications including all addenda/corrigenda published before entering into CONTRACT.
- 1.1.11 The "DRAWINGS" shall include maps, plans and tracings or prints or sketches thereof with any modifications approved in writing by the ENGINEER-IN-CHARGE and such other drawing as may, from time to time, be furnished or approved in writing by the ENGINEER-IN-CHARGE.
- 1.1.12 The "TENDER" means the proposal along with supporting documents submitted by the CONTRACTOR for consideration by the EMPLOYER.
- 1.1.13 The "CHANGE ORDER" means an order given in writing by the ENGINEER-IN-CHARGE to effect additions to or deletion from and alteration in the works.
- 1.1.14 The "COMPLETION CERTIFICATE" shall mean the certificate to be issued by the ENGINEER-IN-CHARGE when the works have been completed entirely in accordance with CONTRACT DOCUMENT to his satisfaction.
- 1.1.15 The "FINAL CERTIFICATE" in relation to a work means the certificate regarding the satisfactory compliance of various provision of the CONTRACT by the CONTRACTOR issued by the ENGINEER-IN-CHARGE/ EMPLOYER after the period of liability is over.
- 1.1.16 "DEFECT LIABILITY PERIOD" in relation to a work means the specified period from the date of COMPLETION CERTIFICATE up to the date of issue of FINAL CERTIFICATE during which the CONTRACTOR stands responsible for rectifying all defects that may appear in the works executed by the CONTRACTOR in pursuance of the CONTRACT and includes warranties against Manufacturing/Fabrication/ Erection/Construction defects covering all materials plants, equipment, components, and the like supplied by the CONTRACTOR, works executed against workmanship defects.
- 1.1.17 The "APPOINTING AUTHORITY" for the purpose of arbitration shall be the MANAGING DIRECTOR or any other person so designated by the EMPLOYER.
- 1.1.18 "TEMPORARY WORKS" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of works.
- 1.1.19 "PLANS" shall mean all maps, sketches and layouts as are incorporated in the CONTRACT in order to define broadly the scope and specifications of the work or works, and all reproductions thereof.
- 1.1.20 "SITE" shall mean the lands and other places on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the EMPLOYER for the purpose of the CONTRACT.

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- 1.1.21 "NOTICE IN WRITING OR WRITTEN NOTICE" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the addressee and shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.1.22 "APPROVED" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "APPROVAL" means approval in writing including as aforesaid.
- 1.1.23 "LETTER OF INTENT/FAX OF INTENT/SERVICE ORDER" shall mean intimation by a Fax/Letter to Tenderer(s) that the tender has been accepted in accordance with the provisions contained in the letter.
- 1.1.24 "DAY" means a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- 1.1.25 "WORKING DAY" means any day which is not declared to be holiday or rest day by the EMPLOYER.
- 1.1.26 "WEEK" means a period of any consecutive seven days.
- 1.1.27 "METRIC SYSTEM" - All technical documents regarding the construction of works are given in the metric system and all work in the project should be carried out according to the metric system. All documents concerning the work shall also be maintained in the metric system.
- 1.1.28 "VALUE OF CONTRACT" or "TOTAL CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the prices accepted in tender and/or the CONTRACT rates as payable to the CONTRACTOR for the entire execution and full completion of the work, including change order.
- 1.1.29 "LANGUAGE FOR DRAWINGS AND INSTRUCTION" All the drawings, titles, notes, instruction, dimensions, etc. shall be in English Language.
- 1.1.30 "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction 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.
- 1.1.31 "COMMISSIONING" shall mean pressing into service of the system including the plant(s), equipment(s), vessel(s), pipeline, machinery (ies), or any other section or sub-section of installation(s) pertaining to the work of the CONTRACTOR after successful testing and trial runs of the same.

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

Section-II General Information

2. General Information

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

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

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


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

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


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

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

2.4 Power Supply:

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- 2.4.1 Subject to availability, EMPLOYER will supply power at 400/440 V at only one point at the nearest sub-station, from where the CONTRACTOR will make his own arrangement for temporary distribution. The point of supply will not be more than 500 m away from the CONTRACTOR'S premises. All the works will be done as per the applicable regulations and passed by the ENGINEER-IN-CHARGE. The temporary line will be removed forthwith after the completion of work or if there is any hindrance caused to the other works due to the alignment of these lines, the CONTRACTOR will re-route or remove the temporary lines at his own cost. The CONTRACTOR at his cost will also provide suitable electric meters, fuses, switches, etc. for purposes of payment to the EMPLOYER which should be in the custody and control of the EMPLOYER. The cost of power supply shall be payable to the EMPLOYER every month for Construction Works power which would be deducted from the running account bills. The EMPLOYER shall not, however, guarantee the supply of electricity nor have any liability in respect thereof. No claim for compensation for any failure or short supply of electricity will be admissible.
- 2.4.2 It shall be the responsibility of the CONTRACTOR to provide and maintain the complete installation on the load side of the supply with due regard to safety requirement at site. All cabling, equipment, installations etc. shall comply in all respects with the latest statutory requirements and safety provisions i.e., as per the Central/State Electricity Acts and Rules etc. The CONTRACTOR will ensure that his equipment and Electrical Wiring etc., are installed, modified, maintained by a licensed Electrician/Supervisor. A test certificate is to be produced to the ENGINEER-IN-CHARGE for his approval, before power is made available.
- 2.4.3 At all times, IEA regulations shall be followed failing which the EMPLOYER has a right to disconnect the power supply without any reference to the CONTRACTOR. No claim shall be entertained for such disconnection by the ENGINEER-IN-CHARGE. Power supply will be reconnected only after production of fresh certificate from authorized electrical supervisors.
- 2.4.4 The EMPLOYER is not liable for any loss or damage to the CONTRACTOR's equipment as a result of variation in voltage or frequency or interruption in power supply or other loss to the CONTRACTOR arising there from.
- 2.4.5 The CONTRACTOR shall ensure that the Electrical equipment installed by him are such that average power factors does not fall below 0.90 at his premises. In case power factor falls below 0.90 in any month, he will reimburse to the EMPLOYER at the penal rate determined by the EMPLOYER for all units consumed during the month.
- 2.4.6 The power supply required for CONTRACTOR's colony near the plant site will be determined by the EMPLOYER and shall be as per State Electricity Board's Rules and other statutory provisions applicable for such installations from time to time. In case of power supply to CONTRACTOR's colony, the power will be made available at a single point and the CONTRACTOR shall make his own arrangement at his own cost for distribution to the occupants of the colony as per Electricity Rules and Acts. The site and colony shall be sufficiently illuminated to avoid accidents.
- 2.4.7 The CONTRACTOR will have to provide and install his own lights and power meters which will be governed as per Central/State Government Electricity Rules. The meters shall be sealed by the EMPLOYER.

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- 2.4.8 In case of damage of any of the EMPLOYER's equipment on account of fault, intentional or unintentional on the part of the CONTRACTOR, the EMPLOYER reserves the right to recover the cost of such damage from the CONTRACTOR's bill. Cost of HRC Fuses replaced at the EMPLOYER's terminals due to any fault in the CONTRACTOR's installation shall be to CONTRACTOR's account at the rates decided by the ENGINEER-IN-CHARGE.
- 2.4.9 Only motors up to 3 HP will be allowed to be started direct on line. For motors above 3 HP and up to 100 HP a suitable Starting device approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR. For motors above 100 HP slip ring induction motors with suitable starting devices as approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR.
- 2.4.10 The CONTRACTOR shall ensure at his cost that all electrical lines and equipment and all installations are approved by the State Electricity Inspector before power can be supplied to the EMPLOYER.
- 2.4.11 The total requirement of power shall be indicated by the tenderer along with his tender.
- 2.5 Land for Contractor's Field Office, Godown and Workshop: The EMPLOYER will, at his own discretion and convenience and for the duration of the execution of the work make available near the site, land for construction of CONTRACTOR's Temporary Field Office, godowns workshops and assembly yard required for the execution of the CONTRACT. The CONTRACTOR shall at his own cost construct all these temporary buildings and provide suitable water supply and sanitary arrangement and get the same approved by the ENGINEER-IN-CHARGE.

On completion of the works undertaken by the CONTRACTOR, he shall remove all temporary works erected by him and have the SITE cleaned as directed by ENGINEER-IN-CHARGE. If the CONTRACTOR shall fail to comply with these requirements, the ENGINEER-IN-CHARGE may at the expenses of the CONTRACTOR remove such surplus, and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid; and CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus materials disposed off as aforesaid. But the EMPLOYER reserves the right to ask the CONTRACTOR any time during the pendency of the CONTRACT to vacate the land by giving 7 days notice on security reasons or on national interest or otherwise. Rent may be charged for the land so occupied from contractor by the Employer.

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

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

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

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

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

Section-III. General Instructions to Tenderers

3. Submission of Tender:

- 3.1 TENDER must be submitted without making any additions, alterations, and as per details given in other clauses hereunder. The requisite details shall be filled in by the TENDERER at space provided under "Submission of Tender at the beginning of GCC of Tender Document. The rate shall be filled only in the schedule given in this Tender Document.
- 3.2 Addenda/Corrigenda to this Tender Document, if issued, must be signed, submitted along with the Tender Document. The tenderer should write clearly the revised quantities in Schedule of Rates of Tender Document and should price the WORK based on revised quantities when amendments of quantities are issued in addenda.
- 3.3 Covering letter along with its enclosures accompanying the Tender Document and all further correspondence shall be submitted in duplicate.
- 3.4 Tenderers are advised to submit quotations based strictly on the terms and conditions and specifications contained in the Tender Documents and not to stipulate any deviations.
- 3.5 Tenders should always be placed in double sealed covers, super scribing ["QUOTATION DO NOT OPEN" Tender for _____ Project of Maharashtra Natural Gas Limited due for opening on _____]. The *Full Name, Address and Telegraphic Address, Fax No. of the Tenderers* shall be written on the bottom left hand corner of the sealed cover.

4. Documents:

4.1 General:

The tenders as submitted will consist of the following:

- i) Complete set of Tender Documents (Original) as sold duly filled in and signed by the tenderer as prescribed in different clauses of the Tender Documents.
- ii) Earnest money in the manner specified in Clause 6 hereof.
- iii) Power of Attorney or a true copy thereof duly attested by a Gazetted Officer in case an authorized representative has signed the tender, as required by Clause 14 hereof.
- iv) Information regarding tenderers in the proforma enclosed.
- v) Details of work of similar type and magnitude carried out by the Tenderer in the proforma provided in the tender document.

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- vi) Organization chart giving details of field management at site, the tenderer proposes to have for this job.
 - vii) Details of construction plant and equipments available with the tenderer for using in this work.
 - viii) Solvency Certificate from Scheduled Bank to prove the financial ability to carry out the work tendered for.
 - ix) Latest Balance Sheet and Profit & Loss Account duly audited.
 - x) Details of present commitment as per proforma enclosed to tender.
 - xi) Data required regarding SUB-CONTRACTOR(s)/ Supplier/ Manufacturers and other technical information the tenderer wish to furnish.
 - xii) Provident fund registration certificate
 - xiii) List showing all enclosures to tender.
- 4.2 All pages are to be Initiated: All signatures in Tender Documents shall be dated, as well as, all the pages of all sections of Tender Documents shall be initialed at the lower right hand corner and signed wherever required in the tender papers by the TENDERER or by a person holding power of attorney authorizing him to sign on behalf of the tenderer before submission of tender.
- 4.3 Rates to be in Figures and Words: The tender should quote in English both in figures as well as in words the rates and amounts tendered by him in the Schedule of Rates of Tender submitted by the CONTRACTOR for each item and in such a way that interpolation is not possible. The amount for each item should be worked out and entered and requisite total given of all items, both in figures and in words. The tendered amount for the work shall be entered in the tender and duly signed by the Tenderer.
- If some discrepancies are found between the RATES in FIGURES and WORDS or the AMOUNT shown in the tender, the following procedure shall be followed:
- a) When there is difference between the rates in figures and words, the rate which corresponds to the amount worked out by the tenderer shall be taken as correct.
 - b) When the rate quoted by the tenderer in figures and words tally but the amount is incorrect the rate quoted by the tenderer shall be taken as correct.
 - c) When it is not possible to ascertain the correct rate by either of above methods, the rate quoted in words shall be taken as correct.
- 4.4 Corrections and Erasures: All correction(s) and alteration(s) in the entries of tender paper shall be signed in full by the TENDERER with date. No erasure or over writing is permissible.
- 4.5 Signature of Tenderer:
- 4.5.1 The TENDERER shall contain the name, residence and place of business of person or persons making the tender and shall be signed by the TENDERER with his usual signature. Partnership firms shall furnish the full names of all partners in the tender. It should be signed in the partnership's name by all the partners or by duly authorized representatives followed by the name and designation of the person signing. Tender by a corporation shall be signed by an authorized representative, and a Power of Attorney in

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that behalf shall accompany the tender. A copy of the constitution of the firm with names of all partners shall be furnished.

- 4.5.2 When a tenderer signs a tender in a language other than English, the total amount tendered should, in addition, be written in the same language. The signature should be attested by at least one witness.
- 4.6 Witness: Witness and sureties shall be persons of status and property and their names, occupation and address shall be stated below their signature.
- 4.7 Details of Experience: The tenderer should furnish, along with his tender, details of previous experience in having successfully completed in the recent past works of this nature, together with the names of Employers, location of sites and value of contract, date of commencement and completion of work, delays if any, reasons of delay and other details along with documentary evidence(s).
- 4.8 Liability of Government of India: It is expressly understood and agreed by and between Bidder or/Contractor and M/s Maharashtra Natural Gas Limited, and that M/s Maharashtra Natural Gas Limited, is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that M/s Maharashtra Natural Gas Limited is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable Laws of India and general principles of Contract Law. The Bidder/Contractor expressly agrees, acknowledges and understands that M/s Maharashtra Natural Gas Limited is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, Bidder/Contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this contract and covenants not to sue to Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.
- 5. Transfer of Tender Documents:**
- 5.1 Transfer of Tender Documents purchased by one intending tenderer to another is not permissible.
- 6. Earnest Money:**
- 6.1 The bidder must pay Earnest Money as given in the letter / notice inviting tenders and attach the official receipt with the tender failing which the tender is liable to be rejected and representatives of such tenderers will not be allowed to attend the tender opening. Earnest Money can be paid in Demand Drafts or Bank Guarantee or Banker's Cheque or Letter of Credit from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank.

The bid guarantee shall be submitted in the prescribed format.

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

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

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

Note :

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

7 Validity:


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

8 Addenda/Corrigenda

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

9 Right of Employer to Accept or Reject Tender:

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

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

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

10 Time Schedule

- 10.1 The WORK shall be executed strictly as per the TIME SCHEDULE specified in TENDER/CONTRACT Document. The period of construction given in Time Schedule includes the time required for mobilization as well as testing, rectifications if any, retesting and completion in all respects to the entire satisfaction of the ENGINEER-IN-CHARGE.
- 10.2 A joint programme of execution of the WORK will be prepared by the ENGINEER-IN-CHARGE and CONTRACTOR based on priority requirement of this project. This programme will take into account the time of completion mentioned in 10.1 above and the time allowed for the priority works by the ENGINEER-IN-CHARGE.
- 10.3 Monthly/Weekly construction program will be drawn up by the ENGINEER-IN-CHARGE jointly with the CONTRACTOR, based on availability of work fronts and the joint construction program as per 10.2 above. The CONTRACTOR shall scrupulously adhere to these targets / programmes by deploying adequate personnel, construction tools and tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets / programmes. In all matters concerning the extent of targets set out in the weekly and monthly programmes and the degree of achievements the decision of the ENGINEER-IN-CHARGE will be final and binding on the CONTRACTOR.

11 Tenderer's Responsibility


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

12 Retired Government or Company Officers VOID

13 Signing of the Contract:

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

14 Field Management & Controlling/Coordinating Authority:

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

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

15 Note to Schedule of Rates:

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

15.2 The tenderer shall be deemed to have studied the DRAWINGS, SPECIFICATIONS and details of work to be done within TIME SCHEDULE and to have acquainted himself of the condition prevailing at site.

15.3 Rates must be filled in the Schedule of Rates of original Tender Documents. If quoted in separate typed sheets no variation in item description or specification shall be accepted. Any exceptions taken by the tenderer to the Schedule of Rates shall be brought out in the terms and conditions of the offer.

15.4 The quantities shown against the various items are only approximate. Any increase or decrease in the quantities shall not form the basis of alteration of the rates quoted and accepted.


15.5 The EMPLOYER reserves the right to interpolate the rates for such items of work falling between similar items of lower and higher magnitude.

16 Policy for Tenders under Consideration:

16.1 Only Those Tenders which are complete in all respects and are strictly in accordance with the Terms and Conditions and Technical Specifications of Tender Document, shall be considered for evaluation. Such Tenders shall be deemed to be under consideration immediately after opening of Tender and until such time an official intimation of acceptance /rejection of Tender is made by MNGL to the Bidder.

16.2 Zero Deviation: Bidders to note that this is a ZERO DEVIATION TENDER. MNGL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of Work, technical specifications etc. to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer. Bidder may note that no technical and commercial clarifications will be sought for after the receipt of the bids. In case of any deviation/nonconformity observed in the bid, it will be liable for rejection.

17 Award of Contract:

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17.1 The Acceptance of Tender will be intimated to the successful Tenderer by MNGL either by Telex/ Telegram/ Fax or by Letter or like means-defined as LETTER OF ACCEPTANCE OF TENDER.

17.2 MNGL will be the sole judge in the matter of award of CONTRACT and the decision of MNGL shall be final and binding.

18 Clarification of Tender Document:

18.1 The Tender is required to carefully examine the Technical Specifications, Conditions of Contract, Drawings and other details relating to WORK and given in Tender Document and fully inform himself as to all conditions and matters which may in any way affect the WORK or the cost thereof. In case the Tenderer is in doubt about the completeness or correctness of any of the contents of the Tender Documents he should request in writing for an interpretation/clarification to MNGL in triplicate. MNGL will then issue interpretation/clarification to Tenderer in writing. Such clarifications and or interpretations shall form part of the Specifications and Documents and shall accompany the tender which shall be submitted by tenderer within time and date as specified in invitations to tender.

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

19 Local Conditions:

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


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

20 Abnormal Rates:

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

Section-IV. General Obligations

21 Priority of Contract Documents

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


- 1) The Contract Agreement;
- 2) The Letter of Acceptance;
- 3) The Instructions to Bidders (ITB);
- 4) Special Conditions of Contract (SCC);
- 5) General Conditions of Contract (GCC)
- 6) Any other document forming part of the Contract.

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

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

22 Special Conditions of Contract:

- 22.1 Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, specification of Work, Drawings and any other documents forming part of this CONTRACT wherever the context so requires.
- 22.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 22.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 22.4 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall

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do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.

- 22.5 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.


23 Contractor to obtain his own Information:

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

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

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

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

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


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

24 Contract Performance Security:

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

Bidder will provide Performance Guarantee of 10% of Contract value within 30 days of award (date of issuance of service order) OR 5% of Contract value within 30 days of award and balance to be deducted against each RA bills till balance 5% is deducted or bank guarantee of equivalent amount is submitted. The contract performance bank guarantee shall be valid for 03 (three) months beyond the expiry of Defect Liability Period. The value for Contract Performance Guarantee / Security Deposit shall be based on contract value excluding GST.

- 24.2 CONTRACTOR can furnish the Contract Performance Security in the form of Demand Draft or through a Bank Guarantee or through an irrevocable Letter of Credit from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank.
The bank guarantee or the Letter of Credit shall be submitted in the prescribed format.
- 24.3 If the CONTRACTOR/SUB-CONTRACTOR or their employees or the CONTRACTOR's agents and representatives shall damage, break, deface or destroy any property belonging to the EMPLOYER or others during the execution of the CONTRACT, the same shall be made good by the CONTRACTOR at his own expenses and in default thereof, the ENGINEER-IN-CHARGE may cause the same to be made good by other agencies and recover expenses from the CONTRACTOR (for which the certificate of the ENGINEER- IN-CHARGE shall be final).
- 24.4 All compensation or other sums of money payable by the CONTRACTOR to the EMPLOYER under terms of this CONTRACT may be deducted from or paid by the encashment or sale of a sufficient part of his Contract Performance Security or from any sums which may be due or may become due to the CONTRACTOR by the EMPLOYER of any account whatsoever and in the event of his Contract Performance Security being reduced by reasons of any such deductions or sale of aforesaid, the CONTRACTOR shall within ten days thereafter make good in cash, bank drafts as aforesaid any sum or sums which may have been deducted from or realized by sale of his Contract Performance Security, or any part thereof. No interest shall be payable by the

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EMPLOYER for sum deposited as Contract Performance Security.

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

25 Time of Performance:

25.1 Time for Mobilization

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

25.2 Time Schedule of Construction:

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

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


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

The above L1, L2 schedule shall be reviewed periodically and reports shall be submitted by the CONTRACTOR as directed by EMPLOYER.

26 Force Majeure:

26.1 CONDITIONS FOR FORCE MAJEURES

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

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

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

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

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

26.2 OUTBREAK OF WAR


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

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

27 Price reduction schedule:

27.1 Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 here above or due to EMPLOYER's defaults, the Total Contract price shall be reduced by ½% of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5% of the Total Contract Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.

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

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

28 Rights of the employer to forfeit contract performance security:

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

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


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

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


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

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

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

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- b) The amount that may have become due to the CONTRACTOR on account of work already executed by him shall not be payable to him until after the expiry of Six (6) calendar months reckoned from the date of termination of CONTRACT or from the taking over of the WORK or part thereof by the EMPLOYER as the case may be, during which period the responsibility for faulty materials or workmanship in respect of such work shall, under the CONTRACT, rest exclusively with the CONTRACTOR. This amount shall be subject to deduction of any amounts due from the CONTRACT to the EMPLOYER under the terms of the CONTRACT authorized or required to be reserved or retained by the EMPLOYER.
- 29.3 Before determining the CONTRACT as per Clause 29.1(a) or (b) provided in the judgement of the EMPLOYER, the default or defaults committed by the CONTRACTOR is/are curable and can be cured by the CONTRACTOR if an opportunity given to him, then the EMPLOYER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.
- 29.4 The EMPLOYER shall also have the right to proceed or take action as per 29.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favour of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the EMPLOYER to give any prior notice to the CONTRACTOR.
- 29.5 Termination of the CONTRACT as provided for in sub-clause 29.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued up to the date of such termination.
- 30 Contractor remains liable to pay compensation if action not taken under clause 29:**
- 30.1 In any case in which any of the powers conferred upon the EMPLOYER BY CLAUSE 29.0 thereof shall have become exercisable and the same had not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any further case of default by the CONTRACTOR for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his Contract Performance Security, and the liability of the CONTRACTOR for past and future compensation shall remain unaffected. In the event of the EMPLOYER putting in force the power under above sub-clause (a), (b) or (c) vested in him under the preceding clause he may, if he so desired, take possession of all or any tools, and plants, materials and stores in or upon the works or the site thereof belonging to the CONTRACTOR or procured by him and intended to be used for the execution of the WORK or any part thereof paying or allowing for the same in account at the CONTRACT rates or in case of these not being applicable at current market rates to be certified by the ENGINEER-IN-CHARGE whose certificate thereof shall be final, otherwise the ENGINEER-IN-CHARGE may give notice in writing to the CONTRACTOR or his clerk of the works, foreman or other authorized agent, requiring him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the CONTRACTOR's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date,

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time or place of sale and the certificate of the ENGINEER-IN-CHARGE as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the CONTRACTOR.

31 Change in constitution:

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

32 Termination of contract

32(A) TERMINATION OF CONTRACT FOR DEATH:


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

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

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

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

- 32 (C)** In case of termination of CONTRACT herein set forth (under clause 29.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by Maharashtra Natural Gas Limited against any type of tender nor their offer will be

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considered by MNGL against any ongoing tender (s) where contract between MNGL and that particular CONTRACTOR (as a bidder) has not been finalized] for three years from the date of termination by Maharashtra Natural Gas Limited to such CONTRACTOR.

33 Members of the employer not individually liable:

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

34 Employer not bound by personal representations:

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

35 Contractor's office at site:

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

36 Contractor's subordinate staff and their conduct

- 36.1 The CONTRACTOR, on or after award of the WORK shall name and depute a qualified engineer having sufficient experience in carrying out work of similar nature, to whom the equipments, materials, if any, shall be issued and instructions for works given. The CONTRACTOR shall also provide to the satisfaction of the ENGINEER-IN- CHARGE sufficient and qualified staff to superintend the execution of the WORK, competent sub-agents, foremen and leading hands including those specially qualified by previous experience to supervise the types of works comprised in the CONTRACT in such manner as will ensure work of the best quality, expeditious working. Whenever in the opinion of the ENGINEER-IN- CHARGE additional properly qualified supervisory staff is considered necessary, they shall be employed by the CONTRACTOR without additional charge on accounts thereof. The CONTRACTOR shall ensure to the satisfaction of the ENGINEER-IN-CHARGE that SUB- CONTRACTORS, if any, shall provide competent and efficient supervision, over the work entrusted to them.
- 36.2 If and whenever any of the CONTRACTOR's or SUBCONTRACTOR'S agents, sub-agents, assistants, foremen, or other employees shall in the opinion of ENGINEER-IN-CHARGE be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties of that in the opinion of the EMPLOYER or the ENGINEER-IN-CHARGE, it is undesirable for administrative or any other reason for such person or persons to be employed in the works, the CONTRACTOR, is so directed by the ENGINEER-IN-CHARGE, shall at once remove such person or persons from employment thereon. Any person or persons so removed from the works shall not again

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be employed in connection with the WORKS without the written permission of the ENGINEER-IN- CHARGE. Any person so removed from the WORK shall be immediately re-placed at the expense of the CONTRACTOR by a qualified and competent substitute. Should the CONTRACTOR be requested to repatriate any person removed from the works he shall do so and shall bear all costs in connection herewith.

- 36.3 The CONTRACTOR shall be responsible for the proper behavior of all the staff, foremen, workmen, and others, and shall exercise a proper degree of control over them and in particular and without prejudice to the said generality, the CONTRACTOR shall be bound to prohibit and prevent any employees from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties in the neighborhood and in the event of such employee so trespassing, the CONTRACTOR shall be responsible therefore and relieve the EMPLOYER of all consequent claims or actions for damages or injury or any other grounds whatsoever. The decision of the ENGINEER-IN-CHARGE upon any matter arising under this clause shall be final. The CONTRACTOR shall be liable for any liability to EMPLOYER on account of deployment of CONTRACTOR's staff etc. or incidental or arising out of the execution of CONTRACT.


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

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

37 Sub-letting of works:

- 37.1 No part of the CONTRACT nor any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the CONTRACTOR directly or indirectly to any person, firm or corporation whatsoever without the consent in writing, of the ENGINEER/EMPLOYER except as provided for in the succeeding sub-clause.


- i) **SUB-CONTRACTS FOR TEMPORARY WORKS ETC.:**
The EMPLOYER may give written consent to Sub- contract for the execution of any part of the WORK at the site, being entered in to by CONTRACTOR provided each individual Sub- contract is submitted to the ENGINEER-IN-CHARGE before being entered into and is approved by him.
- ii) **LIST OF SUB-CONTRACTORS TO BE SUPPLIED:**
At the commencement of every month the CONTRACTOR shall furnish to the ENGINEER-IN- CHARGE list of all SUB-CONTRACTORS or other persons or firms engaged by the CONTRACTOR and working at the SITE during the previous month with particulars of the general nature of the Subcontract or works done by them.

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- iii) **CONTRACTOR'S LIABILITY NOT LIMITED BY SUBCONTRACTORS:**
Notwithstanding any sub-letting with such approval as aforesaid and notwithstanding that the ENGINEER-IN-CHARGE shall have received copies of any Subcontracts, the contractor shall be and shall remain solely responsible for the quality, proper and expeditious execution of the Contract in all respects as if such sub-letting or Subcontracting had not taken place, and as if such work had been done directly by the CONTRACTOR
The CONTRACTOR shall bear all responsibility for any act or omission on the part of sub- contractors in regard to work to be performed under the CONTRACT.
- iv) **EMPLOYER MAY TERMINATE SUB-CONTRACTS:**
If any SUB-CONTRACTOR engaged upon the works at the site executes any works which in the opinion of the ENGINEER-IN-CHARGE is not in accordance with the CONTRACT documents, the EMPLOYER may by written notice to the CONTRACTOR request him to terminate such subcontract and the CONTRACTOR upon the receipt of such notice shall terminate such Subcontract and dismiss the SUB-CONTRACTOR(S) and the later shall forthwith leave the works, failing which the EMPLOYER shall have the right to remove such SUB-CONTRACTOR(S) from the site.
- v) **NO REMEDY FOR ACTION TAKEN UNDER THIS CLAUSE:**
No action taken by the EMPLOYER under the clause shall relieve the CONTRACTOR of any of his liabilities under the CONTRACT or give rise to any right or compensation, extension of time or otherwise failing which the EMPLOYER shall have the right to remove such SUB-CONTRACTOR(S) from the site.

38 Power of entry:

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


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

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

- 39.1 Without repugnance of any other condition, it shall be the responsibility of the CONTRACTOR executing the work of civil construction, to work in close cooperation and coordinate the WORK with the Mechanical, Electrical, Air-conditioning and Intercommunication Contractor's and other agencies or their authorized representatives, in providing the necessary grooves, recesses, cuts and opening etc., in wall, slabs beams and columns etc. and making good the same to the desired finish as per specification, for the placement of electrical, intercommunication cables, conduits, air-conditioning inlets and outlets grills and other equipments etc. where required. For the above said requirements in the false ceiling and other partitions, the CONTRACTOR before starting-up the work shall in consultation with the Electrical, Mechanical, Intercommunication, Air-conditioning contractor and other agencies prepare and put-up a joint scheme, showing the necessary openings, grooves, recesses, cuts, the methods of fixing required for the WORK of the aforesaid, and the finishes therein, to the ENGINEER-IN-CHARGE and get the approval. The CONTRACTOR before finally submitting the scheme to the ENGINEER-IN-CHARGE, shall have the written agreement of the other agencies. The ENGINEER- IN-CHARGE, before communicating his approval to the scheme, with any required modification, shall get the final agreement of all the agencies, which shall be binding. No claim shall be entertained on account of the above.

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

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40 Other agencies at site:

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

41 Notice:


- 41.1 TO THE CONTRACTOR:
Any notice hereunder may be served on the CONTRACTOR or his duly authorized representative at the job site or may be served by registered mail direct to the address furnished by the CONTRACTOR. Proof of issue of any such notice could be conclusive of the CONTRACTOR having been duly informed of all contents therein.
- 41.2 TO THE EMPLOYER:
Any notice to be given to the EMPLOYER under the terms of the CONTRACTOR shall be served by sending the same by Registered mail to or delivering the same at the respective site offices of M/S. MAHARASHTRA NATURAL GAS LIMITED addressed to the HEAD/SITE-IN-CHARGE.

42 Right of various interests:

- 42.1 i) The EMPLOYER reserves the right to distribute the work between more than one agency (ies). The CONTRACTOR shall cooperate and afford other agency (ies) reasonable opportunity for access to the WORK for the carriage and storage of materials and execution of their works.
- ii) Wherever the work being done by any department of the EMPLOYER or by other agency(ies) employed by the EMPLOYER is contingent upon WORK covered by this CONTRACT, the respective rights of the various interests involved shall be determined by the ENGINEER-IN-CHARGE to secure the completion of the various portions of the work in general harmony.


43 Patents and royalties:

- 43.1 The CONTRACTOR, if licensed under any patent covering equipment, machinery, materials or compositions of matter to be used or supplied or methods and process to be practiced or employed in the performance of this CONTRACT, agrees to pay all royalties and license fees which may be due with respect thereto. If any equipment, machinery, materials, composition of matters, be used or supplied or methods and processes to be practiced or employed in the performance of this CONTRACT, is covered by a patent under which the CONTRACTOR is not licensed then the CONTRACTOR before supplying or using the equipment, machinery materials, composition method or processes shall obtain such licenses and pay such royalties and license fees as may be necessary for performance of this CONTRACT. In the event the CONTRACTOR fails to pay any such royalty or obtain any such license, any suit for infringement of such patents which is brought against the CONTRACTOR or the EMPLOYER as a result such failure will be defended by the CONTRACTOR at his own expense and the CONTRACTOR will pay any damages and costs awarded in such suit. The CONTRACTOR shall promptly

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notify the EMPLOYER if the CONTRACTOR has acquired the knowledge of any plant under which a suit for infringement could be reasonably brought because of the use by the EMPLOYER of any equipment, machinery, materials, process and methods to be supplied hereunder. The CONTRACTOR agrees to and does hereby grant to EMPLOYER, together with the right to extend the same to any of the subsidiaries of the EMPLOYER as irrevocable, royalty free license to use in any country, any invention made by the CONTRACTOR or his employee in or as result of the performance of the WORK under the CONTRACT.

- 43.2 All charges on account of royalty, tollage, rent, octroi terminal or sales tax and/or other duties or any other levy on materials obtained for the work or temporary work or part thereof (excluding materials provided by the EMPLOYER) shall be borne by the CONTRACTOR.
- 43.3 The CONTRACTOR shall not sell or otherwise dispose of or remove except for the purpose of this CONTRACT, the sand, stone, clay, ballast, earth, rock or other substances, or materials obtained from any excavation made for the purpose of the WORK or any building or produce upon the site at the time of delivery of the possession thereof, but all such substances, materials, buildings and produce shall be the property of the EMPLOYER provided that the CONTRACTOR may with the permission of the ENGINEER-IN-CHARGE, use the same for the purpose of the work by payment of cost of the same at such a rate as may be determined by the ENGINEER-IN- CHARGE.
- 43.4 The EMPLOYER shall indemnify and save harmless the CONTRACTOR from any loss on account of claims against CONTRACTOR for the contributory infringement of patent rights arising out and based upon the claim that the use of the EMPLOYER of the process included in the design prepared by the EMPLOYER and used in the operation of the plant infringes on any patent right. With respect to any subcontract entered into by CONTRACTOR pursuant to the provisions of the relevant clause hereof, the CONTRACTOR shall obtain from the SUB-CONTRACTOR an undertaking to provide the EMPLOYER with the same patent protection that CONTRACTOR is required to provide under the provisions of this clause.
- 44 Liens:**
- 44.1 If, at any time there should be evidence or any lien or claim for which the EMPLOYER might have become liable and which is chargeable to the CONTRACTOR, the EMPLOYER shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify the EMPLOYER against such lien or claim and if such lien or claim be valid, the EMPLOYER may pay and discharge the same and deduct the amount so paid from any money which may be or may become due and payable to the CONTRACTOR. If any lien or claim remain unsettled after all payments are made, the CONTRACTOR shall refund or pay to the EMPLOYER all money that the latter may be compelled to pay in discharging such lien or claim including all costs and reasonable expenses. EMPLOYER reserves the right to do the same.
- 44.2 The EMPLOYER shall have lien on all materials, equipments including those brought by the CONTRACTOR for the purpose of erection, testing and commissioning of the WORK.
- 44.3 The final payment shall not become due until the CONTRACTOR delivers to the ENGINEER-IN-CHARGE a complete release or waiver of all liens arising or which may

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arise out of his agreement or receipt in full or certification by the CONTRACTOR in a form approved by ENGINEER-IN-CHARGE that all invoices for labour, materials, services have been paid in lien thereof and if required by the ENGINEER-IN-CHARGE in any case an affidavit that so far as the CONTRACTOR has knowledge or information the releases and receipts include all the labour and material for which a lien could be filled.

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


45 Delays by employer or his authorized agents:

- 45.1 In case the CONTRACTOR's performance is delayed due to any act or omission on the part of the EMPLOYER or his authorized agents, then the CONTRACTOR shall be given due extension of time for the completion of the WORK, to the extent such omission on the part of the EMPLOYER has caused delay in the CONTRACTOR's performance of his WORK.
- 45.2 No adjustment in CONTRACT PRICE shall be allowed for reasons of such delays and extensions granted except as provided in TENDER DOCUMENT, where the EMPLOYER reserves the right to seek indulgence of CONTRACTOR to maintain the agreed Time Schedule of Completion.

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

46 Payment if the contract is terminated:

- 46.1 If the CONTRACT shall be terminated as per Tender pursuant to Clause no. 29 of GCC, the CONTRACTOR shall be paid by the EMPLOYER in so far as such amounts or items shall not have already been covered by payments of amounts made to the CONTRACTOR for the WORK executed and accepted by ENGINEER-IN-CHARGE prior to the date of termination at the rates and prices provided for in the CONTRACT and in addition to the following:
- a) The amount payable in respect of any preliminary items, so far as the Work or service comprised therein has been carried out or performed and an appropriate portion as certified by ENGINEER-IN-CHARGE of any such items or service comprised in which has been partially carried out or performed.
 - b) Any other expenses which the CONTRACTOR has expended for performing the WORK under the CONTRACT subject to being duly recommended by ENGINEER-IN-CHARGE and approved by EMPLOYER for payment, based on documentary evidence of his having incurred such expenses.

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

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

47 No waiver of rights:

47.1 Neither the inspection by the EMPLOYER or any of their officials, employees, or agents nor any order by the EMPLOYER for payment of money or any payment for or acceptance of the whole or any part of the Work by the EMPLOYER nor any extension of time, nor any possession taken by EMPLOYER shall operate as a waiver of any provision of the CONTRACT, or of any power herein reserved to the EMPLOYER, or any right to damages herein provided, nor shall any waiver of any breach in the CONTRACT be held to be a waiver of any other subsequent breach.

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

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

49 Language and measures:


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

50 Transfer of title:

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

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

51 Release of information:

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

52 Brand names:

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

53 Completion of contract:

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

54 Spares:

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


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

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

SECTION-V Performance of Work

55 Execution of work:

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

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etc. for execution and maintenance of WORK till completion unless otherwise mentioned in the CONTRACT.

56 Co-ordination and inspection of work:

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

57 Work in monsoon and dewatering:


- 57.1 Unless otherwise specified elsewhere in the tender, the execution of the WORK may entail working in the monsoon also. The CONTRACTOR must maintain a minimum labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon.
- 57.2 During monsoon and other period, it shall be the responsibility of the CONTRACTOR to keep the construction work site free from water at his own cost.

58 Work on Sundays and holidays:

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

59 General conditions for construction and erection work:

- 59.1 The working time at the site of work is 48 hours per week. Overtime work is permitted in cases of need and the EMPLOYER will not compensate the same. Shift working at 2 or 3 shifts per day will become necessary and the CONTRACTOR should take this aspect into consideration for formulating his rates for quotation. No extra claims will be entertained by the EMPLOYER on this account. For carrying out work beyond working hours the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his authorized representative and obtain his prior written permission.
- 59.2 The CONTRACTOR must arrange for the placement of workers in such a way that the delayed completion of the WORK or any part thereof for any reason whatsoever will not affect their proper employment. The EMPLOYER will not entertain any claim for idle time payment whatsoever.
- 59.3 The CONTRACTOR shall submit to the EMPLOYER/ENGINEER-INCHARGE reports at regular intervals regarding the state and progress of WORK. The details and proforma of the report will mutually be agreed after the award of CONTRACT. The CONTRACTOR

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shall provide display boards showing progress and labour strengths at worksite, as directed by the ENGINEER-IN-CHARGE.

60 Alterations in specifications, design and extra works:


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

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

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

I. For Item Rate Contract

- a) If the rates for the additional, altered or substituted WORK are specified in the CONTRACT for the WORK, the CONTRACTOR is bound to carry on the additional, altered or substituted WORK at the same rates as are specified in the CONTRACT.
- b) If the rates for the additional, altered or substituted WORK are not specifically provided in the CONTRACT for the WORK, the rates will be derived from the rates for similar class of WORK as are specified in the CONTRACT for the WORK. The opinion of the ENGINEER-IN-CHARGE, as to whether or not the rates can be reasonably so derived from the items in this CONTRACT will be final and binding on the CONTRACTOR.
- c) If the rates for the altered, additional or substituted WORK cannot be determined in the manner specified in sub-clause (a) and (b) above, then

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the CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER-IN-CHARGE as to current market rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.

- d) Where the item of work will be executed through nominated specialist agency as approved by the ENGINEER-IN-CHARGE, then the actual amount paid to such nominated agency supported by documentary evidence and as certified by ENGINEER-IN-CHARGE shall be considered plus 10% (ten percent) to cover all contingencies, overhead, profits to arrive at the rates.
- e) Provisions contained in the Sub-clause (a) & (d) above shall, however, not apply for the following: -

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

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

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

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compensation shall be 10% of (75-70) i.e. 0.5% of awarded contract value.

II. For Lump sum Contracts

CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER- IN-CHARGE as to current market rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.

61 Drawings to be supplied by the employer


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

62 Drawings to be supplied by the contractor:

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

"Certified true for _____ (Name of Work)

Agreement No. _____

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Signed: _____

(CONTRACTOR)

(ENGINEER-IN-CHARGE)

62.3 The DRAWINGS submitted by the CONTRACTOR shall be reviewed by the ENGINEER-IN-CHARGE as far as practicable within 3 (Three) weeks and shall be modified by the CONTRACTOR, if any modifications and/or corrections are required by the ENGINEER-IN-CHARGE. The CONTRACTOR shall incorporate such modifications and/or corrections and submit the final drawings for approval. Any delays arising out of failure by the CONTRACTOR to rectify the drawing in good time shall not alter the Contract Completion Time.

62.4 As built drawings showing all corrections, adjustments etc. shall be furnished by the CONTRACTOR in six copies and one transparent for record purposed to the EMPLOYER.

63 Setting out works:


63.1 The ENGINEER-IN-CHARGE shall furnish the CONTRACTOR with only the four corners of the Works site and a level bench mark and the CONTRACTOR shall set out the Works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.

63.2 The CONTRACTOR shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and other similar things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The CONTRACTOR shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and center line marks, either existing or supplied and fixed by the CONTRACTOR. The work shall be set out to the satisfaction of the ENGINEER-IN-CHARGE. The approval there of joining with the CONTRACTOR by the ENGINEER- IN-CHARGE in setting out the work, shall not relieve the CONTRACTOR of any of his responsibility.

63.3 Before beginning the Works, the CONTRACTOR shall at his own cost, provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the works in accordance with the schemes for bearing marks acceptable to the ENGINEER-IN-CHARGE. The center, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the centre to enable theodolite to be set over it. No work shall be started until all these points are checked and approved by the ENGINEER-IN-CHARGE in writing but such approval shall not relieve the CONTRACTOR of any of his responsibilities. The CONTRACTOR shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.

63.4 Pillars bearing geodetic marks located at the sites of units of WORKS under construction should be protected and fenced by the CONTRACTOR.

63.5 On completion of WORK, the CONTRACTOR must submit the geodetic documents according to which the WORK was carried out.

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64 Responsibility for level and alignment:


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

65 Materials to be supplied by contractor:

- 65.1 The CONTRACTOR shall procure and provide within the VALUE OF CONTRACT the whole of the materials required for the construction including steels, cement and other building materials, tools, tackles, construction plant and equipment for the completion and maintenance of the WORK except the materials which will be issued by the EMPLOYER and shall make his own arrangement for procuring such materials and for the transport thereof. The EMPLOYER may give necessary recommendation to the respective authority if so desired by the CONTRACTOR but assumes no further responsibility of any nature. The EMPLOYER will insist on the procurement of materials which bear ISI stamp and/or which are supplied by reputed suppliers.
- 65.2 The CONTRACTOR shall properly store all materials either issued to him or brought by him to the SITE to prevent damages due to rain, wind, direct exposure to sun, etc. as also from theft, pilferage, etc. for proper and speedy execution of his works. The CONTRACTOR shall maintain sufficient stocks of all materials required by him.
- 65.3 No material shall be dispatched from the CONTRACTOR's stores before obtaining the approval in writing of the ENGINEER-IN-CHARGE.

66 Stores supplied by the employer:


- 66.1 If the SPECIFICATION of the WORK provides for the use of any material of special description to be supplied from the EMPLOYER's stores or it is required that the CONTRACTOR shall use certain stores to be provided by the ENGINEER-IN-CHARGE, such materials and stores, and price to be charged there for as hereinafter mentioned being so far as practicable for the convenience of the CONTRACTOR, but not so as in any way to control the meaning or effect of the CONTRACT, the CONTRACTOR shall be bound to purchase and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the CONTRACT only. The sums due from the CONTRACTOR for the value of materials supplied by the EMPLOYER will be recovered from the running account bill on the basis of the actual consumption of materials in the works covered and for which the running account bill has been prepared. After the completion of the WORK, however, the CONTRACTOR has to account for the full quantity of materials supplied to him as per relevant clauses in this document.
- 66.2 The value of the stores/materials as may be supplied to the CONTRACTOR by the EMPLOYER will be debited to the CONTRACTOR's account at the rates shown in the schedule of materials and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the CONTRACT shall include the cost of carriage and all other expenses whatsoever such as normal storage supervision charges which shall have been incurred in obtaining the same at the EMPLOYER's stores. All materials so supplied to the CONTRACTOR shall remain the absolute property of the EMPLOYER

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

67 Conditions for issue of materials:

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

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situation occur nor shall this constitute a reason for the delay in the execution of the WORK.

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

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

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

69 Materials obtained from dismantling:

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

70 Articles of value found:

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

71 Discrepancies between instructions:


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

72 Action where no specification is issued:

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

73 Inspection of works:

- 73.1 The ENGINEER-IN-CHARGE will have full power and authority to inspect the WORK at any time wherever in progress either on the SITE or at the CONTRACTOR's premises/workshops wherever situated, premises/ workshops of any person, firm or corporation where WORK in connection with the CONTRACT may be in hand or where materials are being or are to be supplied, and the CONTRACTOR shall afford or procure for the ENGINEER-IN- CHARGE every facility and assistance to carry out such inspection. The CONTRACTOR shall, at all time during the usual working hours and at all other time at which reasonable notice of the intention of the ENGINEER-IN- CHARGE or his representative to visit the WORK shall have been given to the CONTRACTOR, either himself be present or receive orders and instructions, or have a responsible agent duly accredited in writing, present for the purpose. Orders given to the CONTRACTOR's agent shall be considered to have the same force as if they had been given to the CONTRACTOR himself. The CONTRACTOR shall give not less than seven days notice in writing to the ENGINEER-IN-CHARGE before covering up or otherwise placing beyond reach of inspection and measurement of any work in order that the same may be

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inspected and measured. In the event of breach of above the same shall be uncovered at CONTRACTOR's expense for carrying out such measurement or inspection.

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

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

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

74 Tests for quality of work:

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

75 Samples for approval:

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

76 Action and compensation in case of bad work:

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


77 Suspension of works:

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

78 Employer may do part of work:

- 78.1 Upon failure of the CONTRACTOR to comply with any instructions given in accordance with the provisions of this CONTRACT the EMPLOYER has the alternative right, instead of assuming charge of entire WORK, to place additional labour force, tools, equipments and materials on such parts of the WORK, as the EMPLOYER may designate or also engage another CONTRACTOR to carry out the WORK. In such cases, the EMPLOYER shall deduct from the amount which otherwise might become due to the CONTRACTOR, the cost of such work and material with ten percent (10%) added to cover all departmental charges and should the total amount thereof exceed the amount due to the CONTRACTOR, the CONTRACTOR shall pay the difference to the EMPLOYER.

79 Possession prior to completion:

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

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

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

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


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

80.3 LIMITATION OF LIABILITY

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

81 Care of works:

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

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81.1 DEFECTS PRIOR TO TAKING OVER:

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


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

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

81.2 DEFECTS AFTER TAKING OVER:

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

If by reason of any default on the part of the CONTRACTOR a COMPLETION CERTIFICATE has not been issued in respect of any portion of the WORK within one month after the date fixed by the CONTRACT for the completion of the WORK, the EMPLOYER shall be at liberty to use the WORK or any portion thereof in respect of which a completion certificate has not been issued, provided that the WORK or the

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portion thereof so used as aforesaid shall be afforded reasonable opportunity for completing these works for the issue of Completion Certificate.

82 Guarantee/transfer of guarantee:


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

83 Training of employer's personnel:

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

84 Replacement of defective parts and materials:

- 84.1 If during the progress of the WORK, EMPLOYER shall decide and inform in writing to the CONTRACTOR, that the CONTRACTOR has manufactured any plant or part of the plant unsound or imperfect or has furnished plant inferior to the quality specified, the CONTRACTOR on receiving details of such defects or deficiencies shall at his own expenses within 7 (seven) days of his receiving the notice, or otherwise within such time as may be reasonably necessary for making it good, proceed to alter, re-construct or remove such work and furnish fresh equipments up to the standards of the specifications. In case the CONTRACTOR fails to do so, EMPLOYER may on giving the CONTRACTOR 7 (seven) day's notice in writing of his intentions to do so, proceed to remove the portion of the WORK so complained of and at the cost of CONTRACTOR's, perform all such works or furnish all such equipments provided that nothing in the clause shall be deemed to deprive the EMPLOYER of or affect any rights under the CONTRACT, the EMPLOYER may otherwise have in respect of such defects and deficiencies.
- 84.2 The CONTRACTOR's full and extreme liability under this clause shall be satisfied by the payments to the EMPLOYER of the extra cost, of such replacements procured including erection/installation as provided for in the CONTRACT; such extra cost being the ascertained difference between the price paid by the EMPLOYER for such replacements and the CONTRACT price portion for such defective plants and repayments of any sum paid by the EMPLOYER to the CONTRACTOR in respect of such defective plant. Should the EMPLOYER not so replace the defective plant the CONTRACTOR's extreme liability

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under this clause shall be limited to the repayment of all such sums paid by the EMPLOYER under the CONTRACT for such defective plant.

85 Indemnity

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


86 Construction aids, equipments, tools & tackles:

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

SECTION-VI Certificates and Payments

87 Schedule of rates and payments:

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

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The prices/rates quoted by the CONTRACTOR shall remain firm till the issue of FINAL CERTIFICATE and shall not be subject to escalation. Schedule of Rates shall be deemed to include and cover all costs, expenses and liabilities of every description and all risks of every kind to be taken in executing, completing and handing over the WORK to the EMPLOYER by the CONTRACTOR. The CONTRACTOR shall be deemed to have known the nature, scope, magnitude and the extent of the WORK and materials required though the CONTRACT DOCUMENT may not fully and precisely furnish them. Tenderer shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of WORK and materials as may be reasonable and necessary to complete the WORK. The opinion of the ENGINEER-IN-CHARGE as to the items of WORK which are necessary and reasonable for COMPLETION OF WORK shall be final and binding on the CONTRACTOR, although the same may not be shown on or described specifically in CONTRACT DOCUMENTS. Generality of this present provision shall not be deemed to cut down or limit in any way because in certain cases it may and in other cases it may not be expressly stated that the CONTRACTOR shall do or perform a work or supply articles or perform services at his own cost or without addition of payment or without extra charge or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

- iii) SCHEDULE OF RATES TO COVER CONSTRUCTION EQUIPMENTS, MATERIALS, LABOUR ETC.:
Without in any way limiting the provisions of the preceding sub-clause the Schedule of Rates shall be deemed to include and cover the cost of all construction equipment, temporary WORK (except as provided for herein), pumps, materials, labour, insurance, fuel, consumables, stores and appliances to be supplied by the CONTRACTOR and all other matters in connection with each item in the Schedule of Rates and the execution of the WORK or any portion thereof finished, complete in every respect and maintained as shown or described in the CONTRACT DOCUMENTS or as may be ordered in writing during the continuance of the CONTRACT.
- iv) SCHEDULE OF RATES TO COVER ROYALTIES, RENTS AND CLAIMS:
The Schedule of Rates (i.e., VALUE OF CONTRACT) shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters, patent or otherwise incorporated in or used in connection with the WORK, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the WORK and shall include an indemnity to the EMPLOYER which the CONTRACTOR hereby gives against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the WORK of any such articles, processes or materials, octroi or other municipal or local Board Charges, if levied on materials, equipment or machineries to be brought to site for use on WORK shall be borne by the CONTRACTOR.
- v) SCHEDULE OF RATES TO COVER TAXES AND DUTIES:
No exemption or reduction of Customs Duties, Goods & Service Tax, quay or any port dues, transport charges, stamp duties or Central or State Government or local Body or Municipal Taxes or duties, taxes or charges (from or of any other body), whatsoever, will be granted or obtained, all of which expenses shall be

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deemed to be included in and covered by the Schedule or Rates. The CONTRACTOR shall also obtain and pay for all permits or other privileges necessary to complete the WORK.

vi) SCHEDULE OF RATES TO COVER RISKS OF DELAY:

The Schedule of Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the CONTRACTOR's conduct of WORK which occur from any causes including orders of the EMPLOYER in the exercise of his power and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.

vii) SCHEDULE OF RATES CANNOT BE ALTERED:

For WORK under unit rate basis, no alteration will be allowed in the Schedule of Rates by reason of works or any part of them being modified, altered, extended, diminished or committed. The Schedule of Rates are fully inclusive of rates which have been fixed by the CONTRACTOR and agreed to by the EMPLOYER and cannot be altered.

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

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

88 Procedure for measurement and billing of work in progress:

88.1 BILLING PROCEDURE:

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


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

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

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

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

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

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

88.2 SECURED ADVANCE ON MATERIAL:

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

88.3 DISPUTE IN MODE OF MEASUREMENT:

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

88.4 ROUNDING OF AMOUNTS:

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

89 Lump sum in tender:

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

90 Running account payments to be regarded as advance:

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

91 Notice of claims for additional payments:

91.1 Should the CONTRACTOR consider that he is entitled to any extra payment for any extra/additional WORKS or MATERIAL change in original SPECIFICATIONS carried out by him in respect of WORK he shall forthwith give notice in writing to the ENGINEER-IN-CHARGE that he claims extra payment. Such notice shall be given to the ENGINEER-IN-CHARGE upon which CONTRACTOR bases such claims and such notice shall contain full particulars of the nature of such claim with full details of amount claimed. Irrespective


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of any provision in the CONTRACT to the contrary, the CONTRACTOR must intimate his intention to lodge claim on the EMPLOYER within 10 (ten) days of the commencement of happening of the event and quantify the claim within 30 (thirty) days, failing which the CONTRACTOR will lose his right to claim any compensation/reimbursement/damages etc. or refer the matter to arbitration. Failure on the part of CONTRACTOR to put forward any claim without the necessary particulars as above within the time above specified shall be an absolute waiver thereof. No omission by EMPLOYER to reject any such claim and no delay in dealing therewith shall be waiver by EMPLOYER of any of these rights in respect thereof.

- 91.2 ENGINEER-IN-CHARGE shall review such claims within a reasonably period of time and cause to discharge these in a manner considered appropriate after due deliberations thereon. However, CONTRACTOR shall be obliged to carry on with the WORK during the period in which his claims are under consideration by the EMPLOYER, irrespective of the outcome of such claims, where additional payments for WORKS considered extra are justifiable in accordance with the CONTRACT provisions, EMPLOYER shall arrange to release the same in the same manner as for normal WORK payments. Such of the extra works so admitted by EMPLOYER shall be governed by all the terms, conditions, stipulations and specifications as are applicable for the CONTRACT. The rates for extra works shall generally be the unit rates provided for in the CONTRACT. In the event unit rates for extra works so executed are not available as per CONTRACT, payments may either be released on day work basis for which daily/hourly rates for workmen and hourly rates for equipment rental shall apply, or on the unit rate for WORK executed shall be derived by interpolation/ extrapolation of unit rates already existing in the CONTRACT. In all the matters pertaining to applicability of rate and admittance of otherwise of an extra work claim of CONTRACTOR the decision of ENGINEER-IN-CHARGE shall be final and binding.

92 Payment of contractor's bill:

- 92.1 No payment shall be made for works estimated to cost less than Rs.10,000/- till the whole of the work shall have been completed and a certificate of completion given. But in case of works estimated to cost more than Rs.10,000/-, that CONTRACTOR on submitting the bill thereof be entitled to receive a monthly payment proportionate to the part thereof approved and passed by the ENGINEER-IN-CHARGE, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the CONTRACTOR. This payment will be made after making necessary corrections/deductions as stipulated elsewhere in the CONTRACT DOCUMENT for materials, Contract Performance Security, taxes etc.
- 92.2 Payment due to the CONTRACTOR shall be made by the EMPLOYER by Account Payee cheque forwarding the same to registered office or the notified office of the CONTRACTOR. In no case will EMPLOYER be responsible if the cheque is mislaid or misappropriated by unauthorized person/persons. In all cases, the CONTRACTOR shall present his bill duly pre-receipted on proper revenue stamp payment shall be made in Indian Currency.
- 92.3 In general payment of final bill shall be made to CONTRACTOR within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the CONTRACT.

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93 Receipt for payment:

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

94 Completion certificate:

94.1 APPLICATION FOR COMPLETION CERTIFICATE:

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

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

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

94.2 COMPLETION CERTIFICATE:


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

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

94.3 COMPLETION CERTIFICATE DOCUMENTS:

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

- i) The technical documents according to which the WORK was carried out.

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

95 Final decision and final certificate:

- 95.1 Upon expiry of the period of liability and subject to the ENGINEER-IN-CHARGE being satisfied that the WORKS have been duly maintained by the CONTRACTOR during monsoon or such period as hereinbefore provided in Clause 80 & 81 and that the CONTRACTOR has in all respect duly made-up any subsidence and performed all his obligations under the CONTRACT, the ENGINEER-IN- CHARGE shall (without prejudice to the rights of the EMPLOYER to retain the provisions of relevant Clause hereof) otherwise give a certificate herein referred to as the FINAL CERTIFICATE to that effect and the CONTRACTOR shall not be considered to have fulfilled the whole of his obligations under CONTRACT until FINAL CERTIFICATE shall have been given by the ENGINEER-IN- CHARGE notwithstanding any previous entry upon the WORK and taking possession, working or using of the same or any part thereof by the EMPLOYER.

96 Certificate and payments on evidence of completion:


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

97 Deductions from the contract price:

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

SECTION-VII Taxes and Insurance

98 Taxes, Duties, Octroi / LBT etc:

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

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

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


99 Goods & Service tax/turnover tax:

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

100 Statutory variations

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

101 Insurance:

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101.1 GENERAL

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

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


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

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

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

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

i) EMPLOYEES STATE INSURANCE ACT:

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


The CONTRACTOR agrees to fill in with the Employee's State Insurance Corporation, the Declaration Forms, and all forms which may be required in respect of the CONTRACTOR's or SUB- CONTRACTOR's employees, who are employed in the WORK provided for or those covered by ESI from time to time under the Agreement. The CONTRACTOR shall deduct and secure the agreement of the SUB- CONTRACTOR to deduct the employee's contribution as per the first schedule of the Employee's State Insurance Act from wages and affix the Employees Contribution Card at wages payment intervals. The CONTRACTOR shall remit and secure the agreement of SUB-CONTRACTOR to remit to the State Bank of India, Employee's State Insurance Corporation Account, the Employee's contribution as required by the Act. The CONTRACTOR agrees to maintain all cards and Records as required under the Act in respect of employees and payments and the CONTRACTOR shall secure the agreement of the SUBCONTRACTOR to maintain such records. Any expenses incurred for the contributions, making contributions or maintaining records shall be to the CONTRACTOR's or SUB-CONTRACTOR's account.

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

- ii) WORKMEN COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE:
Insurance shall be effected for all the CONTRACTOR's employees engaged in the performance of this CONTRACT. If any of the work is sublet, the CONTRACTOR shall require the SUB-CONTRACTOR to provide workman's Compensation and employer's liability insurance for the later's employees if such employees are not covered under the CONTRACTOR's Insurance.
- iii) ACCIDENT OR INJURY TO WORKMEN:
The EMPLOYER shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the Employment of the CONTRACTOR or any SUB-CONTRACTOR save and except an accident or injury resulting from any act or default of the EMPLOYER, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensation (save and except and aforesaid) and against all claims, demands, proceeding, costs, charges and expenses, whatsoever in respect or in relation thereto.

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

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to obtain additional or increased coverages at Contractor's sole expenses.

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

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

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

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


SECTION-VIII Labour Laws

103 Labour laws:

- 103.1 i) No labour below the age of 18 (eighteen) years shall be employed on the WORK.
- ii) The CONTRACTOR shall not pay less than what is provided under law to labourers engaged by him on the WORK.
- iii) The CONTRACTOR shall at his expense comply with all labour laws and keep the EMPLOYER indemnified in respect thereof.
- iv) The CONTRACTOR shall pay equal wages for men and women in accordance with applicable labour laws.

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

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may be enhanced to Rs.50.00 per day for each day of default subject to a maximum of one percent of the estimated cost of the WORK put to tender. The ENGINEER-IN-CHARGE shall deduct such amount from bills or Contract Performance Security of the CONTRACTOR and credit the same to the Welfare Fund constitute under these acts. The decision of the ENGINEER-IN-CHARGE in this respect shall be final and binding.

104 Implementation of apprentices act, 1961:

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

105 Contractor to indemnify the employer:

- 105.1 i) The CONTRACTOR shall indemnify the EMPLOYER and every member, office and employee of the EMPLOYER, also the ENGINEER-IN-CHARGE and his staff against all actions, proceedings, claims, demands, costs and expenses whatsoever arising out of or in connection with the matters referred to in Clause 102.0 and elsewhere and all actions, proceedings, claims, demands, costs and expenses which may be made against the EMPLOYER for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of any demand or compensation payable by law in respect or in consequence of any accident or injury to any workmen or other person. In the employment of the CONTRACTOR or his SUB-CONTRACTOR the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensations and against all claims, damages, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.
- ii) PAYMENT OF CLAIMS AND DAMAGES:
Should the EMPLOYER have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the EMPLOYER shall be charged to and paid by the CONTRACTOR and the CONTRACTOR shall not be at liberty to dispute or question the right of the EMPLOYER to make such payments notwithstanding the same, may have been made without the consent or authority or in law or otherwise to the contrary.
- iii) In every case in which by virtue of the provisions of Section 12, Sub-section (i) of workmen's compensation Act, 1923 or other applicable provision of Workmen Compensation Act or any other Act, the EMPLOYER is obliged to pay compensation to a workman employed by the CONTRACTOR in execution of the WORK, the EMPLOYER will recover from the CONTRACTOR the amount of the compensation so paid, and without prejudice to the rights of EMPLOYER under Section 12, Sub- section (2) of the said act, EMPLOYER shall be at liberty to recover such amount or any part thereof by deducting it from the Contract

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

106 Health and sanitary arrangements for workers:

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

SECTION-IX Applicable Laws and Settlement of Disputes

107 Arbitration:

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


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

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

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

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

Bidders/suppliers/contractors may please note that the Arbitration & Conciliation Act 1996 was enacted by the Indian Parliament and is based on United Nations Commission on

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International Trade Law (UNCITRAL model law), which were prepared after extensive consultation with Arbitral Institutions and centers of International Commercial Arbitration. The United Nations General Assembly vide resolution 31/98 adopted the UNCITRAL Arbitration rules on 15 December 1976.

108 Jurisdiction:

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

SECTION-X Safety Codes

109 General:

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


110 Safety regulations:

- 110.1 i) In respect of all labour, directly employed in the WORK for the performance of CONTRACTOR's part of this agreement, the CONTRACTOR shall at his own expense arrange for all the safety provisions as per safety codes of C.P.W.D., Indian Standards Institution. The Electricity Act, The Mines Act and such other acts as applicable.
- ii) The CONTRACTOR shall observe and abide by all fire and safety regulations of the EMPLOYER. Before starting construction work CONTRACTOR shall consult with EMPLOYER's safety Engineers or ENGINEER- IN-CHARGE and must make good to the satisfaction of the EMPLOYER any loss or damage due to fire to any portion of the work done or to be done under this agreement or to any of the EMPLOYER's existing property.

111 First aid and industrial injuries:

- 111.0 i) CONTRACTOR shall maintain first aid facilities for its employees and those of its SUB-CONTRACTOR.
- ii) CONTRACTOR shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Names of those providing these services shall be furnished to EMPLOYER prior to start of construction and their telephone numbers shall be prominently posted in CONTRACTOR's field office.
- iii) All critical industrial injuries shall be reported promptly to EMPLOYER, and a copy of CONTRACTOR's report covering each personal injury requiring the attention of a physician shall be furnished to the EMPLOYER.

112 General rules:

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

113 Contractor's barricades:

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

114 Scaffolding:

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

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

115 Excavation and trenching:

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

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

116 Demolition/general safety:

- 116.1 i) Before any demolition work is commenced and also during the progress of the demolition work
- a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - b) No electric cable or apparatus which is liable to be a source of danger shall remain electrically charged.
 - c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
- ii) All necessary personal safety equipment as considered adequate by the ENGINEER-IN-CHARGE should be kept available for the use of the persons employed on the SITE and maintained in condition suitable for immediate use, and the CONTRACTOR shall take adequate steps to ensure proper use of equipment by those concerned.
- a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.



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- b) Those engaged in white washing and mixing or stacking or cement bags or any material which are injurious to the eyes be provided with protective goggles.
- c) Those engaged in welding and cutting works shall be provided with protective face & eye shield, hand gloves, etc.
- d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- e) When workers are employed in sewers and manholes, which are in use, the CONTRACTOR shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or board to prevent accident to the public.
- f) The CONTRACTOR shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.
 - 1) No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
 - 2) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - 3) Overalls shall be supplied by the CONTRACTOR to the workmen and adequate facilities shall be provided to enable the working painters to wash them during and on cessation of work.
- iii) When the work is done near any place where there is risk of drowning, all necessary safety equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- iv) Use of hoisting machines and tackles including their attachments, anchorage and supports shall conform to the following standards or conditions:
 - a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defect and shall be kept in good working order.
 - b) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.
 - c) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding, winch or give signals to the operator.
 - d) In case of every hoisting machine and of every chain ring hook, shackle, swivel, and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gears referred to above shall be plainly marked with the safe working load of the conditions under which it is applicable and the same shall be clearly indicated. No part of any

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machine or any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

- e) In case of departmental machine, the safe working load shall be notified by the ENGINEER- IN-CHARGE. As regards CONTRACTOR's machines, the CONTRACTOR shall notify the safe working load of the machine to the ENGINEER-IN-CHARGE whenever he brings any machinery to SITE of WORK and get it verified by the Engineer concerned.
- v) Motors, gears, transmission lines, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as to reduce to minimum the accidental descent of the load, adequate precautions should be taken to reduce the minimum risk of any part or parts of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves, and boots as may be necessary should be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- vi) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe conditions and no scaffolds, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- vii) These safety provisions should be brought to the notice of all concerned by displaying on a notice board at a prominent place at the work-spot. The person responsible for compliance of the safety code shall be named therein by the CONTRACTOR.
- viii) To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the CONTRACTOR shall be open to inspection by the Welfare Officer, ENGINEER-IN- CHARGE or safety Engineer of the Administration or their representatives.
- ix) Notwithstanding the above clauses there is nothing in these to exempt the CONTRACTOR for the operations of any other Act or rules in force in the Republic of India. The work throughout including any temporary works shall be carried out in such a manner as not to interfere in any way whatsoever with the traffic on any roads or footpath at the site or in the vicinity thereto or any existing works whether the property of the Administration or of a third party.

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

117 Care in handling inflammable gas:

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

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118 Temporary combustible structures:

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

119 Precautions against fire:

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

120 Explosives:


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

121 Mines act:

121.1 SAFETY CODE: The CONTRACTOR shall at his own expense arrange for the safety provisions as required by the ENGINEER-IN-CHARGE in respect of all labour directly employed for performance of the WORKS and shall provide all facilities in connection therewith. In case the CONTRACTOR fails to make arrangements and provides necessary facilities as aforesaid, the ENGINEER-IN- CHARGE shall be entitled to do so and recover the costs thereof from the CONTRACTOR.

121.2 Failure to comply with Safety Code or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the CONTRACTOR liable to pay Company Liquidated Damages an amount not exceeding Rs.50/- for each default or materially incorrect statement. The decision of the ENGINEER-IN-CHARGE in such matters based on reports from the Inspecting Officer or from representatives of ENGINEER-IN-CHARGE shall be final and binding and deductions for recovery of such Liquidated Damages may be made from any amount payable to the CONTRACTOR from all the provisions of the Mines Act, 1952 or any statutory modifications or re-enactment thereof the time being in force and any Rules and Regulations made there under in respect of all the persons employed by him under this CONTRACT and shall indemnify the EMPLOYER from and against any claim under the Mines Act or the rules and regulations framed there under by or on behalf of any persons employed by him or otherwise.

122 Preservation of place:

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


123 Outbreak of infectious diseases:

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

124 Use of intoxicants:

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

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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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Annexure-I to GCC

PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY EMPLOYER

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

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


AND WHEREAS

- i) MNGL has agreed to supply to the CONTRACTOR, equipment, plants and materials (finished, semi-finished and raw) for the purpose of EXECUTION of the said CONTRACT by the CONTRACTOR (the equipment, plants and materials to be supplied by MNGL to the CONTRACTOR, hereinafter for the sake of brevity referred to as the "said materials") and pending execution by the CONTRACTOR of the CONTRACT incorporating the said materials, the said materials shall be under the custody and charge of the CONTRACTOR and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the CONTRACTOR.

- ii) As a pre-condition to the supply of the said materials by MNGL to the CONTRACTOR, MNGL has required the CONTRACTOR to furnish to MNGL an Indemnity Bond in the manner and upon terms and conditions hereinafter indicated.

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

_____).
AND THE CONTRACTOR hereby agrees with MNGL that:

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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- i) This Indemnity/Undertaking shall be a continuing Indemnity/ Undertaking and shall remain valid and irrevocable for all claims of MNGL arising hereunder up to and until the midnight of _____. However, if the CONTRACT for which this Indemnity/Undertaking is given is not completed by this date, the CONTRACTOR hereby agrees to extend the Indemnity/Undertaking till such time as is required to fulfill the CONTRACT.
- ii) This Indemnity/Undertaking shall not be determined by any change in constitution or upon insolvency of the CONTRACTOR but shall be in all respects and for all purposes be binding and operative until payment of all moneys payable to MNGL in terms of hereof.
- iii) The mere statement of allegation made by or on behalf of MNGL in any notice or demand or other writing addressed to the CONTRACTOR as to any of the said material or item or part thereof having been lost , damaged, destroyed, misused or misappropriated while in the custody of the CONTRACTOR and/or prior to completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials shall be conclusive of the factum of the said material or item or part thereof having been supplied to the CONTRACTOR and/or the loss, damage, destruction, misuse or misappropriation thereof, as the case may be, while in the custody of the CONTRACTOR and/or prior to the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials without necessity on the part of MNGL to produce any documentary proof or other evidence whatsoever in support of this.
- iv) The amount stated in any notice of demand addressed by MNGL to the CONTRACTOR as to the value of such said materials lost, damaged, destroyed, misused or misappropriated, inclusive relative to the costs and expenses incurred by MNGL in connection therewith shall be conclusive of the value of such said materials and the said cost and expenses as also of the amount liable to be paid to MNGL to produce any voucher, bill or other documentation or evidence whatsoever in support thereof and such amount shall be paid without any demur and on demand and no dispute shall be raised concerning the same.


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

(SIGNED BY COMPETENT AUTHORITY)

Place:

Dated:

Official seal of the CONTRACTOR

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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Annexure-II to GCC

PROFORMA FOR CONTRACT AGREEMENT

SO No.

dated -----


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

WHEREAS

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

AND WHEREAS

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

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

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


A N D

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

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

The CONTRACTOR shall be allowed to enter upon the SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest in the SITE or the structures erected thereon and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason.

The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on

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account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE.
In Witness whereof the parties have executed these presents in the day and the year first above written.

Signed and Delivered for and on
on behalf of EMPLOYER.

Signed and Delivered for and
on behalf of the CONTRACTOR.

MAHARASHTRA NATURAL GAS LIMITED

(NAME OF THE CONTRACTOR)

Date:_____

Date:_____

Place:_____

Place: _____


IN PRESENCE OF TWO WITNESSES

1._____

1._____

2._____

2._____

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNG/CP/2024-25/176</p>
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PART - D

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- 2. ANNEXURE TO SCC (Technical)**
- 3. PARTICULAR JOB SPECIFICATION**



**MAHARASHTRA
NATURAL GAS LIMITED**

TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL
PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE
BAMUL PLANT IN THE RAMANAGARA GA.

Bid No.: MNGL/CP/2024-25/176

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(TECHNICAL)
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1.0 GENERAL

- 1.1 Special conditions of contract (SCC-Technical) shall be read in conjunction with the General Conditions of Contract (GCC). Schedule of rates, specifications of work, drawings and any other document forming part of this contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the document into these separate sections and volumes, every part of each with and into the contract so far as it may be practicable to do so.
- 1.3 Where any portion of the GCC is repugnant to or at variance with any provisions of the special conditions of contract, then unless a different intention appears, the provision(s) of the special conditions of contract shall be deemed to override the provision(s) of GCC only to the extent that such repugnancies of variations in the special conditions of contract are not possible of being reconciled with the provisions of GCC.
- 1.4 Wherever it is stated in this Bidding Document that such and such a supply is to be effected or such and such a work is to be carried out, it shall be understood that the same shall be effected/carried out by the contractor at his own cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context. Contract value (also referred to as Contract price) shall be deemed to have included such cost.
- 1.5 The materials, design and workmanship shall satisfy the applicable relevant Indian Standards, the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any Standard/ Specifications/codes of practice for detailed specifications covering any part of the work covered in this Bidding on the contractor.
- 1.6 In partial modification to Clause No.21.0 of GCC the following shall apply:

In case of contradiction between Indian or other applicable Standards, General Conditions of Contract, Special Conditions of Contract, Specifications, drawings, Schedule of Rates, the following shall prevail in order of precedence:
 - i) Letter of acceptance along with statement of Agreed variations.
 - ii) Service Order / Fax of Acceptance
 - iii) Schedule of Rates as enclosures to letter of acceptance
 - iv) Job / Particular Specifications
 - v) Drawings
 - vi) Technical / Material Specifications
 - vii) Special Conditions of Contract
 - viii) General Conditions of Contract
 - ix) Indian Standards
 - x) Other Applicable Standards
- 1.7 It will be contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) of making the supply with reference which the conflict exists.

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In the absence of any specifications covering any material, design of work(s) in the same shall be performed / supplies / executed in accordance with Standards Engineering Practice as per the instructions / directions of the Engineer-in-charge, which will be binding on the Contractor.

- 1.8 The requirements of any statutory body and authority like Indian boiler regulation, Tariff Advisory Committee, Chief controller of Explosives, etc, shall govern where these are more stringent than the requirements specified above.

- 1.9 Owner's representative means authorised representative of Owner (i.e. M/s MNGL).

2.0 THE WORK

2.1 Scope of work

The scope of work covered in this Contract will be as described in **Annexure-1** to SCC-Technical at Particular job specifications, Standard Specifications, Schedule of Rates etc.

2.2 Scope of Supply

The scope of supply covered in this Contract will be as described in **Annexure-2** to SCC-Technical Particular Job Specifications, Standard Specifications, Schedule of Rates etc.

2.3 Time schedule

- 2.3.1 The work shall be executed strictly as per time schedule given in **Annexure-3** to SCC-Technical. The period of completion given includes the time required for mobilisation as well as testing, rectifications, if any, retesting, demobilisation and completion in all respects to the satisfaction of the Engineer-in-Charge.


- 2.3.2 A joint programme of execution of work will be prepared by the Engineer-in-Charge and Contractor. This programme will take into account the time of completion mentioned in 2.3.1 above.

- 2.3.3 Monthly/Weekly execution programme will be drawn up by the Engineer-in-Charge jointly with the Contractor based on availability of materials, work fronts and the joint programme of execution as referred to above. The contractor shall scrupulously adhere to the Targets/Programmes by deploying adequate personnel, Construction Equipment, Tools and Tackles and also by timely supply of required materials coming within his scope of supply as per Contract. In all matters concerning the extent of target set out in the weekly/monthly programme and the degree of achievement, the decision of the Engineer-in-Charge will be final and binding on the Contractor.

- 2.3.4 Contractor shall give every day category-wise labour and equipment deployment report alongwith the progress of work done on previous day in the proforma prescribed by the Engineer-in-Charge.

2.4 Measurement of Works

In addition to the provisions of Clause 88.1 of the General Conditions of Contract and associated provisions thereof, the provisions of **Annexure – 4** to SCC-Technical shall apply.

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2.5 Terms of Payment

Terms of Payment will be as specified in **Annexure – 5** to SCC-Technical.

2.6 Temporary Works

All temporary works, ancillary works, enabling works, including dewatering of surface and subsoil water, temporary drains at the work site, preparing approaches to working areas, wherever required, for execution of the work, shall be the responsibility of Contractor.

2.7 Temporary Fencing

The Contractor shall, at his own costs and expenses, erect and maintain in good condition temporary fences and gates along the boundaries of the site assigned to him wherever required as per instruction of Engineer-in-charge. Wherever trenching is being done specially at crossing site near habitation and public movement. The contractor shall fence with bamboo or other materials of sufficient strength for all excavations and shall light the same at night. The Contractor shall, except when authorised by the Engineer-in-Charge, confine his men, materials and plant etc. within the site of which he is given possession. The Contractor shall not use any part of the site for purpose not connected with the works unless prior written permission or consent of the Owner/Engineer-in-Charge has been obtained. Access to site shall be made only through the approved gateways. The Contractor shall maintain sufficient watchmen at site to the satisfaction of the Owner/Engineer-in-Charge.


2.8 Contractor's Temporary Structure

The Contractor may, at his own costs and expenses and subject to the approval of the Engineer-in-Charge and statutory authorities, construct offices, stores, workshop and remove the same as per the orders of the Engineer-in-Charge on completion of the contract. Whenever required the Contractor shall furnish such details of his temporary works as may be called for by the Owner/Engineer-in-Charge as to their safety and efficiency. The Owner/Engineer-in-Charge may direct those temporary works which he considers unsafe or, inefficient be removed and replaced in a satisfactory manner. The Contractor shall immediately follow Owner/Engineer-in-Charge's direction/instruction, on maintenance of all the equipments and he shall ensure that they are suitable for the work and is maintained in such a manner as to ensure their efficient working. The Owner/Engineer-in-Charge, may if they deem fit, direct the Contractor to remove from site any equipment which are not efficient and/or prejudicial to the quality of work to be replaced by equipment to their satisfaction. The Contractor shall immediately follow Owner/Engineer-in-Charge's direction/instruction.

2.9 Statutory Approvals

- 2.9.1 All associated activities required for obtaining necessary clearances, permissions, approvals, all licenses from all concerned authorities in respect of pipeline crossing & all related works shall be the responsibility of the Contractor and the cost of the same shall be deemed to have been included in the quoted prices.

The approval from any authority required as per statutory rules and regulations of Central/State Government shall be the Contractor's responsibility unless otherwise

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specified in the Bidding Document. The application on behalf of the Owner for submission to relevant authorities alongwith copies of required certificate complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction of the work is not delayed for want of the approval/inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the Contractor and necessary coordination and liason work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Owner to the Contractor on production of documentary evidence.

Any change/addition required to be made to meet the requirements of the statutory authorities shall be carried out by the Contractor free of charge. The inspection and acceptance of the work by statutory authorities shall however, not absolve the Contract from any of his responsibilities under this Contract.

2.10 Quality Assurance

- 2.10.1 Detailed quality assurance programme to be followed for the execution of Contract under various divisions of works will be mutually discussed and agreed to in line with **Annexure-6** of SCC-Technical.
- 2.10.2 The Contractor shall establish document and maintain an effective quality assurance system as outlined in recognised codes.
- 2.10.3 Quality Assurance System plans/procedures of the Contractor shall be furnished in the form of QA manual. This document should cover details of the personnel responsible for the quality assurance, plans or procedures to be followed for quality control in respect of Design, Engineering, Procurement, Supply, Installation, Testing and Commissioning. The quality assurance system should indicate organisational approach for quality control and quality assurance of the construction activities, at all stages of work at site as well as at manufacturer's works and despatch of materials.

The Owner/Consultant or their representative shall reserve the right to inspect/witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.


- 2.10.4 The Contractor has to ensure the deployment of quality Assurance and Quality Control Engineer(s) depending upon the quantum of work.

2.11 Notice and Licences

The Contractor shall at his costs and expenses give to the Municipal or Panchayat, Police and other authorities all notices etc., that may be required in law to be given and obtain all necessary permissions and licences etc., for temporary obstructions, enclosures and pay all fees, taxes charges etc. which may be leviable by such authorities for that purpose. The Contractor shall make good any damage to the adjoining property whether public or private.

2.12 Working Hours

Depending upon the requirements, time schedule/ drawn up programmes and the target set to complete the job in time the works may have to continue beyond normal working hours to the extent of round the clock and on holidays also for which no extra claim shall be entertained.

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2.13 Responsibility of Contractor

Preparing approaches and working area for the movement and operation of the cranes, leveling the area for assembly and erection shall also be the responsibility of the Contractor. The Contractor shall acquaint himself with access availability, facilities such as railway siding, local labour etc.

The procurement and supply in sequence and at the appropriate time of all materials and consumables covered under Contractor's scope of supply, shall be entirely the Contractor's responsibility. Contractor shall not use any of the equipment or materials issued to him by Owner for temporary works, manufacturing erection aids etc. Misuse of materials will be seriously viewed and deduction at penal rates will be made from the Contractor's bill for such quantities that are misused.

Contract Price is deemed to be inclusive of all expenses towards above responsibilities.

2.14 Electrical Works – DELETED

2.15 Additional Works/Extra Works

Owner reserve their right to execute any additional works/ extra works, during the execution of Work, either by themselves or by appointing any other agency, even though such works are incidental to and necessary for the completion of works awarded to the Contractor. In the event of such decisions taken by Owner, Contractor is required to extend necessary cooperation and act as per the instructions of Engineer-in-Charge

3.0 CONSTRUCTION

OWNER reserves the right to inspect all phases of Contractor's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or other duly authorised representatives, made known to the Contractor present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of a OWNER's representative does not relieve the Contractor of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the Contractor or any Sub-Contractor is found by OWNER's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the Contractor shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.


3.1 Rules and Regulations

Contractor shall observe in addition to Codes specified in respective specification, all national and local laws, ordinances, rules and regulations and requirements pertaining to the work and shall be responsible for extra costs arising from violations of the same.

3.2 Procedures

Various procedures and method statements to be adopted by Contractor during the construction as required in the respective specifications shall be submitted to Engineer-in-Charge in due time for approval. No construction activity shall commence unless approved by Engineer-in-Charge in writing.

3.3 Security

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If the work is being done in protected area, entry into the work area shall be restricted and governed by issue of photo gate passes by the Security/CISF. The Contractor shall arrange to obtain through the Engineer-in-Charge, well in advance, all necessary entry permits/gate pass for his staff and labour and entry and exit of his men and materials shall be subject to vigorous check by the security staff. The Contractor shall not be eligible for any claim or extension of time whatsoever on this account.

3.4 Drawings and Documents

Refer Particular Job specifications/Technical specifications.

3.5 Pre-fabrication Works

The Contractor shall be required to pre-fabricate the pipings and MS structural members etc. for the work away from the work site and transport the prefabricated material to work site at no extra cost to the Owner.

3.6 Distinction Between Foundation and Super Structure

To distinguish between work in foundations and superstructures, the following criteria shall apply:

- i) For all Equipment pedestals, silos, pipe racks, other foundations and R.C.C. structures, work done upto 300mm level above finished grade level will be taken as work in foundations and work above this level will be treated as work in superstructures and payments would be made accordingly.
- ii) For Buildings only, all works upto level corresponding to finished floor level shall be treated as work in "Foundation and Plinth" and all works above the finalized floor level shall be treated as "Work in superstructure".
- iii) Irrespective of what has been stated above, all pavements, R.C.C. Retaining wall, all pipe sleepers and any similar item would be taken as work done in foundations irrespective of locations, nomenclature, and levels given anywhere.
- iv) Where not specifically pointed out all works in cellars/sumps, Tank pads, cable trenches or such similar items would be taken as work in foundations,

3.7 Excavation by Blasting:

Excavation by blasting is not permitted. However if required in hard strata, other mechanical tools shall be used. Blasting shall be done if required in SOR and Job Specification enclosed with tender document.

3.8 Construction Equipment & Mechanisation of Construction Activities

Contractor shall, without prejudice to his overall responsibility to execute and complete the Work as per specifications and time schedule, adopt as far as practicable, mechanized construction techniques for major site activities. However, Contractor agrees that he will deploy the required numbers and types of the part & machinery applicable for different activities in consultation with the Engineer-In-Charge during execution of works.

The Contractor shall mechanise the construction activities to the maximum extent by deploying all necessary construction equipment/machinery in adequate numbers and capacities.

Wherever Structural/Piping works are included in the scope, the Contractor's responsibilities shall include establishing and maintaining of a proper fabrication workshop with transportation facilities to site to carryout fabrication of steel structures, piping specials etc., preparing approaches working areas for the movement/operation of

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cranes and levelling the areas for assembly/erection to ensure effective mechanisation on the works. The Contractor shall acquaint himself with availability of access, facilities such as railway siding, local labour etc. and the Contractor may have to build temporary access roads to aid his work and the quoted and agreed rates shall be deemed to include the same. It may be noted that all fabrication work shall be carried out in fully mechanised workshops to reduce site fabrication to minimum.

For speedy execution of work, Contractor shall also ensure use of computer software for at least the following:

- (i) Billing
- (ii) Planning & Scheduling
- (iii) Progress Reporting
- (iv) Material Control & Warehousing
- (v) Safety Records
- (vi) Resource Deployment
- (vii) Communication

Contractor further agrees that Contract price is inclusive of all the associated costs) which he may incur for actual mobilization, required in respect of use of mechanized construction techniques and that the Owner/Consultant in this regard shall entertain no claim whatsoever.

3.9 Site Organisation

The Contractor shall provide all necessary superintendence during the design and execution of the Works and as long thereafter as the Engineer-in-Charge may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. Such superintendence shall be given by sufficient persons having adequate knowledge of the operations to be carried out including the methods and techniques required, the hazards likely to be encountered and methods of preventing accident(s) for the satisfactory and safe execution of the Work. The workmen deployed by the Contractor should also possess the necessary license etc., if required under any law, rules and regulations.

Subject to the provisions in the Contract Document and without prejudice to Contractor's liabilities and responsibilities to provide adequate qualified and skilled personnel on the Work, Contractor shall augment the same as decided by the Engineer-in-Charge depending on the exigencies of Work.


3.10 Health Safety and Environment (HSE) Management

After the award of the contract, detailed Health, Safety and Environment (HSE) programmed to be followed for execution of contract under various divisions of works in line with **Annexure-7** of SCC TECHNICAL.

The Contractor shall establish document and maintain an effective Health, Safety and Environment (HSE) management system.

The Contractor shall adhere to the Health, Safety and Environment (HSE) management system as per Specification enclosed and General Conditions of Contract.

3.11 General Guidelines During and Before Erection

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3.11.1 The Contractor shall be responsible for organizing the lifting of the structural element / equipment in the proper sequence, that orderly progress of the work is ensured and access routes for erecting the other structures/ equipments are kept open.

3.11.2 During the performance of the work the Contractor at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts or otherwise approved means which shall be Supplied and installed by the Contractor as required till the installation work is satisfactorily completed.

Such guys, shoring, bracing, strutting, planking supports etc. shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.

3.11.3 Manufacturer's recommendations and detailed specifications for the installation of the various equipment and machines shall be fulfilled by the Contractor.

3.11.4 Various tolerances required as marked on the drawings and as per specifications and instructions of the Engineer-in-Charge, shall be maintained.

Verticality shall be maintained. Verticality shall be verified with the Theodolite/advanced instruments.

3.12 Construction Photographs

The Owner desires to have two sets of monthly progress reports with photographs showing the progress of construction. Before utilising any photograph for publicity, the Contractor shall obtain prior approval of the Owner.

3.13 Schedule of Labour & Equipment Rates

Schedule of Labour Rates attached as **Annexure-11** to SCC-TECHNICAL shall be used for analyzing rates for extra items.

Schedule of equipment rates attached as **Annexure-12** to SCC-TECHNICAL shall be used for analysing rates for extra items.

3.13A Minimum Construction Equipment


Minimum Construction equipment to be deployed is enclosed as **Annexure-9** to SCC-TECHNICAL. However, any other equipment required for completion of pipeline laying work but not specifically mentioned here, shall be deployed by contractor without any additional cost. The above proposed list of equipment is the minimum to be deployed by Contractor and Contractor shall ensure the availability of these at site.

3.13 B Minimum Requirement of Skilled Manpower

Minimum No. of Skilled Manpower to be deployed is enclosed as **Annexure-10** to SCC-TECHNICAL. The above proposed list of skilled manpower is the minimum to be deployed by Contractor and Contractor shall ensure the availability of these at site. Failing which MNGL shall arrange these at the risk and cost of Contractor and amount of these shall be deducted from the running payment of Contractor.

3.14 Specific Requirements

Specific requirements spelt out in various technical parts of the Bidding Document shall be followed by Contractor.

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3.15 Erection of Equipment & Vessels

It may be noted by the Contractor that erection of equipment and columns by derrick shall not be permitted. Contractor will have to arrange crane of suitable capacity for the erection of such equipments. It is, therefore, advised that the Contractor should go into the details of the equipments to be erected and identify suitable capacity cranes which he proposes to use for such erection.

Cranes of adequate capacities shall be mobilized by the Contractor to enable modular erection. Owner shall not provide any crane facilities.

4.0 TESTS, INSPECTION AND COMPLETION

4.1 Tests and Inspection

The Contractor shall carry out the various tests as enumerated in the technical specifications of this Bidding Document and technical documents that will be furnished to him during the performance of the work at no extra cost to the Owner.

All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.

The work is subject to inspection at all times by the Engineer-in-Charge. The Contractor shall follow all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this Bidding Document, the technical documents that will be furnished to him during performance of work and the relevant codes of practice.

The Contractor shall provide for purposes of inspection access ladders, lighting equipment for testing, necessary instruments etc. at his own cost, low voltage lighting equipment for tray fixing and inspection work.


Compressed air for carrying out works shall be arranged by the Contractor at his own cost.

For material supplied by Owner, Contractor shall carryout the tests, if required by the Engineer-in-Charge, and the cost of such tests shall be reimbursed by the Owner at actuals to the Contractor on production of documentary evidence.

Contractor shall inspect carefully all equipment before receiving them from Owner for installation purposes. Any damage or defect noticed shall be brought to the notice of Engineer-in- Charge immediately.

All results of inspection and tests will be recorded in the inspection reports, proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents. Any work not conforming to execution drawings, specifications or codes shall be rejected and the Contractor shall carryout the rectifications at his own cost.

Inspection and acceptance of the work shall not relieve the Contractor from any of his responsibilities under this Contract.

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4.2 Hydrostatic Testing

Refer Job Specification/Technical specifications.

4.3 Tie in Joints/Hook-up

Refer Job specification/Technical Specifications.

4.4 Final Inspection

After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defect is noticed, the Contractor will be notified by the Engineer-in-Charge and he shall make good the defects at his own cost and risk with utmost speed. If, however, the Contractor fails to attend to these defects within a reasonable time (time period shall be fixed by the Engineer-in-Charge) then Engineer-in-Charge may have defects rectified at Contractor's cost.

When these works are carried out at the risk and cost of the Contractor, the Engineer-in-charge would recover the actual cost incurred towards labour, supervisions and material, consumables or otherwise, plus 100% towards overheads from any pending bill of the Contractor or the security deposit.

4.5 Documentation

Refer Job Specification/Technical Specification.

4.5.1 "AS BUILT" Drawings

Refer Job Specification/Technical Specification.

4.6 Statement of Final Bills-Issue of No Demand Certificate

4.6.1 The final bill of Contractor shall be accompanied by no-demand certificate from various statutory / concerned Authorities.


4.6.2 The final bill of Contractor shall be accompanied by no-demand certificate from the following departments of the Owner:

- i) Administration & Personnel Department regarding vacation of land, housing accommodation, recovery of rents etc.
- ii) Fire and Safety Officer.

The Contractor shall obtain such no-demand certificates from the concerned authorities and furnish the same to the Engineer-in-Charge.

4.7 Issue and Reconciliation of Material


Refer **Annexure-8** to SCC-TECHNICAL for details.

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**ANNEXURES TO SCC
(TECHNICAL)**

C O N T E N T S


Annexure-1	:	Scope of Work
Annexure-2	:	Scope of Supply
Annexure-3	:	Time Schedule
Annexure-4	:	Measurement of Work
Annexure-5	:	Terms of Payment
Annexure-6	:	Specification for Quality Assurance System requirements from Bidders
Annexure-7	:	Specification for Health, Safety and Environment (HSE) Management
Annexure-8	:	Conditions for issue & reconciliation of material
Annexure-9	:	List of minimum no. of Construction equipment to be deployed
Annexure-10	:	Minimum no. of skilled labour to be deployed
Annexure-11	:	Schedule of Labour Rate
Annexure-12	:	Schedule of Equipment Rate

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**SCOPE OF WORK
(ANNEXURE-1 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

1.0 SCOPE OF WORK

Scope of work shall be as detailed in Job Specification, Technical Specifications, Schedule of Rates & various other parts of this Bidding Document.

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**SCOPE OF SUPPLY
(ANNEXURE-2 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

1.0 SCOPE OF SUPPLY

1.1 Owner's Scope of Supply (Free Issue Item)

Owner's scope of supply shall be as specified in Job Specification, Technical Specifications, Schedule of Rates & various other parts of the Bidding Document.


Free Issue Materials shall be issued to the Contractor from the designated store(s) of Owner. Contractor shall be responsible for lifting the free issue materials from Owner's storage point(s) and transporting the same to work site(s) at his own cost.

MNGL's designated store for free issue material of this project shall be located in Ramanagara or its nearby region.

Conditions for Issue and Reconciliation of Materials shall be as per Document enclosed as **Annexure-8** to Special Conditions of Contract – Technical.

1.2 Contractor's Scope of Supply

All materials except what is under Owner's scope of supply as mentioned in Clause No. 1.1 above, and required for successful completion of works in all respects shall be supplied by the Contractor and the cost of such supply shall be deemed to have been included in the quoted price without any additional liability on the part of Owner.

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**TIME SCHEDULE
(ANNEXURE-3 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

Name of Work	Time for Completion	
Tender for laying of Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA	Sections	Completion Period
	Section 1	9 Months for each Section
	Section 2	
	9 (Nine) months for mechanical completion of pipeline system and associated works including completion of TCP System from the date of Letter of Intimation (LOI) from Engineer In charge (EIC) & and thereafter 1 (ONE) month for commissioning of the entire pipeline system.	

Note:

- 1) The time of completion shall be reckoned from the date of award of contract / LOI, which shall be the date of issue of letter of intimation / Service Order.
- 2) The time indicated is for completing all the works in all respects as per specifications, codes, drawings and instructions of Engineer-in-charge.
- 3) It should be noted that the period of construction given above includes pre-construction survey, preparation of design, other execution document / drawings, procurement and supply of materials including their inspection & testing, mobilisation at site, installation, construction, laying, fabrication, erection inspection, testing, rectification (if any), pre-commissioning, commissioning, demobilisation and closure of contract etc. complete in all respects to the entire satisfaction of Owner/ Engineer-in-charge.
- 4) Mechanical Completion shall mean completion of pipeline and station work including pre-commissioning and make the system ready to start commissioning activities.
- 5) Commissioning shall mean activities including final drying, filling the nitrogen (if required), commissioning with gas, testing of golden tie-ins, acceptance of final dossier and all other relevant activities associated with Civil, Structural, CP, Instrumentation & Telecom Works.

(STAMP & SIGNATURE OF BIDDER)

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**MEASUREMENT OF WORK
(ANNEXURE-4 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

1.0 GENERAL


- 1.1 The mode of measurement shall be as mentioned in relevant standard specification incorporated in the Bidding Document. Any other mode of measurements not covered in above specifications shall be followed in accordance with relevant BIS codes/ Schedule of Rates/ Specifications etc. and/ or as decided by Engineer-in-charge.
- 1.2 Payment will be made on the basis of joint measurements taken by Contractor and certified by Engineer-in-charge. Measurement shall be based on “Approved for Construction” drawings, to be the extent that the work conforms to the drawings and details are adequate.
- 1.3 Wherever work is executed based on instructions of Engineer-in-charge or details are not adequate in the drawings, physical measurements shall be taken by Contractor in the presence of Engineer-in-charge.
- 1.4 Measurements of weights shall be in metric tonnes corrected to the nearest Kilogram. Linear measurements shall be in meters corrected to the nearest centimeters.
- 1.5 The weights mentioned in the drawing or shipping list shall be the basis for payment. If mountings for panels etc. are packed separately, their erection weights shall include all mountings.
- 1.6 Welds, bolts, nuts, washers etc. shall not be measured. Rates for structural steel work shall be deemed to include the same.
- 1.7 No other payment either for temporary works connected with this Contractor for any other item such as weld, shims, packing plates etc. shall be made. Such items shall be deemed to have been included for in the rates quoted.
- 1.8 Measurement will be made for various items under schedule of rates on the following basis as indicated in the unit column.
 - i) Weight : MT or Kg
 - ii) Length : M (Meter)
 - iii) Number : No(s).
 - iv) Volume : Cu. M
 - v) Area : Sq. M

2.0 PIPING

- 2.1 Length of pipes shall be measured along the curvilinear centre of the pipelines laid/ installed and shall include all types of specials, fittings, mitre bends etc. but excluding all types of valves. Length of valves shall be excluded from piping measurement and shall be considered on number basis.

3.0 FOR HDD CROSSINGS

Payment shall be made as specified in SOR, PJS and Technical Specification.

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**TERMS OF PAYMENT
(ANNEXURE-5 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

TERMS OF PAYMENT


Pending completion of the whole works, provisional progressive payments for the part of work executed by the contractor shall be made by Owner on the basis of said work completed and certified by the Engineer-in-Charge as per the agreed milestone payment schedule and the percentage break-ups given below.

Contractor shall submit his invoices to the Engineer-in-Charge fortnightly in the manner as instructed by Owner. Each invoice will be supported by documentation acceptable to Owner and certified by the Engineer-in-Charge. Payments made by owner to the contractor for any part of the work shall not deem that the Owner has accepted the work.

1.0 MAINLINE WORKS

1.1 Pipeline Laying with Associated Works

- | | | |
|-------|---|---------------------|
| 1.1.1 | After grading, stringing, trenching, welding, NDT, joint coating, lowering, backfilling and debris removal, (as per EIC's instructions) | 60% progressively |
| 1.1.2 | Tie-in, NDT & field coating of tie-in joints, backfilling, of respective area and TCP installation | } 10% progressively |
| 1.1.3 | Hydro-testing, dewatering, swabbing, thermit welding (as per respective item rate of SOR) wherever require, installation of route markers, final cleanup & restoration (as applicable) of ROU | 20% progressively |
| 1.1.4 | Submission of as built drgs. and documents line pipe book etc., reconciliation of material, final completion, handing over of complete pipeline system by Natural gas as per the direction from EIC and acceptance of the System by Owner
Subject to the following – | 10% progressively |
- i) The first stage payment of 60% as per sub-clause 1.1.1 above will be released on lowering & backfilling of pipeline and no intermediate stage will be acceptable. Further, for the purpose of payments a minimum continuous stretch of 1 km will be ~~considered~~
 - ii) The second stage payment of 10% as per sub-clause 1.1.2 above will be released on completion of continuous stretch of 1 km.
 - iii) For discontinuity on account of major crossings like NH, SH, BRTS roads, Water Bodies etc. specified in SOR including crossing of gate of hospitals / institutions, etc., station

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piping & pipeline laying inside CNG station crossing length shall not be taken into account for (i) & (ii) above for payment purposes.

1.2 Major/Minor (Road/water/ canal/ Nalla/ drain/ channel Crossings) Crossing

1.2.1 Completion of individual item of work as per SOR upto successful completion of Hydrotesting & related activities including supplies alongwith documents. : 80% progressively

1.3.2 After successful Commissioning & Submission of related Documents handing over of pipeline System : 10% progressively

1.3.2 After successful completion & handing over of pipeline System by Natural gas as per the direction from EIC & acceptance by Engineer-in-charge. : 10%

2.0 Liasioning for Permission/permits and licenses etc.

2.1 Liasioning with concerned authority and submission of demand note of concerned authority to Owner submission of permission letter to EIC, and laying of minimum 0.5 km stretch as per terms of payment 1.1.1 : 70% progressively


2.2 Final completion, handing over of complete pipeline system by Natural gas as per the direction from EIC and acceptance of the system by Owner. : 30%

3.0 Items Rate involving Supply & Erection both, Supply only, Erection only etc.

3.3.1 For Supply Items
a) 80% on receipt of material at site and inspection.
b) 10% on installation and testing.
c) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.

3.3.2 For Erection Items
a) 80% on completion of installation.
b) 10% on testing.
c) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.

3.3.3 For Items involving both Supply & Erection
a) 60% on receipt of materials at site and inspection.
b) 20% after erection and alignment.
c) 10% on testing.
d) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.

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4.0 CATHODIC PROTECTION WORKS

The basis for payment against various items shall be below:


4.1 Temporary Cathodic Protection System

- 4.1.1 5% on design approval of TCP Package. (Including design of Zn ribbon anodes on carrier pipes at all the cased crossings if required.)
- 4.1.2 40% on supply and acceptance of material at site as per approved bill of material indicated in TCP design package.
- 4.1.3 35% on installation, testing, pre-commissioning and commissioning.
- 4.1.4 5% on completion of monitoring period of TCP System as defined in Tender document.
- 4.1.5 15% on completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge & submission of as-built documents & drawings.

5.0 TERMINALS WORKS

5.1 Piping & Mechanical, Electricals and Instrumentation Works

- 5.1.1 For Supply Items
 - a) 80% on receipt of material at site and inspection.
 - b) 10% on installation and testing.
 - c) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.
- 5.1.2 For Erection Items
 - a) 80% on completion of installation.
 - b) 10% on testing.
 - c) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.
- 5.1.3 For Items involving both Supply & Erection
 - a) 60% on receipt of materials at site and inspection.
 - b) 20% after erection and alignment.
 - c) 10% on testing.
 - d) 10% after completion of all works in all respects including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge.

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5.2 Civil & Structural Works (Except control room building which shall be paid as indicated in respective SOR)

5.2.1 Completion of individual item of work including supplies : 90% progressively
as per SOR

5.2.2 Successful completion & handing over of terminal
including completion by Natural gas
as per the direction from EIC and acceptance by Engineer-in-charge.: 10%

6.0 Major Road/water/ canal/ nallah/ drain/ channel Crossings

6.1 Works regarding Major Road/water/ canal/ nallah/ drain/ channel Crossings by HDD Method:

6.1.1 On completion of Bore holes, submission of bore
hole report, Submission of HDD design and drawing : 10%
and approval of the same

6.1.2 On Completion of stringing of pipes, field joint
Welding, radiography, pre-hydrotesting of carrier : 20%
pipe and field joint coating

6.1.3 On Completion of Drilling and ready for pulling : 20%

6.1.4 On Completion of pulling of carrier pipe thru HDD : 30%
and post hydrotesting (if required)

6.1.5 On Completion of hydrotesting, dewatering, : 10%
swabbing


6.1.6 On Completion of material reconciliation,
Submission of as built drawings and : 10%
Documents, and handing over of pipeline
System by Natural gas as per
the direction from EIC and acceptance by Engineer-in-charge.

6.2 Works regarding Major Road/water/ canal/ nallah/ drain/ channel Crossings by Jacking Boring Method:


6.2.1 On completion of Bore holes, submission of bore
hole report, Submission of crossing drawing : 10%
and approval of the same

6.2.2 On Supply of casing pipe at site (from Approved vendor), : 20%
verification of TC and Preparation of IMIR

6.2.3 On completion of boring, including
Pushing of casing pipe, installation of drain/vent : 20%
Pipes


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- 6.2.4 On Completion of Insertion of carrier pipe including stringing, welding, NDT, field joint coating, : 20%
- 6.2.5 On Completion of post hydrotesting, installation of Casing end seal, completion of Tie in with existing Line (if available) radiography, Joint coating backfilling, and restoration : 20%
- 6.2.6 On Completion of material reconciliation, Submission of as built drawings and Documents, and handing over of pipeline System including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge. : 10%
- 7.0 Terms of payment for SOR (MDPE Laying)**
- 7.1 After completion of lowering, jointing of pipeline, Submission of TC, Area wise material consumption report etc as per the scope of work Testing & flushing of network : 70% progressively
- 7.2 Submission of As-built drawings & Submission of documents : 20% progressively
- 7.3 Material reconciliation & closure of contract including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge. : 10%
- 8.0 Any other item not covered above or elsewhere in the tender**
- 8.1 Completion of individual item of work as per SOR including supplies wherever involved : 90% progressively
- 8.2 After successful completion & handing over of terminal Tender including completion by Natural gas as per the direction from EIC and acceptance by Engineer-in-charge. : 10%
- 9.0 For Lumpsum Items:**
- 9.1 For all lumpsum items included in schedule of rates, contractor may furnish price break-up for quoted lumpsum items for the approval of Engineer-in-charge. Payment for such item either may be paid accordingly as per approved price break-up schedule or as per Sl. No. 8.0 mentioned above. In this regard decision of Engineer-in-charge shall be final and binding to the bidder.

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**SPECIFICATION FOR
QUALITY ASSURANCE SYSTEM REQUIREMENTS
(Annexure - 6 to SCC-TECHNICAL)**

(For Details - Refer our Technical Specification No. MNGL/Steel/TS/23 of the same enclosed in Vol-II of the Tender)

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**STANDARD SPECIFICATION
FOR
HEALTH, SAFETY AND ENVIRONMENTAL (HSE)
MANAGEMENT AT CONSTRUCTION SITES
(ANNEXURE – 7 to SCC-TECHNICAL)**

(FOR DETAILS - REFER OUR TECHNICAL SPECIFICATION No.
MNGL/Steel/TS/22 OF THE SAME ENCLOSED IN VOL-II OF THE TENDER)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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**CONDITIONS FOR ISSUE AND
RECONCILIATION OF MATERIAL
(ANNEXURE-8 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

1.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued by Owner, following conditions for issue of material in addition to other conditions specified in the contract shall be applicable.

- 1.1 Necessary indents will have to be raised by the Contractor as per procedure laid down by the Engineer-in-charge from time to time, when he requires the above material for incorporation in permanent works.
- 1.2 Materials will be issued only for permanent works and not for temporary works, enabling works etc. unless specifically approved by the Engineer-in-charge and the same shall not be taken into account for the purpose of materials reconciliation.
- 1.3 The contractor shall bear all other cost including lifting, carting from issue points to work site/ contractor's store, custody and handling etc. and return of surplus/ serviceable scrap materials to Owner's storage points to be designated by the Engineer-in-charge etc. No separate payment for such expenditure will be made.
- 1.4 No material shall be allowed to be taken outside the plant without a gate pass.
- 1.5 The contractor shall be responsible for proper storage, preservation and watch & ward of the materials.

1.6 Reconciliation of Owner supplied materials

- 1.6.1 With every RA bill, the contractor shall submit an account for all materials issued by Owner in the proforma prescribed by the Engineer-in-charge. On completion of the work the contractor shall submit "Material Appropriation Statement" for all materials issued by the Owner in the proforma prescribed by the Engineer-in-charge.

All coated line pipes as per line pipe specifications enclosed elsewhere in the bidding document, shall be issued on linear measurement basis. Optical Fibre Cables shall be issued in drum lengths of 4 km on linear measurement basis. Joints etc. shall be issued on number basis. All other piping materials shall be issued on numbers basis. All cut pieces pipes measuring in length measuring 2m to 9m when returned to Owner's storage points after bevelling, shall be considered as serviceable material. All cut pieces of pipes measuring less than 2m will be treated as wastage/ scrap. All pipes above 9m will be considered as good pipe.

- a) For the purpose of accounting of coated line pipes following maximum allowances shall be permitted.
 - i) Unaccountable wastage 0.1%
 - ii) Scrap (all cut pieces of pipes measuring less than 2 m) 0.25%
 - iii) Serviceable materials (all cut pieces of pipes measuring 2m upto 9m) 0.5%

Unaccountable wastage/ scrap shall be at actuals as per site assessment subject to maximum as stated above.

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The percentage allowance shall be accounted on the basis of final weld book chainage for main pipeline and erected/ approved fabrication drawings for station piping as mentioned below:

- b) For the purpose of accounting of station piping, all cut pieces measuring in length of 1m and above when returned to Owner's storage points after bevelling, shall be treated as serviceable materials. All cut pieces of pipes measuring less than 1m will be treated as scrap.

For the purpose of station piping following maximum allowances shall be permitted:

i)	Unaccountable wastage	0.1%
ii)	Scrap (all cut pieces of pipes measuring less than 1 m)	1.0%
iii)	Serviceable materials (all cut pieces of pipes measuring 1m and above)	2.0%

Unaccountable wastage/ scrap shall be at actuals as per site assessment subject to maximum as stated above.

- c) For the purpose of accounting of optical fibre cable & other materials used in telecommunication works. Reconciliation work for Owner supplied materials shall be carried out as per the scope detailed in Job Specification, SOR and relevant specification enclosed elsewhere with the tender.

For the purpose of cables following maximum allowances shall be permitted:


i)	Unaccountable wastage	0.1%
ii)	Scrap (all cut pieces of cables measuring less than 40m)	0.25%
iii)	Serviceable materials (all cut pieces of cables measuring 40 meter and above)	0.25%

- d) For the purpose of accounting of PE Pipes following maximum allowances shall be permitted.

i)	Unaccountable wastage	2%
ii)	Scrap (all cut pieces of cables measuring less than 2m)	2%


Unaccountable wastage/ scrap shall be at actuals as per site assessment subject to maximum as stated above.

- 1.6.2 All unused, scrap materials and salvageable materials shall be the property of the Owner and shall be returned by the Contractor category-wise at his cost to the Owner's designated store yard(s). In case the Contractor fails to do so/ or exceeds the limits of allowances specified above for scrap/ serviceable materials, then recovery for such quantities not returned as well as returned in excess of permitted limit by the Contractor will be done at the penal rate i.e. 125% of landed cost at the time of final bill/ closing of contract by Engineer-in-charge shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner. Contractor shall be responsible for the adjustment/ weighment/ measurement of the surplus materials to be returned to the

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store. Contractor shall also be responsible for suitable segregation of returned materials into separate stacks of serviceable and scrap materials.


- 1.6.3 Wherever certain material is covered under Contractor's scope of supply whether part or in full for any item of work covered under SOR, no allowance towards wastage/ scrap etc. shall be accounted for during execution stage.

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**TYPICAL LIST OF MAJOR EQUIPMENTS &
MOBILISATION OF EQUIPMENT TO BE DEPLOYED**
(ANNEXURE-9 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)

LIST OF MINIMUM NOS. OF CONSTRUCTION EQUIPMENT TO BE DEPLOYED:


Sl. No.	Equipment Description	Qty. (Nos.)
1.	Dozer D7/ D6 Or, Equivelent	-
2.	Excavator/ Back-Hoe (\geq Hitachi 100 or equivalent)	-
3.	JCB Or, Excavator/ Back-Hoe (\geq Hitachi 60 or equivalent)	4
4.	Side Boom/ Pipe Layer Or, Equivalent	4
5.	Hydra-(8-10 MT)	3
6.	Tyre Mounted Crane (20 MT)	1
7.	Diesel Welding Machine/ Welding Rectifier	6
8.	DG Set 120 kVA + Stabilizer	As required
9.	Automatic Bevelling Machine	As required
10.	Internal Clamp ND 6" & 4"	2 Nos. for each size
11.	External Clamp ND 6" & 4"	2 Nos. for each size
12.	Internal X-ray Unit (Complete)	2
13.	External X-ray Unit (Complete)	2
14.	Manual UT	-
15.	Gamma Ray Unit (Complete)	1
16.	Radiography Film Viewer	2
17.	Sand Blasting Unit (Complete)	3
18.	Air Compressor (Minimum 300 CFM)	3
19.	Air Compressor (Minimum 600 CFM)	3
20.	Holiday Detector	2
21.	Dewatering Pump	3
22.	Water Filling Pump of Adequate Capacity	3
23.	Dosing Pump of Adequate Capacity	2
24.	Pressurization Pump – Motorised (Adequate capacity)	1
25.	Complete hydrotesting kit (dead weight tester, pressure instrument, temperature inst. Etc.)	2
26.	Pipe Bending Machine	1
27.	Horizontal Augur Boring Machine	1
28.	HDD Machine with adequate pipe pulling capacity > 10Tminimum alongwith complete accessories/ equipment	2
29.	Mono Drill Crawler Mounted / Hand Drill (Pneumatic) withCompressor	1
30.	Pneumatic Drill (Tractor Mounted for Blasting) with Compressor	2
31.	Pipe Trailers of adequate size	3
32.	Concrete mixture	4

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Note:

1. Bidder is required to mobilise the above minimum critical equipments in good working condition and suitable to lay this 6" & 4" diameter pipeline. Bidder is required to augment the above list with additional numbers / categories of equipments as per actual requirement and instruction of Engineer-In-Charge without any additional financial implication to client.
2. As per actual site condition, or if Engineer-In-Charge feel necessary, bidder is required to deploy / open either more no. of working spreads or additional no. of working fronts / crews within specified length alongwith deployment of additional quantity of equipment to meet the stipulated completion / time schedule, without any additional financial implication to client.
3. Equipments required for ROW, GRADING, TRENCHING, ROCK BREAKING are required to be mobilised within 15 DAYS after award of contract and equipments for other activities within ONE MONTH. However contractor to ensure WELDING & NDT procedure and welders are qualified within ONE MONTH time after award of contract.
4. Bidder shall replace any defective / damaged equipment promptly to complete the work without any time & cost implication to the client / owner.
5. After completion of certain activities, in case equipments are not required the same can be demobilised with prior approval of Engineer-In-Charge.

(SIGNATURE OF BIDDER)

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TYPICAL LIST OF SKILLED MANPOWER TO BE DEPLOYED


(ANNEXURE-10 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)

Sl. No	Description	Requirement
1.	Linepipe Welders	4 Nos
2.	Station Pipeline Welders	2 Nos.
3.	Sand Blaster	3 Nos.
4.	Insulators	2 Nos.
5.	Heavy Equipment Operators	As per equip. list
6.	Other Equipment Operators	As per equip. list
7.	Pipe Fitters	3 Nos.
8.	Gas Cutters	3 Nos.
9.	Radiographer Level-II	2 Nos.
10.	Mechanic	3 Nos.
11.	Grinder	As required
12.	Drivers (Backhoe/ Crane/ Dover)	As required
13.	Riggers/ Helper	As required
14.	Survey Teams	1 Nos.
15.	Project Manager	1 No.
16.	Engineer	3 Nos.
17.	Foreman	3 Nos.
18.	Supervisors	One for each activity
19.	Engineer (M/L Civil & Mechanical)	4 Nos.
20.	Terminal Engineer (Mechanical)	1 No.
21.	Terminal Engineer (Civil)	1 No.
22.	Engineer (Telecom Work)	1 No.
23.	QC In-charge & Engineer for Welding & NDT	1 No.
24.	Planning Engineer	1 No.
25.	Safety Officer	1 No.

The above proposed list of skilled manpower is the minimum to be deployed by Contractor.


NOTE :-

- (1) HDD equipment and Crew as required shall be deployed based on the Scope of Work finalized and as per instruction of EIC.
- (2) The details of minimum manpower required to be mobilized by the execution contractor to complete the entire work within schedule given above and is not exhaustive. Contractor is required to augment the above list with additional numbers/categories of

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workmen as required and directed by Engineer-In charge to complete the work within the completion time schedule and quoted price.

- (3) The Manpower as identified above, should have required qualification and adequate relevant experience.
- (4) Contractor shall mobilize Project Manager, QA/QC Engineer, Planning Engineer, Safety Officer who will be the permanent employees of the Contractor.
- (5) CV of proposed Project Manager, QA/QC Engineer, Planning Engineer & Safety Officer to be submitted along with the bid. The experience should be minimum 5 years related to execution of Cross Country or City Gas Distribution Pipeline laying. (Contractor shall submit the CVs to the Project team before mobilizing the man-power at site)
- (6) Manpower shall be mobilized within 15 days of award of work.
- (7) Contractor should deploy exclusive QA/QC engineers with BE/Diploma and ANST Level-II (RT,UT,MPT & DPT) qualification and relevant experience in steel pipeline laying and related works. The person should possess working knowledge about different welding methods, welding equipment's, consumables etc, destructive and non-destructive testing methods etc. The person shall be available for entire duration of execution of work.


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**SCHEDULE OF LABOUR RATES
(ANNEXURE-11 TO SPECIAL CONDITIONS OF
CONTRACT – TECHNICAL)**

**SCHEDULE OF LABOUR RATES
(FOR EXTRA WORKS)**

1. The Labour rates are “all inclusive”. These rates include but are not limited to all payroll costs and allowances, payroll taxes, fringe benefits, protective and/or special clothing, construction supplies required for work of a nature included in this contract, overhead, profit insurance, transportation and travel time.
2. The rates are inclusive of providing hand tools, machinery such as welding machine, grinding machine, gas/welding cutting set and consumables such as fuel, lubricants, electrodes, filler wire, gases, grinding wheels where the concerned category of labour is expected to use in execution of the job but exclusive of all major equipment and machinery like cranes.
3. The normal time labour rates shall apply for all hours worked upto eight (8) hours in a day and overtime rates shall apply for all hours worked in excess of eight (8) hours in one working day, Sunday and Public Holidays. The payment for part of the day shall be made on prorata basis.


Sl No.	Classification Personnel	Rates in INR (for 8 hours) Standard Time(in Rs.)
1.	Engineer	3300/-
2.	Surveyor Foreman	2475/-
3.	Pipe Fitter	825/-
4.	Pipe Welder	1650/-
5.	Gas Cutter	1155/-
6.	Grinder	1155/-
7.	Mason	660/-
8.	Plumber	660/-
9.	Carpenter	760/-
10.	Painter	660/-
11.	Electrician	825/-
12.	Cable Jointer	990/-
13.	Instrument Technician	990/-
14.	Rigger	570/-
15.	Watchman/Helper	390/-
16.	Concrete Mixer Operator	660/-
17.	Heavy Machine Operator	910/-

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(SIGNATURE OF BIDDER)

NOTES:-

1. Rates for working beyond 8 hours shall be 1.5 times of the hourly rate worked out by dividing above rate by 8 hours.
2. Rates are final and bidder is required to agree without any deviation(s)

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SCHEDULE OF EQUIPMENT RATES FOR EXTRA WORKS


(ANNEXURE-12 TO SPECIAL CONDITIONS OF CONTRACT - TECHNICAL)

SI No.	Description of Equipment	Hourly rental rates for Extra works including consumables
1.	Dozers	Rs. 1100/-
2.	Back Hoe 1.2 m ³	Rs. 1500/-
3.	Back Hoe 0.7 m ³	Rs. 1000/-
4.	Side Boom 45 ton	Rs. 2000/-
5.	Side Boom 15 ton	Rs. 1200/-
6.	Boring machine	Rs. 7040/-
7.	Bending machine	Rs. 400/-
8.	Welding machine	Rs. 300/-
9.	Compressors 210 CFM	Rs. 500/-
10.	Crane upto 15 T	Rs. 1100/-
11.	Dewatering Pumps	Rs. 125/-
12.	Internal Clamps	Rs. 50/-
13.	Holiday detector	Rs. 50/-
14.	Diesel operated power generators	Rs. 200/-
15.	Grinding machine	Rs. 50/-
16.	Gas cutting set with cylinders	Rs. 100/-
17.	Compressor 600 CFM Capacity	Rs. 750/-
18.	Trucks	Rs. 225/-
19.	Car/Jeep	Rs. 200/-
20.	Pipe beveling m/c	Rs. 150/-
21.	Tractor with trolley	Rs. 225/-
22.	Tripod with 5 Tons Chain	Rs. 100/-
	Pulley Block	
	Pipe Trailor 20 T capacity	Rs. 450/-
23.		
24.	High pressure test pump upto 200 Bar capacity	Rs. 450/-
25.	Dumper	Rs. 350/-
26.	External x-ray with generator	Rs. 500/-


(SIGNATURE OF BIDDER)

NOTES:-

1. Rates are final and Tenderer is to sign only without deviation.

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3.0 JOB SPECIFICATION

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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3a) PARTICULAR JOB SPECIFICATION FOR MAINLINE, MECHANICAL & ASSOCIATED WORKS

CONTENTS

Sl.No.	Description
1.0	General & Project Description
2.0	Work Tendered
3.0	Scope of Work
4.0	Scope of Supply
5.0	Documents, Specifications, Standards & Drawings
6.0	Resources/ Facilities
7.0	Project Scheduling & Monitoring
8.0	Construction
9.0	Documentation
10.0	Order of Works/ Permissions/ Right of Entry/ Care of Existing Services
11.0	Make of Material/ Bought Out Items
12.0	Inspection of Supply Items
13.0	Escalation
14.0	Documents to be submitted alongwith R.A. Bills
15.0	Insurance for Free Issue Material
16.0	Special Points pertaining to Specification
17.0	Appendix-I (List of approved parties for Bought Out Items)

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1.0 GENERAL & PROJECT DESCRIPTION

1.1 GENERAL

- 1.1.1 Special Condition of Contract shall be read in Conjunction with the General Conditions of Contract, specification of work, Drawing and any other documents forming part of this contract wherever the context so requires.
- 1.1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the contract so far as it may be practicable to do so.
- 1.1.3 Where any portion of the General Condition of Contract is repugnant, to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to override the provisions of the General Condition of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.1.4 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the TECHNICAL SPECIFICATIONS contained herein and CODES referred to. Where the technical specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.1.5 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain work or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.1.6 It will be Contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.
- 1.1.7 In the absence of any specifications covering any material, design of work(s) the same shall be performed/ supplied/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.

1.2 PROJECT DESCRIPTION

M/s Maharashtra Natural Gas Limited (MNGL) intends to Laying and Construction of 6" x 19 kms (approx.), & 4" x 3.1 kms U/G Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA.
In addition to above 6" & 4" Steel Pipelines, some tap-off shall be made on proposed Steel Pipeline as required at site.

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All size of tap-off provision made on proposed 6" & 4" pipeline network shall be kept underground.

Entire buried pipeline network system shall be Cathodically protected by providing TCP system.

Testing, pre-commissioning & assistance in commissioning of entire pipeline and piping system.

Brief scope of work for above are mentioned below in Table-A under Clause no. 1.2.1.

Project Details

Description of Sections - Mainline and Terminals / Stations

1.2.1 General

The work being tendered is covered as indicated below :

Laying and Construction of 6" x 19 kms (approx.) & 4" x 3.1 kms U/G Steel Pipeline and Associated Works from Harohalli to the Bamul Plant in the Ramanagara GA.

Laying of Steel Pipeline along-with MDPE

- Complete all related works for all sizes on proposed 6" & 4" NB Steel Pipeline.
- Crossing by Open Cut/HDD/ boring.
- Laying of Pipeline by HDD/Jacking Boring method along or across the Road/Water body wherever open cut permission is not available.
- Supply of fittings, warning mats, assorted pipes, flanges & fittings, valves, insulating joints, elbows and barred tee & material mentioned in SOR
- Hook-up works at OWNER's existing facilities, if any,
- Hook-up works at proposed facilities, wherever required, along with supply, fabrication and erection of aboveground piping system at Stations, wherever required.
- Construction of SV Stations with valve pits.
- Temporary Cathodic Protection
- Testing, pre-commissioning and Commissioning


Note:

1. **MNGL reserves the right to change the pipeline route depending upon the availability of Permissions from the local authorities.**
2. **The contractor shall bound to carry out all works simultaneously for each stretch of pipeline that may be handed over to him by Owner.**

1.2.2 Description of the facilities covered in the above are described in following clauses.

1.2.2.1 Main Pipeline for all sections

- Line Size : 6" & 4"
- Line Length : 6" x 19 km (approx.) & 4" x 3.1 kms steel pipeline for Ramanagara GA
- Class : 300 #
- Design Pressure : 49 kg/cm² (g) for Gr. X-52

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• Material of Pipe & Grade	:	API 5L X52
• Wall Thickness	:	6.4 mm
• Coating Material	:	3 Layer PE
• Design Code	:	ANSI/ ASME B31.8 (Latest Edition)
• Corrosion Allowance	:	0.5 mm
• Major Water Crossings	:	As per SOR
• Major Road Crossings	:	As per SOR
• Rail Crossings	:	As per SOR
• Gas Temperature (Design)		
- Buried	:	45°C
- Overground	:	65°C
• Cathodic Protection Works	:	As per PJS & SOR
• Telecommunication Works	:	As per PJS & SOR

Associated underground piping works alongwith installation of Barred Tees, Insulating Joints, all type & sizes of valves; Civil Works, Structural Works and Instrumentation Works.

1.2.2.2 Terminals / Stations/ Tap-off:

i) SV Stations/Tap-off:

- Burried installation of gas actuated extended stem full bore ball valves, ball / globe valves of different sizes with above ground gas venting facilities shall be provided at every alternate SV Station as per drawing.
- Burried installation of future tap-off provision.
- Burried installation of Insulating Joints at all tap-off points, wherever required in-addition to SV stations.
- Burried installation of all types and sizes of valves on mainline & branch line.
- Associated piping, civil, structural & instrumentation works.


2.0 WORK TENDERED

2.1 Work tendered in this package pertains to installation of complete pipeline and associated facilities, distribution / branch lines for various consumers, CNG stations, DRS's, completing the left out patches in the P/L network, hook-up with existing pipelines and all associated mechanical, civil, structural, instrumentation / telecommunication works.

2.2 The detail of the pipeline to be laid is as follows:

6" NB, WT 6.4 mm, API 5L Grade X52: 19000 Meters
4" NB, WT 6.4 mm, API 5L Grade X52: 3100 Meters

Best endeavour has been made to incorporate maximum details & no. of pipeline sections (drawings) in the tender documents however no. of pipeline section may

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increase or decrease and contractor shall mobilize his recourses to carry out the job when & where required by MNGL.

2.3 The Contractor shall broadly carry out the following activities:

2.3.1 Laying of underground 6" & 4" NB Carbon steel Pipeline complete with associated facilities from the existing / proposed Tap-off points from the existing Basic Steel Grid to proposed location.

2.3.2 Aboveground Valve Installations, Valve Pits / Valve cabins wherever required.

2.3.3 Installation of pipeline by crossings of rail, road, utilities, underground pipelines & water bodies (drain, Stream, Culvert, Nallah etc.)

3.0 SCOPE OF WORK

The scope of work shall generally be, but not limited to the following:-

3.1 Procurement

3.1.1 CONTRACTOR shall procure and supply all the materials other than OWNER supplied materials, required for permanent installation of main pipeline and terminals in sequence and at appropriate time. All equipment, materials, components etc. shall be suitable for the intended service. Approved vendor list has been indicated in the bid package for various items. For items which are not covered in the vendor list, CONTRACTOR shall obtain Owner's prior approval for the vendor. Equipment requiring specialized maintenance or operation shall be avoided as far as possible. Equipment offered shall be field proven.


3.1.2 CONTRACTOR shall procure all materials, components, equipment, consumable etc. required for successful completion of the pipeline system. CONTRACTOR shall also procure and supply spares required for pre-commissioning and commissioning/ start up as recommended for all items supplied by him as per specifications provided in the bid package. Where no specification is available in the contract, the same shall be prepared by the CONTRACTOR based on the piping material specification and shall be subject to Owner's approval.

3.1.3 Material take-off with complete description of size, rating material and thickness.

3.1.4 Only single offer shall be provided by the bidder fully complying to specifications/ drawings/ requirements for Owner's review and approval. CONTRACTOR shall provide for inspection of the items at vendor's works by the OWNER/ Owner's REPRESENTATIVE or by a reputed inspection agency and shall submit inspection reports for Owner's clearance.

3.1.5 Stores management including receipt, warehousing, preserving the material in good condition, issue of material to construction site, reconciling/ handing over surplus material to OWNER for OWNER supplied items.

3.1.6 Carryout proper documentation of inspection and quality assurance programmes for all equipment and bulk materials duly approved by OWNER. CONTRACTOR shall maintain

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an accurate and traceable listing of procurement records for the location, quality and character of all permanent materials in the Project.

- 3.1.7 CONTRACTOR shall immediately report to the OWNER of all changes which will affect material quality, and recommend any necessary corrective actions to be taken.
- 3.1.8 Submit periodic manufacturing progress reports highlighting hold ups and slippages, if any, to OWNER and take remedial measures.
- 3.1.9 Interact with authorities such as Sales Tax, Octroi, Excise, Customs etc. as necessary and arrange for transportation of the materials under his scope of supply to site.
- 3.1.10 All purchase requisitions including purchase orders shall be approved by OWNER/ Owner's REPRESENTATIVE.
- 3.1.11 Compliance with vendors and supplier's instructions and recommendations for transportation, handling, installation & commissioning.

3.2 Construction

3.2.1 General

- 3.2.1.1 All construction works shall be carried out as per "Approved for Construction" drawings, procedures, specification and applicable codes and standards. Any changes at site shall also need prior approval from the OWNER and revision of drawings. Construction drawings will be submitted by the Contractor in a phased manner for owner's approval in accordance with the procurement and construction plan prepared and furnished by contractor & agreed by Owner.

Owner will take minimum 7 working days from the date of submission of the documents / drawings submitted by the contractor for owner's comments / approval.

3.2.1.2 Statutory Approvals

The basic / in principal approval/ all permissions, permits and licenses with concerned authorities for laying the pipeline come under the contractor's scope and the payment will be given as per the SOR item. The Contractor at his own initiative shall obtain all permissions, permits and licenses necessary for the performance of the work. If any such permission, permit or license required for the performance of the work by the contractor can only be granted at the request or recommendation of the Owner, the Owner shall at the request of the Contractor, provide recommendatory letters to the contractor to obtain or procure the same. The contractor shall not, however be entitled to any additional compensation over and above contracted rates of services for any hardship or increased cost caused by any idleness, suspension or disruption of work or any other account whatsoever as a result of the inability of the contractor to obtain the permission(s), permit(s), license(s) aforesaid to match with the progress of the work nor shall the same constitute a ground for extension of time.

- a) The approval from any authority required as per statutory rules and regulations of Central/ State Government, PWD, Irrigation Deptt. etc. shall be the contractor's responsibility unless otherwise specified in the tender document. The application on behalf of the Owner for submission to relevant authorities alongwith copies of

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required certificates complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction/ commissioning of the work is not delayed for want of the approval/ inspection by concerned authorities. The Contractor shall arrange the inspection of the works by the authorities and necessary coordination and liaison work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actuals by the Owner to the Contractor on production of documentary evidence.

- b) The defective work resulting from poor workmanship and/ or material supplied by contractor, as pointed out by any statutory authority shall be rectified by the contractor at no extra cost to the Owner. Any change/ addition required to be made to meet the requirements of the statutory authorities, the same shall be carried out by the contractor free of charge. The inspection and acceptance of the work by statutory authorities shall, however, not absolve the contractor from any of his responsibilities under this contract.

- 3.2.1.3 The Contractor shall comply with all the conditions and requirements issued by Authorities having jurisdiction in the area where the work is to be performed.

It shall be the Contractor's sole responsibility to make arrangements for land for setting up of its string fabrication yards, all storage areas for line pipe and other materials, wherever required, and all other work areas.

The Contractor shall make all arrangements for access to his work site at his own cost and responsibility. If no public road exists Contractor shall arrange on his own for access to his work area at no extra cost to the COMPANY.

The CONTRACTOR shall be responsible for claims if any arising out of damage/ obstruction to public utilities like lines of DOT etc. where the claims will cover the restoration costs as well as loss of revenue due to down time.

- 3.2.1.4 Providing schedules, progress reporting, organization chart at construction site, quality assurance plan and developing quality control procedures, as per requirements indicated elsewhere in the bid package.


- 3.2.1.5 Coordination and supervising the work of sub-contractors.

- 3.2.1.6 Transportation of appropriate materials and taking delivery of Company supply materials, store, worksite, intermediate storage points, maintaining and operating an adequate material control procedure at worksite.

- 3.2.1.7 Fabrication of all piping, structural components as per approved drawings.

- 3.2.1.8 All civil / structural works, laying and preservation / commissioning of pipeline works shall be performed in accordance with relevant specifications and requirements enclosed elsewhere in the bid package.

- 3.2.1.9 CONTRACTOR shall provide complete details of manpower, equipment etc. to be deployed. Mobilizing and providing all equipment's, manpower (skilled and unskilled), consumable and other resources etc. for each spread as required for the execution of the

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complete job defined herein and thereafter demobilizing the same upon completion of work.

- 3.2.1.10 Provide, maintain and operate all temporary facilities required for the construction related works and remove after completion of work. Providing barricading at trench in city area as per instruction of engineer in charge for safety
- 3.2.1.11 Hook up/ tie-in of pipeline and SV stations buried / aboveground piping system.
- 3.2.1.12 All works related to testing, dewatering, swabbing, drying pre-commissioning and preservation / commissioning of the work tendered.
- 3.2.1.13 Idle time preservation of pipeline, if required.
- 3.2.1.14 All incidental and associated works and any other works not specifically listed therein but are required to be carried out to complete entire work related to pipelines and terminals.

3.2.2 Main Pipeline


3.2.2.1 Topographic Survey

The contractor shall be deemed to have to familiarize themselves with route prior to quoting and take care of all the eventualities. No extra cost shall be admissible in any form at a later date. Any additional survey/ route survey and their details required either for local detours during execution or for which the survey work for sections of pipeline have not been carried out by owner, shall be carried out by contractor in similar manner without any extra cost to the owner. However, laying and construction of entire pipeline including detoured portion and pipeline section/ sections of pipeline for which survey work has not been carried out by Owner, shall be within the scope of contractor without any cost implication. **Contractor shall be deemed to have considered such survey works while formulating his bid.**

Preliminary schematic layout of city gas steel pipeline & facilities for **Ramanagara GA**, Typical arrangement of SV stations drawings and other standard drawings are included in the Bid Package. These drawings are indicative & tender purpose only and are furnished to enable Bidder to estimate the quantum of work and to quote a firm price for the work. Final construction drawings of all type shall be prepared and submitted for approval to Owner by successful bidder / contractor at or before project execution stage. Approved for Construction drawings may vary to some extent from the drawings included in the Bid Package. Contractor shall carry out all works in accordance with the construction drawings duly approved by Owner without any extra time & cost implication to the Owner.

3.2.2.2 Familiarization of Pipeline Route

Bidders are advised arrange to carry out survey and preparation of Alignment sheets, make site visits to familiarise themselves with all the salient features of terrain and available infrastructure along the pipeline route. Contractor shall be deemed to have considered all constraints and eventualities on account of site conditions along pipeline route while formulating his bid. Contractor shall not be eligible for any compensation in terms of cost and/ or time, on account of site conditions along pipeline route varying to any extent from whatever described in the Bid Package and the drawings furnished along with the Package.

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3.2.2.3 Soil Investigation

It shall be Bidder's responsibility to familiarise himself with sub-soil conditions along the pipeline route, and work out the lengths of pipeline to be laid in different subsoil conditions including quantum of rock excavation by control blasting (Permission / approval / NOC / work permit will however be obtained by the contractor) / cutting and chiseling of hard soil / rock / stone, that would be necessary and shall be required while formulating their bid. **Unit rates for pipeline construction as quoted by Bidder shall include the above and be inclusive of all excavation excluding hard rock (i.e. which cannot be excavated manually without the use of mechanical equipment like rock breaking machine etc.).**

The survey drawings / documents detail to the extent available are being furnished to the bidder alongwith tender document. It shall be bidder's responsibility to verify the available data and satisfy himself with regard to accuracy and utility of data.


- 3.2.2.4 The city condition field / other fields may have lots of PVC, PE & utility pipelines or other pipelines & cables being used for city utility / other utilities purposes. CONTRACTOR shall ensure that these lines shall not be damaged/ cut affecting the water / power / communication / other supply to concerned Users / Owners / Authorities. Wherever required temporary necessary precautions had to be maintained for uninterrupted supply.

3.2.2.5 Right-of-use (ROU)


For pipelines construction purposes, in Ramanagara GA condition pipeline restricted ROU / Corridor shall be made available itself by Contractor for which payment will be given to contractor as per SOR item, the pipeline shall be laid in restricted ROU / Corridor along side of the existing road, inside available corridor, below road / rail / utility culvert, etc. in city areas.

Where the pipeline passes through city areas / industrial areas / forest areas etc., the ROU will be restricted to required width may reduced upto 1 metre as made available by concerned department. Contractor shall carry out construction work in the width as made available to him with no time and cost implication to the Owner. It shall be Contractor's sole responsibility to make arrangement for any additional land required for fabrication, construction, storage and all other work areas, if required.

- 3.2.2.6 "Receiving and Taking-over" as defined in the specifications of OWNER supplied externally corrosion-coated and bare line pipes at Owner's designated stacking yards/ dump site. Management of dumpsite after receiving and taking over of pipes transportation including loading/ unloading, handling, stacking, hauling and stringing of pipes from Owner's stacking yards to Contractor's worksite(s)/ workshop(s)/ pipeline Right-of-use (ROU), including arranging all necessary intermediate storage area(s) required thereof till the pipes are installed in permanent installation.
- 3.2.2.7 Carrying out inspection of OWNER supplied line pipes and pipe corrosion coating at the time of receiving and taking-over. Carrying out all repairs, to pipe and pipe coating, including supply of all materials. All handling, lifting, stacking of coated/ bare pipes required during inspection.

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- 3.2.2.8 Carrying out repairs (including supply of all materials) of line pipe and pipe coating which will include repair of all defects/ damages occurring during transportation and / or handling after receiving and taking over.
- 3.2.2.9 Loading, unloading, handling, stacking, storing and transportation to workshop/ work site of all materials that may be used for the construction of pipeline system either supplied by OWNER at their designated stack yard/ dump site/ store and/ or by CONTRACTOR as the case may be.
- 3.2.2.10 ROU acquisition / principal permission of laying the pipeline including permission for all crossing i.e. rail, road, river, foreign hydrocarbon & utility pipelines, utility cables etc. will be responsibility of the contractor. However obtaining all necessary approvals, work permits and liasioning / coordination works for ROU acquisition / permission for laying of pipeline and its all crossing from concerned local authorities and respective OWNER's having jurisdiction, as applicable for performing the work including shifting/ relocation and restoration of telephone/ electrical poles and underground pipes and other utilities etc. as required by local authorities and as directed by OWNER shall be responsibility of contractor.
- 3.2.2.11 Stacking, clearing, grading, fencing of Right-of-Use (ROU) as required, trenching to all depths in all types of soil including soft & hard rock, controlled rock blasting (if permitted, however, permission / approval / NOC / work permit will be obtained by the contractor) by special techniques, chiseling or otherwise cutting etc. to a width to also accommodate the HDPE duct / cable as per relevant standards, drawings, specification etc. transportation of coated pipes to ROU along the route, stringing, aligning, bending, welding, NDT including radiography by X-ray (Gamma ray will only be permitted in inaccessible area like tie-in pit etc., where Engineer-in-charge feels necessary and decision of Engineer-in-charge shall be final & binding to the contractor) and ultrasonic (if required), inspection, field weld joint coating including supply of all materials, protective coating of long radius including supply of materials as per specifications, sand padding, laying and lowering of the pipeline, back filling, slope breakers as required, carrying out road, canal, utility and submerged minor water course crossings including bank stablisation of water course crossings as required, crossing of nallah/ canal by conventional method. Supply and installation of antibuoyancy measures viz. continuous concrete coating, saddle weights, extra cover etc. on pipeline as shown in approved drawings and as directed by OWNER, installation of supports wherever required, supply of select backfill material as required, clean-up, pigging, flushing, gauging, hydrostatic testing with the quantity of inhibitor as required, dewatering with the additive, at required dosage, swabbing, pre-commissioning and commissioning of complete pipeline system, including all associated works as per relevant specifications, standards and approved drawings.
- 3.2.2.12 Welding of all tie-in joints including tie-in joints and bends on either side of major river crossings/ with adjoining pipeline installed by others/ other facilities as required, cutting of test header, rebevelling and tie-in with adjacent pipeline segments.
- 3.2.2.13 Field weld joint coating shall be by heat shrink sleeve (Shri Narayan Imapc India or equivalent) / other suitable material as per specification enclosed with bid package compatible of pipe coating material.

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3.2.2.14 Carrying out corrosion coating of Long Radius (LR) bends if any. Coating shall be carried out by heat shrink sleeve (Shri Narayan Imapc India or equivalent) / other suitable material as per specification enclosed with bid package for field joint coating as mentioned in clause 3.2.2.13 above.

3.2.2.15 Installation of casing pipes (by open cut/ trenchless method) assembly, including supply of all materials viz. casing pipe, casing insulators and end seals, vents and drains etc. complete, at cased crossings as per the drawings/ specifications enclosed with bid package.

Cased crossings shall be installed at locations indicated in alignment sheets or as per SOR or as per instruction of owner. The number of crossings indicated in alignment sheets or as in SOR is subject to change based on engineering, construction and statutory requirements or the requirements of the authority having jurisdiction over a utility crossing.

3.2.2.16 All works/ provisions including installation of slope breakers to be provided in the trench in areas where slope is more than 1 in 10.

3.2.2.17 Sand/ soft soil padding around pipe wherever required in areas where trenching has been done in hard soil area / rocky area including supply of sand/ soft soil. The thickness of sand/ soft soil padding at the top of coated pipe shall be minimum 150 mm and bottom of coated pipe shall be minimum 150 mm or as per standard drawing no. MNGL/Plng./Steel/03, whichever is more.


3.2.2.18 Installation of all inline/ online instruments/ valves/ insulation joints/ appurtenances etc. as per requirements of approved drawings.

3.2.2.19 Crossings

For all crossing, including above mentioned shall be crossed by heaviest wall thickness carrier pipe among available pipes at site or as per approved drawings/ as decided by Engineer-in-charge.

3.2.2.19.1 Railway Crossings -

The general arrangement drawings for railway crossings shall be approved by Indian Railways and construction shall be carried out accordingly. These drawings shall be made available to the Contractor at appropriate time during the execution of the project. Pipeline at railway crossings shall be provided with a casing pipe. The casing pipe shall be at least three nominal pipe sizes larger than carrier and shall be installed by boring/ jacking. It should be noted that the extent of casing pipe generally specified by Railways, is 15.0m beyond centrelines of the outermost tracks on either side or 0.6 meter beyond the ROU limits of railways on either side, whichever is more. All railway crossings shall be cased crossings. The railway crossing shall comply with the requirements of API 1102 and Indian Railway regulations. The crossing angle shall be as close to 90° as possible.

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3.2.2.19.2 Road Crossings

- i) Contractor shall firm the method of crossing of roads such as open cut/ boring up in consultation with concerned authorities and Company. The Contractor shall also take due care to identify and take due precautions so as not to disturb or damage the utilities like cables, water lines and other structures.
- ii) After laying the pipeline in a road crossing by open cut method, the Contractor shall either completely backfill the road & make ready for restoration or completely restore the road to its original condition depending upon instructions of Owner / EIC.
- iii) While laying the pipeline in road crossings by open cut method the Contractor should ensure that the traffic is not stopped during the execution of work. This may be done by cutting half of the road at a time so as to enable the traffic to pass on the remaining half of the road. Alternatively, the Contractor can provide diversion roads to maintain the flow of traffic.
- iv) The Contractor shall provide proper caution boards during day time and danger lights during night time when the cutting operation of the road is going on.

For cased crossings, the pipeline should be taken through the casing pipe which should be at least 1.2 m below the road top as specified or as per the requirements of local authorities, whichever is higher. All national highway and state highway as indicated in relevant drawings/ alignment sheets/ or as directed by Engineer-in-charge shall be cased crossing.

3.2.2.19.3 Crossings of rivers/ streams/ canals by conventional method:

- i) No damage should be caused to any irrigation sources, while laying the pipeline through canal crossings.
- ii) The flood banks of the River/ Canal should be brought to the original condition, if they are damaged by the laying of the pipeline. Stabilisation of banks shall be carried out as per requirements of concerned authorities.
- iii) In general the top of the pipeline shall be taken at least 1.5 metre below the scour level of river crossing. If scour level is not known minimum 2.5m cover should be kept unless specified otherwise.
- iv) The top of pipeline shall be at least 1.5m to 2.0m below the drain/ canal bed unless specified other wise.
- v) Pre-construction survey, preparation of the detailed construction methodology/ plan and time etc. shall have to be finalised by Contractor in consultation with concerned authorities having jurisdiction over canals/ rivers. Company shall provide assistance by providing introductory letters.
- vi) Pre-construction surveys, preparation of detailed construction method statement and calculations for Owner's approval.
- vii) Geo-technical investigations, if required.
- viii) Site preparation, arranging required land for setting up of string fabrication yard and obtaining necessary permissions from concerned authorities.
- ix) Preparation of pipeline Launch way, continuous concrete coating of pipes, repair of damages to corrosion and concrete coating, string preparation, field welding, NDT including radiography, pretest of

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- completed strings, corrosion and concrete coating of field joints. Trenching, laying at approved depth, stabilisation of banks, post installation hydro-test, capping, providing and installing of markers, etc.
- x) The major canals with lining/ perennial canals need to be crossed by HDD/ boring method only.

3.2.2.19.4 Deleted

3.2.2.20 Hydrostatic Testing, Dewatering, Swabbing and Drying of Pipeline

Contractor shall hydro test the pipeline as per specification enclosed with tender. The test duration shall be minimum 24 hours. After successful completion of hydrostatic testing of the pipeline, Contractor shall dewater the pipeline.

After completion of dewatering operations, Contractor shall carry out swabbing of pipeline by running several pig trains consisting of high/ medium/ low density foam pigs propelled by compressed air through the pipeline. Prior to their launching, Contractor shall weigh the pigs. On arrival of the pigs at the receiving end they shall be re-weighed. The swabbing operation shall be repeated till the weight of the last received foam pig does not increase by more than 50% or 10 runs of foam pigs whichever is earlier.


The pipeline/ section(s) of pipeline shall never be left empty (filled with air) after dewatering/ swabbing. Contractor shall take up dewatering and swabbing of pipeline after hydrotesting only when Contractor is ready for carrying out the drying operation immediately following pipeline swabbing. Till such time Contractor is ready to start drying of pipeline, the pipeline/ section(s) of pipeline after hydro testing shall be kept filled with inhibited water or the pipeline/ section(s) of pipeline shall not be dewatered. Preservation of pipeline using inhibited water from the time of completion of hydro testing till Contractor is ready for drying of pipeline, shall be carried out by Contractor as part of his scope of work at no extra cost to Owner.

After the results of swabbing operation has been accepted by Owner, nitrogen purging of line may be started for pre-commissioning activities as per specification.

Pre-hydrotesting of aboveground mainline section shall be carried out separately and test duration shall be minimum 6 (six) hours.

3.2.2.20(A) Leak Detection

- a) Contractor shall submit a detailed procedure for detection of anticipated/ probable leak which is likely to be found during hydro test. Such method of detection shall consume minimum possible time to complete the hydrotest activity within contractual completion schedules. This procedure needs prior approval.
- b) For Major Leak/ Burst (attributable to Owner) which can be traced visually by re-excavation – rates for locating and rectification shall be paid as per item included in mainline SOR for each Leak/ Burst.
- c) For Minor suspected Leak (attributable to Owner) which can not be visually located and which requires sectionalising of pipeline or any other suitable means, rates of activities for leak detection shall be derived from

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rates of equipments and manpower available in the Contract. However for the pipe which needs to be replaced after the leak has been located, the payment will be made as per SOR item i.e. same as (b) above.

In case after sectionalisation/ other method no leak is detected, for such eventuality no payment will be made for efforts made for sectionalising/ other means.

3.2.2.21 Hydrostatic Test Pressure

The pipeline shall be hydrostatically tested to a minimum test pressure 1.4 times the design internal pressure and in no case test pressure of the pipeline shall exceeds 1.5 times the design internal pressure.

3.2.2.22 All tie-in joints including tie-ins with existing facilities, if any. All tie-ins shall be welded tie-ins.

3.2.2.23 Markers

Installation of all types of markers including all associated civil works. Any other work not specifically mentioned above but required for making the entire pipeline system ready for operation.

3.2.2.24 CATHODIC PROTECTION – Scope of Work as per respective PJS, SOR & technical specification

3.2.2.25 Priorities

The Contractor shall start the execution work for entire length of mainline simultaneously and shall deploy adequate manpower, machinery, tool & tackles etc. accordingly.

However, Owner may, at its sole option, assign priority of construction to either any spread or any section in spread of total pipeline length or to any part/ segment of the work. Contractor shall comply with such priority of execution and their deployment without any time and cost implication to the Owner.


3.2.2.26 Survey Pillars – Deleted

3.2.2.27 Forest/ Plantation Areas

Where the pipeline route passes through forest/ plantation areas, Contractor shall clear only the minimum width required for laying the pipeline as per Owner approved procedure for pipeline construction. Number of trees/ plants to be felled down shall be restricted to a minimum.

3.2.2.28 Restoration of ROU

Clean-up and restoration of ROW and other conveniences like road, rail, canals, cultivable land etc. to original conditions as per specification and drawings to the entire satisfaction of OWNER and/ or Authorities having jurisdiction over the same, including disposal of surplus construction materials to a location identified by CONTRACTOR approved by local authority without causing any disturbance to environment, locals and to the entire satisfaction of OWNER.

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Upon restoration of ROU the Contractor shall furnish documentary evidence in support of acceptance of the same duly signed by land Owner without any extra cost.

3.2.2.29 Preparation and submission of as built drawings, pipe books, documents, photographs of major activities, and project records as per specification and instructions of the OWNER including furnishing of all Test Certificates/ Inspection Reports for all materials used for permanent installation in requisite numbers as mentioned elsewhere in this document.

3.2.2.30 **Idle Time Preservation of the Pipeline – (if required)**

3.2.2.31 **ROW Clearing**

During ROU clearing, the vegetation shall be cut off at ground level leaving the roots intact. Only stumps and roots directly over the trench shall be removed for pipeline installation.

3.2.2.32 **Pre-commissioning and Commissioning Assistance**

3.2.2.32.1 Drying and pre-commissioning including supply of all materials, consumables and manpower of the complete pipeline system and terminal piping work.

3.2.2.32.2 Making the entire system ready for commissioning and providing assistance during the complete duration of commissioning operations.

3.2.2.32.3 Completion of all mainline activities as detailed in SOR.

3.2.2.32.4 Complete N₂ purging before the start of welding at all hook up works


3.2.3 **Terminals (Tap-off Point, SV Stations etc)**

3.2.3.1 **Piping Works**

- Supply of assorted pipe, fasteners, gaskets, fittings, flanges, utility piping & piping supports and other supply wherever specified as per SOR.
- Taking delivery of free issue materials from MNGL 's designated stores and its transportation to site.
- All fabrication, erection, testing and commissioning of piping above ground at all elevations and below ground at all depths including provision shall be kept for installation of temporary flanged end header for Pig Launching, all valves and valve actuators, insulating joints and other fittings and associated piping works as per drawings and specifications.

All mechanical works of underground and above ground, complete piping including fabrication, welding, all non destructive testing of welds repairs/ pretesting, hydrostatic testing, cleaning/ flushing, functional testing, cutting of mainline and bevelling (if required), excavation in all types of soil for installation of piping and pipe supports.

- Installation of all inline/ online instruments.

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- Obtaining all necessary approvals and work permits from concerned local authorities having jurisdiction including hot work permit as applicable for performing the work.
- Carrying out welding including cutting, edge preparation (inclusive of grinding the edges on fittings, flange, etc. to match with the matching edges of different thickness wherever required, bending, pre-heating wherever required, NDT including radiography by X-ray / Gamma-ray and other non-destructive tests specified. NDT requirements for process and other piping shall be in accordance with relevant specifications enclosed with the tender document.
- Preparation of plot plan cum piping GAD based on schematic drawings provided in the tender document for tap-off station & SV stations. Preparation of isometric drawings and final Bill of Material based on piping detail GA drawings prepared by contractor & duly approved by Owner / Consultant.
- Cleaning and servicing of all free issue materials including equipment, valves to make it suitable for installation.
- Completion of all mechanical works as detailed in SOR.
- SV station, branch piping shall be hydrostatically tested to the test pressure in accordance with Specification for piping fabrication, erection. Test pressure shall be 1.4 times design pressure and minimum duration of test shall be six (6) hours. All ball and plug valves in the piping network being hydro tested shall be kept in the partially open position.

3.2.3.2 Equipment and Vessels - DELETED

3.2.3.3 Civil & Structural Works

Civil & Structural Works shall be carried out as per the scope detailed in PJS, SOR and Technical Specification.

3.2.3.4 Electrical - DELETED


3.2.3.5 INSTRUMENTATION, SCADA & TELECOM - DELETED

3.2.3.5.1 Instrumentation – DELETED

3.2.3.5.2 SCADA & Telecom – DELETED

3.2.3.6 Painting

- Painting (including supply of all materials) of all equipment, piping, structural steel elements for pipe supports, and all structural miscellaneous items as required and as directed by Company. Paint shall be suitable for highly corrosive environment as per specification providing total DFT of 345 μ minimum. Painting shall include primer and finish coats as per specifications. Prior to painting surface shall be sand blasted as per instruction of Engineer-in-charge.
- For equipment, valves and other free issue items only one finish coat of final paint will be provided.

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3.2.3.7 Other Works

- Obtaining all necessary approvals and work permits, as applicable, for performing the work.
- Carrying out all additional surveys, test and collection of data not furnished by company but required for construction of facilities.
- Provision is to be kept in the terminal for installation of Permanent Cathodic System.
- Extension/ provision of the utilities at desired locations from the consumers battery limit, the utilities are fire water, instrument air, plant air, drinking water, service water and electrical power.
- Any other work not specifically listed herein but required for the construction of the terminals and making it ready for the operation.

4.0 SCOPE OF SUPPLY

4.1 Material to be supplied by Company as Free Issue

4.1.1 Line pipe (Bare/ Coated) & Valves

Three Layer PE Coated line pipes & all type, size, rating valves as per details indicated in clause 1.2 Company shall supply bare and externally corrosion coated line pipe with 3-Layer polyethylene coating.

Contractor shall receive and take over the pipes & valves at designated store. At the time of taking-over contractor shall perform inspection of pipes, pipe coating, valves, insulating joint and record all defects noticed in the presence of Company's Representative. Contractor shall repair all defects recorded at the time of taking-over of pipes, valves & insulating joint and shall be compensated as per rates set forth in the Schedule of Rates.

Any repairs to 3-Layer Polyethylene coating shall be carried out by Contractor using suitable material compatible with parent coating system and meeting the requirements of coating system specified in specification for 3-layer polyethylene coating. The coating repair material and procedure for application shall be submitted to MNGL for approval prior to start of construction.

4.1.2 All Ball / Globe Valves including buried valves for SV Stations & Insulation joints.

4.1.3 MDPE pipes of various sizes & Isolation Valve


4.1.4 Supply of Telecommunication, Civil & Structural items as elaborated in respective particular job specification and SOR enclosed elsewhere with the tender document.

4.2 Company's storage point for free issue material of this project shall be located in Ramanagara GA nearby region.

Contractor shall also return materials after completion of work to Owner's designated store in Ramanagara or its nearby region or as directed by Owner / Engineer-in-charge.

4.3 Conditions for issue of Company Supplied Material

Contractor shall prepare and submit Material Issue Vouchers to enable stage wise issue of materials. All materials shall be issued for incorporation in permanent works only and shall not be used for any temporary or ancillary works without the written consent of

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Engineer-in-charge. These materials shall be issued to the contractor from the Owner's storage points. Contractor shall be responsible, at this own cost, for lifting of the materials from Owners issue points, measuring, weighing, loading, unloading, transportation and return of materials to designated storage points. Contractor shall also be responsible for constructing covered godowns with adequate supports and clearances for safe storage of materials.

With every RA bill the contractor shall submit an account for all the materials issued by the owner in the proforma prescribed by the Engineer-in-charge. On completion of the work, the contractor shall submit materials appropriation statement for all materials issued by Owner.


- 4.3.1 All materials issued by the COMPANY to the CONTRACTOR shall be preserved against deterioration and corrosion. Any damages/losses suffered on account of poor or improper storage while under CONTRACTOR'S custody and non-compliance with the requirements stipulated herein shall be considered as losses suffered due to willful negligence on the part of the CONTRACTOR and he shall be liable to compensate the COMPANY, for the losses suffered, at penal rates as elaborated elsewhere in the bid document.

Various equipments/ materials intended for the installation will be received by COMPANY in unpacked, skidded, crated, packed or loose condition and will be stored in the COMPANY warehouses & open yards. In general, material will be issued to the CONTRACTOR in "as-received" condition. It will be the CONTRACTOR'S responsibility to draw, load and transport all materials from COMPANY's designated place (s) of issue to the point of installation.

The CONTRACTOR at his own cost shall duly protect all materials supplied by the COMPANY with appropriate preservative like primer/lacquer coating, grease etc, if required.

The Contractor shall be required to take Insurance Cover in terms of general conditions of contract.

- 4.3.2 The CONTRACTOR shall check that valves, fittings and specials are not subject to corrosion from hydrostatic test liquid remaining saturated in the packing. Any such conditions when detected should be brought to the notice of the Engineer-in-charge and remedial measures taken as directed. Small and medium size pipe, fittings shall be stored in rack to be constructed from this purpose in a covered godown. When large size pipe fittings are to be stored, these may be kept in the open on surfaced storage yards on proper wooden supports.
- 4.3.3 All machined surfaces shall be properly greased and shall be maintained and protected from damages.
- 4.3.4 Openings of equipment, machinery, valves etc. shall be kept blocked/ covered with blinds to prevent entry of foreign matter.
- 4.3.5 All valves, instruments, control valves, actuated valves, pressure gauges, thermometers etc. supplied independently, as well as alongwith equipment and machinery shall be stored separately, inside the covered godown on racks.

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- 4.3.6 As far as possible materials shall be transported to the erection site, just prior to their actual erection and shall not be left lying around indefinitely. Instructions for the Engineer-in-charge shall be followed strictly in this regard.

4.3.7 Repairs of Pipe Defects

Immediately prior to aligning pipe for welding, the bevelled ends of each joint of pipe and the area immediately adjacent thereto (at least 25 mm from the edge on the inside and outside of the pipe) shall be thoroughly cleaned of paint, rust mill scale, dirt or other foreign matter by use of power driven wire buffing wheels, disc sanders, or by other method approved by COMPANY. This shall be done at no extra cost.

All damaged ends of pipe that are bent, cut or otherwise mutilated such that, in the opinion of the COMPANY, faulty alignment or unacceptable welding would result, shall be repaired or cut-off and rebevelled to the correct angle with a bevelling machine of a type approved by COMPANY. No compensation shall be allowed by reason of such re-cutting or bevelling, except when required because of the original bevel being damaged before the pipe is "taken over" by CONTRACTOR.

CONTRACTOR shall remove dents in bevels with a depth of less than 1 mm during cleaning and grinding, ahead of the welding in the field. No compensation shall be paid to Contract or on this account.


CONTRACTOR shall rebevel dented bevel ends with a depth of dent between 1 and 3 mm. Dents over 3 mm depth shall be repaired by cutting and rebevelling. The CONTRACTOR shall be entitled for extra compensation only for cutting and rebevelling of defects recorded at the time of taking delivery as per the rate set forth in the "Schedule of Rates".

4.4 Material to be supplied by Contractor

The procurement and supply, in sequence and at the appropriate time, of all materials and consumables required for completion of the work as defined in this Bid document except the materials specifically listed under para 4.1 above, shall be entirely the CONTRACTOR'S responsibility and item rates quoted for the execution of the CONTRACT shall be inclusive of supply of all these materials. The material to be supplied by the Contractor shall be as per specification and preferred make as indicated in Appendix-I or duly approved / recommended for use by MNGL. The materials will be, but not by way of limitations, as follows:-

4.4.1 Mainline

- 4.4.1.1 Field joint coating material for 3 layer PE coated pipes comprising of heat shrinkable wrap around sleeves (HTLP 80 or equivalent valve) complete with adhesive / other suitable material compatible with pipe coating material. Special sleeve for HDD string (i.e. Dirax or equivalent) as per specification. The cutback length shall be 120 + 25(-0)mm.
- 4.4.1.2 Coating repair material compatible and suitable for 3 layer PE coated line pipe comprising of repair patches (i.e. PERP-80 or equivalent) complete with adhesive.
- 4.4.1.3 All materials for all types of pipeline markers / warning marker including Warning Sheet, cement, sand, reinforcements, structural steel etc.

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- 4.4.1.4 All materials required for continuous concrete coating/ saddle weights for providing negative buoyancy to the pipeline wherever required.
- 4.4.1.5 Supply of nitrogen and other consumables, tools and tackles required for venting, predrying, purging and filling of mainline.
- 4.4.1.6 Supply of bare casing pipe including all other material like casing insulators, end seals, vent & drain assembly etc. for cased crossing if required as indicated in SOR.
- 4.4.1.7 Supply of Bends of radius R=3D for API 5L Gr.X70 and R=1.5/3D for API 5L Gr.X52 in contractor's scope as detailed in SOR.
- 4.4.1.8 Supply of Barred Tees in contractor's scope as detailed in SOR.
- 4.4.1.9 All other items / materials as may be required for completion of contractual scope of work and not covered under material to be supplied by company as free issue material at 4.1.

4.4.2 Terminals

4.4.2.1 Piping, Equipment & Vessels

- a) Piping material assorted pipe, flanges & fittings etc. in Contractor's scope as detailed in SOR. Complete material for utility lines indicated in SOR shall be supplied by Contractor.
- b) Studs, nuts, washers, U bolts, clamps, clips, pipe supports, gaskets for piping works.
- c) Shims, wedges and packing plates (machined wherever required).
- d) Painting material
- e) Galvanized steel piping of all sizes for instrument air/ service air.
- f) Portable Fire Extinguisher System.

All other items/ materials as may be required for completion of contractual scope of work and in SOR but not covered under material to be supplied by company as free issue material at 4.1.

4.4.2.2 Civil & Structural


All materials as elaborated in respective SOR and PJS enclosed elsewhere with the tender.

4.4.2.3 Cathodic Protection Works – Scope of supply as per respective PJS, SOR & technical specification

- 4.4.2.4 All painting materials. Paint shall be suitable for highly corrosive environment.

4.4.3 General

- 4.4.3.1 All consumables for welding such as oxygen, acetylene, inert gases and all types of electrodes suitable for pipes of grades as specified in the specification, low hydrogen electrodes, filler wire, solder wire, brazing rods, flux etc. for welding / cutting and soldering purpose.

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4.4.3.2 Equipment like hydrostatic pump etc., water and corrosion inhibitor for water used for hydrostatic testing including all pipes, fittings and equipment, metallic blinds, temporary gaskets as required for filling, pressurising and dewatering in connection with hydrostatic testing completion.

4.4.3.3 All pigs for cleaning, gauging, filling, dewatering and swabbing of pipeline.

4.4.3.4 All pipes, fittings and equipment metallic blinds temporary gaskets as required for filling, pressuring and dewatering in connection with hydrostatic testing completion.

4.4.3.5 All consumables for welding of structural steel.

4.4.3.6 Materials and equipment required for all types of test such as radiography, magnetic particle and dye penetrate examination.

4.4.3.7 All safety tools/tackles, devices / apparatus / equipment etc. including ladders and scaffoldings etc. complete as required.

4.4.3.8 Supply of nitrogen and other consumables, tools and tackles required for venting, predrying, purging and filling of station piping.

4.4.3.9 Any other material not specifically listed herein, but required for the execution of the work.

4.4.3.10 List of materials to be supplied and quantities indicated in SOR is tentative. These quantities can vary during execution to any extent and the same unit rate shall be applicable for payment. Final quantities will be based on the drawing issued to the contractor for construction. Quantities covered in SOR are for as erected quantities. Bidder will procure additional materials as required to cover cutting, scraps, wastages and damages during erection, testing and commissioning. For these extra quantities no additional payment will be made.

5.0 DOCUMENTS, SPECIFICATION, STANDARDS AND DRAWINGS

5.1 Owner shall furnish tender purpose drawings as listed in content of Volume-III of III of the tender document and other typical standard drawings attached with respective technical specifications enclosed with Volume-II of III of the tender document.

5.2 Contractor shall prepare isometric drawings & bill of materials and submit the same for Owner/ Consultant's approval/ record.

Contractor shall prepare drawing for utilities line as required as per SOR and submit the same for Owner/ Consultant's approval/ record.

5.3 Detailed pipeline route alignment sheets, detail-crossing drawings with crossing methodology shall be submitted by Contractor for prior approval after survey carried out by contractor at site before execution of pipeline work. Any additional survey and data required to complete above shall be also done by Contractor without any extra time & cost implementation to Owner.

5.2 After Completion of construction & commissioning of pipeline system, Contractor shall incorporate all the correction in drawings, prepare and issue the drawings "as-built drawings" as listed below to Owner as final submission of drawings. For Mainline pipeline

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alignment sheet, all X-ing details, all CP drawings, pipe book etc. and for tap-off points, various CNG Stations / MRS at Industrial Consumer's Stations / DRS & SV Stations - layout drg., piping GAD, Isometric, all civil drawings. For final submission only 6 sets of documents plus the original transparencies shall be handed over by Contractor. Any construction done by Contractor without duly approved drawings shall be wholly at his risk and cost. Contractor shall also submit soft copy of pipe book in excel alongwith hard copy. Soft copy of all as-built drawings shall be also submitted in AutoCAD. For details of documentation to be submitted for mainline and terminal refer enclosed specification for documentation for pipeline construction enclosed elsewhere with the tender.

5.5 Specifications

The work shall be carried out by CONTRACTOR strictly in accordance with the specifications enclosed in Volume II of III of this document.

5.6 Drawings

The drawings are included in Volume -III of III of the bid package for BIDDER's reference purpose only; Bidders are advised to go through these drawings and also visit the site before submitting their bids. The Contractor shall develop the all type of drawings required for construction works as detailed in respective SCC, PJS & SOR etc.

5.7 Drawing and Documents

5.7.1 The drawings accompanying the Bid document are indicative of scope of work and issued for tendering / bidding purpose only. These drawings indicate the general scheme as well as the route layout to enable the contractor to make an offer in line with the requirements of the owner. Final construction/execution shall be done as per construction drawing prepared by the successful bidder / contractor & duly approved by Owner.

5.7.2 Construction drawings prepared by successful bidder / contractor prior to execution work shall be submitted to Owner progressively based on construction progress achieved by contractor. Owner will take approval period as minimum 7 (seven) working days from the date of receipt of drawings / documents. No extra claims in terms of time & cost, whatsoever shall be entertained for any variation between tender drawings and approved for construction drawings.

6.0 RESOURCES FACILITIES

6.1 Recruitment of Personnel by Contractor

The Contractor shall not recruit personnel of any category from among those who are already employed by the other agencies working at the sites but shall make maximum use of local labour available.

6.2 Construction Water and Power Supply

No water and power will be provided by the owner. It should be the responsibilities of the contractor to arrange water and power at his own cost.

6.3 Land for Residential Accommodation

Owner shall not provide any land for residential accommodation of contractor's staff and labour.

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7.0 PROJECT SCHEDULING & MONITORING

The following schedules/documents/reports shall be prepared and submitted by the Bidder/Contractor for review/approval at various stages of the contract.

7.1 Alongwith Bid

a) Time Schedule

The Completion Time Schedule for the work (including mobilization period) as per Appendix-I to Invitation for bid, PART-A of Tender in all respect, from the date of issue of telex/telegram/letter/Fax of Intent.

The Bidder is required to submit a Project Time Schedule in Bar Chart Form, alongwith the Bid. The Schedule shall cover all aspects like sub-ordering, manufacturing and delivery, indicated in the Bid Document. The Owner interface activities shall be clearly identified with their latest required dates. Owner reserves the right to disqualify the Bidder if the above Schedule submitted by the Bidder is not in line with the over all Project requirement.

b) Scheduling & Monitoring System

The Bidders should describe their system of Project Scheduling and monitoring, the extent of computerization, level of detailing, tracing methodology etc. with the name of computer package and sample outputs.

7.2 After the Award of Contract

a) Overall Project Schedule

The Contractor shall submit within 1 week of Fax of Intent, a sufficiently detailed overall Project Schedule, clearly indicating the major milestones, interrelationship/ interdependence between various activities.

The project Schedule will be reviewed and approved by Engineer- in-Charge and the comments if any shall be incorporated in the project Schedule before issuing the same for implementation. The project Schedule thus finalized shall form part of the contract document and the same shall not be revised without the prior permission from Engineer-in- Charge during the entire period of contract.

b) Progress Measurement Methodology

The contractor is required to submit within 1 week of award of WORK, the methodology of progress measurement of sub-ordering, manufacturing/ delivery, sub- contracting construction and commissioning works and the basis of computation of overall services/physical progress informed. Owner reserves the right to modify the methodology in part or in full.

c) Functional Schedules


The contractor should prepare detailed functional schedules in line with project schedule for functional monitoring and control and submit scheduled progress covers for each function viz. ordering, delivery and construction.

7.3 Project Review Meetings

The Contractor shall present the programme and status at various review meetings as required.

a) Weekly Review Meeting


Level of	:	Contractor's/Consultant's RCM/
Participation		Site In charge & Job Engineers.

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- Agenda : a) Weekly programme v/s actual achieved in the past week & programme for next week.
b) Remedial Actions and hold up analysis.
c) Client query/ approval.
- Venue : Site Office
- b) Monthly Review Meeting
Level of : Senior Officers of MNGL and Participation Contractors.
- Agenda : a) Progress Status/ Statistics
b) Completion Outlook
c) Major hold ups/slippages
d) Assistance required
e) Critical issues
f) Client query/ approval
- Venue : MNGL Office/ Site at the discretion of Owner

7.4 Progress Reporting Proforma

- A) Monthly Progress Report
This report shall be submitted on a monthly basis within 2(two) calendar days from cut-off date, as agreed upon covering overall scenarios of the work. The report shall include, but not limited to the following:
- Brief Introduction of the work.
 - Activities executed/ achievements during the month.
 - Schedule versus actual percentage progress and progress curves for Detail Engg. Sub-ordering, Manufacturing/ Delivery, Sub-contracting, Construction, Commissioning and Overall and quantum wise status & purchase orders against schedule.
 - Area of concern/ problem/ hold-ups, impacts and action plans.
 - Resources deployment status.
 - Annexure giving status summary for drawings, MRs, deliveries, sub-contracting and construction.
 - Procurement status for items to be supplied by Contractor.
- B) Weekly Reports
The report will be prepared and submitted by the Contractor on weekly basis and will cover following items:
- Activities programmed and completed during the week.
 - Resource deployed men and machines.
 - Quantities achieved against target in construction
 - Record of Man days lost.
 - Construction percentage progress schedule and actual.
- C) Daily Repots
- Activity programme for the day
 - Progress of the previous day and commutative progress.

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c) Manpower & machinery deployed.

7.4 Progress Reports

7.4.1 CONTRACTOR shall make every effort to keep the OWNER adequately informed as to the progress of the WORK throughout the CONTRACT period.

CONTRACTOR shall keep the OWNER informed well in advance of the construction schedule so as to permit the OWNER to arrange for requisite inspection to be carried out in such a manner as to minimize interference with progress of WORK. It is imperative that close coordination be maintained with the OWNER during all phases of WORK.

7.4.2 By the second day of each month, CONTRACTOR shall furnish the OWNER a detailed report covering the progress as of the last day of the previous month. These reports will indicate actual and scheduled percentage of completion of construction as well as general comments of interest or the progress of various phases of the WORK. The frequency of progress reporting by the CONTRACTOR shall be monthly.

7.4.3 Once a week, CONTRACTOR shall submit a summary of the WORK accomplished during the preceding week in form of percentage completion of the various phases of the WORK, to the OWNER.

7.4.4 Contractor shall prepare daily progress report (DPR) in the desired format and submit it to Engineer-in-charge alongwith schedule of next day to Engineer-in charge.

8.0 CONSTRUCTION

OWNER reserves the right to inspect all phases of Contractor's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or other duly authorised representatives, made known to the CONTRACTOR present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of a Owner's representative does not relieve the CONTRACTOR of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the CONTRACTOR or any SUB-CONTRACTOR is found by OWNER's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the CONTRACTOR shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.


8.1 Rules & Regulations

CONTRACTOR shall observe in addition to Codes specified in respective specification, all National and Local Laws, Ordinances, Rules and Regulations and requirements pertaining to the WORK and shall be responsible for extra costs arising from violations of the same.

8.2 Procedures

Various procedures and method statements to be adopted by CONTRACTOR during the construction as required in the respective specifications shall be submitted to OWNER in due time for APPROVAL. No such construction activity shall commence unless approved by OWNER in writing.

8.3 Field Inspection

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CONTRACTOR shall have at all times during the performance of the WORK, a Competent Superintendent on the premises. Any instruction given to such superintendent shall be construed as having been given to the CONTRACTOR.

8.4 Erection and Installation

The CONTRACTOR shall carry out required supervision and inspection as per quality Assurance plan and furnish all assistance required by the OWNER in carrying out inspection work during this phase. The OWNER will have engineers, inspectors or other authorized representatives present who are to have free access to the WORK at all times. If an Owner's representative notifies the Contractor's authorized representative not lower than a Foreman of any deficiency, or recommends action regarding compliance with the SPECIFICATIONS, the CONTRACTOR shall make every effort to carry out such instructions to complete the WORK conforming to the SPECIFICATIONS and approved DRAWINGS in the fullest degree consistent with best industry practice.

8.5 Construction Aids, Equipment, Tools & Tackles

CONTRACTOR shall be solely responsible for making available for executing the work, all requisite Construction Equipments, Special Aids, Cranes, Tools, Tackles and testing equipments and appliances. Such construction equipments etc. shall be subject to examination by owner and approval for the same being in first class operating condition. Any discrepancies pointed out by OWNER shall be immediately got rectified, repaired or the equipment replaced altogether, by CONTRACTOR. OWNER shall not in any way be responsible for providing any such equipment, machinery, tools and tackles.

The OWNER reserves the right to rearrange such deployment depending upon the progress and priority of work in various sections.

Tie-end between main line and starting point of terminal is included in the scope of contract, as and when main line section is available for Tie-ins.

9.0 DOCUMENTATION

9.1 "As Built" Drawings


Notwithstanding the provisions contained in standard specifications, upon completion of WORK, the CONTRACTOR shall complete all of the related drawings to the "AS BUILT" stage and provide the OWNER, the following: -

- a) One complete set of all original tracings.
- b) Soft copy of all the as built drawings prepared in AutoCAD in one set of re-writable compact Disc
- g) All as-built drawings as mentioned in specification for documentation enclosed elsewhere in the tender.

9.2 Completion Document

The following documents shall be submitted in hard binder by the CONTRACTOR in THREE sets, as a part of completion documents: -

- a) Welding Procedure Qualification Report.
- b) Welder Qualification Report.
- c) Radiographic Procedure Qualification.
- d) Radiographic Report alongwith radiographs (Radiographs only with the original).
- e) Batch Test Certificate from manufacturers for electrodes.
- f) Pretesting and final Hydrostatic and other Test results and reports.

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- g) All other requirements as specified in the respective specifications.
- h) Test results and reports.
- i) Pre-commissioning/commissioning checklist.
- 3j) Completion Certificate issued by Owner's Site Engineer.
- k) No claim certificate by the Contractor.
- l) Consumption statements of steel and cement certified by Owner's Site Engineer.
- m) Completion certificate for embedded and covered up works wherever applicable.
- n) Recovery statement, if any.
- o) Statement for reconciliation of all the payments and recoveries made in the progress bills.
- p) Copies of deviation statement and order of extension of time, if granted.

CONTRACTOR has to submit the completion documents within one month of commissioning, else if there is any recovery occurs as per documents available with us the same shall be recovered from Bank Guarantee.

10.0 ORDER OF WORKS/PERMISSIONS/RIGHT OF ENTRY/CARE OF EXISTING SERVICES.

10.1 The order in which the WORK shall be carried out shall be subject to the approval of the Engineer-in-charge and shall be so as to suit the detailed method of construction adopted by the CONTRACTOR, as well as the agreed joint programme. The WORK shall be carried out in a manner so as to enable the other contractors, if any, to work concurrently. OWNER reserves right to fix up priorities, which will be conveyed, by Engineer-in-Charge and the CONTRACTOR shall plan and execute work accordingly.

10.2 Existing Service

10.2.1 Drains, pipes, cables, overhead wires and similar services encountered in course of the works shall be guarded from injury by the CONTRACTOR at his own cost, so that they may continue in full and uninterrupted use to the satisfaction of the Owners thereof, or otherwise occupy any part of the SITE in a manner likely to hinder the operation of such services.


10.2.2 Should any damage be done by the CONTRACTOR to any mains, pipes, cables or lines (whether above or below ground etc.), whether or not shown on the drawings the CONTRACTOR must make good or bear the cost of making good the same without delay to the satisfaction of the Engineer-in-Charge.

11.0 MAKE OF MATERIAL/BOUGHT OUT ITEMS

An Appendix-I of approved vendors for various major items is enclosed with this tender specification. The bidder shall consider such names only as indicated in the aforesaid list and clearly indicate in the bid the name(s) as selected against these items. For any other item not covered in the list enclosed with this tender document, prior approval shall be obtained by the contractor for its make/ supplier's name.

12.0 INSPECTION OF SUPPLY ITEMS

All inspections and tests shall be made as required by the specifications forming part of this contract. Contractor shall advise Owner/ Consultant in writing at least 10 days in advance of the date of final inspection/tests. Manufactures inspection or testing certificates for equipment and materials supplied, may be considered for acceptance at the discretion of Owner/ Consultant. All costs towards testing etc. shall be borne by the

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contractor within their quoted rates. All inspection of various items shall be carried out based on Quality Assurance Plan, which will be submitted by the Contractor and duly approved by Owner/ Consultant.

13.0 ESCALATION

The Unit Rates quoted shall be kept firm till completion of work, and no price Escalation shall be paid.

14.0 DOCUMENTS TO BE SUBMITTED/ PRODUCED ALONGWITH R.A. BILLS

- i) Computerized R.A. Bill/ Manual Bill, with IT No./ GST No./ Labour License No. printed thereon.
- ii) ESI/ EPF challan/clearance certificates for the last month alongwith R.A. Bills.
- iii) Insurance Policy as per relevant clauses of Contract Agreement.
- iv) Attendance Register and Salary Records.
- v) Photocopy of the measurement book to be attached with R.A. Bills.
- vi) As-laid drawing of the stretch for which RA bill is being submitted.
- vi) Any other document required for the purpose of processing the bills.
- vii) Registration Certificate with Goods & Service Tax authorities of state concerned.

15.0 INSURANCE FOR FREE ISSUE MATERIAL


15.1 Insurance for Free Issue Material

Contractor shall at his own expense arrange, secure and maintain insurance cover for Owner's supplied free issue materials as defined in Tender Document. Contractor's quoted price shall be inclusive of all costs on account of insurance liabilities covered under the Contract. Contractor to note that the beneficiary of insurance cover shall be in the name of MNGL. (The approximate cost of free issues material is Rs. 4 Crores).

15.2 Insurances in India

15.2.1 In addition to the insurance covers specified in the General conditions of Contract to be obtained and maintained by the Contractor, Contractor shall at his own expense arrange, secure and maintain insurance with Indian insurance companies to the satisfaction of the owner as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of Owner against all risks as detailed herein. The form and the limit of such insurance as defined herein together with the under writer works thereof in each case should be as acceptable to the Owner. However, irrespective of work acceptance the responsibility to maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of this responsibilities and obligations under Contractor.

15.2.2 Any loss of damage to the equipment during inland transportation, storage, erection and commissioning till such time the Work is taken over by Owner shall be to the account of Contractor. Contractor shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/ or replacement of the parts of the Work damaged or lost. Contractor shall provide the Owner with a copy of all insurance policies and documents shall be submitted to the owner immediately upon the Contractor having taken such insurance coverage. Contractor shall also inform the Owner regarding the expiry cancellation and/ or changes in any of such documents and ensure revalidation/ renewal etc., as may be necessary well in time.

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15.2.3 The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials.

15.2.4 All cost on account of insurance liabilities covered under this Contract will be to Contractor's account and will be included in Contract Price. However, the Owner may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Value Of Contract to the extent of reduced premium amounts.

15.2.5 Contractor as far as possible shall cover insurance with Indian Insurance Companies.

16.0 SPECIAL POINTS PERTAINING TO SPECIFICATION

16A.0 Following new clauses are also to be considered wherever required which are specific to city conditions laying.

i) Preliminary Activities, Design and Detailed Engineering

- Contractor shall carry out all preliminary activities, surveys of utilities to the extent required for main pipeline and distribution/ branch lines, laying underground pipelines and prepare alignment sheets, crossing drawings alongwith bill of material with all details necessary for construction of the main and branch lines. The minimum pipeline cover shall be kept as follows:

Pipeline Burial Requirement

The entire pipeline shall be buried and provided with a minimum cover as given in Table below :

Pipeline Burial Requirements	
Location	Min. Cover (m)
a) Stream / Canal / Nala and other minor water crossing (below firm bed level)	1.5
b) Cased/ Uncased Road/ cart track crossings	1.2
c) Cased railway crossings	1.7
d) Drainage, ditches at roads	1.2
e) Industrial, Commercial, Residential and other locations including rocky areas	1.2
f) Major water crossings (below scour level)	2.5
g) River crossing with rocky bed (below scour level)	1.5

Note:

- i) The depth of cover shall be measured from the top of the pipe coating to the top of the undisturbed surface of soil or the top of graded working strip, whichever is lower. The fill material in the working strip shall not be considered in the depth of cover.

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- ii) The cover shall be measured from the top of road or top of rail, as the case may be;
- iii) For river / water courses that are prone to scour and erosion, adequate safe cover as mentioned above or as advised by concerned authorities (whichever is stringent) shall be provided below the predicted scour profile expected during the life time of the pipeline.
- iv) When scour level is not known, an additional cover of at least 1 m or as advised by concerned authorities shall be provided from the existing firm bed of the river / water course except in case of rocky river bed;
- v) Minimum cover mentioned above against sl. no. a), b), c), d) & e) category may be increased based on the statutory requirements from concerned authorities and authorities requirement shall be final and binding to the contractor.
- vi) Soft soil / sand padding of minimum 100 mm thickness or as mentioned in standard drawing (whichever is stringent) to be provided around the pipeline where gravel / hard soil or rocky area is encountered.

- Contractor shall carry out detailed engineering as required for preparation of General Arrangement Drawings (GADs) for CNG/ DRS/ MRS Stations, Piping at consumer ends, connection at existing tap-off location and for future connections alongwith bill of materials.

Owner will provide typical sketches for above ground installation (i.e. at CNG Station DRS/ MRS etc.) Contractor shall develop General Arrangement Drawings (GADs) good for construction for various sizes and locations based on typical sketches/ drawings alongwith bill of materials and submit to Owner for reviews/ approval. Construction work shall be carried out based on construction drawings duly approved by Owner/ Consultant.

- The detailed engineering for above ground installation shall include detail engineering pertaining to all disciplines alongwith bill of materials.
- All the documents/ drawings prepared by the Contractor shall be submitted to Owner/ Engineer-in-charge for review and approval. All works shall be executed based on the approved drawings/ documents only.
- Contractor shall obtain all clearance from Government authorities. However bank guarantee/ required fee or charges shall be submitted by Owner.
- Contractor shall carry out corrosion survey, design, detail engineering, installation, testing & Commissioning for temporary cathodic protection including supply of all items for design life of 2 years.


ii) Main and Distribution Pipeline

- "Receiving and Taking-over" as defined in the Specifications of Owner supplied Carbon Steel externally corrosion coated/ bare line pipe of specified sizes and thickness from Owner's designated stacking yard(s), place(s) of issue in/ around the concerned city, transportation including loading, unloading, handling, stacking, hauling and stringing of pipes from Owner's stacking yard(s)/ designated point(s) of issue to Contractor's own stock yard(s)/ work site(s)/ workshop(s)/ pipeline Right-of-Use, including arranging all necessary intermediate storage area(s) required thereof till the pipes are installed in


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permanent installation. The exact location of the Purchaser's stacking yard near each city shall be intimated to the Contractor after the award of contract.

- Carrying out inspection of pipes and pipe coating at the time of receiving and taking-over and recording all the defects etc., noticed in the presence of Owner's representative and carrying out all repairs including supply of all repair materials.
- Carrying out repairs of the pipes and pipe coating not attributable to Owner (including supply of all materials) including defects/ damage occurring during transportation and/ or handling after receiving and taking-over including supply of all materials.
- Receiving and taking-over of all owner supplied material other than corrosion coated CS line pipe, loading, unloading, handling, stacking, storing and transportation to workshop, work site of all materials that may be used for the construction of pipeline system either supplied by Owner at their designated stockyard(s)/ designated stores and/ or by Contractor as the case may be.
- All additional route/ topographic surveys and/ or soil investigation required for local detours of main line and survey soil data for branch lines as required, including preparation of plan and profile drawings without any extra cost to Owner.
- Staking, clearing, grading, fencing of Right-of-Use (ROU) wherever required, trenching to all depths in all types of soil including soft and hard rock, including chiseling or otherwise cutting etc. to a width to also accommodate the optical fiber cable/ cable conduit as per the relevant standards, drawings, specifications etc. Aligning, bending, welding, NDT including 100% radiography, field weld joint coating, external corrosion coating of long radius bends and buried fittings/ valves including supply of coating material as per the field joint coating specification, laying and lowering, carrying out road, canal, utility and submerged water crossings including bank stabilization of water crossings as required including arranging all temporary land/ area required for construction purposes; supply and installation of anti-buoyancy measures viz. Continuous concrete coating, select backfill, extra cover, etc. on pipeline. Blasting of rock is not allowed. The excavated soil is to be kept/ disposed at the place specified by the Engineer-in-charge.
- Barricading of trench as per instruction of EIC / tender drawings wherever required.
- Carrying out corrosion coating of 450 micron thick two component underground coal tar epoxy, applied with minimum three coats for underground valves & fittings.
- Welding of all tie-in joints for pipeline section laid across other utility crossings alongwith insulating joints upto and including valves and fittings.
- Placement of PE warning mat (D+300) mm wide and 1.0mm thick over pipeline along complete route or as per standard drawing, whichever is stringent.

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- Backfilling, temporary restoration including supply of select back fill material wherever required, compaction, clean-up, flushing, pigging, hydrostatic testing with the quantity of corrosion inhibitor as required, de-watering, swabbing of the main pipeline and removal of water by compressed air in branch lines. The backfilling and sand padding shall be carried out as per the instructions of Engineer-in-charge/ any relevant drawing enclosed with tender.
- Clean-up and restoration of Right-of-Use as per specification and drawings and other conveniences like road, rail, canal, utility crossings etc. to original condition, to the entire satisfaction of Owner and/ or authorities having jurisdiction and returning excess construction materials to Owner's designated stock-yard(s).
- Obtaining all necessary permissions, approvals and work permits from local authorities as applicable for performing the work including shifting of telephone/ electrical poles, hume pipes etc., if required.
- Pre-commissioning, providing commissioning assistance, nitrogen purging of the complete underground pipe network including supply of all materials such as required type and quantity of pigs, consumables and manpower that are required during pre-commissioning and commissioning activities including all coordination with and assistance to other agencies/ contractors during commissioning operations and all associated works.
- Installation of all on-line instruments, pressure gauge, valves, insulating joints, appurtenances, etc.
- Loading, unloading, handing over and transportation of all surplus Owner supplied free issue materials including short length pipes to Owner's designated store and stacking the same as per the directions of Engineer-in-charge.
- Cutting/ up rooting of trees within ROU, counting the number and type of trees cut during pipeline laying works in presence of DFO/ concerned authorities and keeping record thereof, staking and banding over of all cut trees as per the direction of Engineer-in-charge.
- All requirements and stipulations of statutory authorities shall be adhered.
- Repair of leaks/ burst, not attributable to Contractor, occurring in Owner supplied material shall be carried out by the Contractor and the Contractor shall be compensated as per provisions of the contract. However repair of such defects attributable to Contractor shall be carried out by Contractor at no extra cost to Owner.
- Hook-up of piping facilities by welding, hot tapping or flanged connection with equipments and at the battery limit with the facilities installed by others including cutting, fit-up, welding, NDT, radiography, interface/ co-ordination as required for inlet connection to CNG Stations & DRS aboveground installation.
- Any other works not specifically listed herein above but are required to complete in installation work of pipeline and associated facilities in all respects.

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- Preparation of as-built drawings, pipe-books project records as per specifications and instruction of Engineer-in-charge.

iii) Associated Works for Pipeline Construction


- Installation of casing pipe (by open cut / jacking / boring / HDD) assembly, including supply of all materials viz. casing insulators and end seals etc. complete at cased crossings.
- Supply and installation of all types of pipeline markers including their painting, suitable for normal corrosive environment as per specification and all the associated civil works.
- Sand/ soft soil padding around pipe where required including supply of sand/ soft soil.
- Application of continuous concrete coating on line pipe and field joints as required.
- Excavation along existing pipe-route up to 1.6m depth to locate existing underground tap-offs, backfilling, and restoration of excavated soil.
- Valve pits and joint pits shall be made as per drawing enclosed, at locations specified by the Engineer-in-charge.
- Fencing at SV Stations, DRS/ MRS installations shall be carried out by Contractor including supply of all civil & structure materials, complete foundation & civil works, fabrication & installation of chain link fencing, gates, painting etc. as per drawings & specifications.
- Corrosion survey, design, detailed engineering, supply & installation of temporary cathodic protection works as per enclosed specification and as directed by Engineer-in-charge.
- Providing barricading for safety during fabrication, installation and testing of pipeline as per tender specification.

iv) Future Tap-off Connections

- Complete works for installation of all piping works at all depths inside the pit, including all piping, valves, fittings at all depths inside the pit, all civil works including excavation of pits, pipe supports foundations etc. as shown in the relevant enclosed typical drawing. The side wall and bottom of the pit have a withstand an out side hydrostatic pressure of at least 1 kg/cm².
- Protective coating of 450 micron thick two component coal tar epoxy, applied with the help of minimum 3 coats, duly approved by Owner including supply of materials for all piping, valves, fittings, structural steel etc. for buried and installation inside pit.
- Corrosion coating of all field weld joint coating for buried piping of all sizes including supply of all materials.
- Filling and grading of areas around valve station for avoiding any local flooding of the area.

v) Restoration of Existing Facilities

All restoration works damaged during construction such as roads, pavements, utilities, cables, pipeline, sewers, streams, drains, ditches and any other facilities. All restoration work shall be carried out to original condition to entire satisfaction of Owner and concerned authorities.

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- All roads, footpaths (including roads and footpaths inside colonies) shall be restored to original condition, and to the satisfaction of the Engineer-in-charge and the concerned authority. The specification for restoration work shall be inline with the technical specification of various elements such as footpath, filling work, curb stores, drains, pavement, service road, main road and highways as per the respective concerned Government Authorities such as PWD local civic authority etc. In case of any dispute, the decision of Engineer-in-charge shall be final and binding on the Contractor.

In the event of Contractor's failure to adhere to these specifications and time schedule owner reserves the right to get these restoration work completed by approaching a third agency at Contractor's risk and cost.

Contractor shall obtain clearance certificate regarding satisfactory restoration from concerned Authority.

The concrete surfaces shall be restored and the concrete shall be placed with a minimum thickness of 50mm in footpaths and 100mm in roadways and driveways. To retard curing of the installed concrete, wet sack cloth is to be placed on the finished surface and kept damp for a period of 36 hours.

Where slabs and blocks are to be restored, the level of the compacted sub-base is to be adjusted according to the slab/ block thickness. The slabs or blocks should be laid on moist bedding material, which should be graded sand, mortar or mortar mix. The slab or blocks should be tapped into position to ensure they do not rock after laying.

The restored slabs or blocks should match the surrounding surface levels. Joint width should match the existing conditions, and be filled with a dry or wet mix of mortar.


Turf shall be replaced in highly developed grassed area. In lesser developed grassed areas topsoil should be replaced during the restoration process.

When permanent surface restorations cannot be completed immediately, the Contractor shall provide and maintain a suitable temporary running surface for vehicular traffic and pedestrians. The Contractor will be responsible for the maintenance of all restoration carried out, for the duration of the contract guarantee period.

The Contractor is to ensure the restoration work is properly supervised, and that the material used is suitable for the purpose and properly compacted. Where the required standards are not achieved the Contractor will be required to replace the defective restoration work.

Note that payment for pipe laying will only be authorised on satisfactory restoration, and where the sites has been cleared of all surplus materials etc.

Markers are to be installed as part of the reinstatement process. The types of markers area as specified in the specification attached.

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All trees to be uprooted at the time of pipe-laying activities should be properly replanted to a nearby area as directed by the Engineer-in-charge so that there is minimum loss of plantation.


In some areas restoration will be carried out by respective statutory authority. In this case Contractor has to backfill and compact the trench and remove all surplus material as per the instructions of Engineer-in-charge.

16B.0 Following points shall be taken care by the contractor before during execution works.

- i) Contractor shall be responsible for taking necessary precautions regarding traffic (installation of notice / warning boards).
- ii) Contractor shall be totally responsible for the occurrence of any accident during excavation of road and shall be liable for damages / expenses due to the same.
- iii) Concerned authority / Owner shall not be responsible for any loss / damage.
- iv) One copy of the permission shall be made available with contractor's responsible workman at the place where excavation is undertaken.
- v) While executing the subject work, excavation shall be done in consultation with the concerned authority engineer of that area.
- vi) Necessary safety measures shall be taken for the gas pipeline, since high tension lines and other services carriers are running alongwith in gas pipeline route in the area.

16C.0 Special note pertaining to Schedule of Rates (SOR).

- i) All SOR item shall be quoted by the bidder in the price part of the bid, other-wise bid will be rejected.
- ii) The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution and as per discretion of Owner / Engineer-in-charge. The unit rate shall be operated to work out the final payment due to Contractor.
- iii) The payment will be made as per actual certified measurement at site.
- iv) The scope as mentioned in the SOR is of indicative nature only and shall include all activities as detailed in the relevant clauses of the respective Particular Job Specifications, Technical Specifications, Data Sheets & drawings, etc.
- v) **The quantities mentioned in SOR for contractor supplied items shall be finalized and procured by contractor only after due approval of Engineer-in-charge. Contractor supplied any surplus item during reconciliation shall not be accepted / taken by the Owner.**
- vi) **Restoration works of pipeline trench made by open cut method along ROU including pipeline crossings are excluded from Contractor's scope in SOR. However, if any private road / footpath / pavement etc. falls under proposed pipeline route and if crossed by open cut method, in that case restoration works shall be done by the contractor and payment shall be made as per respective item mentioned elsewhere in the SOR. Owner's / Engineer-in-Charge's decision in this regard shall be final and binding to the contractor.**

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17.0 LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS (APPENDIX-I TO PARTICULAR JOB SPECIFICATION FOR MAINLINE, MECHANICAL & ASSOCIATED WORKS)

**Appendix-I
To Particular Job Specification of Work**

LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS

A) Mainline & Mechanical

- i) Pipes C.S.
 - 1. TISCO, Calcutta
 - 2. BHEL, Tiruchirapalli
 - 3. Maharashtra Seamless, Mumbai
 - 4. Jindal Pipes Ltd., New Delhi
 - 5. SAIL, Calcutta
 - 6. ISMT, Pune
 - 7. Surya Roshni, New Delhi
 - 8. Kalyani Steel, Pune
- ii) Pipes (1239/3589)
 - 1. TISCO, Calcutta
 - 2. Jindal Pipes, New Delhi
 - 3. Ajanta Tubes, New Delhi
 - 4. Gujrat Steel Tubes
 - 5. Khandelwal
- iii) Flanges
 - 1. M/s Aditya Forge Ltd., Vadodara
 - 2. M/s Amforge Industries Ltd., Mumbai
 - 3. M/s CD Engineering Co., Ghaziabad
 - 4. M/s Echjay Forgings Pvt. Ltd., Mumbai
 - 5. M/s Echjay Industries Ltd., Rajkot
 - 6. M/s Sawan Engineers, Baroda



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7. M/s Forge & Forge Pvt. Ltd., Rajkot
8. M/s Golden Iron & Steel Works, New Delhi
9. M/s JK Forgings, New Delhi
10. M/s Metal Forgings Pvt. Ltd., Mumbai
11. M/s Perfect Marketings Pvt.Ltd, New Delhi

iv) Fittings

1. M/s Commercial Supplying Agency, Mumbai
2. M/s Dee Development Engineers Ltd.
3. M/s Eby Industries, Mumbai
4. M/s Flash Forge Pvt. Ltd., Vishakhapatnam
5. M/s Gujarat Infra Pipes Pvt. Ltd., Vadodara
6. M/s M.S. Fittings Mfg. Co. Pvt. Ltd., Kolkata
7. M/s Stewarts & Lloyds of India Ltd., Kolkata
8. M/s Teekay Tubes Pvt. Ltd., Mumbai
9. M/s Pipe Fit, Baroda
10. M/s Sawan Engineers, Baroda
11. M/s Sky Forge, Faridabad
12. M/s. Vivial Forge Pvt. Ltd., Vadodara

v) Gaskets

1. IGP Engineers (P) Ltd., Madras
2. Madras Industrial Products, Madras
3. Dikson & Company, Bombay
4. Banco Products (P) Ltd., Vadodara

vi) Fasteners

1. Nireka Engg. Co. (P) Ltd., Calcutta
2. Precision Taps & Dies, Bombay
3. AEP Company, Vithal Udyoug Nagar
4. Fix Fit Fasteners, Calcutta
5. Precision Engg. Industries, Baroda
6. Echjay Forgings Pvt. Ltd., Bombay
7. Capital Industries, Bombay

vii) Welding Electrodes

1. For Mainline - Lincon make
2. For Terminal - Lincon & D&H or equivalent

viii) Fire Fighting Equipments

- a) Fire Extinguishers



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1. Avon Services (Production & Agencies) Pvt. Ltd., Mumbai
2. Kooverji Devshi & Co., Mumbai
3. Zenith Fire Services, Mumbai
4. Safex Fire Services, Mumbai
5. Reliable (Fire Protection) India Ltd., Mumbai

- b) Fire Hydrants
1. Zenith
 2. Minimax
 3. Newage

C) CP CONTRACTORS

1. CCS, Mumbai
2. Corrtch, Ahmedabad
3. SSS, Mumbai
4. Raychem, New Delhi

D) NDT AGENCY

1. NDT Services, Ahmedabad
2. GEECY Industrial Services Pvt. Ltd., Mumbai
3. Corrosion Control Services, Mumbai
4. Perfect Metal Testing & Inspection Agency, Calcutta
5. Inter Ocean Shipping Co., New Delhi
6. RTD, Mumbai
7. Sievert, Mumbai
8. X-Tech, Vizag

E) INSTRUMENTATION ITEMS

SS TUBES FITTINGS

1. EXCELLSIOR
2. HYDAIR
3. RELIANCE
4. MULTIMETAL
5. ASTEC INST.

INST. VALVES & MANIFOLDS

1. MICRO PRECISION
2. HYDARI ENGG.
3. TECHNOMATIC INDIA
4. EXCELLSIOR ENGG.
5. INDOCEAN ENGINEERS



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CONTROL AND SIGNAL CABLES

1. ASSOCIATED CABLES
2. ASSOCIATED FLEXIBLES
3. UNIVERSAL
4. DELTON
5. BROOK
6. KEI INDIA

F) OFC


1. Birla Cable Ltd., Mumbai
2. HFCL Limited, Gurugram
3. U M Cables, Kolkata
4. Teracom Limited, Noida

G) PIG LAUNCHER/RECEIVER


1. Control Plus Oil & Gas Solutions Pvt. Ltd., Ahmedabad
2. Techfield Engineers, Mehsana

Note:

- 1) Successful bidders shall take prior approval of the make for the items not covered above for which complete technical credentials of the proposed vendors shall be required to be submitted for evaluation by Purchaser/Consultant.
- 2) In case of subletting of works/ part of works by the prime bidder to other agency not specified in above list, bidder may propose for prior approval to Engineer-in-charge before engaging the sub-contractors strictly as per guideline mentioned in clause no. 37.0 of GCC.
- 3) For any other items which are not listed above, shall be subject to prior approval from MNGL.

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3b) PARTICULAR JOB SPECIFICATION FOR CIVIL & STRUCTURAL WORKS

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1.0 CIVIL & STRUCTURAL WORKS

I) General

The scope of work to be performed under this contract shall include complete civil works as per plans, equipment layout, drawings & technical specifications for SV Stations etc.

II) Scope of Supply

Contractor shall procure & supply to site all the materials including cement, reinforcing steel, steel sections/plates, pipes, mesh and other accessories, other masonry materials, bitumen/asphalt, admixtures & bonding agents, sealants, kerb stones, pavior block, sand and boulder etc., and any other material/item required to complete the civil & structural works. All costs towards testing/inspection of materials/goods shall be borne by the Contractor. No materials/items shall be supplied by the Owner (except anchor bolts & base plates as free issue items).

III) Site Work


Complete construction work including supply of labour, construction materials, construction equipment, survey, tools & tackles, dismantling & modification/strengthening, supervision, testing etc. required to complete all the structures, foundations, roads, drains, pavements, finishes, fencing, painting, including site grading/earthwork in cutting & filling etc. as specified and required to complete the civil & road works in all respect.

(All enabling works e.g. construction water tank, casting/fabrication yard, electricity, site stores & office, safety and security measures, coordination with other contractors working at site etc. shall be Contractor's responsibility. Special permits to such as 'Hot Permit', "Fire Safety Permit" to work at dispatch terminal shall be contractor's responsibility.)

IV) Scope of Work

1. Tap Off / Receiving Terminal

- a) Site grading of SV Stations plot including plot development by cutting / filling good/borrow earth wherever required with turving of non paved/constructed areas.
- b) PCC M-10C in leveling course / drains etc. over well compacted earth as shown in drawings.(wherever not included in the respective RCC item)
- c) Sand filling as and where shown in drawings.
- d) 150 mm thick RCC pavement in process area with pipe/equipment supports.
- e) 150 mm thick RCC pavement for internal and external roads (if required).
- f) Independent RCC supports for pipes, Equipment / Crossovers foundations, etc.

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- g) Grouting of all base plates/frames of equipment foundations and structural bases.
- h) Provision of all inserts, conduits, pre-cast covers, fixing of free issue items into permanent works etc.
- i) Clearing all construction debris and handing over completed work site.
- j) Any other work not mentioned specifically but required to make the terminal functional.
- k) Making as-built details/drawings on one set of construction drawings and return to owner.
- l) Making approach roads if required.

V) Preamble To Schedule Of Quantities

The Preamble to Schedule of Items is an integral part of the schedule of quantities and rates and this is to be considered incorporated into the description of items themselves. The Contractor's rate for any item of work in the schedule of item shall, unless stated otherwise be held to include the cost of all materials including wastage, conveyance and delivery, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size, tools and plants, power fuel, consumables, all taxes, royalties, other revenue expenses, temporary facilities like roads etc

1.0 EARTHWORK IN SITE GRADING TO DEVELOP THE PLOT


Brief description of major items shall be as follows:

- a) Taking pre-work and finished levels.
- b) Stripping and grubbing the top soil of 150 mm and preparation of sub-grade.
- c) Disposal of unserviceable and surplus earth to authorized dumping ground to any lead.
- d) Borrowing of approved quality good earth from any lead.
- e) Filling in layers of 150 mm thickness in controlled way.
- f) Watering and compaction up to 92% of modified dry proctor density of soil with mechanical means.
- g) Actual work shall be carried out as per certified construction drawings to be issued to successful tenderer.

Note : For all these items only consolidated final filling quantity in Cu.M shall be measured for payment

2.0 PCC WORK

Providing and laying PCC 1:3:6 in position (at locations where the same is not included in respective RCC item), construction and handing over of PCC in foundations, substructure, superstructure and under floor, etc complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.

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Following works shall be inclusive in the rate of PCC item:

- a) Earth Work in excavation including back filling (including using borrow earth and disposal of surplus earth).
- b) Providing shuttering and strutting of all types (If necessary).

Note : For all these items only net PCC concrete quantity in Cu.M shall be measured for payment.

3.0 REINFORCED CEMENT CONCRETE – SUBSTRUCTURE

Brief description of major items shall be as follows:


- a) Earth Work in excavation including back filling (including using borrow earth and disposal of surplus earth), including bailing out water (where ever required), shoring / etc.
- b) 75 thk. PCC 1:3:6 in mud mat as required.
- c) Providing shuttering and strutting of all types.
- d) RCC M20 as per drg. & specification including reinforcement (supply of cement, coarse aggregate, fine aggregate, reinforcement bending, placement, binding/ welding all inclusive & testing of concrete and other materials).
- e) RCC in foundation for pedestals for equipment like scrubber and filter.
- f) RCC foundation including temporary partition, Complete civil works for trenches as per requirement.
- g) Grouting of all base plates/frames of equipment foundations and structural bases as per requirement.
- h) Provision of all inserts, conduits, precast covers/chequered plates, fixing of free issue items into permanent works etc.
- i) Application of two coats of hot bitumen on surfaces in contact with soil.
- j) Clearing all construction debris and handing over completed work site.
- k) Any other work not mentioned specifically but required to make the terminal functional.
- l) Marking as-built details on one set of construction drawings and return to owner.
- m) Actual work shall be carried out as per certified construction drawings to be issued to successful tenderer.

Note : For all these items only net RCC concrete quantity in Cu.M shall be measured for payment

4.0 REINFORCED CEMENT CONCRETE – SUPERSTRUCTURE

Brief description of major items shall be as follows:

- a) Providing shuttering and strutting of all types
- b) RCC M20 as per drg. & specification including reinforcement (supply of cement, coarse aggregate, fine aggregate, reinforcement bending, placement, binding/ welding all inclusive & testing of concrete and other materials).

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- c) RCC for pedestals for equipment like scrubber, filter, cartridge, other equipments etc.
- d) Complete civil works for pipe supports, sleepers etc.
- e) Grouting of all base plates/frames of equipment foundations and structural bases as per requirement.
- f) Provision of all inserts, conduits, precast covers/chequered plates, fixing of free issue items into permanent works etc.
- g) Clearing all construction debris and handing over completed work site.
- h) Any other work not mentioned specifically but required to make the terminal functional.
- i) Marking as-built details on one set of construction drawings and return to owner.
- j) Actual work shall be carried out as per certified construction drawings to be issued to successful tenderer.

Note : For all these items only net RCC concrete quantity in Cu.M shall be measured for payment except building. The RCC quantity of building superstructure is included in the Plinth area item.

5.0 CONCRETE PAVEMENT

Brief description of major items shall be as follows:

- a) Earth Work in excavation including back filling (including using borrow earth and disposal of surplus earth).
- b) 50 Thk. PCC 1:3:6 mud mat.
- c) Providing shuttering and strutting of all types.
- d) RCC M20 as per drg & specification including reinforcement (supply of cement, coarse aggregate, fine aggregate, reinforcement bending, placement, binding/ welding all inclusive & testing of concrete and other materials).
- e) Providing and laying 150 mm thick reinforced cement concrete of (M-20 grade) with 20mm and down grade crushed stone aggregate in pavement, including preparation of base (i.e. compacted subgrade, 200 thk sand and 50 thk PCC (1:3:6).
- f) Providing pockets if necessary, making recess, trenches with covers projections, fixing inserts conduit pipes (GI, PVC, HDPE, etc.) laying in alternate panels, filling the gaps between the panels with bitumen etc.
- g) Making slopes, finishing edges, leaving bars for pedestals & sleepers including providing sand fill isolation.
- h) Providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the Engineer-in-charge.
- i) Application of two coats of hot bitumen on surfaces in contact with soil.
- j) Actual work shall be carried out as per certified construction drawings to be issued to successful tenderer.

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Note: Pavement – Completed civil works for pavement including, earth work in excavation, preparation of base i.e., compacted sub grade, 200 mm thk. sand filling and compaction, 50mm thk. PCC of grade M-7.5, shuttering, providing reinforcement, providing and fixing of inserts plates, conduits etc.

6.0 BRICK WORK

Complete works in brick masonry foundation is included in the scope. Brief description of major civil items shall be as follows:

- a) Earth Work in Excavation including back filling.
- b) Brick work with 1:4 cement mortar.
- c) 15 mm thk Plastering in CM (1:4) on exposed brick surfaces.
- d) Applying Bitument Paint on surfaces coming in contact with earth.
- e) Lime wash /Cement Punning on plastered surface.

Note : Only net brick masonry quantity shall be measured for payment purpose.

The construction of brick foundation work shall be done as per detailed construction drawings to be issued to the successful tenderer. Offer to be prepared by the tenderer based on work described above and payment will be made on rate (per CuM) of brickwork done

7.0 CONSTRUCTION OF RCC SUPPORTS FOR CHAIN LINK FENCING

Brief description of major items shall be as follows:


- a) Earth Work in excavation including back filling (including using borrow earth and disposal of surplus earth).
- b) 50 thk. PCC 1:3:6 mud mat.
- c) Providing shuttering and strutting of all types.
- d) RCC M20 as per drg & specification including reinforcement (supply of cement, coarse aggregate, fine aggregate, reinforcement bending, placement, binding/ welding all inclusive & testing of concrete and other materials).
- e) Grouting of all structural bases as per requirement.
- f) Application of two coats of hot bitumen on surfaces in contact with soil.
- g) Actual work shall be carried out as per certified construction drawings to be issued to successful tenderer.

Note : For all these items only net RCC concrete quantity in Cu.M shall be measured for payment in RCC in Sub-structure

8.0 SUPPLY, FABRICATION AND ERECTION OF CHAIN LINK FENCING 2.5M HIGH WITH MESH UP TO 2M HEIGHT

Brief description of major items shall be as follows:

- a) Providing, cutting, fabrication and installation of structure made in structural steel, fixed on RCC pedestals/footing with base plates, permanent bolts with plane and spring washers.
- b) Fixing of 3.15mm 50mm² mesh as per IS 2721-1979.

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- c) Fixing of four rows of barbed wire on top.
- d) Painting all structural steel elements.
- e) Fencing shall be erected as per detailed construction drawings to be issued to the successful tenderer.

Note : For all these items only net length of chain link fencing in RM shall be measured for payment.

9.0 SUPPLY, FABRICATION AND ERECTION OF MILD STEEL GATE 2.5M HIGH


Brief description of major items shall be as follows:

- a) Supply, fabrication and erection of mild steel gate 2.5 m high and 3 m wide.
- b) Fixing of 3.15mm 50mm² mesh as per IS 2721-1979.
- c) Fixing of four rows of barbed wire on top.
- d) Painting on MS gate for corrosive environment as per specification and drawings.
- e) Gate shall be erected as per detailed construction drawings to be issued to the successful tenderer.

10.0 SUPPLY, FABRICATION AND ERECTION OF MISCELLANEOUS STEEL STRUCTURAL WORKS

Brief description of major items shall be follows :

- a) Supply, fabrication and erection of crossovers, platforms, gate, inserts etc. as per requirement.
- b) Painting on steel structure for corrosive environment as per specification and drawings.

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3c) PARTICULAR JOB SPECIFICATION FOR INSTRUMENTATION

SCOPE OF WORK FOR INSTRUMENTATION

1) INTRODUCTION

M/s MNGL intends to lay and construct 6" x 19 kms (approx.) and 4" x 3.1 kms U/G Steel Pipeline network and associated works from Harohalli to the Bamul Plant in the Ramanagara GA.

2) SCOPE OF WORK:-

INSTRUMENTATION WORK:-

The scope of work shall include but not limited to the following:
Supply, Handling, Transportation, Installation, Calibration, Commissioning of field Instruments such as Pressure Gauges & Temperature Gauges
Supply of erection materials such as :

- i) SS tubes & fittings, angle supports, etc.
- ii) All instrumentation valves as per installation standards
- iii) Double compression glands and lugs for terminations

Enclosures:


LIST OF DATA SHEETS

(Instrumentation – enclosed with this particular job specification)

Sl. No.	DATA SHEET NO.	DESCRIPTION	Remarks
1	MNGL/23K8/05/E5/I/001/DS-PG	Specification of Pressure Gauges	Enclosed with this particular job specification
2	MNGL/23K8/05/E5/I/001/D S-TG	Specification of Temperature Gauge	- do -

LIST OF INSTALLATION DRAWINGS (Instrumentation)

Sl. No.	Standard Specification	Description	Remarks
1.	MNGL/PIng./Steel/07	Pressure Gauges	Enclosed with Vol-III of III
2.	MNGL/PIng./Steel/09	Mounting Details for	Enclosed Vol-III of III

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		Thermowells (Temperature Gauges)	
3.	MNGL/Plng./Steel/08	Installation for Temperature Gauges & RTD	Enclosed with Vol-III of III

PROJECT: CNG & CITY GAS PROJECT IN R A M A N A G A R A G A
Data Sheet No.: MNGL/23K8/05/E5/I/001/DS-PG

PRESSURE GAUGES

Units:- **Flow** : Liquid-m³/hr **Gas**-Nm³/hr **Steam**- kg/hr **Pressure**-Kg/cm²g **Temperature**-°C **Level/Length**-mm

1	Type	Direct
2	Mounting	Direct Bottom Entry
3	Dial size	150 mm/6"
3.1	Dial Colour	Aluminium, Black Graduation on white Background
4	Case material	AISI SS 304
5	Bezel ring	Screwed/ Bayonet
6	Window material	Shatter proof glass
7	Enclosure	IP 55 or better/ NEMA 4
8	Pressure element	Bourdon tube
9	Element material	SS 316
10	Socket material	SS 316
11	Accuracy	± 1% FSD
12	Zero adjustment	Micrometer pointer (Internal)
13	Connections	½" NPT (M)
	Conn. Location	Bottom
14	Movement	SS 304
15	Diaphragm seal	---
16		
17	Type	---
18	Wetted parts material	---
	Element	---
	Lower body	---
19	Non wetted parts	---
20	Process connection	---
	Size	---
	Rating	---
21	Facing & Finish	---
22	Capillary material	---
23	Capillary length	---
24	Flushing & Filling	---
25	Over range protection	130% of range
26	Blow out protection	Required
27	Options	


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- | | |
|----|----------------------|
| a) | Snubber |
| b) | Syphon |
| c) | Gauge saver |
| d) | Liquid filled casing |
| e) | Solid front |

Tag No.	Range	Pressure		Design Temp.	Fluid	Service	Options
		Operating	Design				
PG-**	*	-	49 *	65	N.GAS	Natural Gas	
PG-**	*	-	92 *	65	N.GAS	Natural Gas	

NOTES:

- 1) Offered Instruments shall be suitable for corrosive constituents CO₂ - 4.5 % .
- 2) Make shall be of AN INSTRUMENTS/GENERAL INSTRUMENTS/WIKA/WAAREE and Model Nos. to be specified by bidder.
- 3) ** - Qty. as per P&ID / Schematic Drg.
- 4) * To be confirmed during detailed engineering.

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PROJECT: CNG & CITY GAS PROJECT IN RAMANAGARA GA

TEMPERATURE GAUGE
Data Sheet No.: MNGL/23K8/05/E5/I/001/DS-TG

Units: - Flow: Liquid-m³/hr Gas-Nm³/hr Steam- kg/hr Temperature- °C Level/Length-mm

GENERAL

1	Type	FILLED SYSTEM
2	Well	REQUIRED
3	Mounting	LOCAL
4	Dial size	150 mm/6"
5	Dial Colour	Aluminium, Black Graduation on white Background
6	Case material	AISI SS 304
7	Window material	SHATTER PROOF GLASS
8	Conn. Location	BOTTOM
9	Accuracy	±1% FSD
10	Enclosure	WEATHER PROOF TO IS2147
	Enclosure class	IP 55 or better / NEMA 4
11	Zero adj. Screw	MICROMETER POINTER (Internal)


BIMETAL

12	Stem:	
	Type	
	Material	
	Size	
13	Stem Diameter	
14		

FILLED SYSTEM

15	SAMA Class	V B
	Compensation	CASE
16	Bulb type	ADJUSTABLE UNION
	Bulb material	316 SS
17	Bulb union threaded to	½" NPT (M)
18	Extension type	RIGID
19	Bulb dia	TO SUIT WELL
20	Capillary material	
	Armour Flexible	
	Armour material	
	Capillary length	
21	Overrange protection	130% OF RANGE

THERMOWELL

 MAHARASHTRA NATURAL GAS LIMITED	TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA. Bid No.: MNGL/CP/2024-25/176
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22	Material	SS 316
23	Construction	DRILLED BAR STOCK
24	Process connection	1 ½" FLANGED
25	Gauge connection	½" NPT (F)
26	Thermowell as per drg	Drg enclosed
27	Options	
	a) LIQUID FILLED	

Tag No.	Range	Temperature		Well Dimensions		Flange		Service	Options
TG - **		Nor	Design	U	T	Material	Rating/Face/Finish		
	0-100	5 – 50	65	*	*	ASTM A 105	300# RF 125 AARH ***	N.GAS	


NOTES:

'*' : Information to be supplied by bidder.

'**' – Qty as per P&ID / Schematic Drg.

*** To confirmed during detailed engineering.


- 1) Offered Instruments shall be suitable for corrosive constituents CO₂ - 4.5 %.
- 2) Make shall be of AN INSTRUMENTS/GENERAL INSTRUMENTS/WAAREE and Model Nos. to be specified by bidder.

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3d) PARTICULAR JOB SPECIFICATION FOR TCP WORKS

CONTENTS


Sl.No.	Description
1.0	Scope of Work
2.0	Scope of Supply
3.0	Job Specification
4.0	Statutory Approval
5.0	Inspection Testing & Commissioning
6.0	Documents, Specifications, Standards & Drawings
7.0	Construction
8.0	Make of Material/ Bought Out Items
9.0	Inspection of Supply Items
10.0	Appendix-I (List of Approved Parties for Bought out items)

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1.0 SCOPE OF WORK FOR CATHODIC PROTECTION WORK

1.1 Design, detailed engineering, supply, installation, testing and commissioning of the temporary Cathodic protection system using Mg/ Zn galvanic anodes to protect the external surface of 6" dia 3 layer PE coated, 19 km (approx.) & 4" Dia. 3 layer PE coated, 3.1 km (approx.) long steel pipeline (including minimum 2 mm PE tape externally coated casing pipes of all sizes for cased crossings) in MNGL's GA against corrosion for a minimum life of 2 years or till commissioning of permanent CP system whichever is later as per standard specification No MNGL/Steel/TS/15 for temporary cathodic protection system. Scope shall also include but not limited to the following for completion of jobs:-

- a) Measurement of soil resistivity along the right of way of the main pipeline route as per specification for design & installation of anodes.
- b) Carrying out the railway track-to-soil potential w.r.t Cu -CuSO₄ reference electrode in the vicinity of pipeline route where railway tracks, busy & idle run in parallel to the pipeline at a depth of 1.5 m and interval of 50 m, collection of data for the operating voltage of tracks, location of converter stations & impedance boxes etc. from the competent authority of Railways along railway track.
- c) Collection of additional data related to cathodic protection along the right of way of pipeline as per specifications.
- d) Supply, installation, testing & commissioning of one set of spark gap arrestor with 2 plate Zinc grounding cell of 20 kg net weight each across each insulating joint provided on the pipeline as per specification.
- e) Supply, installation, testing & commissioning one set of polarization cell with zinc anodes at all high tension (66KV or higher) electrical power transmission line / Equipment crossing or running parallel the pipelines for grounding purpose as per specification. The rating shall depend upon anticipated fault current & ground bed resistance at the location of installation. However, the rating of polarisation cell (krick) shall not be less than 5 KA & number of 20 kg net weight zinc anode shall not be less than two.
- f) Supply & installation of Zinc Ribbon Anodes at 4-8 O'Clock position in the interval of 2 metre (max.) on carrier pipes at all cased crossings i.e. railways/ roads etc.
- g) Monitoring of the TCP system for 24 weeks from date of commissioning of TCP system.

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- h) All civil/ structural works related to TCP system including supply of bricks, cement & steel etc. required for completion of the system.

2.0 SCOPE OF SUPPLY OF MATERIALS

2.1 Owner's Supply - NIL

2.2 Contractor's scope of supply - All materials as indicated in clause no. 1.0 above.

3.0 JOB SPECIFICATION

3.1 The total supply, erection & testing/ commissioning of Cathodic Protection system as described in clause no. 1.0 above shall be executed on LSTK concept by any one of the approved contractors.

Various electrical works related to Cathodic Protection covered under this contract like equipment erection, cabling and grounding works etc. shall be performed in accordance with the specifications attached with this tender.

3.2 All electrical equipments are to be doubly earthed by connecting two earth wire from the frame of the equipment to the earth grid. The cable armours will be earthed through cable glands. The following shall be earthed:


- a) All non-current carrying metallic parts of electrical equipments such as lighting and power panels, push button stations, cable trays etc.
- b) Lighting fixtures shall be earthed through the extra core provided in the lighting cable/ conduit for this purpose.

4.0 STATUTORY APPROVAL OF WORKS


The application on behalf of the Owner for submission to Electrical Inspector/ Central Electricity Authority alongwith copies of required certificates complete in all respects, shall be prepared by the contractor and submitted to the Engineer-in-charge for onward transmission well ahead of time so that the actual commissioning of equipment are not delayed for want of inspection by the Electrical Inspector/ CEA. The actual inspection of work by the Electrical Inspector/ CEA shall be arranged by the Contractor and necessary coordination and liaison work in this respect shall be the responsibility of the contractor. However, any fee paid to the electrical inspectorate in this regards shall be reimbursed by the Owner on submission of bills along with documentary evidence.

The Inspection and acceptance of the work as above shall not absolve the Contractor from any of these responsibilities under this contract.

5.0 INSPECTION, TESTING AND COMMISSIONING

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- 5.1 All equipment supplied and installed by the contractor shall be inspected by Owner's/ consultants representative tested and commissioned as required and no separate payments shall be made unless otherwise specified in the schedule of rates.
- 5.2 Any work not conforming to the execution drawings, specifications or codes shall be rejected forthwith and the contractor shall carry out the rectification at his own cost.
- 5.3 The contractor shall carry out all tests as enumerated in the technical specification and as per the applicable Codes and Standards.
- 5.4 Before the electrical system is made live, the electrical contractor shall carry out suitable tests to establish to the satisfaction of Engineer-in-charge that the installation of equipment wiring and connections have been correctly done and are in good working condition and that it will operate as intended.
- 5.5 All tests shall be conducted in the presence of Owner/ Engineer-in-charge or his authorized representative unless he waives this requirement in writing. All testing equipment necessary to carry out the test shall be arranged by the contractor. The tests shall be recorded on approved proforma and certified records of the tests shall be submitted to Owner/ Engineer-in-charge.
- 5.6 After the completion of all tests and rectification of all defects pointed out during final inspection, plant start-up trials would be commenced. During the start-up contractor shall provide skilled/ unskilled personnel and supervision round the clock at his cost. The number and category of workmen and duration up to which required will be decided by the Engineer-in-charge. Any defects noticed during the start-up trial relating to the equipment supplied and work carried out by the Contractor, will be rectified by the contractor at his own cost.
- 5.7 Engineer-in-charge shall have the right to get these defects rectified at the risk and cost of the contractor if he fails to attend to these defects immediately as desired.
- 5.8 After the operating conditions are fully achieved in the plant and the other requirements as stated in the General Conditions of Contract are fulfilled, the Contractor would be eligible for applying for a completion certificate.
- 6.0 **DRAWINGS, STANDARD SPECIFICATION AND INSTALLATION STANDARDS**
- 6.1 Please refer **Vol-II of III** for standard specification enclosed with this tender document & for the list of drawings & installation standards refer **Vol-III of III**.

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6.2 The equipments/ materials to be supplied by the contractor shall conform to the requirements of the applicable standard specifications. Also the installation of various material/ equipment shall also conform to the standard specification.


6.3 The purpose of the pipeline alignment drawings, P&IDs & Plot Plan drawings enclosed with the tender document is to enable the tenderer to make an offer in line with the requirements of the Owner. These are indicative of the nature of work and issued for tendering purposes only. The bidders, however, shall visit the site before bidding for proper information of site conditions. Construction shall be as per drawings/ specifications issued/ approved by the Owner/ Consultant during the course of execution of work.

A) SPECIFICATION (Enclosed with Vol-II of III)

1. Specification for Temporary Cathodic Protection System
MNGL/Steel/TS/15
2. Specification for Corrosion Survey MNGL/Steel/TS/16

B) STANDARD DRAWINGS (Enclosed with Vol-III of III)

1. PREPACKED ZINC ANODE MNGL/PIng./Steel/14
2. PREPACKED MAGNESIUM ANODE MNGL/PIng./Steel/15
3. MAGNESIUM RIBBON ANODE FOR GROUNDING
MNGL/PIng./Steel/16
4. TEST STATION WITH FOUNDATION DETAILS
MNGL/PIng./Steel/17
MNGL/PIng./Steel/18
5. TEST STATION CONNECTION SCHEMES -
MNGL/PIng./Steel/19
MNGL/PIng./Steel/20
6. GALVANIC ANODE INSTALLATION MNGL/PIng./Steel/21
7. ZINC RIBBON ANODE FOR CASED CROSSINGS WITH COATED
CASINGS MNGL/PIng./Steel/22
8. PIPELINE GROUNDING THROUGH POLARISATION CELL AND
GALVANIC ANODES MNGL/PIng./Steel/23
9. DETAILS OF ZINC GROUNDING CELL MNGL/PIng./Steel/24
10. PERMANENT COPPER - COPPER SULPHATE REFERENCE CELL &
INSTALLATION DETAILS MNGL/PIng./Steel/25
11. TEST STATION FOR POLARISATION CELL MNGL/PIng./Steel/26
MNGL/PIng./Steel/27
12. DETAIL OF THERMIT WELD MNGL/PIng./Steel/28

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C) DRAWINGS FOR TENDER PURPOSE (enclosed with Vol-III of III)

For list of drawings for tender purpose, please refer Particular Job Specification in Vol-III of III.

7.0 CONSTRUCTION

OWNER reserves the right to inspect all phases of CONTRACTOR's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or other duly authorized representatives, made known to the CONTRACTOR present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of a OWNER's representative does not relieve the CONTRACTOR of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the CONTRACTOR or any SUB-CONTRACTOR is found by OWNER's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the CONTRACTOR shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.

7.1 Rules & Regulations

CONTRACTOR shall observe in addition to Codes specified in respective specification, all National and Local Laws, Ordinances, Rules and Regulations and requirements pertaining to the WORK and shall be responsible for extra costs arising from violations of the same.

7.2 Procedures


Various procedures and method statements to be adopted by CONTRACTOR during the construction as required in the respective specifications shall be submitted to OWNER in due time for APPROVAL. No such construction activity shall commence unless approved by OWNER in writing.

7.3 Field Inspection

CONTRACTOR shall have at all times during the performance of the WORK, a Competent Superintendent on the premises. Any instruction given to such superintendent shall be construed as having been given to the CONTRACTOR.

7.4 Erection and Installation

The CONTRACTOR shall carry out required supervision and inspection as per quality Assurance plan and furnish all assistance required by the OWNER in carrying out inspection work during this phase. The OWNER will have engineers, inspectors or other authorized representatives present who are to have free access to the WORK at all times. If an OWNER's representative notifies the CONTRACTOR's authorized representative not lower than a Foreman of any deficiency, or recommends action regarding compliance with the SPECIFICATIONS, the CONTRACTOR shall make every effort to carry out such instructions to complete the WORK conforming to the SPECIFICATIONS and approved DRAWINGS in the fullest degree consistent with best industry practice.

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7.5 Construction Aids, Equipment, Tools & Tackles

CONTRACTOR shall be solely responsible for making available for executing the work, all requisite Construction Equipments, Special Aids, Cranes, Tools, Tackles and testing equipments and appliances. Such construction equipments etc. shall be subject to examination by owner and approval for the same being in first class operating condition. Any discrepancies pointed out by OWNER shall be immediately got rectified, repaired or the equipment replaced altogether, by CONTRACTOR. OWNER shall not in any way be responsible for providing any such equipment, machinery, tools and tackles.

The OWNER reserves the right to rearrange such deployment depending upon the progress and priority of work in various sections.


Tie-end between main line and starting point of terminal is included in the scope of contract, as and when main line section is available for Tie-ins.

8.0 MAKE OF MATERIAL/BOUGHT OUT ITEMS

An Appendix-I of approved vendors for various major items is enclosed with this tender specification. The bidder shall consider such names only as indicated in the aforesaid list and clearly indicate in the bid the name(s) as selected against these items. For any other item not covered in the list enclosed with this tender document, prior approval shall be obtained by the contractor for its make/supplier's name.

9.0 INSPECTION OF SUPPLY ITEMS

All inspections and tests shall be made as required by the specifications forming part of this contract. Contractor shall advise Owner/ Consultant in writing at least 10 days in advance of the date of final inspection/tests. Manufactures inspection or testing certificates for equipment and materials supplied, may be considered for acceptance at the discretion of Owner/ Consultant. All costs towards testing etc. shall be borne by the contractor within their quoted rates. All inspection of various items shall be carried out based on Quality Assurance Plan, which will be submitted by the Contractor and duly approved by Owner/ Consultant.

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APPENDIX-I

(To PJS for TCP Works)

10.0 APPENDIX-I (LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS)

1) CABLES


- i) Brooks
- ii) Nicco
- iii) Biren
- iv) CMI
- v) Delton
- vi) KEI
- vii) Reliance
- viii) Satellite Cables
- ix) Evershine
- x) Torrent Cables
- xi) Universal
- xii) Victor
- xiii) Indian Aluminium Cables
- xiv) Associated Flexible & Wires
- xv) Asain
- xvi) Fort Gloster
- xvii) Finolex
- xviii) Industrial
- xix) Rediant
- xx) NITCO

2) JUNCTION BOX


- i) Exprotecta, Beroad
- ii) Baliga
- iii) Flexpro
- iv) FFLP Control Gears
- v) Sterling
- vi) Sudhir
- vii) Electrical Equipment Corporation

3) SACRIFICIAL ANODES

- i) Scientific Metals Engineers Pvt. Ltd., Karaikudi
- ii) PSL Holding Pvt. Ltd., Mumbai
- iii) Cathodic Controls, Bangalore
- iv) BHEL, Bhopal
- v) Electro Protection Services, India

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|----|---|---------------------------------------|
| 4) | Portable Reference Cell | : MC Miller (USA) |
| 5) | Thermit Weld | : M/s Erico, USA, M/s Cad Weld |
| 6) | Digital Multimeter | : MOTWANE, MODEL DM-375 or Equivalent |
| 7) | Battery (Lead Acid)
(Maintenance Free) | : Exide/ Amar Raja/ HBL |

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PART - E


SPECIAL CONDITIONS OF CONTRACT (SCC)

COMMERCIAL

1.0 LABOUR, LABOUR LAWS AND SITE REQUIREMENTS

1.1 Labour

- 1.1.1 The Contractor shall make his own arrangements for the engagement of all labour for doing the work at site or in respect of or in connection with the execution of work as also for the transport, housing, feeding and payment thereof.
- 1.1.2 The Contractor shall provide on the site, an adequate supply of drinking and other water for the use of the Contractor's staff and labours.
- 1.1.3 The Contractor shall not import, sell, give, barter or otherwise dispose of any alcoholic liquor, or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his subcontractor/s, his/their servants, agents or employees.
- 1.1.4 The Contractor shall not give, barter or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid by his sub-contractor/s, his/their servants, agents or employees.
- 1.1.5 The Contractor shall in all dealings with labour in his employment have due regard to all recognized festivals, days of rest and religious or other customs.
- 1.1.6 In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with any carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary
- 1.1.7 The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riots or disorderly conduct by or amongst his employees/labour and for the preservation of peace and protection of persons and property in the neighbourhood of the works against the same.
- 1.1.8 The Contractor shall at all times during the continuance of the contract comply fully with all existing Acts, Regulations and by laws including all statutory amendments and re-enactment of State or Central Government and other local authorities and the Central Government or local authority, including Indian Workmen's Compensation Act., Contract labour (Regulation and Abolition) Act., 1970 and Equal Remuneration Act, 1976, Factories Act, Minimum wages Act, provident Fund act, etc., and sanitary arrangement for the said Act. Health and sanitary Arrangements for workmen, Insurance and other benefits etc., and shall indemnify and keep the Owner/Engineer-in-charge indemnified in case any proceedings are taken or commenced by any authority against the Owner/Engineer-in-Charge for any contravention of any of the laws, by laws or

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scheme by the Contractor. If as a result of Contractor's failure, negligence, omission, default or non-observance of any provisions of any laws, the Owner/Engineer-in-Charge is called upon by any authority to pay or reimburse or required to pay or reimburse any amount, the Owner/Engineer-in-Charge shall be entitled to deduct the same from any money due or that may become due to the Contractor under this contract or any other contract or otherwise recover from the Contractor any sums which the Owner/Engineer-in-Charge is required or called upon to pay or reimburse on behalf of the Contractor. All registration and statutory inspection fees in respect of his work pursuant to the contract shall be paid by the Contractor.

- 1.1.9 The Contractor shall pay the labourers engaged by him on the work not less than a fair wage, which expression shall mean, whether for time or piece work, rates of wages as may be fixed by the Public Work Department as fair wages for respective location payable to the different categories of labours or those notified under the Minimum Wages Act for corresponding employees of the Owner/Engineer-in-Charge whichever may be higher.
- 1.1.10 The Contractor shall notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to the labours indirectly engaged by sub-Contractors in connection with the said works as if the labourer had been directly employed by him.
- 1.1.11 The contractor shall, before he commences the work, display and correctly maintain in a clean and legible condition at a conspicuous place on the site notices in English and in a local language spoken by the majority of the workers, stating therein the rate of wages which have been fixed as fair wages and the hours of work for which such wages are earned and send a copy of such notices to the Owner/Engineer-in-Charge.
- 1.1.12 The Contractor shall maintain records of wages and other remuneration paid to his employees in such form as may be convenient and to the satisfaction of the Owner/Engineer-in-Charge and the Conciliation Officer (Central), Ministry of Labour, Government of India, or such other authorized person appointed by Central or State Government.
- 1.1.13 The Contractor shall provide a wage slip for each worker employed on the works.
- 1.1.14 The wage records and wage slips shall be preserved by the Contractor for minimum period of 12 months after the last entry or such time as the Owner/Engineer-in-Charge may fix in that behalf.
- 1.1.15 The Contractor shall allow inspection of the aforesaid wage records and wage slip to the Owner/Engineer-in-Charge at a convenient time and place after notice is received by him from the Owner/Engineer-in-Charge demanding such inspection.

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1.1.16 The Owner/Engineer-in-Charge or any other person authorized by him on his behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of the Fair wages Clauses. The Owner/Engineer-in-Charge shall also have the power to investigate into any complaint regarding any default made by the Contractor or his sub-Contractor in regard to such provision.

1.1.17 The Owner/Engineer-in-Charge shall have the right to deduct from the moneys due to the Contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of nonpayment of fair wage, except any deductions that may be permissible under any law for the time being in force.

1.2 Labour Law

1.2.1 Under the provisions of Employees Provident Funds and Misc. Provision Act-1952, every employee is entitled to and required to become a member of the PF from the beginning of the month following that in which he completes three months continuous service or has actually worked for not less than 80 days during the period of three months or less whichever is earlier. The Contractor is to fulfill statutory obligations regarding Employees Provident Fund.

1.3 Labour License

1.3.1 Before starting of work at site, Contractor shall obtain a license from concerned authorities under the Contract Labour (Abolition and Regulation) Act 1970, and furnish copy of the same to Owner.

1.4 Labour Relations


1.4.1 In case of labour unrest/labour dispute arising out of non-implementation of any law, the responsibility shall solely lie with the Contractor and he shall remove/resolve the same satisfactorily at his cost and risk.

1.4.2 The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst his staff and labour and to preserve peace and protection of persons and property in the neighborhood of the Works against such conduct.

1.5 Employment of Local Labour

1.5.1 The Contractor shall ensure that local labour, skilled and/or unskilled, to the extent available shall be employed in this work.

1.5.2 The Contractor shall not recruit personnel of any category from among those who are already employed by the other agencies working at site but shall make maximum use of local labour available.

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1.6 Access to Site

The Contractor shall obtain prior permission of the Owner/Engineer-in-Charge before any person not directly connected with the works visits the site. Contractor shall obtain prior permission for his workers gate pass/for materials etc., as may be required to carry out the works at site from the Owner/Engineer-in-Charge and shall follow the rules and regulations of CISF/Owner/Engineer-in-Charge which may be enforced from time to time for entry or exit.

1.7 Contractor's Labourers to Leave Site on Completion of the Work

The Contractor's labourers must leave the location of the project site after the work is tapered/ completed to avoid creation of a slum in the areas adjoining the project.

1.8 Site Cleaning

1.8.1 The Contractor shall clean and keep clean the work site from time to time to the satisfaction of the Engineer-in-Charge for easy access to work site and to ensure safe passage, movement and working.

1.8.2 If the work involves dismantling any existing structure in whole or part, care shall be taken to limit the dismantling upto the exact point and/or lines as directed by the Engineer-in-Charge and any damage caused to the existing structure beyond the said line or point shall be repaired and restored to the original at the Contractors cost and risk to the satisfaction of the Engineer-in-Charge, whose decision shall be final and binding upon the Contractor.

1.8.3 The Contractor shall be custodian of the dismantled materials till the Engineer-in-Charge takes charge thereof.

1.8.4 The Contractor shall dispose off the unserviceable materials, debris etc. to any area within the site premises as decided by the Engineer-in-Charge.

1.8.5 The Contractor shall sort out, clear and stack the serviceable material obtained from dismantling at places as directed by the Engineer-in-Charge.


1.8.6 No extra payment shall be paid on this account.

1.9 Fuel Requirement of Workers

1.9.1 Contractor shall be responsible to arrange at his own cost for the fuel requirement of his workers and staff. Cutting of trees etc. shall not be permitted for this purpose.

1.10 Protection of Existing Facilities

1.10.1 Contractor shall obtain plans and full details of all existing and planned underground services from the relevant Deptt. of Owner and shall follow these plans closely at all times during the performance of work. Contractor shall be responsible for location and protection of all underground lines and structures at his own cost.

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- 1.10.2 Despite all precautions, should any damage to any structure/ utility etc. occur, the Owner/ authority concerned shall be contacted by the Contractor and repair shall forthwith be carried out by Contractor at his expenses under the direction and to the satisfaction of Engineer-in-charge and the concerned Owner/ authority.
- 1.10.3 The Contractor shall not store any materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- 1.10.4 Contractor shall obtain all safety clearance (viz. Excavation, Hot/ Cold work permit) from the Owner prior to start of work. Work without safety permit shall not be carried out.
- 1.10.5 Contractor shall in consultation with Owner and the concerned authorities, take adequate measures for strengthening the existing electric poles, telephone poles etc. in the proximity of the pipeline alignment. Contractor shall take adequate protective measures to prevent damage to these facilities during construction. Contractor shall have to adopt such method of construction as will be suitable for working in these areas using the limited space available and without causing any damage to these facilities. Contractor shall be deemed to have taken cognizance of all such constraints, etc. while working in this area and Contractor shall not be entitled to claim any extra at a later stage.


1.11 Fronts for Work; Where Other Agencies are Involved

The work involved under this Contract may include such works as have to be taken up and completed after other agencies have completed their jobs. The Contractor will be required and bound to take up and complete such works as and when the fronts are available for the same and no claim of any sort whatsoever shall be admissible to the Contractor on this account. Only extension of time limit shall be admissible, if the availabilities of work fronts to the Contractor are delayed due to any reason not attributable to the Contractor.

It is to be noted that other contractors will be working during the currency of this Contract. The Contractor shall co-ordinate with such other contractor(s) and ensure that the work of other contractor(s) is not effected, The Engineer-in-Charge will decide the priority and the same shall be binding without any cost and time effect.

1.12 Payment of Wages

- 1.12.1 The Contractor shall ensure payment of wages to all workmen employed, by him or sub-contractor or by any other agency on his behalf in connection with the work before the expiry of the 7th day after the last day of wage period in respect of which the wages are paid and shall ensure wages standards, period and provisions (including the provision of wages, privilege and facilities) for all workmen in this behalf, prescribed under the payment of wages Act, the Contract Labour (Regulation & Abolition) Act-1970 and rules framed there under, the

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Minimum Wages Act and any other applicable law, rule or regulation in this behalf including but not limited to the following:

1.12.1.1 Weekly off with Wages

The labour must be given weekly off with wages as admissible.

1.12.1.2 National Holidays

Three National Holidays viz. Republic Day (26th January), Independence Day (15th August) and Gandhi Jayanti (2nd October) must be granted to all the workers with wages.

1.12.1.3 Payment of Overtime Wages

Labour governed under the provision of Factories Act- 1948 (working inside the battery areas) shall be paid overtime wages at double the normal rate of wages for working beyond 08 (Eight) hours in a day and 48 hours in a week.

Labour in general should not be engaged for duty for more than 08 hours in a day except in case of exigencies of work. If they are engaged for performing duty for more than 08 hours they should be paid overtime wages at the rates applicable.

1.13 Site Facilities

1.13.1 The Contractor shall arrange for the following facilities at site, for workmen deployed/engaged by him/his sub-contractor, at its own cost.

- (i) Arrangement for First Aid.
- (ii) Arrangement for clean & potable drinking water.
- (iii) Toilet
- (iv) Canteen where tea & snacks are available
- (v) A creche where 10 or more women workers are having children below the age of 6 years
- (vi) Any other facility/utility as may be required under the Contract.


2.0 Rounding off

All payments to and recoveries from the Contractor shall be rounded off to the nearest rupee. Wherever the amount to be paid/recovered consists of a fraction of rupee (paise), the amount shall be rounded off to the next higher rupee if the fraction consists of 50 (fifty) paise or more and if the fraction of a rupee is less than 50 (fifty) paise, the same shall be ignored.

3.0 Computerised Contractors Billing System

Without prejudice to stipulation in General Condition of Contract, Contractor should follow following billing system.

The bills will be prepared by the Contractor on their own PCs as per the standard formats and codification scheme proposed by MNGL. The Contractor will be provided with data entry software to capture the relevant billing data for

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subsequent processing. Contractor will submit these data to MNGL in an electronic media alongwith the hard copy of the bill, necessary enclosures and documents. The Contractor will also ensure the correctness and consistency of data so entered with the hard copy of the bill submitted for payment. Owner will utilize these data for processing and verification of the Contractor's Bills".

4.0 Leads

For the various works, in case of contradiction, leads mentioned in the Schedule of Rates shall prevail over those indicated in the Technical Specifications.

5.0 Insurance for Personal injuries

The Contractor shall at his own costs and expenses obtain and shall cause any sub-Contractor to obtain such insurances as may be necessary' to cover the liability of the Contractor or as the case may be of such subcontractor in respect of personal injuries and death arising out of or in the course of or caused during the execution of the works and shall produce or cause any such subcontractor to produce for inspection the relevant policy or policies together with receipt for the premium paid under such policy/policies as and when required by the Owner/Engineer-in-Charge.

6.0 Strike/Lock out by Contractor's Employees

Non-availability of labour or strike by the Contractor's employees or lock out shall not be a ground or any excuse for not completing the works within the stipulated time nor shall be a ground or any excuse; for extension of period of completion of works.

7.0 Make of Materials

7.1 All equipment and materials to be supplied under this contract shall be from approved vendors as indicated in enclosed Appendix-I to Particular Job Specification.


7.2 Where the makes of materials are not indicated in the Bidding Document, Contractor shall furnish details of proposed makes and supply the same after written approval of Owner. Proposed makes will be considered, provided sufficient information are furnished to the Owner to assess the makes proposed by the Contractor as equivalent and acceptable.

8.0 Preamble to Schedule of Rates

Preamble to schedule of rates attached with SOR is only indicative & shall not be the basis for any extra item at a later date.

8.1 Completion Documents

The following documents shall also be submitted by the Contractor in triplicate as a part of completion documents:

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- a) Material test and analysis certificate and chemical analysis of weld deposits.
- b) Welding Procedure Qualification Report.
- c) Welder Qualification Report.
- d) Heat treatment charts and reports (if applicable)
- e) Radiographic Procedure Qualification.
- f) Radiographic Report alongwith radiographs
- g) Hydrostatic test and other test results.
- h) Test certificate from manufacturers for electrodes and painting material and any other material supplied by the Contractor.
- i) Material appropriation statement as required.
- j) Six set of construction drawing showing therein the execution of the work duly approved by the Engineer-in-Charge alongwith one set of reproducible on polyester film (drawings prepared by Contractor).
- k) Other documents as mentioned in Technical Specification,

9.0 **SETTLEMENT OF DISPUTE BETWEEN GOVERNMENT DEPARTMENT/ PUBLIC SECTOR UNDERTAKINGS AND PUBLIC SECTOR UNDERTAKINGS**


In the event of any disputes or differences between the Contractor and the Owner, if the Contractor is a Government department, a Government company or an undertaking in the public sector, then such disputes or differences shall be resolved amicably by mutual consultation or through the good offices or empowered agencies of the Government, If such resolution is not possible, then the unresolved disputes or differences shall be referred to arbitration of an arbitrator to be nominated by the Secretary, Department of legal affairs (Law Secretary) in terms of the Office Memorandum No.55/3/1/75-CF dated 19th December, 1975 issued by the Cabinet Secretariat (Deptt. of Cabinet Affairs) as modified from time to time. The Arbitration Conciliation Act 1996 shall not be applicable to the arbitrator under this clause. The award of the arbitrator shall be binding upon parties to the dispute, provided, however any party aggrieved by such award may make a further reference for setting aside or revision of the award to Law Secretary whose decision shall bind the parties finally and conclusively.

10.0 **CONTRACT DOCUMENT**

The Contractor is required to execute a formal Agreement as per the Form of Contract, with the Owner. For execution of the Agreement, Stamp Paper of appropriate value shall be provided by the Contractor after ascertaining its value.

Till the time, the Contract is executed between Owner & Contractor, the following documents shall be deemed to constitute the Contract:

- i) Letter/Fax of Acceptance.
- ii) Bidding Document alongwith set of drawings.
- iii) Addendum to Bidding Document, if any.
- iv) Bid of Contractor consisting of:
 - a) Schedule of Rates as accepted by Owner.

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- b) Deployment Schedule of Supervisory Personnel
- c) Deployment Schedule of Construction Equipment
- d) Organisation Chart
- e) Any other document of Bidder's offer as decided by Owner.

The documents as mentioned at Sl. No. b, c & d shall be considered as indicative and shall be augmented from time to time to complete the Work within the stipulated time.

11.0 DEFINITIONS

- 11.1 "Bid" means the offer (unpriced as well as priced) submitted by a Bidder in response to the Invitation to Bid.
- 11.2 "Bidding Document" also referred to as Tender Document means the document issued to a prospective bidder to enable him to submit his Bid. This shall include all documents as per the Master Index.
- 11.3 "Addendum/Amendment" means a document issued to Bidders which incorporates changes/corrections/additions to the Bidding Document. This shall form part of Bidding Document.
- 11.4 "OWNER", "Client", 'Company' or "MNGL" appearing anywhere in this Bidding Document shall mean the Maharashtra Natural Gas Limited having its registered office at 'A' Block, Plot no. 27, Narveer Tanajiwadi, PMT Bus Depot, Commercial Building, 1st Floor, Shivajinagar, 121 - 411005 and includes its successors and assigns.
- 11.5 "Bidder"/"Tenderer" shall mean any company, firm or body who submit the bid consequent upon issue of Bidding Document.

12.0 CONSTRUCTION WATER & POWER SUPPLY

12.1 Construction Power

Clause No. 2.4 of GCC stand modified to the following extent only :

Construction power shall not be provided by Owner. Contractor shall make his own arrangement at his cost for Construction Power and quoted prices shall be deemed to have been included the same.

Contractor shall arrange power required for construction for the Project on behalf of the Owner. All associated activities for obtaining necessary approvals and sanctions from local authorities for construction power shall be coordinated by the Contractor, the cost of which shall be deemed to be included in the quoted rates under various items of work of the "Schedule of Rates" and nothing extra shall be paid on this account. The renewal of the construction power connection at regular intervals shall also be the responsibility of the Contractor. All

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installations/ fixtures and fittings/fittings/cabling for construction power shall be the responsibility of the Contractor without any additional cost to the Owner.

12.2 Construction Water

Clause No. 2.3 of GCC stand modified to the following extent only:

Construction water will not be supplied by Owner, Contractor shall make his own arrangement at his own cost for water required for construction work as well as drinking purposes required by labour force at site and the quoted prices shall be deemed to have been included the same. The Contractor shall get approval from the Owner/Engineer-in-Charge regarding suitability of water for construction purposes.

13.0 LAND FOR SITE OFFICE

13.1 Clause No. 2.5 of General Conditions of Contract is modified to the following extent:-

Land for contractor's site office, godown, workshop, fabrication yard or labour colony etc. shall not be provided by Owner. Contractor shall make his own arrangement for any and all land required by him for the execution of the works and the quoted prices shall be deemed to have been included the same. Moreover, Contractor has to ensure that site office shall be located in commercial complexes with prior approval from EIC.

14.0 ADDITION TO GCC:

- i) Clause no. 60.2 (e) of GCC has been extended to the following extent:-
In case of range of variation up to inclusive of range of +50% & -25% no increase and' or decrease shall be applicable in Schedule of Rates.
- ii) **Abnormally High Rated Item (AHR)**
In items rate contract where the quoted rates for the item, exceed 50% of the owners estimated rates, such items will be considered as Abnormally High Rates Items (AHR) and payment of AHR items beyond the BOQ stipulated quantities shall be made at the least of the following rates :-
 1. Rates as per BOQ, quoted by the Contractor.
 2. Rate of the item, which shall be delivered as follows :
 - a) Based on rate of machine and labour as available from the contract (which is including 15% cover towards contractor's profit overhead and other expenses).
 - b) Based on prevailing market rate of machine materials and labour plus 15% to cover contractor's profit, overhead and other expenses, when the rates are not available in the contracts.
- iii) Notwithstanding the provisions contained in Clause (ii) above, MNGL would have the right to negotiate all such AHR items before the award of the work.

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.</p> <p>Bid No.: MNGL/CP/2024-25/176</p>
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15.0 THIS BEING “NO DEVIATION” TENDER, NO DEVIATIONS/ STIPULATIONS SHALL BE ENTERTAINED. OFFERS CONTAINING ANY DEVIATIONS SHALL BE LIABLE FOR REJECTION.

16.0 BONUS CLAUSE


As detailed in Annexure-1 - Not Applicable for this tender.

17.0 EXTENDED STAY COMPENSATION - Not Applicable

18.0 OCTROI / LBT & INSURANCE FOR FREE ISSUE MATERIAL


Octroi / LBT for all free issue materials as applicable shall be paid by MNGL.

Refer clause 16 of 3(a) of SCC (Technical) i.e. “Particular Job Specification for mainline, mechanical and associated works”

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ANNEXURE-I TO SCC (Commercial) BONUS FOR EARLY COMPLETION

NOT APPLICABLE FOR THIS TENDER

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PART – F

SCHEDULE OF RATES FOR

TENDER FOR LAYING AND CONSTRUCTION OF U/G STEEL PIPELINE & ASSOCIATED WORKS FROM HAROHALLI TO THE BAMUL PLANT IN THE RAMANAGARA GA.

Schedule of Rates (SOR) is enclosed on e-tendering portal.

Evaluation Formula: Evaluation shall be done as per Clause No. 4.0 of Annexure – I to IFB.

BOQ	Sections	Stretch Details	Quoted / Not Quoted
BOQ	Section-1	Ms Harohalli To Near Sri Chamundeshwari Temple, Chathra	
BOQ	Section-2	Near Sri Chamundeshwari Temple, Chathra To Bamul Plant, Kanakapura	

Note: The quantities indicated in SOR against all individual item are tentative and may vary considerably depending upon site condition, methodology adopted as per site requirement with due approval of Owner/ Consultants.

General Note:

1. All SOR item shall be quoted by the bidder in the price part of the bid for the section(s) they have quoted for, other-wise bid will be rejected.
2. All Bidders are requested to refer clause no. 16.0 of Particular Job Specification for Mainline, Mechanical & Associated works before filling the price against each item of above SOR.
3. Prices quoted shall be inclusive of all taxes/duties and nothing extra shall be payable by the owner except for statutory variation in Goods & service tax rate during the contractual period. Bidder shall note that any error in estimating these taxes & Duties (GST) will be to Bidder's Account