



**MAHARASHTRA NATURAL GAS LTD., PUNE
(MNGL)**


CNG & CITY GAS DISTRIBUTION PROJECT

BID DOCUMENT FOR

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

UNDER OPEN DOMESTIC COMPETITIVE BIDDING

Bid Document No. MNGL/CP/2023-24/86 dated 13.09.2023

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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VOLUME-I OF II


SECTION – I

INVITATION FOR BIDS (IFB)

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

1.0 TENDER INFORMATION

Tender Document Number	MNGL/CP/2023-24/86 dated 13.09.2023
ITEM(S)	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.
TYPE OF BID	Open Domestic Competitive Bidding
EARNEST MONEY/ BID SECURITY	Rs. 2,00,000/- (Rupees Two Lakhs Only) in the form of Demand Draft/BG/RTGS/NEFT to be in favour of "Maharashtra Natural Gas Ltd." payable at Pune. Account details for NEFT / RTGS for EMD: Name of the Beneficiary: M/s. Maharashtra Natural Gas Limited Name of the Bank & Address: State Bank of India Branch: Industrial Finance Branch, "Tara Chambers", Pune-Mumbai Road, Wakadewadi, Pune-411003 A/c No.: 35310073625 IFSC Code: SBIN0008966
BID SECURITY VALIDITY	6 (Six) months from the final bid due date
TENDER FEE (Non-refundable)	Not applicable
BID VALIDITY	4 (Four) months from the final bid due date
Bid Submission at	https://etenders.gov.in
Bid submission due date and time	04.10.2023 till 15:00 Hrs. IST
Techno-commercial opening date and time	05.10.2023 at 16:00 Hrs. IST
Pre-bid meeting	20.09.2023 at 11.00 Hrs. IST VC Link: https://meet.google.com/hwq-ckoc-ydc
Price bid opening date and time	Date and time shall be intimated later

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Address for submission of EMD/Bid Security and venue for pre-bid meeting and opening of bids	Chief Manager, C&P Department, Maharashtra Natural Gas Ltd., Pride Purple Coronet, 2 nd Floor, Baner Road, Baner, Pune – 411045
Contact details	Telephone: +91 (20) 25611000 / 1190 / 1105 Email: gasaid@mngl.in / neeraj@mngl.in / akshay.girme@mngl.in

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

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

2.0 BIDDING PROCEDURE

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


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

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

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

3.0 DOWNLOADING OF TENDER DOCUMENT

The tender document is available for downloading from CPPP's e-tendering website <https://etenders.gov.in/eprocure/app> or from e-tender link given on official MNGL website www.mngl.in for viewing / participation of the eligible bidders. Bidders meeting the bid evaluation criteria who intend to submit their bid may download the tender for submission by the bid due date and time.

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Bidder shall give an undertaking on his letterhead that the contents of the bidding document have not been altered or modified. Bid evaluation criteria shall be applicable for all the bidders.

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

4.0 PRE-BID MEETING

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

Non-attendance of the pre-bid meeting will not be a cause for disqualification of a bidder. Corrigendum / addendum, if any, to the tender document, shall be hosted on the website 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 must pin MNGL screen on their computer screens during the pre-bid meeting.

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

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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 Annualize Contract/Delivery Order value
- iv) Delivery Period
- v) Terms of Payment

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- vi) Force Majeure
- vii) Resolution of Dispute/Arbitration
- viii) Termination of Contract,
- ix) Warranty and Guarantee
- x) Offer not submitted for complete scope of work
- xi) Firm prices
- xii) Prices not quoted as per Schedule of Rates formats.
- xiii) Bidder have been put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
- xiv) Bidder is under liquidation.
- xv) Bids not conforming to technical specifications/requirements.
- xvi) Any other such provisions if specifically stipulated elsewhere in the Bid Document.
- xvii) Price Reduction Schedule.

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


“THIS IS NOT AN ORDER”

Yours faithfully,
For, Maharashtra Natural Gas Limited, Pune

Ganesh Said
Chief Manager (C&P)

Note:

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

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ANNEXURE-I to IFB

BIDDER'S ELIGIBILITY CRITERIA

1.0 Name of the Work:

This tender deals with hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

2.0 Bidders Eligibility Criteria (BEC):

Keeping in view hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL and ordering to an agency at an overall L-1 basis for each GA separately, the following BEC is proposed:


A) TECHNICAL:

- A.1 Bidder should have successfully executed similar DGPS Survey Work having order value(s) as mentioned under for survey & mapping for Oil & Gas industries / CGD (City Gas Distribution) / Cross Country Pipeline / Utilities Network in preceding 5 years reckoned from the final bid due date:

Geographical Area (GAs)	Eligibility Criteria
Pune	Minimum Rs. 22.50 Lakhs in a Single Work Order
Nanded	Minimum Rs. 12.75 Lakhs in a Single Work Order
Nizamabad	Minimum Rs. 15.75 Lakhs in a Single Work Order

- A.2 Bidder should have executed DGPS Survey for the collection of Ground Control Points for minimum quantity as mentioned under for the Geo-Referencing activity of High-Resolution Satellite Images / Topographic Map in single work order in last Five (05) Years reckoned from the final bid due date:

Geographical Area (GAs)	Eligibility Criteria
Pune	Not applicable
Nanded	Minimum 38 Nos. in a Single Work Order
Nizamabad	Minimum 38 Nos. in a Single Work Order

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- A.3 Bidder should have successfully carried out Pipeline Survey using DGPS Survey Method having minimum quantity as mentioned under for survey & mapping for Oil & Gas industries / CGD (City Gas Distribution) / Cross Country Pipeline / Utilities Network in a single order in last 5 years reckoned from the final bid due date:

Geographical Area (GAs)	Eligibility Criteria
Pune	Minimum 442 Kms in a Single Work Order
Nanded	Minimum 143 Kms in a Single Work Order
Nizamabad	Minimum 175 Kms in a Single Work Order

Note: In case of bidders quotes for more than one Geographical Area (GA), the requirement of eligibility criteria shall be on a cumulative basis.

In support of this bidder must submit a copy of the Work Order / Letter of Award / Letter of acceptance and its completion certificate issued by the Client.

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

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. 2020-21, 2021-22 & 2022-23:

Geographical Area (GAs)	Minimum Annual Turnover requirement
Pune	Rs. 22.50 Lakhs
Nanded	Rs. 12.75 Lakhs
Nizamabad	Rs. 15.75 Lakhs

B.2 Net Worth:

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

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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 2022-23:

Geographical Area (GAs)	Minimum Working Capital requirement
Pune	Rs. 4.50 Lakhs
Nanded	Rs. 2.55 Lakhs
Nizamabad	Rs. 3.15 Lakhs

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

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


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

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

3.0 Evaluation and Award of Contract:

Evaluation shall be done on an overall least cost basis for each Geographical Area (GA) separately & order shall be placed on L-1 bidder for each Geographical Area (GA) separately.

In case of tie for L-1 bidder, the order shall be placed on the bidder having highest turnover during the preceding 03 (Three) Financial Years i.e. 2020-21, 2021-22 & 2022-23.

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SECTION – II


INSTRUCTIONS TO BIDDERS

INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement (CPP) Portal i.e. <http://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 II or Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY /nCode/eMudra or any Certifying Authority recognized by CCA India on eToken/ Smartcard.
- (v) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.
- (vi) Only one valid DSC should be registered by a bidder. Bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse and should ensure safety of the same.
- (vii) Bidders can then log into the site through the secured login by entering their user ID/ password and the password of the DSC/ eToken.

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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 consider corrigendum if any published before submitting their bids.

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

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


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document.

- (v) Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, EPF & other details etc., under "My Space/ Other Important Document" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.

SUBMISSION OF BIDS:

- (i) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e., on or before the bid submission time. Bidder will be responsible for any delay.
- (ii) Bidder should prepare the EMD as per the instructions specified in the NIT/ tender document. The details of the DD/BG/others physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- (iii) While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accepts the same in order to proceed further to submit their bid.
- (iv) Bidders shall select the payment option as offline to pay the EMD and enter details of the DD/BG/others.
- (v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.
- (vi) Bidders shall note that the very act of using DSC for downloading the tender document and uploading their offers is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.
- (vii) Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. For the file size of less than 1 MB, the transaction uploading time will be very fast.
- (viii) **If price quotes are required in XLS format, utmost care shall be taken for uploading Schedule of quantities & Prices and any change/ modification of the price schedule shall render it unfit for bidding.**


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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, thereafter, save and upload the file in financial bid cover (Price bid) only.

If the template of Schedule of Quantities & Prices file is found to be modified/corrupted in the eventuality by the bidder, the bid will be rejected and further dealt as per provision of clause no 17.0 of ITB including forfeiture of EMD.

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

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

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ASSISTANCE TO BIDDERS:

- (i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.

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

A. GENERAL


1. Scope of Bid:
 - 1.1 The Purchaser as defined in the General Conditions of Contract, hereinafter "the Purchaser" wishes to receive bids for the supply of goods as described in Section-IV, Special Condition of Contract.
 - 1.2 The successful bidder will be expected to complete the Scope of supply within the period stated in IFB.
 - 1.3 Throughout these bidding documents, the terms "bid" and "tender" and their derivatives ("bidder/tenderer", "bid/tendered", "bidding/ tendering", etc.) are synonymous, and day means calendar day. Singular also means plural.
2. Eligible Bidder:
 - 2.1 Bidders shall, as part of their bid, submit a written power of attorney, authorizing the signatory of the bid to bind the bidder.
 - 2.2 This Invitation for Bids is open to any bidder and to pre-qualified bidders in case of limited tender.
 - 2.3 Bidders should not be associated or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
 - 2.4 The bid should be from actual manufacturers. The bids from sole selling agents / authorized distributors/ authorized dealers /authorized supply houses can also be considered, provided such bids are accompanied with back-up authority letter from the concerned manufacturers who authorize them to market their product, provided further such an authority letter is valid at the time of bidding. Offers without back-up authority from manufacturer will not be considered. Required warranty cover of the manufacturers for the product will be provided by such supplier.

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- 2.5 The bidder shall not be under a declaration of ineligibility by Purchaser for corrupt or fraudulent practices as defined in ITB.
- 2.6 While evaluating the bids, pursuant to Bid Evaluation Criteria as specified in IFB, bidders past performance shall also be assessed for ascertaining the responsiveness of the bid. In such a case. the decision of Purchaser shall be final and binding on the bidder.
- 2.7 The bidder is not put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
3. One Bid per Bidder:
 - 3.1 Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid will cause all the proposals in which the bidder has participated to be disqualified. If bid of companies which is managed & controlled by same group of individuals (common owners / proprietor, common partner / common directors), the participation in a particular tender by more than one such bidder will not be allowed, and bids will be disqualified.
 - 3.2 Also, if this fact is known at a later stage during bid evaluation or even after finalization of contract, the award will be made null and void and appropriate action including forfeiting of security deposit in any form and putting the firms on holiday list will be taken.
 - 3.3 Alternative bids are not acceptable.
4. Bidder Eligibility:
 - 4.1 Experience Criteria as per Invitation for Bid (IFB) (Section – I of this Bid Document)
5. Cost of Bidding:
 - 5.1 The bidder shall bear all costs associated with the preparation and submission of the bid, and PURCHASER (MNGL), will in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENT

6. Content of Bidding:
 - 6.1 The bidding documents are those stated below Documents and should be read in conjunction with any addenda issued in accordance with ITB Clause
 - a) IFB, ITB, GCC, ATC
 - b) SCC, MR &TS, SOR, etc.

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

7. Clarification of Bidding Documents:

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


8. Amendment of Bidding Documents:

8.1 At any time prior to the bid due date, the PURCHASER may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents, by issuing addenda.

8.2 Any addendum /corrigendum/ clarifications to bidders query thus issued shall be part of the bidding documents pursuant to ITB Clause- 7.0 and shall be hosted on the on website www.mngl.in and CPPP's e-tendering website before bidding due date. All the prospective bidders who have attended the Pre-Bid meeting/ submitted bid document fee, shall be informed by email/ post about the addendum/ corrigendum/ clarifications to bidders' query for their reference. Bidders desirous to submit its bid must take into consideration of all the addendum(s)/ corrigendum (s)/ clarifications to bidders' query hosted on the above websites before submitting the bid.

8.3 The PURCHASER may, at its discretion, extend the bid due date in order to allow prospective bidders, a reasonable time to furnish their most competitive bid taking into account the amendments issue.

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

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C. PREPARATION OF BIDS

9. Language of Bid:

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

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


10 Documents Comprising the Bids:

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

10.1.1 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 favor 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 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.


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- x) Letter of authority in favor 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, Labor welfare registration under Maharashtra Labor 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.

10.1.2 Financial cover:

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

- 10.2 All the documents submitted shall be duly signed and stamped on each page by the bidder or an authorized signatory of the bidder.
- 10.3 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.
- 10.4 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.
- 10.5 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.
- 10.6 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.
- 10.7 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.

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11. Bid Form & Price Schedule:

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

12. Bid Prices:


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

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


- A) Ex-works Price including packing and forwarding charges (such price to include all costs as well as duties and taxes paid or payable on components and raw materials incorporated or to be incorporated in the goods).
- B) Goods & Service Tax / Turnover (rates) which will be payable on the finished goods, if this contract is awarded.
- C) The bidders shall indicate breakup of the quantum of imports involved for import of necessary raw materials and components giving CIF value of Import in applicable currency considered and included in bid price. Essentiality certificate may be provided by the Purchaser for Project imports, wherever applicable.
- D) The statutory variation in Goods & Service Tax on finished goods covered under Cl. 12.1 B within the contractual delivery period shall be to MNGL's account. However, any increase in the rate of these taxes and duties beyond the contractual completion period shall be to bidder's account and any decrease in rate shall be passed on to MNGL. Further, any statutory variation in the rate of customs duty (except Goods & Service Tax) within contractual delivery period, on the actual CIF value of import content, but subject to maximum of such duty payable on quoted CIF value, under Cl. 12.1 (A) shall also be to MNGL's account. In case of delay in delivery, any increase in the rate of customs duty beyond the contractual completion period shall be to bidder's account and any decrease in rate shall be passed on to MNGL.
- E) The total amount which can be claimed / set off by MNGL for CENVAT (for Goods & Service tax) separately.

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

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

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- 12.5 Fixed Price: Prices quoted by the bidder shall be firm and fixed during the bidder's performance of the contract and not subject to variation on any account except for variations permitted under 12.1 D for domestic bidders. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.
- 12.6 The delivery terms shall be interpreted as per INCOTERMS 2010.
- 13 Bid Currencies:
- 13.1 Bidders shall submit their bids in Indian Rupees only.
- 14 Documents Establishing Bidder's Eligibility and Qualification
- 14.1 Bid Evaluation Criteria:
- 14.1.1 Pursuant to evaluation Criteria specified in Invitation for Bids (IFB) the bidder shall furnish all necessary supporting documentary evidence to establish the bidder's claim of meeting Bid evaluation criteria.
- 14.2 Bidders Eligibility Criteria:
- 14.2.1 The bidder shall furnish, as part of his bid, documents establishing the bidder's eligibility to bid and its qualification to perform the contract if its bid is accepted.
- 14.2.2 The documentary evidence of the bidder's qualifications to perform the contract if his bid is accepted, shall establish to the PURCHASER'S satisfaction:
- that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture (or otherwise, produce, the Bidder has been duly authorized by the goods Manufacturer or producer to supply the goods in the Purchaser country.
 - that the Bidder has the financial, technical and production capacity necessary to perform the contract.
 - that, in case of a Bidder not doing business within the Purchaser's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped and able to carry out the Supplier's maintenance, repair and spare parts stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.
- 14.2.3 The PURCHASER will determine to its satisfaction whether the bidder selected as having submitted the lowest evaluated, responsive bid is qualified to satisfactorily perform the contract. An affirmative determination will be pre-requisite for award of the Contract.

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15 Documents Establishing Goods' Eligibility and Conformity) to Bidding Documents:

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

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

- a) detailed description of the essential technical and performance characteristics of the goods.
- b) a clause-by-clause commentary on the PURCHASER'S Technical specifications demonstrating the goods and services' substantial responsiveness to the specifications.

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

16 Period of Validity of Bids:

16.1 The bid shall remain valid for acceptance for 4 months from the bid due date.


16.2 In exceptional circumstances, prior to expiry of the original bid validity period, the PURCHASER may request that the bidder extend the period of bid validity for a specified additional period. The requests and the responses thereto shall be made in writing (by fax / post e-mail). A bidder may refuse the request without forfeiture of his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of its bid security for the period of the extension and in accordance with ITB Clause 17.0 in all respects.

17 Bid Security:

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

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

17.3 The bid security in Indian Rupees for bidders quoting in Indian Rupees shall be in the form of Demand Draft/ Banker's Cheque in favor of Maharashtra Natural Gas Limited, payable as per IFB (issued by Indian Nationalized

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/Scheduled bank or first-class international bank) or in the form of Bank Guarantee as per format enclosed in the Bidding Document.

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

In case, bid security is in the form of Bank Guarantee, the same shall be from any Indian scheduled bank or a branch of an international bank situated in India and registered with Reserve bank of India as scheduled foreign bank.

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

- 17.4 Any bid not secured in accordance with ITB Clause 17.1 and 17.3 may be rejected by the PURCHASER as non-responsive.
- 17.5 Unsuccessful bidder's bid security will be discharged/returned as promptly as possible after award of contract and signing of agreement.
- 17.6 The successful bidder's bid security will be discharged upon the bidder's accepting the order, pursuant to ITB Clause-41 and furnishing the Contract Performance Guarantee pursuant to ITB Clause-42.
- 17.7 The bid security may be forfeited:
 - a) If a bidder withdraws his bid during the period of bid validity.
 - b) in the case of a successful bidder, if the bidder fails:
 - i) to accept the Purchase Order in accordance with ITB Clause-41 or
 - ii) to furnish Performance Guarantee in accordance with ITB Clause-42
 - iii) to accept correction of errors pursuant to ITB Clause 32.0
 - c) If the Bidder changes the proposed manufacturer after submission of his bid.
- 17.8 Bid Security should be in favor of Maharashtra Natural Gas Limited and addressed to MNGL. Bid Security must indicate the Bid Document number and the item for which the bidder is quoting. This is essential to have proper co-relation at a later date. The Bid Security in the form of Bank Guarantee shall be in the form provided in the Bidding Document.
- 17.9 **The Indian / Domestic firms registered with NSIC/MSME, under its single point registration scheme are exempted from furnishing Bid Security, provided they are registered for the items / work they intend to quote and subject to their enclosing with their bid a copy of latest and current registration certificate.**


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18 Format and Signing of Bid

- 18.1 The bidder shall prepare one original of the document comprising the bid as per clause 10.0 of ITB marked "original".
- 18.2 The original of the bid shall be typed or written in indelible ink and shall be signed by the 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 any catalogues/ literatures shall be signed and sealed by the person or persons signing the bid.
- 18.3 The bid shall contain no alterations, omissions or additions, unless such corrections are initialed by the persons signing the bid.

19 Zero Deviation

- 19.1 Bidders to note that, MNGL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract, Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of supply, technical specifications etc, to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer.
- 19.2 If any deviations are taken to the under mentioned provisions of Bid Documents by the Bidder the bid is liable to be rejected: -
- i) Do not meet BEC Criteria
 - ii) Bid Security
 - iii) Performance Security (Contract Performance Bank Guarantee), 10% of Annualize Order value
 - iv) Delivery Period
 - v) Terms of Payment
 - vi) Force Majeure
 - vii) Resolution of Dispute/Arbitration
 - viii) Termination of Contract,
 - ix) Warranty and Guarantee
 - x) Offer not submitted for complete scope of work
 - xi) Firm prices
 - xii) Prices not quoted as per Schedule of Rates formats.
 - xiii) Bidder have been put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
 - xiv) Bidders is under liquidation.
 - xv) Bidder is under litigation which owners considers a disqualification.
 - xvi) Bids not conforming to technical specification/requirements.
 - xvii) Any other such provisions if specifically stipulated elsewhere in the Bid Document.
 - xviii) Price Reduction Schedule.

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

20 Mode of Payment:

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

21 Agent/ consultant/ Representative/ Retainer/ Associate – Not applicable

D. SUBMISSION OF BIDS:

22.0 PREPARATION OF BIDS:

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

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

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

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


23.0 DEADLINE FOR SUBMISSION OF BID:

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

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

24.0 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.

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25.0 MODIFICATION AND WITHDRAWAL OF BIDS:

- 25.1 The bidder may modify or withdraw its bid after the bid submission, but, before the due date of submission as per provisions provided on the e-tendering portal. After the bid due date & time however, no modifications whatsoever are allowed in the bid.
- 25.2 No bid shall be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid form. In case of request in written by the authorized signatory for withdrawal of a bid during this interval, the Bidder's bid security shall be forfeited.
- 25.3 Upon selecting "withdraw" option on the e-tender portal and providing the reason for withdrawal, the portal will not allow the bidder to re-submit his bid. MNGL shall not be responsible if the bidder is not able to re-submit his bid after withdrawal.

E. OPENING AND EVALUATION OF BIDS

26. Bid Opening:

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

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28 Contacting the Purchaser:

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

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

29 Preliminary Examination of Bids:

29.1 Technical-Commercial Bid Evaluation

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


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

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

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

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

- (a) Overall completeness and compliance with the Technical Specifications; quality function and operation of the process control concept included in the bid. The bid that does not meet minimum acceptable standard of completeness, consistency and detail will be rejected as non-responsive.
- (b) Any other relevant factor, if any that the Purchaser deems necessary or prudent to be taken into consideration.

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

30.0 OPENING OF PRICE BID:

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

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

31 Arithmetic Corrections:

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

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

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

32 Conversion to Single Currency [Applicable in ICB tenders only]:

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

33 Evaluation and Comparison of Bids:


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

33.2 Bid Evaluation and Comparison Criteria:
The evaluation of all the responsive bids for supplies to be arrived at the lowest evaluated offer as under:

(A) Domestic Bidders:

The evaluated price of domestic bidders shall include the following:

- i) The prices quoted by Domestic Bidder for the scope of work defined in the tender documents will include customs duty plus

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- Goods & Service Tax and any additional duty, if any, Goods & Service Tax as applicable which shall be indicated separately
 - ii) Price quoted by the domestic bidders shall include all costs towards Insurance, all type of handling, transportation, etc. as applicable and payable by the CONTRACTOR under the contract
 - iii) Goods & Service Tax on the finished goods.

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

- i) Total value on FOT site basis including liability towards customs duty, GST, all other taxes & duties, levies, transportation, all insurance and all other costs as applicable up to Final Acceptance of work complete in all respects covered under para-A above.
- ii) Cost of mandatory spares, if any.
- iii) **The total site price quoted shall be compared.**


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

34 Domestic Preference:

34.1 VOID

34.2 PROCUREMENTS 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


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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 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:

1. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company.
2. "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 an order, registration shall not be a relevant consideration during contract execution.

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F. AWARD OF CONTRACT:

35 Post Qualification:

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

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

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

36 Award Criteria:

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

37 PURCHASER's Right to Vary Quantities at Time of Award:


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

38 PURCHASER's Right to Accept Any Bid and to reject Any or All Bids:


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

39 Notification of Award/ Fax of Intent / Purchase Order:


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

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- 39.2 Delivery shall be counted from the date of Delivery Order.
- 39.3 Upon the successful bidder's furnishing of contract performance bank guarantee. Pursuant to ITB Clause-42, the PURCHASER will promptly notify each unsuccessful bidder and will discharge his bid security pursuant of ITB Clause 17.
- 40 Acceptance of Purchase Order:
- 40.1 PURCHASER will issue the Purchase Order to the successful bidder, who, within 07 days of receipt of the same, shall sign all pages and return the acceptance copy to the PURCHASER.
- 41 Performance Guarantee:
- 41.1 Unless mentioned in notification of award /Fax of Intent / Purchase Order within 15 days of the receipt of the Delivery Order from the PURCHASER, the successful bidder shall furnish the performance guarantee in accordance with Clause 12 of General Conditions of Contract in the form provided in the bidding documents. The Bank Guarantee/Letter of Credit towards performance guarantee shall be in the currency of the Contract.
- 41.2 The performance guarantee shall be for an amount equal to 10% of the total annualize value towards faithful performance of the contractual obligations and performance of equipment. This Bank Guarantee/Letter of Credit shall be from any Indian scheduled bank or a branch of an international bank situated in India and registered with Reserve bank of India as scheduled foreign bank. This bank guarantee/letter of Credit shall be valid for a period as-stated in Clause-12 of General Conditions of Contract
- 41.3 Failure of the successful bidder to comply with the requirements of this clause shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
- 42 Income Tax Liability:
- 42.1 The bidder will have to bear all income tax liability, both Corporate as well as for his personnel.
- 43 Corrupt or Fraudulent Practices:
- 43.1 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:

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- 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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SECTION – III

GENERAL CONDITIONS OF CONTRACT (GCC - SERVICES)

1. DEFINITIONS


- 1.1 All the initial capitalised terms used in the Agreement shall have the meaning as described to such terms hereunder:
- 1.2 "Agreement" or "Contract" means the agreement entered into between the Purchaser and the Contractor, including all attachments and appendices thereto and all documents incorporated by reference therein, as modified, reinstated or amended from time to time.
- 1.3 "Completion Schedule" or "Delivery Schedule" means a schedule approved by the Purchaser for completion of all obligations of the Contractor under the Agreement.
- 1.4 "Contract Documents" mean all the documents referred to in the Agreement for discharging the requisite obligations by respective party.
- 1.5 "Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of all its contractual obligations.
- 1.6 "Day", "Month" or "Year" means calendar day, calendar month or calendar year.
- 1.7 "Engineer" means an authorized representative of the Purchaser, if any, to which the Purchaser has entrusted various tasks in relation to the carrying out of his Project and in particular the implementation of the relevant Agreement. The Engineer is fully empowered to represent the Purchaser. For avoidance of doubt, may be an Engineer. In case the Agreement does not specify the intervention by the Engineer, the rights and obligations are exercised and borne by the Purchaser, mutatis mutandis.
- 1.8 "Effective Date" means a date on which Contractor's obligations will commence and thereupon Delivery Schedule and/or Completion Schedule will be drawn up.
- 1.9 "Goods" means all of the equipment, machinery, and/or other materials which the Contractor is required to supply to the Purchaser under the Agreement.
- 1.10 "GCC" means the GENERAL CONDITIONS OF CONTRACT contained in this section.
- 1.11 "Inspector" means any person or outside Agency nominated by Purchaser to inspect equipment, stage wise as well as final, before despatch, at Contractor's works and/or on receipt at Site as per terms of the Agreement.

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- 1.12 "Notification of Award" means date which is earlier of either a Fax of Intent (FOI) or Letter of Intent (LOI) or Service Order (SO) issued to a successful bidder for award of the work pursuant to bidding process.
- 1.13 "Purchaser" /or "Owner" means the organization purchasing the Goods / services, as named in SCC.
- 1.14 "Services" or "Ancillary Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the Contractor covered under the scope of the Agreement.
- 1.15 "Site" or "Purchaser's stores" means the place or places named in tender document.
- 1.16 "SCC" means the SPECIAL CONDITIONS OF CONTRACT forming a part of the Contract Documents.
- 1.17 "Supplier" or "Seller" or "Contractor" means the individual person or firm or body corporate supplying the Goods and Ancillary Services under the Agreement.
- 1.18 "Bid" or "Tender" shall have the same meaning.

2. INTERPRETATION OF CONTRACT DOCUMENT

- 2.1 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.
- 2.2 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.
- 2.3 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.
- 2.4 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

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those contained in the standard codes and specifications, these additional requirements shall also be satisfied.

3. CONFIDENTIALITY

- 3.1 The Contractor cannot, without agreement of the Purchaser, disclose nor enable third parties to benefit from the documents drawn up in the course of his obligations under the Agreement or information received from the Purchaser / Engineer/ Inspector.
- 3.2 Further, Contractor is not allowed to publish copy or transmit to third parties the documents that are transmitted to him by Purchaser / Engineer/ Inspector. The Purchaser/ retain the right to claim damages from the Contractor in the case where these documents have been used without such written consent.
- 3.3 However, these obligations do not apply to documents for which it can be demonstrated that:
 - such documents were already public before these were communicated to the other party, or have become public since without any fault or negligence of the party concerned, or
 - such documents were already in its possession without having obtained them directly or indirectly from the other party, or
 - such documents were obtained from an independent source that had neither direct nor indirect secrecy commitment to the other party.
- 3.4 Regarding the application of this clause, the experts appointed by the Purchaser / Engineer are not considered as third parties, and for this reason they have to respect, towards the Contractor, the same obligations as the Purchaser in these matters.
- 3.5 Any document, other than the Agreement itself, enumerated in GCC shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Contractor's obligations under the Agreement, if so required by the Purchaser.

4. CONTRACT PERFORMANCE BANK GUARANTEE

- 4.1 The amount of Contract Performance Bank Guarantee shall be 10% of the annualized total value. Contract Performance Bank Guarantee shall be submitted within Fifteen (15) days from date of issue of "Fax of Intent"/Contract / Service Order.
- 4.2 The Contract Performance Bank Guarantee will initially be kept valid for 90 days beyond the validity of contract and will be discharged not later than six months from the date of expiration of contract and Contractor's entire obligations including warrantee obligations under the contract.

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- 4.3 In the event that completion of work is delayed beyond the scheduled completion date for any reason whatsoever, the contractor shall have the validity of the Contract Performance Bank Guarantee suitably extended to cover the period of delay.
- 4.4 The proceeds of the Contract Performance Bank Guarantee shall be payable to the Purchaser as compensation for any loss or damage resulting from the Contractor's failure to complete its obligations under the Agreement.
- 4.5 The Contract Performance Bank Guarantee shall be denominated in the same currency of the Agreement and shall be in one of the following forms:
- 4.6 A bank guarantee issued by a scheduled/ nationalized bank is acceptable to the Purchaser, in the form provided in the bid documents. The Contract Performance Bank Guarantee will be discharged by the Purchaser and returned to the Contractor not later than One hundred eighty (180) days following the date of completion of all the Contractor's performance obligations under the Contract, including any warranty obligations.

5. PRICES

- 5.1 Prices charged by the Contractor for all Services performed under the Agreement shall be on firm price basis and not vary from the prices quoted by the Contractor in its bid, with the exception of any price adjustments authorized as per tender document.

6. TAXES, DUTIES, ETC.

- 6.1 The Contractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes, duties, etc. now or hereafter imposed, increased, 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 with all applicable Central, State, Municipal and local laws and regulations and requirement of any Central, State or local Government agency or authority.
- 6.2 Contractor further agrees to defend, indemnify and hold Purchaser 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 Purchaser arising under, growing out of or by reason of the work provided for by this Contract, by third parties, or by Central or State Government authority or any administrative sub-division thereof.

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

7. STATUTORY VARIATION

- 7.1 All statutory variations, change in law or imposition of any new taxes/ duties/ levies by any Central Government/ State Government/ Civil Agencies shall be to Contractor's account except for statutory variations in Goods & Service Tax, which shall be reimbursed by Purchaser against documentary evidence submitted by the Contractor.

8. PAYMENT


- 8.1 Contractor shall submit his monthly bills to the respective Engineer-In-Charge of Owner, attaching all the required documentary proof confirming there upon that all statutory obligations as per rules are being observed. Un-disputed payment shall be made to the contractor through Finance Department against Bills, duly certified by respective Owner's Engineer-In-Charge within 15 (Fifteen) days, if found in order. No interest shall be paid in case of delay in payments.
- 8.2 Payment shall be released after applicable tax deductions at source as per rules & acts enforced during the tenancy of the contract.

9. SUBCONTRACTING

- 9.1 Not Applicable

10. DELAYS IN THE CONTRACTOR'S PERFORMANCE

- 10.1 Delivery of performance of Services shall be made by the Contractor in accordance with the time schedule prescribed by the Purchaser in the Completion Schedule.
- 10.2 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 PURCHASER at its option by written notice to the CONTRACTOR:
- 10.2.1 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 PURCHASER on that behalf, whereupon the CONTRACTOR shall stop forthwith any of the CONTRACTOR's work then in progress, except such WORK as the PURCHASER may, in writing, require to be done to safeguard any property or WORK, or installations from damage, and the PURCHASER, for its part, may take over the work remaining

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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 PURCHASER for any excess cost occasioned by such work having to be so taken over and completed by the PURCHASER over and above the cost at the rates specified in the schedule of quantities and rate/prices.

10.2.2 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 PURCHASER 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 PURCHASER.


10.3 In such events of above sub-clauses:

10.3.1 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 PURCHASER to recover from the CONTRACTOR the excess cost referred to in the sub-clause aforesaid, the PURCHASER shall also have the right of taking possession and utilising 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.

10.3.2 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 PURCHASER 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 PURCHASER under the terms of the CONTRACT authorised or required to be reserved or retained by the PURCHASER.

10.4 Before determining the CONTRACT provided in the judgement of the PURCHASER, 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 PURCHASER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.

10.5 The PURCHASER shall also have the right to proceed or take action 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

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goes into voluntary liquidation, provided that in the said events it shall not be necessary for the PURCHASER to give any prior notice to the CONTRACTOR.

10.6 Termination of the CONTRACT as provided above shall not prejudice or affect their rights of the PURCHASER which may have accrued upto the date of such termination.

10.7 Except as provided under GCC or for the reasons solely attributable to the Purchaser, a delay by the Contractor in the performance of its delivery obligations shall render the Contractor liable to the imposition of liquidated damages pursuant to GCC, unless an extension of time is agreed upon without the application of liquidated damages.

11 CONTRACTOR REMAINS LIABLE TO PAY COMPENSATION IF ACTION NOT TAKEN UNDER CLAUSE 13.

11.1 In any case in which it 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 any of the powers conferred upon the PURCHASER BY CLAUSE 13 thereof shall have 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 PURCHASER putting in force the power under above sub-clause 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 authorised agent, requiring him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the Contractor's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date, time or place of sale and the certificate of the ENGINEER-IN- 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.

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12. TERMINATION FOR DEFAULT

- 12.1 Save for the cases provided for in Clause, if the Contractor fails to fulfil any of his obligations, the Purchaser reserves the right, after simple summons to comply and without prejudice to any other measures provided for in the Contract Documents, to offset the Contractor's deficiency by substituting Contractor by another third party to the Contractor for the purpose of carrying out those obligations, at the Contractor's expense, risk and peril, or to terminate the Agreement without prejudice to the Purchaser's rights of receiving reparation for the resulting damage.
- a. The Purchaser may terminate the Agreement when the Contractor's situation at any time after Notification of the Award is found to have become so precarious that there is every indication that he will not be able to fulfil his obligations. Such indications may be, for example, the Contractor's filing for bankruptcy or composition, or going into receivership or liquidation, or any similar procedures under applicable legislation.

13. CHANGE IN CONSTITUTION


- 13.1 Where the CONTRACTOR is a partnership firm, the prior approval of the PURCHASER 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 0 hereof and the same action may be taken and the same consequence shall ensure as provided in the said clause.

14. MEMBERS OF THE PURCHASER NOT INDIVIDUALLY LIABLE

- 14.1 No Director, or official or employee of the PURCHASER/ shall in any way be personally bound or liable for the acts or obligations of the PURCHASER 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.

15. CONTRACTOR TO INDEMNIFY THE PURCHASER

- 15.1 The contractor shall indemnify the Purchaser and every member, officer and employee of the Purchaser, also Engineer-In-Charge and his staff against all action, proceedings, claims, demands, costs and expenses whatsoever arising out of all action, proceedings, claims, demands, costs and expenses which may be made against the Purchaser for or in respect of or arising out of

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any failure by the contractor in the performance of his obligations under the contract. The Purchaser shall not be liable for or in respect of consequence of any accident or injury to any workmen or other person in the employment of the contractor or his sub-contractor and contractor shall indemnify and keep the Purchaser indemnified against all such damages and compensations and against all claims, proceedings, claims, demands, costs and expenses whatsoever in respect thereof or in relation thereof.

If any action is brought before a Court, Tribunal or any other Authority against the Purchaser or an officer or agent of the PURCHASER, 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, Contractors or employees, the CONTRACTOR, shall in such cases indemnify and keep the PURCHASER and/or their representatives harmless from all losses, damages, expenses or decrees arising out of such action.

If Purchaser have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the Purchaser 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 Purchaser to make such payments notwithstanding the same may have been made without the consent or authority or in law or otherwise to the contrary.

16. SAFETY REGULATIONS


- 16.1 In respect of all labour, directly or indirectly 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 and abide by all labour laws, fire and statutory regulations and keep the Purchaser indemnified in respect thereof.

17. OTHER AGENCIES AT SITE

- 17.1 The CONTRACTOR shall have to execute the WORK in such place and conditions where other agencies will also be engaged for other works. No claim shall be entertained due to WORK being executed in the above circumstances

18. TERMINATION FOR PURCHASER'S CONVENIENCE

- 18.1 The Purchaser, by written notice sent to the Contractor, may terminate the Agreement, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Contractor under the

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Agreement is terminated, and the date upon which such termination becomes effective.

19. PAYMENT IF THE CONTRACT IS TERMINATED

19.1 If the CONTRACT shall be terminated as per Bid pursuant to Clause no. 18 of GCC, the CONTRACTOR shall be paid by the PURCHASER 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 spent for performing the WORK under the CONTRACT subject to being duly recommended by ENGINEER-IN-CHARGE and approved by PURCHASER for payment, based on documentary evidence of his having incurred such expenses.

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


- a) Any and all completed works. 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.

20. NO WAIVER OF RIGHTS

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

21. SETTLEMENT OF DISPUTES / ARBITRATION CLAUSE

21.1 If any dispute or difference arising between the Parties in respect of or concerning or connected with the interpretation or implementation of this CONTRACT, or otherwise arising out of this CONTRACT, the parties hereto shall promptly and in good faith negotiate with a view to bring out and amicable resolution and settlement.

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- 21.2 In the event, no amicable resolution or settlement is reached within a period of 30 days from the date on which dispute difference arose (in writing), such dispute or difference shall be settled by referring the same to Sole Arbitrator in accordance with the provisions of The Arbitration and Conciliation Act, 1996, or any other statutory modification/amendment thereof.
- 21.3 Maharashtra Natural Gas Limited will nominate three independent persons who can be the Sole Arbitrator and intimate the same to Vendor. The Vendor needs to choose one person from the said nominees as Sole Arbitrator. If Vendor fails to choose the arbitrator within thirty days from receipt of a nomination by Maharashtra Natural Gas Limited, Maharashtra Natural Gas Limited will have right to choose the Sole Arbitrator.
- 21.4 The arbitration proceedings shall be held in Pune and shall be conducted in the English language. The decision of such arbitration shall be binding and conclusive upon the Parties. The Parties to the arbitration shall equally share the costs and expenses of any such arbitration. It is hereby clarified that the Courts at Pune alone shall have jurisdiction to try and entertain any and all suits or other proceedings in respect of, relating to or otherwise arising out of this Contract.

22. LIMITATION OF LIABILITY


- 22.1 Except in cases of wilful negligence or wilful misconduct, and in the case of infringement, the Contractor shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits provided that this exclusion shall not apply to any obligation of the Contractor to pay PRS to the Purchaser and the aggregate liability of the Contractor to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

23. GOVERNING LANGUAGE

- 23.1 The Agreement shall be written in English language unless specified otherwise in the SCC. All correspondence and other documents pertaining to the Agreement which are exchanged by the parties shall be written in the same language. In case, any document/brochure etc. is written in any other language then its English translation shall govern.

24. APPLICABLE LAW

- 24.1 The Contract shall be governed and interpreted in accordance with the applicable laws of India and Courts at Pune shall have exclusive jurisdiction.

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25. NOTICES

- 25.1 Any notice given by one party to the other pursuant to this Agreement shall be sent to the other party in writing by registered mail or facsimile and confirmed in writing to the other party's address specified in the Agreement.
- 25.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

26. INSURANCE


GENERAL:

CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputable insurance companies.

Irrespective of work acceptance the responsibility to always maintain adequate insurance coverage 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.

- i) **EMPLOYEES STATE INSURANCE ACT:**
The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the compliance with all obligations imposed by the Employee State Insurance Act 1948 and the CONTRACTOR further agrees to defend, indemnify and hold PURCHASER 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 PURCHASER 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 Employee's 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, and 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

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payments and the CONTRACTOR shall secure the agreement of the SUB-CONTRACTOR 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 PURCHASER 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:**
Insurance shall be affected for all the CONTRACTOR's employees engaged in the performance of this CONTRACT.


iii) **ACCIDENT OR INJURY TO WORKMEN:**
The PURCHASER shall not be liable for or in respect of any damages or compensation payable as per 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 PURCHASER, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the PURCHASER against all such damages and compensation (save and except and aforesaid) and against all claims, demands, proceeding, costs, charges and expenses, whatsoever in respect or in relation thereto.

iv) **TRANSIT INSURANCE**

Open transit policy of all items to be transported by the CONTRACTOR to the SITE of WORK, shall be taken by the CONTRACTOR and monthly declaration of the materials to be transported or transported to be declared to the insurance agency. This will include the materials to be supplied by the CONTRACTOR to MNGL site and or any free issue materials issued by MNGL, to be transported to site for execution of work. The cost of transit insurance should be borne by the CONTRACTOR and the quoted price shall be inclusive of this cost.

v) **ANY OTHER INSURANCE REQUIRED UNDER LAW OR REGULATIONS OR BY PURCHASER:**

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 PURCHASER. **Service Provider shall also carry and maintain any other insurance which may be required by the PURCHASER.**

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27. DAMAGE TO PROPERTY OR TO ANY PERSON OR ANY THIRD PARTY

- 27.1 CONTRACTOR shall be responsible for making good to the satisfaction of the PURCHASER any loss or any damage to structures and properties belonging to the PURCHASER or being executed or procured or being procured by the PURCHASER or of other agencies within in the premises of all the work of the PURCHASER, if such loss or damage is due to fault and/or the negligence or wilful acts or omission of the CONTRACTOR, his employees, agents, representatives or SUB-CONTRACTORS.
- 27.2 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 PURCHASER or any third party including overhead and underground cables and in the event of any damage resulting to the property of the PURCHASER 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 PURCHASER or ascertained or demanded by the third party shall be borne by the CONTRACTOR. Third party liability risk shall be Rupees One lac for single accident and limited to Rupees Ten lacs.
- 27.3 The CONTRACTOR shall indemnify and keep the PURCHASER harmless of all claims for damages to property other than PURCHASER's property arising under or by reason of this agreement, if such claims result from the fault and/or negligence or wilful acts or omission of the CONTRACTOR, his employees, agents, representative of SUB- CONTRACTOR.

28. DATE OF COMING INTO EFFECT


- 28.1 The date of coming into effect shall be the date of Notification of Award unless otherwise specified in SCC.

29. RIGHT TO GET SERVICES CARRIED OUT THROUGH OTHER AGENCIES

- 29.1 Nothing contained herein shall restrict PURCHASER from accepting similar services from other agencies at its sole discretion and at the risk and cost of the contractor, if the contractor fails to provide the said services any time not up to the satisfaction of Engineer-in-Charge.

30. SUB-LETTING OF CONTRACT

- 30.1 No part of this contract, nor any share or interest therein, in any manner or extent, will be transferred or assigned or sub-let, directly or indirectly, to any person / firm or organisation by the contractor without written consent of Purchaser.


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31. EMPLOYMENT LIABILITY OF CONTRACTOR

- 31.1 The Contractor shall indemnify Purchaser & shall be solely and exclusively responsible for any liability arising due to any difference or dispute between him and his employee / Third Party for the execution of this contract at any time during / after the contract period is over. All workmen engaged by the contractor shall be on his roll and be paid by him and Purchaser shall have no responsibility towards them.
- 31.2 The Contractor shall be directly responsible and indemnify the Purchaser against all charges, claims, dues, etc. arising out of disputes relating to the dues and employment of personnel deployed by him.
- 31.3 The Contractor shall indemnify the Purchaser against all losses or damages caused to it on account of acts of the personnel deployed by the contractor.
- 31.4 The Contractor shall ensure regular and effective supervision of the personnel deployed by him.

32. COMPLIANCE OF LAWS

- 32.1 The contractor deploying contract labour shall obtain license from appropriate licensing authority as per prevailing rules & regulation and as modified from time to time during contract period.
- 32.2 The contractor (which shall include the contracting firm / company) shall be solely liable to obtain and to abide by all necessary licenses from the concerned authorities as provided under the various Labour Laws / legislations including labour license from the competent authority under the Contract Labour ("Regulation & Abolition") Act 1970 and Acts made thereafter.
- 32.3 The Contractor shall also be bound to discharge obligations as provided under various statutory enactments including the Employees Provident Fund and Miscellaneous Provisions Act 1952, ESI Act 1948, Contract Labour ("Regulation & Abolition") Act 1970, Minimum Wages Act 1948, payment of wages Act 1936, Employee's Compensation Act 1923 and other relevant Acts, Rules & Regulations in force from time to time.
- 32.4 The Contractor shall be responsible for necessary contributions towards PF, Family Pension, ESIC or any other statutory payments to Government Agencies as applicable under the laws in respect of the contract and of personnel deployed by the contractor for rendering services to Purchaser and shall deposit the required amount with the concerned statutory authorities on or before due dates. The contractor shall obtain a separate PF number from the concerned Regional Provident Fund Commissioner and submit necessary proof of having deposited the employees as well as the Purchaser's contribution to the Provident Fund. The contractor shall also be responsible


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for payment of any administration / inspection charges thereof, wherever applicable, in respect of personnel deployed by him relating to the work of Purchaser.

- 32.5 The Contractor shall not engage / deploy any person of less than 18 years under this contract, and the person(s) to be deployed should be physically and mentally fit.
- 32.6 The installations where job is to be carried out are live and have hydrocarbon environment. Contractor shall comply with all safety and security rules and regulations and other rules laid down by Purchaser for its operation. Contractor shall follow best Engineering practice and relevant international safety standards. It shall be duty / responsibility of the Contractor to ensure the compliance of fire safety, security and other operational rules and regulations by his personnel. Disregard to these rules by the Contractor's personnel will lead to the termination of the Contract in all respects and shall face penal / legal consequences.
- 32.7 Personnel protective items like safety helmets, safety shoes, hand gloves, eye protection, cotton working overalls / dresses (not synthetic materials) and other required materials for the safety of the contractor's personnel shall be arranged by the contractor himself. However firefighting equipments shall be arranged by Purchaser.
- 32.8 The Contractor shall arrange for life insurance for all his personnel deployed on the job as per the relevant Acts, rules and regulations, etc. In case by virtue of provisions of Employees Compensation Act, 1923 or any other law in force, Purchaser has to pay compensation for a workman employed by the Contractor due to any cause whatsoever, the amount so paid shall be recovered from the dues payable to the Contractor and/or security deposit with Purchaser. General third-party insurance for CNG Station shall be arranged by Purchaser.

33. THE ENGINEER-IN-CHARGE SHALL HAVE POWER TO

- 33.1 Issue the contractor from time to time during the running of the Contract such further instructions as shall be necessary for the purpose of proper and adequate execution of the Contract and the Contractor shall carry out and bound by the same.
- 33.2 During the currency of this Contract, PURCHASER can increase and / or decrease the number of the services required & quantity of work /services shown in from the Schedule of Rates.
- 33.3 Order the Contractor to remove or replace any workmen whom the Purchaser considers incompetent or unsuitable and opinion of the Purchaser representative as to the competence of any workman engaged by the

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contractor shall be final and binding on the Contractor. Key personnel can be deployed at site only after getting approval from the PURCHASER.

34. REPATRIATION AND TERMINATION


- 34.1 PURCHASER shall reserve the right, at any time during the currency of the contract without assigning any reason thereof to terminate it by giving 30 days' notice to contractor, and upon expiry of such notice period the contractor shall vacate the site / office provided to him by Purchaser immediately.
- 34.2 Goods procured by the Contractor, but not utilised till date of termination will be the responsibility of the Contractor and no claim will be entertained by the Purchaser for the same.
- 34.3 Also Purchaser will not be responsible for any cost incurred by the Contractor including but not limited to repatriation of the workers, lease amount deposit for accommodation provided to the workers, etc. In case Purchaser has to incur expenses due to the same, the same shall be recovered from the dues payable to the contractor and / or security deposit held with PURCHASER.

35. INDEMNITY

- 35.1 Contractor shall exclusively be liable for non-compliance of the provisions of any act, laws rules and regulations having bearing over engagement of workers directly or indirectly for execution of Contract and the Contractor hereby undertake to indemnify the Purchaser against all actions, suits, proceedings, claims, damages demand, losses, etc. which may arise under Minimum Wages Act 1948, payment of wages Act 1936, Workmen's Compensation Act 1923, Personnel Injury (Compensation Insurance) Act, ESI Act, Fatal accident Act, Industrial Dispute Act, Shops and Establishment Act, Employees Provident Fund Act, Family Pension and deposit Linked Insurance schemes or any other act or statutes not herein specifically mentioned but having direct or indirect application for the persons engaged under this contract.

36. CONTRACTOR'S SUB-ORDINATE STAFF AND THEIR CONDUCT

- 36.1 Contractor, on or after award of the Contract 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 Contract, 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


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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.

- 36.2 If and whenever any of the Contractor's 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 Purchaser or the Engineer-In-Charge, it is undesirable for administrative or any other reason for such person or persons to be employed in the works, the Contractor, is so directed by the Engineer-In-Charge, shall at once remove such person or persons from employment thereon. Any person or persons so removed from the works shall not again be employed in connection with the Contract without the written permission of the Engineer-In-Charge. Any person so removed from the Contract shall be immediately replaced 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 behaviour 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 neighbourhood and in the event of such employee so trespassing, the Contractor shall be responsible therefore and relieve the Purchaser 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 Purchaser on account of deployment of Contractor's staff etc. or incidental or arising out of the execution of Contract.
- 36.4 The Contractor shall be liable for all acts or omissions on the part of his personnel, staff, foremen and workmen / labour 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.

37. JURISDICTION

- 37.1 The contract shall be governed by and constructed according to the laws in force in **Pune, Maharashtra, India.**

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38. FORCE MAJEURE


- 38.1 In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by it under this agreement, the relative obligation of the party affected by such Force Majeure shall, after notice under this article be suspended for the period during which such cause lasts.
- 38.2 The term Force Majeure as employed herein shall mean act of god, war/hostilities, riot/civil commotion, earthquake, Tsunami, fire, flood, tempest, lightening or other natural disaster, restriction imposed by the government or other statutory bodies, acts and regulations or any of its authorised agencies.
- 38.3 Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within forty-eight (48) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim.
- 38.4 Time for performance of the relative obligation suspended by the Force Majeure shall then stand extended for the period for which such cause lasts.

39. TERMINATION FOR DEFAULT

- 39.1 Save for the cases provided for in Clause, if the Contractor fails to fulfil any of his obligations, the Purchaser reserves the right, after simple summons to comply and without prejudice to any other measures provided for in the Contract Documents, to offset the Contractor's deficiency by substituting Contractor by another third party to the Contractor for the purpose of carrying out those obligations, at the Contractor's expense, risk and peril, or to terminate the Agreement without prejudice to the Purchaser's rights of receiving reparation for the resulting damage.
- 39.2 The Purchaser may terminate the Agreement when the Contractor's situation at any time after Notification of the Award is found to have become so precarious that there is every indication that he will not be able to fulfil his obligations. Such indications may be, for example, the Contractor's filing for bankruptcy or composition, or going into receivership or liquidation, or any similar procedures under applicable legislation.

40. TERMINATION FOR PURCHASER'S CONVENIENCE

- 40.1 The Purchaser, by written notice sent to the Contractor, may terminate the Agreement, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Contractor under the Agreement is terminated, and the date upon which such termination becomes effective.

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41. NOT APPLICABLE

42. NOT APPLICABLE

43. Failure by the contractor to comply with the provisions of the contract:

43.1 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.

43.2 In such events of Clause 43.1(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.

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

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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.


43.3 Before determining the CONTRACT as per Clause 43.1(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.

43.4 The EMPLOYER shall also have the right to proceed or take action as per 43.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favor 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.

43.5 Termination of the CONTRACT as provided for in sub-clause 43.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued up to the date of such termination.

44. Contractor remains liable to pay compensation if action not taken under clause 43:

44.1 In any case in which any of the powers conferred upon the EMPLOYER BY CLAUSE 43.0 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

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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(within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the CONTRACTOR's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date, time or place of sale and the certificate of the ENGINEER-IN-CHARGE as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the CONTRACTOR.

45. Change in constitution:

- 45.1 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.


46. Termination of contract

46(A) TERMINATIONS 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 diseased 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 diseased CONTRACTOR and/or the surviving partners of the CONTRACTOR'S firm liable for any damages for non-completion of CONTRACT.

46(B) TERMINATIONS OF CONTRACT IN CASE OF LIQUIDATION / BANKRUPTCY ETC.

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

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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.

- 46 (C) In case of termination of CONTRACT herein set forth (under clause 43.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by Maharashtra Natural Gas Limited against any type of tender nor their offer will be considered by MNGL against any ongoing tender (s) where contract between MNGL and that particular CONTRACTOR (as a bidder) has not been finalized] for 03 (Three) years from the date of termination by Maharashtra Natural Gas Limited to such CONTRACTOR.

47. ADDITIONS TO GCC:


- i) In case of range of variation up to inclusive of range of +50% & -50% 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 labor 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 labor plus 15% to cover contractors' 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 hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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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

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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BID EVALUATION CRITERIA
{Annexure – I TO Instruction to Bidder (ITB)}

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 in SCC, Scope of work, 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 in SCC, Schedule of Rates, scope of work 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.

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8.0 Bidder will be required to establish up to the satisfaction of Owner that the resources proposed to be deployed as per SCC by the bidder are in conformity with the WORK REQUIREMENT.

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.

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.

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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LIST OF FORMATS
{Annexure – II TO Instruction to Bidder (ITB)}

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-16	: Format for No Claim Certificate


 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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**F-1
BIDDER'S GENERAL INFORMATION**

To,
M/s. Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Raod, 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}
- 1.9 GSTN No (Attach Certificate Copy)


(SIGNATURE OF BIDDER WITH SEAL)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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**F-2
BID FORM**

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

Date:

Dear Sir,

Having examined the Conditions of Contract and Specifications including Addenda Nos. (Insert Numbers) the receipt of which is hereby duly acknowledged, we the undersigned, offer to supply and deliver (Description of Goods and Services) in conformity with the said Drawings, Conditions of Contract and specifications for the same for (as quoted in price bid) or such other sums as may be ascertained in accordance with the Schedule of Prices.

We undertake, if our bid is accepted, complete delivery of as agreed and specified in the IFB document. If our bid is accepted, we will obtain the guarantee of a Bank in a sum not exceeding (10%) of the Contract price for the due performance of the Contract.

We agree to abide by this bid for a period of 4(four) months from the date fixed for bid opening under Instructions to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We have enclosed Bid Security in the form of Demand Draft/ Bank Guarantee in line with Cl. 17 of ITB for _____ (amount in figure & words) valid for 6(six) months' period as per the requirement of bid document.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof in your notification of award (Fax of Intent) shall constitute a binding Contract between us.

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

Dated this Day of 2023


SEAL AND SIGNATURE

In the capacity of Duly authorized to sign bid for and on behalf of

(SIGNATURE OF WITNESS)

WITNESS NAME:

ADDRESS:

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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**F-3
LIST OF ENCLOSURES**

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


Date:

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. Methodology of execution of work.
6. Execution schedule with interlinking of various activities.
7. 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)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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				

- The information supplied should be the Annual Turnover of the Bidder.
- 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				

- Net Worth = Reserves + Capitals – Accumulated Loss

(SEAL AND SIGNATURE OF BIDDER)

(*) To be filled by Employer

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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,
M/s. Maharashtra Natural Gas Limited
Pride Purple Coronet, 2nd Floor,
Baner Raod, Baner,
Pune – 411045


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

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

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

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

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

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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WITNESS:

(SIGNATURE)
(NAME)

(OFFICIAL ADDRESS)

(SIGNATURE)
(NAME)

Designation with Bank Stamp


Attorney as per

Power of Attorney No. _____

Date: _____

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.

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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**F-5
LETTER OF AUTHORITY
PROFORMA FOR LETTER OF AUTHORITY FOR ATTENDING AND SUBSEQUENT
NEGOTIATIONS/CONFERENCES**

No.:

Date:

To,
M/s. Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Raod, 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 hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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**F-7
CERTIFICATE**


To,
M/s. Maharashtra Natural Gas Limited,
Pride Purple Coronet, 2nd Floor,
Baner Raod, 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)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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)


 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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 hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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 Raod, Baner,
Pune – 411045

Dear Sir,
M/s _____ have been awarded
the _____ work _____ of
_____ for
Maharashtra Natural Gas Limited, PUNE 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.

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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3. Your right to recover the said sum of Rs. _____ (Rupees _____) from us in manner aforesaid will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s _____ and/ or that any dispute or disputes are pending before any officer, tribunal or court.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. This guarantee shall be irrevocable and shall remain valid up to _____. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s _____ on whose behalf this guarantee is issued.
6. The Bank Guarantee's payment of an amount is payable on demand and in any case within 48 hours of the presentation of the letter of invocation of Bank Guarantee. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the jurisdiction of Pune or High Court of Mumbai.
7. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney dated _____ granted to him by the Bank.

Yours faithfully,

_____ Bank


By its Constituted
Attorney

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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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INSTRUCTIONS FOR FURNISHING PERFORMANCE BANK GUARANTEE (PBG)

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

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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F-16

Format for No Claim Certificate
[On the Letterhead 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:

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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(To be given on Company Letter Head)

FORMAT FOR TENDER ACCEPTANCE LETTER

Date:

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

Sub.: Acceptance of Terms & Conditions of Tender without any deviation.


Tender Reference No.:

Name of Tender / Work:

Dear Sir / Madam,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____ as per your advertisement, given in the above-mentioned website(s).
2. I/ We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been put on Black / Holiday list by MNGL / MoP&NG / Oil Public Sector Enterprise(s).
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason thereof summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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(To be given on Company Letter Head)

UNDERTAKING OF LAND-BORDER ON LETTERHEAD

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

Sub.:

Tender No.:

Dear Sir,

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

- (i) Not from such a country [☒]
- (ii) If from such a country, has been registered [☐]
With the Competent Authority.

(Evidence of valid registration by the
Competent Authority shall be attached)


(Bidder to tick appropriate option above)

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


Place:
Date:

{Signature of Authorised Signatory of Bidder}

Name:
Designation:
Seal:

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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COMMERCIAL QUESTIONNAIRE
{Annexure – III to Instruction to Bidder (ITB)}


 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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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 supersede 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) months from the last date of submission of Bid.	
2.	Confirm that all details in unpriced part have been submitted in 1 Original. Bidding Document and drawings, signed and stamped on each page shall be submitted in original.	
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).	
4.	Confirm that price has been submitted on e-portal including all the taxes & duties which is applicable.	
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	Contract Performance Security	
ii	Schedule of Rates	

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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iii	Arbitration	
iv	Termination	
v	Terms of Payment – as per tender document	
vi	Price Reduction Schedule	
12.	Confirm your acceptance for 'Time Schedule' as mentioned in Bidding Document.	
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 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.	
	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.	

(STAMP & SIGNATURE OF BIDDER)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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CHECK LIST

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

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.

(A) **EMD/ BG DETAILS ETC.**

(A.1) Letter of Submission (i.e. F-2: Bid Form)
Submitted ☐

(A.2) EMD/ BID GUARANTEE/ BID SECURITY

Bidder to confirm that EMD/
Bid Guarantee/ Bid Security has
Been submitted by them as
per Tender Proforma (i.e. F4)
Submitted

☐

(1) By Bank Guarantee
BG No. _____ dt. _____ from
Bank _____ Branch _____
For Rs. _____
Valid Till _____

OR


(2) By Demand Draft
DD No. _____ dt. _____
Drawn on _____
For Rs. _____
Original shall be submitted in original copy and its zerox copy in other
copies.

(A.3) CHECK LIST
This check list duly filled in
Submitted ☐

(B) **CONFIRMATION OF VARIOUS FORMATS**

(B.1) Past Similar work done during
five years as per Format: F-8

Submitted ☐

 <p>MAHARASHTRA NATURAL GAS LIMITED</p>	<p>Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.</p> <p>Bid No. MNGL/CP/2023-24/86</p>
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(B.2) Present Commitments as per Format: F-9

Submitted

☐

(B.3) Financial Details as per Format: F-3A

Submitted

☐

(B.4) Audited Balance Sheet including profit and loss account statement for the last three years

Submitted

☐

Submitted for the years:

- 1) _____
- 2) _____
- 3) _____

(B.5) PF Registration Certificate
Submitted

☐

PF Registration No. _____

(B.6) Goods & Service Tax Registration Certificate

Submitted

☐

GST Registration No. _____

(B.7) Power of Attorney in favour of the person who has signed the bid on stamp paper of appropriate value

Submitted

☐

(B.8) Partnership Deed in case of partnership firm and Article of Association in case of limited company

Submitted

☐

(B.9) A Tentative Quality Assurance Plan in line with Spec. and Format:


Submitted

☐

(B.10) A copy of SOR (without prices) duly signed, & Stamped as per SOR Format

Submitted

☐

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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(C) **DEVIATION (IF ANY)**

(C.1) Deviation (if any)
as per Format - F-6:

Submitted

☐

(C.2) Reply to commercial questionnaire,
technical questionnaire with Bidder's
reply/ confirmation for each as per
Format Annexure – III to ITB

Submitted

☐

(D) **REGARDING TECHNICAL DETAILS**

(D.1) Technical Details/ Documents specified
in Technical Part

Submitted

☐

Not Applicable

☐

(E) **CONFIRM THE FOLLOWING REGARDING OVERALL BID DOCUMENT**

(E.1) All pages of the bid have been page
numbered in sequential manner

YES

☐

(E.2) The bid has been submitted in requisite
number of copies as specified in
Instructions to Bidders

YES

☐

(E.3) Original copy of Bidding Document &
Drawings along with Addendum, if any,
has been submitted along with offer,
duly signed and stamped on each page

YES


☐

(E.4) **Prices in ONE ORIGINAL only**
have been submitted in a separately
sealed envelope with price part

YES

☐


(STAMP & SIGNATURE OF BIDDER)

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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VOLUME-II OF II

C O N T E N T

Sl. No.	Description
SECTION - IV	SCOPE OF WORK
SECTION - V	SCHEDULE OF RATES/ PRICE SCHEDULE

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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SECTION – IV

1 SCOPE OF WORK (SoW):


Scope of work of this project shall include but shall not be limited to the following. The work described herein shall be carried for the pipeline asset as per applicable technical specifications enclosed along with the tender documents.

1.1 DGPS SURVEY & MAPPING OF MNGL GA & CA BOUNDARIES OF THROUGH GEO-REFERENCING TECHNIQUES BY SUPPLEMENTING DGPS GROUND CONTROL POINTS.

1.1.1 COLLECTION OF VARIOUS SECONDARY DATA/DRAWINGS/MAPS

Bidder shall collect the following secondary data from respective client/authorities/stockholder.

1. Collection of PNGRB authorized GA & CA Maps from respective GA office.
2. Collection of existing geo-referenced satellite imagery /GIS base maps / land base database from the concerned EIC / AIC.
3. Development plans/Master Plan/CDP showing proposed land use zoning, transport network should be collected from concerned authorities.
4. Available Administrative boundaries of Block/Municipality/Tahsil/Village jurisdiction boundary should be collected from respective authorities/Municipal Corporation.
5. Proposed Network plan for PNG and CNG assets should be collected by the bidder.
6. Maps/ Engineering drawings of utilities like water supply, sewerage, storm water drainage, Power Supply (Over ground and underground) and OFC cable from Municipal department.
7. Existing Pipeline maps, As Built drawing, Pipe book, proposed plan for Steel and MDPE Pipeline and CNG pump station should be collected from concern engineer in Charge, MNGL
8. Collection of population density data along the entire route of the proposed pipeline route as per specification enclosed with the tender document.
9. Soil maps containing soil type, soil quality and other environment data from the concern department.


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DATA VALIDATION AND GAP ANALYSIS

Bidder shall be fully responsible for collection of above-mentioned data. Bidder should conduct QA, QC and quantity check, source, reliability of the collected data. Any abnormality noticed in collected data, Bidder should correct the same at their own risk and cost.

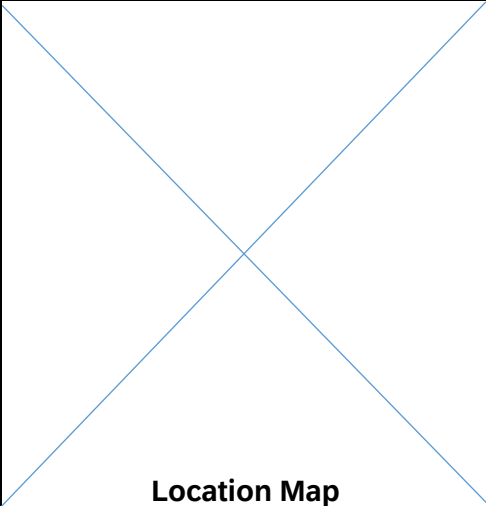
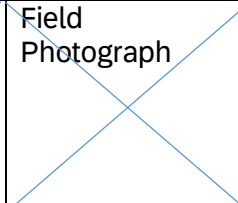
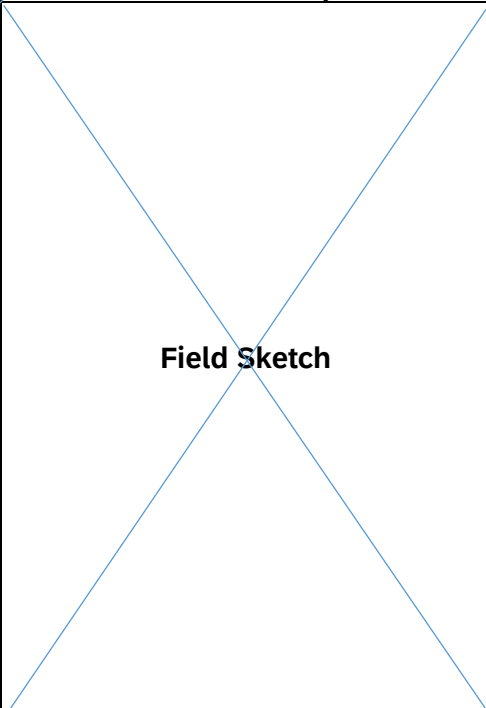
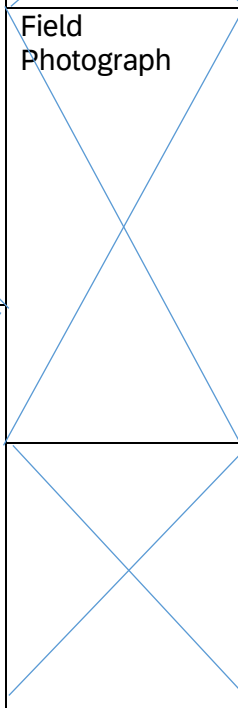
1.1.2 DGPS SURVEY FOR COLLECTION OF GROUND CONTROL POINTS (GCPS)


1. Bidder should carry out DGPS survey using fast static methods to collect Ground Control Points (GCPs). GCPs are surveyed on the common sharp feature on the ground and Raw satellite image scenes.
2. Bidder should collect adequate number GCP. Minimum 1 point per each 5 Sq.km uniformly on the AOI.
3. Bidder should design GRID of 5 KmX5 Km for planning GCPs point. GCPs should plan over the GRIDs / GA Maps and the same shall be submitted to MNGL for the approval before starting control Survey.
4. Suitable locations like Road intersections, Road-River intersection etc. from GA maps should be selected for Control point survey.
5. Base Stations must be planned over permanent features with good sky visibility down to 10 degrees from the horizon to make uninterrupted observation. Bidder should ensure that there should not be any tower, TV towers, high voltage transmission power lines, trees, buildings, sign boards, chain link fences etc. near vicinity of the proposed Base Station location.
6. The control survey shall be carried out with minimum two Geodetic GPS receivers. One of the receivers will be stationed at the base station to make the continuous observation for 8 to 12 hours. The second or Third or Fourth receiver will be kept observing satellites for minimum 30 minutes to 45 minutes on ground subject to following terms and condition.
 - Minimum observation period shall be 30 minutes to 45 minutes for 1-10 km baseline length.
 - Minimum observation period shall be minimum 1 to 1.30 hours for more than 10 km and less than 20 km baseline length.
7. Bidder should maintain a details survey logbook for every GCPs and Base points. As per the following table No. 1.
8. Bidder shall use known control points established by SOI/NRSA for post processing of Ground controls. In case the known points are not available, the field observation data should be post-processed using nearest IGS Station coordinate.

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9. Post Processing shall include baseline processing and network adjustment. Network adjustment map and loop closure analysis results shall be submitted in the Survey report along with the GCP coordinates.
10. Bidder should maintain adequate sets of DGPS machines of higher accuracy to complete the MNGL GIS project in stipulated time frame. All consumables for printing, storing, and creation of backup data CD's/DVDs and alternate consumables etc. of backing up of data to be supplied by the bidder.

Table No – 1 : Field Logbooks for GCP Survey

GCPS ID			Field Photograph
Date /Time			
Projection			
Longitude			
Latitude			
GA Name			
CA Name			
GRID No.			
Surveyor			
Antenna Height			
Tracking Period			
N. of Satellite Tracked			


 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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1.1.2.1 GEO-REFERENCING & MAPPING OF MNGL GA MAPS BY USING DGPS CONTROL POINTS

1. PNGRB authorized Geographical Area (GA) Maps are subject to georeferencing using adequate number of Ground Control Points (GCP). Bidder shall rectify horizontal and vertical distortion of the GA maps within 1-pixel limit by computing RMSE using suitable transformation model preferably 2nd order polynomial.
2. Bidder may also use PNGRB Map coordinates wherever GCPs could not be identified.
3. All the GAs is coming under the Universal Transverse Mercator (UTM), Spheroid WGS 1984 43 Zone. Hence the same should adopted during georeferencing.
4. After computation of RMSE the digital number value should be corrected through Re-sampling process. The Nearest Neighborhood Model should be used to resample the imagery. The maximum RMS error while doing the geo referencing should not exceed 1 pixel.
5. Bidder should geo-reference GA Maps using industry standard GIS/Image Processing software. Necessary image processing techniques must be used to ensure color balancing, histogram equalization in the map.
6. GA and CA boundaries should be digitized from the georeferenced GA maps using GIS software. Bidder should maintain positional accuracy for both GA and CA boundaries while digitizing process.
7. Bidder should deploy highly experienced GIS / Remote Sensing / GIS engineering teams to complete the survey of available front within the given timeline and carry out Survey and Geo-referencing activities.
8. Bidder must submit Geo-referencing report showing GA boundaries with post processed information like metadata, GA, CA areas in Sq.Km, Coordinate Reference System (CRS).
9. Bidder shall submit DGPS Survey Report including control survey parameters and Image Georeferencing accuracy after Georeferencing activities.
10. Bidder should submit geo-referenced GA maps in image format and GA and CA boundary in AutoCAD, Geo-Database (Polygon) as per MNGL data model.

1.1.3 Quality Control and Assurance

Additional (10%) Control Points shall be randomly selected to cross check the GCPs procession and same should be overlaid over the geo-referenced GA maps to check the positional accuracy. Both GCPs and maps will be accepted after the quality verification process.

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SURVEY & MAPPING OF STEEL/MDPE PIPELINE SURVEY AND MAPPING USING DGPS BASED INDUCTION UTILITY DETECTION SURVEY

Pipeline laying activities gets carried out as per the MNGL business requirement. In this process some stretch of pipeline has already been laid which referred as existing P/L and other is Upcoming P/L which are to be laid as per pipeline laying schedule. Hence, Pipeline should be Surveyed and Mapped in two difference scope of work (SoW).

1.2 STEEL PIPELINE SURVEY AND MAPPING USING DGPS BASED INDUCTION UTILITY DETECTION SURVEY – FOR EXISTING P/L AS PER MNGL SCOPE OF WORK.

Bidder should carry out field survey using DGPS based Induction Utility detection survey for detection and mapping of steel pipeline network assets. The scope of activities to be carried out is as follows:


1. Detection of MNGL steel pipeline shall be done using low frequency, high power (with maximum constant current output of 4 Amp) Induction Utility PIPELINE Locators (with integrated GPS) for the depth of the pipeline. This shall be digitized on the map with referenced Geo co-ordinates as per the exact position, depth and turning points like Elbow/Tee (curving) of the pipeline.
2. DGPS Co-ordinate & depth shall be taken at every 10-15 meters' interval of pipeline segment and shall meet accuracy as per the Data acceptance criteria. This shall be cross checked by MNGL team / deputed quality consultant segment wise through digging / verifying for min 25% of the pipeline length as per MNGL. If any accuracy issue, then the bidder has to Re-survey the entire segment without any cost implication to MNGL within time frame.
3. Pipeline position & depth shall also be taken at every turning point, junctions, and at Crossings irrespective of interval as per MNGL instructions. These shall also be taken for Abandoned / dead pipelines.
4. Bidder should carry Hard Copy maps/Drawings prepared out of digital Land base showing permanent features, like building, compound wall, Bridges/culvert/, Nalla, River etc.
5. The vendor shall demarcate the positions of the pipeline on field during detection survey with precise offsets on hard copy maps. Surveyed Maps/Drawings should be submitted to MNGL for data verification.
6. The supply, carrying, use and maintenance of devices / equipment shall be in a vendor Scope.
7. Pipeline marker shall be surveyed along with steel line survey using DGPS with their required attribute information.
8. Bidder should survey all the Gas valves like Sectioned Valves, Isolation Valves, Tap off and Isolation Joints using DGPS Survey.

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9. Gas Station including Mother Station and DRS shall be captured using DGPS Survey.
10. Bidder should capture DGPS points for every corner point of the station boundary.
11. Compressor and Gas Filter shall also be surveyed using DGPS machine to provide higher ground accuracy.
12. Proper connectivity shall be provided between Steel Pipeline and CGD assets (Valves, DRS, Compressor, Dispenser etc.)
13. Bidder should submit the copy of wireless license if required. Permission for survey in the restricted area shall be the responsibility of the bidder and requirement of any other statutory license is in bidder's scope.
14. Bidder should survey the Right of Way (RoW), Road center line, permanent structure along the Pipeline sections such as Compound wall, Culvert, Bridges, Nallah/River Electricity Pole etc. using DGPS methods.
15. Bidder should map the steel pipeline by using Surveyed data and Pipe book. All the Steel line fittings like Elbow, flange, valves, joints etc. should also be updated into the Geodatabase.
16. Bidder should consider the As-Built Drawing and Pipe book for compiling the DGPS Survey data into GIS Database.
17. Bidder should precisely map the Management of Change (MoC) sections like River/Nallah crossing, HDD section, above ground laying section, low depth area etc. during the DGPS Survey.
18. Bidder should update the pipeline data in GIS database and Prepare GIS based drawings showing chainage and asset location as per the MNGL standard Template and Data model given in Annexure-I.
19. Daily Survey Report (DSR) should be submitted every end of the day in the MNGL template showing the length of pipeline surveyed, Section name, Survey date & time etc. The DSR template will be provided to successful bidder at the time of work intimation.
20. MNGL shall conduct the ground survey with referenced to Survey sheets and GIS drawing submitted by bidder for ground verification.

1.2.1 Quality Control and Assurance


Pipeline first checked on the geo-referenced Satellite imagery and GIS Base Map by overlying process. Pipeline sections, Valves like SV, IV and Tap off shall be checked with their nearby landmark by manual measurement. If required Pipeline shall be checked by taking trial pit. It is contractors' scope for taking permission from the concerned authorities and arranging manpower for digging trial pits for quality controlling of Pipeline and its assets.

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1.3 SURVEY & MAPPING OF PIPELINE & ITS ASSETS USING DGPS SURVEY METHODS AT THE TIME OF LAYING – FOR UPCOMING STEEL P/L AS PER MNGL SCOPE OF WORK.

In order to pump of PNG and CNG customer gas supplied through Steel pipeline with high pressure. Since Gas flows at high pressure, it is very much essential to aware about the millimeter accuracy of Pipeline asset's location. Hence, MNGL proposed to conduct the DGPS based survey and mapping of Steel Pipeline at the time of laying activities with following scope of work.

1. Survey bidder should deploy DGPS survey team along with DGPS Machines on site as per instruction received from MNGL EIC for capturing DGPS coordinate along with the pipeline digging activity. MNGL will intimate the survey contractor with laying schedule and Proposed pipeline stretch in form of KML format.
2. Bidder should have adequate number of DGPS machines to capture the ground coordinates & depth of pipeline and assets.
3. Since the survey should be conducted at the time of pipeline laying, Bidder should ensure survey team availability with DGPS machines at the site to capture the Coordinates, Depth and Photographs.
4. Bidder should maintain survey logbooks during the survey and also prepare the sketch drawing for pipeline surveyed.
5. DGPS Co-ordinate & depth shall be taken at every 10-15 meters' interval of pipeline segment and shall meet accuracy as per the Data acceptance criteria. If any accuracy issue, then the bidder has to Re-survey the entire segment without any cost implication to MNGL within time frame.
6. Pipeline position & depth shall also be taken at every turning point, junctions, and at Crossings irrespective of interval as per MNGL instructions. These shall also be taken for Abandoned / dead pipelines.
7. Bidder should carry Hard Copy maps/Drawings prepared out of digital Land base showing permanent features, like building, compound wall, Bridges/culvert/, Nalla, River etc.
8. The vendor shall demarcate the positions of the pipeline on field during detection survey with precise offsets on hard copy maps. Surveyed Maps/Drawings should be submitted to MNGL for data verification.
9. The supply, carrying, use and maintenance of devices / equipment shall be in a vendor Scope.
10. Pipeline marker shall be surveyed along with steel line survey using DGPS with their required attribute information.
11. Bidder should survey all the Gas valves like Sectioned Valves, Isolation Valves, tap off and Isolation Joints using DGPS Survey.
12. Gas Station including Mother Station and DRS shall be captured using DGPS Survey.

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13. Bidder should capture CNG station boundary corner using DGPS survey. Along with boundary corner, Compressor and dispensers shall also be surveyed using DGPS.
14. Proper connectivity shall be provided between Steel Pipeline and CGD assets (Valves, DRS, Compressor, Dispenser etc.)
15. Contractor shall deploy a minimum of adequate number of experienced survey professional along with survey assistances for Steel pipeline survey. Contractor should submit the details of the equipment to be deployed for the work along with bid document.
16. Bidder should prepare as-built drawing using DGPS coordinates as per the MNGL Drawing template. Drawing should be prepared as per the MNGL drawing templates. showing Legend, BOM, Key maps etc. Bidder should submit the drawing in form of AutoCAD, A0 size maps, PDF.
17. All consumables for printing, storing, and creation of backup data CD's/DVDs and alternate consumables of backing up of data to be supplied by the bidder.
18. Bidder should map the steel pipeline by using Surveyed data and Pipe book. All the Steel line fittings like Elbow, flange, valves, joints etc. should also be updated in to the Geodatabase.
19. Daily Survey Report (DSR) should be submitted every end of the day in the MNGL template showing the length of pipeline surveyed, Section name, Survey date & time etc. The DSR template will be provided to successful bidder at the time of work intimation.
20. Bidder should update the pipeline data in GIS database and Prepare GIS based drawings showing chainage and asset location. Bidder should adopt MNGL's standard symbology for preparation of drawing.

1.3.1 Quality Control and Assurance

Pipeline first checked on the geo-referenced Satellite imagery and GIS Base Map by overlying process. MNGL shall conduct the ground survey with referenced to Survey sheets and GIS drawing submitted by bidder for ground verification. Pipeline sections, Valves like SV, IV and Tap off should also be checked with their nearby landmark by manual measurement. If required Pipeline shall be checked by taking trial pit. It is contractors' scope for taking permission from the concerned authorities and arranging manpower for digging trail pits for quality controlling of MDPE Pipeline and its assets.

1.4 DGPS SURVEY AND MAPPING OF MDPE PIPELINE – FOR EXISTING MDPE P/L AS PER MNGL SCOPE OF WORK.


1. MDPE pipeline network should be digitized on the satellite imagery with depth and pipeline assets like Elbow/Tee, coupler, saddle, Tee of the pipeline with the help of as built drawing & physical survey.

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2. Location of gas features should be mapped over the GIS base map maintaining higher accuracy.
3. In case As-Built drawings are not available, Bidder should conduct DGPS survey along the MDPE pipeline to capture the DGPS points of the pipeline, valves, Route Marker, etc.
4. **If required, Low-pressure line should be surveyed using Electronic Total station survey to carry out the pipeline survey up to TF location. It is bidder's responsibility to connect the Total station points with DGPS coordinates for location reference. Hence bidder should capture the DGPS point on SR or nearby to Low pressure pipeline.**
5. **Bidder shall survey the MDPE Network, Valves and other assets using DGPS survey methods. To improve the accuracy bidder should take on the MDPE Pipeline & assets for capturing DGPS points.**
6. **Bidder should also capture the DGPS points of adjacent structure like compound wall, Culvert, Bridges etc. The same should plot in GIS database and offset should be shown with the pipeline assets.**
7. Bidder should run quality check in the entire asset data sets and ensure network connectivity between the assets and network.
8. Route markers shall be surveyed and updated in to the asset's dataset with their required attribute model.
9. Topology must run in the asset dataset to avoid geometric anomalies like under shoot, overshoots, pseudo nodes, dangle, overlapping, duplicates, broken line, invalid objects.
10. Bidder should create Geometric Network in the Asset Data base with connectivity rules to ensure the determinate flow direction with respect to Source (Gas Station/DRS) and Sink (SR/TF)
11. It is bidder's responsibility to integrate asset information with attribute table as per MNGL data model
12. Bidder should align MDPE Network with its assets w.r.t As Built drawings through on-screen digitation process.
13. Bidder should match the dimension, offset, chainage, asset location and measurement as per the As-Built drawings with a accuracy of 0.1 meter from the location mentioned in the drawings
14. Bidder should submit the MDPE network dataset in the form of Geo- Data base as per the MNGL Data Model.
15. MNGL may conduct on ground joint inspection for verification of MDPE and its assets. In case missing feature Bidder should correct the data at its own cost and re-submit to MNGL.


1.4.1 Quality Control and Assurance

Pipeline first checked on the geo-referenced Satellite imagery and GIS Base Map by overlying process. Pipeline sections, valves like SOV, SR, DRS etc. should also be checked with their nearby landmark by manual measurement. If required Pipeline shall be checked by taking trial pit. It is contractors' scope for taking permission from the concerned authorities and arranging manpower for digging trial pits for quality controlling of MDPE Pipeline and its assets.

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1.5 DGPS SURVEY AND MAPPING OF MDPE PIPELINE- FOR UPCOMING MDPE P/L AS PER MNGL SCOPE OF WORK.

1. MDPE pipeline laying is a regular activity that carry out phase wise manner as per the MNGL business requirement. So, the MDPE pipeline laid should be immediately surveyed and mapped into GIS database at the time of laying using DGPS based field survey.
2. Bidder should deploy the Surveyor with DGPS machines on site to conduct DGPS survey to capture the ground coordinates of MDPE Pipeline and its assets at the time of laying.
3. Bidder must capture Coordinates at 10-20-meter interval distance. In case of pipeline bend, Road turning, Road crossing, Nallah and River crossing Bidder may decrease the interval of capturing coordinates to ensure the accurate mapping of pipeline.
4. All the Fitting must be captured using DGPS survey with their attribute's information as per the MNGL Data model.
5. Bidder should maintain survey log sheet capturing the attributes information. Survey log sheet should be prepared and approved by MNGL before the field survey.
6. MDPE pipeline network should be digitized on the satellite imagery with depth and pipeline assets like Elbow/Tee, coupler, saddle, Tee of the pipeline with the help of as built drawing & physical survey.
7. Location of gas features should be mapped over the GIS base map maintaining higher accuracy.
8. Bidder shall survey the MDPE Network and SOVs using DGPS Survey methodologies. Survey Report should be prepared for all the SOV with field photographs.
9. **In case of Low-pressure line, Bidder should use Electronic Total station / DGPS to carry out the pipeline survey up to TF location. It is bidder's responsibility to connect the Total station points with DGPS coordinates for location reference. Hence bidder should capture the DGPS point on SR or nearby to Low pressure pipeline.**
10. Bidder should also survey the DRS, DCS, Service Regulator etc. using DGPS Survey methodologies. Survey Report should be prepared for all MNGL facilities with field photographs.
11. Bidder should be ensuring proper connectivity between steel and MDPE with respect to their Junction assets.
12. In case As-Built drawings are not available, Bidder should conduct route survey along the MDPE network.
13. Bidder should run quality check in the entire asset data sets and ensure network connectivity between the assets and network.
14. Route markers shall be surveyed and updated in to the asset's dataset with their required attribute model.
15. Topology must run in the asset dataset to avoid geometric anomalies like under shoot, overshoots, pseudo nodes, dangle, overlapping, duplicates, broken line, invalid objects.
16. Data to be verified randomly by taking pits for depth of P/L. MNGL engineers shall ensure the correctness through field inspection.

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17. Bidder should create Geometric Network or alternate Datasets in the Asset Data base with connectivity rules to ensure the logical flow direction with respect to Source (Gas Station, DRS, SOV etc.).
18. It is bidder's responsibility to integrate asset information with attribute table as per MNGL data model.
19. Bidder should match the dimension, offset, chainage, asset location and measurement as per the As-Built drawings with a accuracy of 0.1 meter from the location mentioned in the drawings
20. MNGL may conduct on ground joint inspection for verification of MDPE and its assets. In case missing feature Bidder should correct the data at its own cost and re-submit to MNGL.


1.5.1 Quality Control and Assurance

Pipeline first checked on the geo-referenced Satellite imagery and GIS Base Map by overlying process. Each Valves like SOV, SR, DRS etc. should also be checked with their nearby landmark by manual measurement. If required Pipeline shall be checked by taking trial pit. It is contractors' scope for taking permission from the concerned authorities and arranging manpower for digging trial pits for quality controlling of MDPE Pipeline and its assets.


1.6 COMPILATION OF GEODATABASE BY INTEGRATING GIS BASE MAPS LAYERS AND GAS PIPELINE ASSET LAYERS

All the Survey and mapping datasets should be compiled into Geodatabase as they get prepare from different sources. GIS layers will be updated with their positional accuracy and attribute authenticity with respect to their Coordinate System. Bidder shall deploy well experienced qualified engineers for GIS integration process. Since the most the features including Pipeline will be surveyed using DGPS methods, it is bidder's responsibility to ensure the location accuracy of each feature object with respect their spatial position on the Satellite imagery. Bidder shall integrate information of Utilities such as streetlight, Water supply line, Sewage network. Wastewater and Storm Water Drainage etc. with base map. Bidder shall also be responsible to update the GIS attribute information as per the data model mentioned in Appendix III. The following activities shall be carried by selected bidder:

1. All the data of Georeferenced Satellite imagery, Steel & MDPE pipeline network assets and Land base layers should be uploaded into the GIS database by the bidder as per MNGL data model specifications.
2. Data migration shall be done in MNGL premises only and MNGL can provide space, Power supply & network connectivity. Bidder should deploy an experienced GIS Engineer at MNGL GIS Cell for compilation of pipeline data and assets including customer information. Necessary Hardware / software is in vendor scope.

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3. Data migration shall be done as per MNGL recommended w.r.t availability of GIS software tools / modules in complying system business rules.
4. Bidder should ensure all new surveyed features Updation into the Geo Database / GIS base map.
5. Bidder should update secondary data on the Geo Data base and Base Maps. Edge matching and rubber shifting should be done if it requires at the time of Updation.
6. Data mapping will meet system-built business rules, data specifications in all respects for the following.
 - a. Structural level mapping
 - b. Attribute mapping
 - c. Co-ordinate mapping
 - d. Logical level mapping
 - e. Application-level mapping
 - f. Data integrity etc.
7. The vendor shall have an experienced team of ESRI software professionals for implementing data migration tools and data check activities (resource profiles shall be attached for MNGL review)
8. To define all the feature elements involved in Gas network distribution. Vendor shall provide detailed procedures of migration activities & shall meet MNGL's quality constraints.
9. Complete logs shall be provided for each and every feature with all the information that is migrated into the database.
10. Vendor shall maintain data backup & ensure data support during migration. it is responsibility of vender to maintain data backup for all system till the contract period.
11. All consumables for printing, storing, and creation of backup data CD's/DVDs and alternate consumables of backing up of data to be supplied by the bidder.
12. If any mistake is found in the information entered by the contractor in the GIS package within the defect liability period, the same is to be corrected free of cost and the updated version are to be provided to the Owner.
13. It will be the responsibility of the Contractor to ensure & coordinate with software implementation vender for integration and implementation of the system after test run with test data, live run of the system with real data, training to user and installation & commissioning of the system
14. Pipeline should be compiled into GIS database as per the MNGL Data model on top of the Base map.
15. Base Maps containing Buildings, Road would be used for preparation of Pipeline drawings.
16. DGPS Survey / GIS team of Bidder should work MNGL project / laying contractor to update the pipeline attributes and newly registered customer.

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17. Bidder should update the SR Name as per the MNGL customer data sheet. Missing SRs should be surveyed with the help of DGPS and update of SR name as per the customer record as well.
18. Bidder should compile the customer BP no with concerned pipeline assets like TF and distribution points with proper line connectivity.
19. Bidder should ensure 100% connectivity between Pipeline (Both Steel and MDPE) and Assets such as CGS, DRS, CNG Stations, Valve, SR, TF etc. through Geometric Network Model. Connectivity rules should be designed considering field scenario. Bidder Should provide the Geometric Datasets ensuring Determinate flow along the pipeline network assets.
20. Bidder should be responsible for compiling DRS wise pipeline connectivity with their assets. MNGL should approved the database after verification of proper Pipeline connectivity.

All the data surveyed would be checked and validated using custom built routines for its accuracy and logical correctness. The rigorous Quality control process of the bidder would help in achieving accurate feature and bidder must be carried out QC/QA process internally before data submission. On the submission of deliverable, MNGL will carry out field verification on the various layers to check the spatial accuracy and attribute authenticity. Final GIS Maps should be published by overlaying corrected gas pipeline and assets information on standardize scale and templates.


1.6.1 Quality Control and Assurance

Customer Information sheet will be shared with concerned Area-In-Charge (AIC) for verification of information submitted by Agency. Customer Indexing sheet should be submitted in MNGL Approved format, The Survey sheet should be signed and stamped by concerned AIC.

2 QA/QC CHECK TO BE PERFORMED BY SURVEY VENDOR

The objective of this is to capture the additional data and to standardize the existing asset data available in order to bring them into a structured form. The data standardization task ensures data completeness and correctness. The following is a list of the typical issues that can be resolved by the survey vendor before delivering the data for final acceptance to the customer:

1. Data inventory report should be shared along with survey data
2. Data relationship errors and Connectivity errors
3. Completeness, allowed values and proper symbology
4. Orphans, Duplicates, Non-unique values and NULL, blank and zero values
System generated unique number should be maintained for migration

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reference for counting assets volume. (Should be unique across the tables across all regions

5. Include all fields as per final data model with naming conventions mutually agreed
6. All mandatory attributes should have collected from field or filled with default value All field values especially spellings of enumerator values and empty space should be maintained with case sensitivity as per the final data model sheet
7. Field type should be same with precision of decimal values should be maintained as per data-model sheet finalized
8. Field lengths should be as per MNGL data model
9. Data enumerator consistency should be maintained and data should be as per enumerator values mentioned in data model
10. Linkage of attribute values between spatial and non-spatial attribute data should be maintained

3 INPUTS & SUPPORT FROM MNGL


1. All the available maps, as built drawings will be provided to the vendor for reference. However, all the attributes shall be based on actual survey report
2. MNGL will provide RAW PNGRB Authorised GA Maps for respective GA in image or pdf format.
3. MNGL will provide MAP template and Symbology and Data Model for Pipeline Geo-Database Composition and Drawing submission.
4. MNGL will provide pipeline section name with As-Built drawing and pipe book for the commissioned pipeline.
5. MNGL will provide the execution front 4 working days prior to field activity. Contractor should deploy the manpower and execute the job as per schedule without flaw/delay.

4 PENALTY CLAUSE

4.1 Deployment of Survey Manpower:

1. Contractor shall use survey equipment like DGPS preferably GNSS based DGPS Machine compatible with ESRI ArcGIS Collector or equivalent mobile GIS Application, Pipeline locator during project as per recommended in Scope of Work (SOW) to meet the project quality & timelines. The min no of equipment's to be maintained by the contractor region wise is as shown below

Sl. No.	Machine/Equipment	Qty	Remarks
1	DGPS Survey Team	Diploma Degree (Mechanical/Civil/Survey)	Minimum 1 team available on all days for


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		with minimum 5 years of industry experience.	Each GA. The Bidder should increase the deployment in terms of nos of teams to complete the survey of available front informed to him within 24 Hrs.
1	Induction Utility Detector	1 Nos	Minimum 1 for Each GA
2	DGPS Machines	3 Sets	Min. 1 Sets for Each GA
3	Back office staff	Diploma Degree (Mechanical/Civil/Survey) with minimum 2 years of industry experience.	To prepare the DPR and data templates to be sent to MNGL for GIS Integration on within 24 Hrs.

2. In case contractor fails to complete the work/ services within stipulated period then, there will be reduction in contract price @ 1/2% for each week of delay or part thereof subject to maximum of 5% of contract price.
3. Minimum nos of key resources should be deployed during the contract period as per the instruction of MNGL, Engineering-In-Charge.

Sl. No.	Resources	Min. No of Resources to be Maintained	Penalty for absences of facilities/not carrying any work for the day
01	DGPS Surveyor with DGPS Machines – Pipeline Survey	1 Nos for Each GA	5000

If vendor fails to maintain the no. of Instruments as per recommended and it affects project timelines / scheduled targets / Quality aspects, the MNGL may deduct as a penalty of Rs. 5,000/- per week/instrument for unavailability of the same. Bidder should provide the list of equipment to be used along with the bidding document. Bidder should appoint project manager and surveyors who should be present in every project Review meeting. Bidder should deploy DGPS Survey team with desired DGPS Machines in each GA as per the intimation from EIC. The assessment of penalty will be done by AIC /EIC as per actual site condition.

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4.2 Contract Period, Completion Schedule & Penalty in Delay of Survey and Mapping Activities:

Contract period shall be 2 years from the date of Service Order. Letter of Intimation shall be issued by Engineer-in-charge for the works as per the project requirement. Project Should be executed for Each GA separately. Bidder should deploy dedicated Survey Manpower for each GA separately. Project Schedule for completion of work as under from the date of letter of intimation by Engineer-in-charge (EIC).

Activity No	Description	Penalty Applicable in Rs.				Remarks
		Within 7 Days	8 Days - 15 Days	16 Days - 1 Month	Above 1 Month	
Activity No 1	DGPS Survey & Mapping of MNGL GA & CA boundaries of through Geo-Referencing techniques by supplementing DGPS Ground control points.	0	0	0	Rs. 2000 per week.	The deliverables should be supplied to MNGL within 30 Days from the date of intimation by MNGL.
Activity No 2	Steel Pipeline Survey & Mapping using DGPS based Induction Utility detection Survey - For Existing Steel P/L as per MNGL SoW.	0	0	Rs. 300 per meter	Rs. 500 per meter	Inputs will be provided in sections. Contractor to supply all the deliverables as specified in the tender by EIC. The start of the period will be considered from the day on which MNGL has provided the survey schedule on mail. Penalty is applicable on individual deliverable for the sections
Activity	Survey Mapping & of	Rs. 300	Rs. 500	Rs. 750	Rs. 1000	Contractor should deploy the




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No 3	Pipeline & its assets using DGPS survey methods at the time of laying – For Upcoming Steel P/L as per MNGL Scope of work.	per meter	per meter	per meter	per week	manpower and ensure the survey is conducted before backfilling of trench for the section. MNGL will provide the schedule 48 hours before backfilling. Penalty will be calculated from the day of intimation.
Activity No 4	DGPS Survey and Mapping of MDPE Pipeline – For Existing MDPE P/L as per MNGL SoW	0	0	Rs. 300 per meter	Rs. 500 per meter	Inputs will be provided in sections. Contractor to supply all the deliverables as specified in the tender by EIC. The start of the period will be considered from the day on which MNGL has provided the survey schedule on mail. Penalty is applicable on individual deliverable for the sections
Activity No 5	DGPS Survey and Mapping of MDPE Pipeline- For Upcoming MDPE P/L as per MNGL Scope of work.	Rs. 300 per meter	Rs. 500 per meter	Rs. 750 per meter	Rs. 1000 per week	Contractor should deploy the manpower and ensure the survey is conducted before backfilling of trench for the section. MNGL will provide the schedule 48 hours before backfilling. Penalty will be calculated from the day of intimation.


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Activity No 6	Compilation of Geodatabase by integrating of GIS base maps layers and Gas Pipeline (Steel + MDEP) Asset layers Compilation and Integration /Migration of Pipeline and its assets information (Steel and MDPE Pipeline network and assets like valves, DRS, Customers linking, fittings, markers etc.) in to Geo Database with georeferenced satellite images and GIS base maps data as per data model. (Details as per scope of work)	0	0	Rs. 500	Rs. 1000 per week.	Contractor has to submit the deliverable for the survey conducted during first fortnight to MNGL by Date 21st of every month. Survey conducted for 2 nd fortnight, the submission date should be considered as 7 th of following month.
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***The assessment of penalty will be done by AIC / EIC as per actual site condition.**

5 SPECIAL INSTRUCTION TO BIDDER:

1. Traveling, Boarding and lodging for all its personnel deployed for the execution of the work is to be arranged by the bidder.
2. Right of access to MNGL or its representative for audit of the quality and accuracy of work done.
3. The integrity and confidentiality of the MNGL's information assets are to be maintained by the bidder. And successful bidder is required to sign the non-disclosure agreement with MNGL after award of job for maintaining data privacy.
4. Surveyors should all the safety protocol at the time of Survey. All the surveyors should carry STC card issued by MNGL Safety office followed by Safety training prior to any field survey activity.

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5. Contractor shall be responsible for settling all compensation and disputes arising out of any damages caused by him or his workmen during the execution of work.
6. Before publishing the final GIS package, contractor has to present the pre-final package before GIS Administrator and any modification/ Updation suggested by the GIS admin shall be incorporated by the survey agency in the final package.
7. Bidder should update the pipeline data in GIS database and Prepare GIS based drawings showing chainage and asset location as per the MNGL standard Template and Data model given in Annexure-I.
8. Bidder should use latest generation DGPS machines for ESRI field maps, Collection ap integration.
9. Proper network connectivity should be ensured among the pipeline assets before submitting to MNGL.
10. Survey Report should be maintained on daily basis with the geotagged photographs on daily basis. Pipeline section wise survey report should be compiled and submitted upon completion of survey.
11. If any mistake is found in the information entered by the contractor in the GIS database within the defect liability period, the same is to be corrected free of cost and the updated version are to be provided to MNGL.
12. **The Survey Agency / contractor will deploy Survey Engineer with required survey instruments (Laptop, DGPS Machine and Induction Utility detector) at the MNGL office for carrying out DGPS Survey and As-built drawing updation and GIS database compilation activity as per the instruction of Concerned project EIC/AIC during the project period.**
13. **MNGL provide the permission from the concerned authorities for the taking trial pit for the pipeline already charged before DGPS Survey Order date. The contractor should mobilise labour and other survey machines for capturing coordinate and depth by trial pit at permitted location.**
14. **The Survey Agency/Contractor should capture the DGPS Coordinate of pipeline assets for future pipeline at the time of laying.**
15. **In case of Contractor fails to conduct DGPS survey at the time of laying, the claim will be settled as per the SOR for upcoming line. The contractor has to bear all other charges incurred due to noncompliance to the timeline for survey i.e backfilling.**
16. **Absence of DGPS Surveyor at MNGL office should attract penalty as per the Penalty clause.**
17. Demobilisation of surveyor will be done in consultation with the concerned project AIC.
18. The DGPS surveyor should provide details of work progress report on daily/ weekly basis through e-mail. Bidder should present the progress of work at monthly review meeting.


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19. Daily Survey Report (DSR) should be submitted every end of the day in the MNGL template showing the length of pipeline surveyed, Section name, Survey date & time etc. The DSR template will be provided to successful bidder at the time of work intimation.
20. Project Execution Approach: Contractor shall identify and appoint a senior project manager who shall have experience of managing complex projects. Contractor shall also identify and appoint core team, different function team with sufficient experience in their respective fields and communicate the list to MNGL before starting the work.

6 DOCUMENT/DATA SUBMISSION


The data and drawings submitted shall be in approved GIS format. The desired outputs & deliverables under this contract are as shown below:

- a) GA and Maps
 - ✓ Raw GA/CA Maps should be submitted in form of tiff/image format
 - ✓ Geo-Referenced GA/CA maps should be submitted in form of (Image/Tiff/ECW format) with Image Processing Report
- b) Ground Control Point (GCP) Survey
 - ✓ DGPS Survey Report with Digital Photographs and Location sketch
 - ✓ DGPS RAW Data in both machine native and Rinex format
 - ✓ Post Process GCP data in Excel, Shape file and KML format
 - ✓ Baseline Processing Report
- c) Geo-Database
 - ✓ Geo-Database shall be compiled and submitted as per the Data model
 - ✓ All the Layers as per the Data model shall be submitted in both Geo-Database and ESRI Shape file format
 - ✓ Quality Control and Quality Assurance Report
- d) 1 set of hard copy multi-colour plotted shall be provided for field QC activities as Check Prints maps on suitable scale preferably on 1:1000.
- e) Base map & Drawing Submission on required scale preferably on the following scale in form of both Hard copy and Digital format (PDF)
 - ✓ GIS base Map showing Pipeline on 1:1000 Scale – 1 Set
 - ✓ GIS Base Map showing Pipeline on 1:5000 Scale – 1 Set
 - ✓ GIS Base Map showing Pipeline on 1: 10000 scale – 1 Set
 - ✓ Pipeline Map for both MDPE and Steel on suitable scale preferably on 1:500 Scale

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- f) Field Books with Map and Attribute information: Field Notes / Data Creation Reports / formats shall be provided in soft copy or hard copy in a systematic manner
- g) All survey related data(output) should also be submitted in a Shape file complying to Open Geospatial Consortium (OGC) Standards.
- h) Survey Report
 - ✓ Pipeline section wise Survey Report

Note: The data collection would be based on the provided data model template. If further changes in data model are required to complete interface/integration and other necessary business needs then those changes shall be considered upon finalization of requirement and as per agreed solution, which would be arrived upon mutual discussion and consent between MNGL and vendor.

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**Annexure-1
MNGL Data Model**

LAYER_ID	FEATURE NAME	LAYER NAME	SOURCE	GEOMETRY TYPE	FIELD NAME	DATA_TYPE	SIZE
1	GA Boundary	GA	MNGL	Polygon	GA_ID	Text	20
					GA_NAME	Text	50
					GA_AREA	Double	4,2
					REMARKS	Text	100
2	CA Boundary	CA	MNGL	Polygon	CA_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					CA_AREA	Double	4,2
3	Municipal Boundary	Municipal_Boundary	Municipal Corporation	Polygon	REMARKS	Text	100
					MUN_ID	Text	20
					MUN_NAME	Text	50
					DIST_NAME	Text	50
4	Area_Boundary	Area_Boundary	Municipal Development Authority	Polygon	MUN_AREA	Double	4,2
					AREA_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					AREA_NAME	Text	50
					REGION_NAME	Text	50
5	BUILDING	Building	Imagery/Field Survey	Polygon	AREA	Double	4,2
					REMARKS	Text	100
					BLD_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	100
					BLD_TYPE	Text	50
					BLD_Descript	Text	50



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					ion		
					BLD_NAME	Text	30
					BLOCK_NO	Text	20
					ROAD_NAME	Text	50
					AREA_NAME	Text	50
					CITY	Text	50
					PIN	Long Integer	12
					STATE	Text	50
					FLOOR_NO	Integer	4
					DOMESTIC_POTENTIAL	Integer	4
					COMEERCIAL_POENTIAL	Integer	4
					INDUSTRIAL_POTENTIAL	Integer	4
					GASSIFIED_STATUS	Text	30
					MCV1	Integer	4
					MCV2	Integer	4
					NO_OF_METER	Integer	4
					TAPPED_POTENTIAL	Integer	4
					REMARKS	Text	100
6	Customer_Building	Building	Imagery/Field Survey	Point	BLDP_ID	Text	20
					BLD_ID	Text	20
					BP_NO	Text	20
					BLD_NAME	Text	30
					AREA_NAME	Text	50
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					REMARKS	Text	100
7	LANDMARK	Landmark	Field Survey	Point	LM_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20



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					CA_NAME	Text	50
					AREA_NAME	Text	20
					LM_TYPE	Text	20
					LM_NAME	Text	50
					REMARKS	Text	50
8	Compound Wall	Compound Wall	Field Survey	Polygon	CW_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					BLD_NAME	Text	20
					CON_TYPE	Text	20
					REMARKS	Text	100
9	Plot Boundary	Plot_Boundary	Field Survey	Polygon	PLOT_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					RD_NAME	Text	60
					AREA_NAME	Text	50
					CITY_NAME	Text	50
					PLOT_TYPE	Text	20
					PLOT_AREA	Double	8,2
					REMARKS	Text	100
10	Road Network	Road	Imagery/Field Survey	Line	RD_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					RD_NAME	Text	60
					RD_TYPE	Text	2
					RD_WIDTH	Double	4,2
					CON_MAT	Text	255
					MAINT_BY	Text	30
					AREA_NAME	Text	50
					RD_LEN	Double	4,2
					FPAT_STAT	Text	4



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					REMARKS	Text	100
11	Road Edge	Road_Ed ge	Imagery/Field Survey	Line	RDE_ID	Text	20
					RDE_NAME	Text	60
					FP_WIDTH	Doubl e	2,2
					FP_TYPE	Intege r	4
12	Road Divider / Median	Road_Div ider	Imagery/Field Survey	Polygo n	RDD_ID	Text	20
					RD_ID	Text	20
					RD_Name	Text	50
13	Bridges/Flyo ver	Bridges/F lyover	Imagery/Field Survey	Polygo n	BRDG_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					RD_ID	Text	10
					AREA_NAME	Text	50
					BRDG_WIDT H	Doubl e	2,2
					BRDG_TYPE	Intege r	10
14	Railway Track	Railway	Imagery/Field Survey	Line	BRDG LENG TH	Doubl e	4,2
					REMARKS	Text	100
					RW_ID	Text	20
15	Bus Depot	Bus_Dep ot	Field Survey	Polygo n	RW_TYPE	Text	6
					RW_LEN	Doubl e	4,2
					BD_ID	Text	20
					BD_NAME	Text	10
16	Station Boundary	Station_B oundary	Imagery/Field Survey	Polygo n	RD_ID	Text	10
					BD_LOC	Text	15
					STNB_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					TYPE	Text	20
					NAME	Text	50
					STATUS	Text	20



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					SCHEMATIC _DIAGRAM	Text	255
					REMARKS	Text	100
17	PNP_PLANN ING_BOUND ARY	PNP_BO UNDARY	MNGL	Polygo n	PNP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					PNP_NAME	Text	50
					REGION_NA ME	Text	50
					AIC_NAME	Text	30
					EIC_NAME	Text	30
					HOD	Text	30
					AREA	Doubl e	4,2
					REMARKS	Text	100
18	O&M Boundary	ONM_BO UNDARY	MNGL	Polygo n	ONM_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					ONM_NAME	Text	50
					REGION_NA ME	Text	50
					AIC_NAME	Text	30
					EIC_NAME	Text	30
					HOD	Text	30
					AREA	Doubl e	4,2
					REMARKS	Text	50
19	CNG Station	CNG_ST ATION	DGPS Survey	Point	CNG_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					STATION_NA ME	Text	30
					STATUS	Text	20
					STATION_TY PE	Text	20
					BUSINESS_	Text	20



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					MODEL		
					AREA_NAME	Text	100
					LOCATION	Text	50
					ADDRESS	Text	254
					TELEPHONE	Long Integer	10
					DATE_COMMISSIONING	Date	8
					COMPRESSURE_UNIT	Double	10
					COMPRESSING_CAPACITY	Double	10
					DISPENSER_UNIT_BUS	Double	10
					DISPENSER_UNIT_CAR	Double	10
					DISPENSING_CAPACITY	Double	10
					NO_DISPENSER	Integer	8
					NO_LCV_POINT	Integer	8
					CAPACITY_UTILISATION	Double	10
					DEALER_NAME	Text	50
					SCHEMATIC_DIAGRAM	Text	255
					REMARKS	Text	255
20	City Gas Station	CGS	Field Survey	Point	CGS_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					CGS_NAME	Text	50
					CGS_TYPE	Text	20
					STATUS	Text	20
					OWNER	Text	50
					AREA_NAME	Text	100
					LOCATION	Text	50
					IN_SERVICE_DATE	Date	8



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					OPERATING _PRESSURE _IN_BAR	Doubl e	8
					MOP_OUT	Doubl e	8
					SOP_IN	Doubl e	8
					SOP_OUT	Doubl e	8
					PRESSURE_ UNIT	Doubl e	8
					DESIGNCAP ACITY	Text	10
					PRESSURES YSTEMSTAT US	Text	20
					BYPASSINDI CTOR	Text	10
					INSULATEDI NDICATOR	Text	10
					CPSYSTEMS TATUS	Text	20
					EMERISOLAT IONSYSSTAT US	Long Intege r	12
					SCHEMATIC _DIAGRAM	Text	255
					REMARKS	Text	255
21	DRS	DRS	DGPS Survey	Point	DRS_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					DRS_NAME	Text	20
					DRS_STATU S	Text	20
					OWNER	Text	20
					MAKE	Text	20
					MANUFACTU RER	Text	20
					CAPCITY_UN IT	Text	20
					CAPACITY	Long Intege r	12
					IN_SERVICE	Text	20



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					_DATE		
					LAST_MAINT ENANCE_DA TE	Date	8
					CPSYSTEMS TATUS	Long Intege r	12
					MOP_IN	Doubl e	8
					MOP_OUT	Doubl e	8
					SOP_IN	Doubl e	8
					SOP_OUT	Doubl e	8
					PRESSURE_ UNIT	Doubl e	8
					OVER_PRES SURE_PROT ECTION_TYP E	Text	10
					BY_PASS_IN DICATOR	Text	5
					DESIGN_CA PACITY	Text	5
					GAS_PRESS URE_SYSTE M_STATUS	Text	20
					GAS_SYSTE M_STATUS	Text	20
					EMERISOLAT IONSYSSTAT US	Text	20
					SCHEMATIC _DIAGRAM	Text	255
22	DCS	DCS	DGPS Survey	Point	REMARKS	Text	255
					DCS_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					NAME	Text	20
					STATUS	Text	20
					OWNER	Text	20
					MAKE	Text	20



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					MANUFACTURER	Text	20
					CAPACITY_UNIT	Text	20
					CAPACITY	Long Integer	12
					IN_SERVICE_DATE	Text	20
					LAST_MAINTENANCE_DATE	Date	8
					CPSYSTEMS STATUS	Long Integer	12
					MOP_IN	Double	8
					MOP_OUT	Double	8
					SOP_IN	Double	8
					SOP_OUT	Double	8
					PRESSURE_UNIT	Double	8
					OVER_PRESSURE_PROTECTION_TYPE	Text	10
					BY_PASS_INDICATOR	Text	5
					DESIGN_CAPACITY	Text	5
					GAS_PRESSURE_SYSTEM_STATUS	Text	20
					GAS_SYSTEM_STATUS	Text	20
					EMERISOLATIONS STATUS	Text	20
					SCHEMATIC_DIAGRAM	Text	255
					REMARKS	Text	255
23	MRS	MRS	DGPS Survey	Point	MRS_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50



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					CA_ID	Text	20
					CA_NAME	Text	50
					NAME	Text	20
					STATUS	Text	20
					OWNER	Text	20
					MAKE	Text	20
					MANUFACTURER	Text	20
					CAPACITY_UNIT	Text	20
					CAPACITY	Long Integer	12
					IN_SERVICE_DATE	Text	20
					LAST_MAINTENANCE_DATE	Date	8
					CPSYSTEMS STATUS	Long Integer	12
					MOP_IN	Double	8
					MOP_OUT	Double	8
					SOP_IN	Double	8
					SOP_OUT	Double	8
					PRESSURE_UNIT	Double	8
					OVER_PRESSURE_PROTECTION_TYPE	Text	10
					BY_PASS_INDICATOR	Text	5
					DESIGN_CAPACITY	Text	5
					GAS_PRESSURE_SYSTEM_STATUS	Text	20
					GAS_SYSTEM_STATUS	Text	20
					EMERISOLATIONSYSSTAT	Text	20



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					US		
					SCHEMATIC _DIAGRAM	Text	255
					REMARKS	Text	255
24	Commercial Meter	Commere ial_Meter	Survey	Point	CM_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					BP_NO	Text	20
					CM_TYPE	Text	20
					CM_NAME	Text	20
					CM_STATUS	Text	20
					OWNER	Text	20
					MAKE	Text	20
					IN_SERVICE _DATE	Text	20
					LAST_MAINT ENANCE_DA TE	Date	8
					MOP_IN	Doubl e	8
					MOP_OUT	Doubl e	8
					SOP_IN	Doubl e	8
					SOP_OUT	Doubl e	8
					PRESSURE_ UNIT	Doubl e	8
					DESIGN_CA PACITY	Text	5
					GAS_PRESS URE_SYSTE M_STATUS	Text	20
					SCHEMATIC _DIAGRAM	Text	255
					REMARKS	Text	255
	Service Regulator		Field Survey	Point	SR_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50



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25		Service_ Regulator			SR_NAME	Text	30
					SR_TYPE	Text	20
					SR_LOCATION	Text	50
					SR_MAKE	Text	30
					SR_CAPACITY	Integer	8
					CAPACITY_UTILISED	Integer	8
					COMMISSIONING_DATE	Date	8
					MANUFACTURER	Text	20
					MANUFACTURE_DATE	Date	8
					LAST_MAINTENANCE_DATE	Date	8
					NEXT_MAINTENANCE_DATE	Date	8
					MAOP_DESIGN	Double	4,2
					MAOP_RECORD	Double	4,2
					MAOP_TEST	Double	4,2
					MATERIAL	Text	20
					MAX_INLET_PRESSURE	Text	20
					MAX_OUTLET_PRESSURE	Text	20
					OWNED BY	Text	20
					SET_PRESSURE_ENTERED	Text	20
					SET_PRESSURE_STANDARD	Text	20
					REMARKS	Text	100
26	Controllable Fitting	Controllable Fitting	Survey and Mapping	Point	CON_FIT_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20



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					CA_NAME	Text	50
					TYPE	Text	20
					SECTION_ID	Text	20
					MATERIAL	Text	20
					FITTINGDIAMETER	Integer	10
					DIAMETERUNIT	Text	15
					MAKE	Text	10
					OWNER	Text	5
					FITTINGSCHEDULE	Text	10
					INSERVICEDATE	Date	8
					DATEOFREPLACE	Date	8
					NORMALPOSITION	Text	20
					PRESENTPOSITION	Text	20
					GASPRESSURESYSTEMSTATUS	Text	20
					GASSYSTEMSTATUS	Text	20
					INSULATEDINDICATOR	Text	20
					BONDINDICATOR	Text	20
					REMARKS	Text	254
27	Non-Controllable Fittings	Non-Controllable_Fittings	Survey & Mapping	Point	NCON_FIT_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_ID	Text	20
					TYPE	Text	20
					MATERIAL	Text	20
					FITTINGDIAMETER	Text	10
					DIAMETERUNIT	Text	15
					MAKE	Text	10



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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					STYLE	Text	10
					OWNER	Text	10
					FITTINGSCHEDULE	Text	10
					IN_SERVICE_DATE	Date	8
					DATEOFREPLACE	Date	8
					BONDEDINDICATOR	Text	20
					INSULATEDINDICATOR	Text	10
					REMARKS	Text	255
28	Sectionised Valve	Sectionised_Valve	Survey & Mapping	Point	SV_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					VALVE_CH_ID	Text	20
					TYPE	Text	20
					FACILITY_STATUS	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	50
					DEPTH	Double	4,2
					MATERIAL	Text	10
					GRADE	Double	8
					SET_PRESSURE	Double	8
					SCHEDULE	Text	8
					THICKNESS	Text	5
					ACTUATION	Text	8
					CLOSURE	Double	4,2
					POSITION	Text	5
					VALVE_PLACEMENT	Text	8
					INSPECTION_FREQUENCY	Text	10
					SIZE	Text	20



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					DATE_INSTALLATION	Date	10
					INSTALLATION_PROCESS	Text	10
					INSTALLATION_AGENCY	Text	20
					MAKE	Text	15
					BONDEDINDICATOR	Text	8
					GROUNDLEVELINDICATOR	Text	20
					INSULATEDINDICATOR	Text	20
					OPERATINGCLASSIFICATION	Text	20
					CPSYSTEMSTATUS	Long Integer	12
					ANSI_PRESSURE_RATING	Text	20
					NORMAL_POSITION	Text	5
					PRESENT_POSITION	Text	5
					BONDED_INDICATOR	Text	5
					GAS_PRESSURE_SYSTEM_STATUS	Text	5
					GAS_SYSTEM_STATUS	Text	20
					VAL_MAT	Text	10
					VAL_SERIES	Text	10
					ENDCONN	Text	20
					VAL_B_MAT	Text	10
					GASKET_TYPE	Text	10
					SYMBOL_ROTATION	Text	5
					REMARKS	Text	50
					ATTACHMENT	BLOB	100
29	Isolaton	Isolation_	Survey &	Point	IV_ID	Text	20



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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	Valve	Valve	Mapping		GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					VALVE_CH_I D	Text	20
					TYPE	Text	20
					FACILITY_ST ATUS	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	50
					DEPTH	Doubl e	4,2
					MATERIAL	Text	10
					GRADE	Doubl e	8
					SET_PRESS URE	Doubl e	8
					SCHEDULE	Text	8
					THICKNESS	Text	5
					ACTUATION	Text	8
					CLOSURE	Doubl e	4,2
					POSITION	Text	5
					VALVE_PLAC E	Text	8
					INSPECTION _FREQUENC Y	Text	10
					SIZE	Text	20
					DATE_INSTA LLATION	Date	10
					INSTALLATIO N_PROCESS	Text	10
					INSTALLATIO N_AGENCY	Text	20
					MAKE	Text	15
					BONDEDINDI CATOR	Text	8
					GROUNDLEV ELINDICATO R	Text	20
					INSULATEDI NDICATOR	Text	20
					OPERATING	Text	20



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					CLASSIFICATION		
					CPSYSTEMS STATUS	Long Integer	12
					ANSI_PRESSURE_RATING	Text	20
					NORMAL_POSITION	Text	5
					PRESENT_POSITION	Text	5
					BONDED_INDICATOR	Text	5
					GAS_PRESSURE_SYSTEM_STATUS	Text	5
					GAS_SYSTEM_STATUS	Text	20
					VAL_MAT	Text	10
					VAL_SERIES	Text	10
					ENDCONN	Text	20
					VAL_B_MAT	Text	10
					GASKET_TYPE	Text	10
					SYMBOL_ROTATION	Text	5
					REMARKS	Text	50
					ATTACHMENT	BLOB	100
30	Stop Off Valve	SOV	Survey & Mapping	Point	SOV_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					VALVE_CH_ID	Text	20
					TYPE	Text	20
					FACILITY_STATUS	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	50
					DEPTH	Double	4,2
					MATERIAL	Text	10



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					GRADE	Double	8
					SET_PRESSURE	Double	8
					SCHEDULE	Text	8
					THICKNESS	Text	5
					ACTUATION	Text	8
					CLOSURE	Double	4,2
					POSITION	Text	5
					VALVE_PLACEMENT	Text	8
					INSPECTION_FREQUENCY	Text	10
					SIZE	Text	20
					DATE_INSTALLATION	Date	10
					INSTALLATION_PROCESS	Text	10
					INSTALLATION_AGENCY	Text	20
					MAKE	Text	15
					OPERATING CLASSIFICATION	Text	20
					NORMAL_POSITION	Text	5
					PRESENT_POSITION	Text	5
					GAS_PRESSURE_SYSTEM_STATUS	Text	5
					GAS_SYSTEM_STATUS	Text	20
					VAL_MAT	Text	10
					VAL_SERIES	Text	10
					ENDCONN	Text	20
					VAL_B_MAT	Text	10
					GASKET_TYPE	Text	10
					SYMBOL_ROTATION	Text	5
					REMARKS	Text	50



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					ATTACHMEN T	BLOB	100
31	Future Tap Off	TAP_OFF	Survey & Mapping	Point	TAP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					VALVE_CH_I D	Text	20
					TYPE	Text	20
					FACILITY_ST ATUS	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	50
					DEPTH	Doubl e	4,2
					MATERIAL	Text	10
					GRADE	Doubl e	8
					SET_PRESS URE	Doubl e	8
					SCHEDULE	Text	8
					THICKNESS	Text	5
					ACTUATION	Text	8
					CLOSURE	Doubl e	4,2
					POSITION	Text	5
					VALVE_PLAC E	Text	8
					INSPECTION _FREQUENC Y	Text	10
					SIZE	Text	20
					DATE_INSTA LLATION	Date	10
					INSTALLATIO N_PROCESS	Text	10
					INSTALLATIO N_AGENCY	Text	20
					MAKE	Text	15
					VAL_MAT	Text	10
					VAL_SERIES	Text	10
					ENDCONN	Text	20
					VAL_B_MAT	Text	10



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					GASKET_TY PE	Text	10
					SYMBOL_RO TATION	Text	5
					REMARKS	Text	50
					ATTACHMEN T	BLOB	100
32	Valve Chamber	Valve_Ch amber	Survey	Point	V_CHAMBER _ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					VALVE_ID	Text	20
					INSTALLATIO N_DATE	Date	8
					WALL	Text	20
					SLEEP_NO	Text	20
					SIZE	Intege r	4
					DEPTH	Doubl e	8
					FUNCTION	Text	20
					LAST_MAINT ENANCE_DA TE	Date	8
					AREA_NAME	Text	100
					LOCATION	Text	40
33	Transition Fitting	TF	MDPE Mapping	Point	REMARKS	Text	50
					ATTACHMEN TS	BLOB	50
					TF_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					BUILDING_I D	Text	20
					BLD_NAME	Text	50
					BLOCK_NO	Text	20
					SR_ID	Text	20
					SR_NAME	Text	20
					REGISTRAIO	Text	20



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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					N_ID		
					GUARD_TYP E	Text	20
					REMARKS	Text	100
34	PL Section	PL_Secti on	MNGL	Line	SECTION_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_NA ME	Text	50
					AREA	Text	20
					REGION	Text	20
					LENGTH	Text	20
					REMARKS	Text	50
35	STPL Main_Line	STPL_M ain_Line	Detection Survey & As- Built Drawing	Line	PL_MAIN_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_ID	Text	20
					SECTION_NA ME	Text	20
					PL_TYPE	Text	20
					SURFACE_T YPE	Text	20
					INSTALLATIO N_DATE	Date	8
					INSTALLATIO N_METHOD	Text	20
					DRAWING_N O	Text	20
					CONTRACTO R_NAME	Text	20
					SOR_NO	Text	20
					COMMISSIO NING_DATE	Date	8
					OWNER	Text	20
					PL_STATUS	Text	20
					NOMINALDIA METER	Doubl e	8
					OUTERDIAM ETER	Doubl e	8



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					DIAMETERU NIT	Doubl e	8
					PL_DEPTH	Doubl e	8
					WALL_THICK NESS	Text	10
					SCHEDULE	Text	10
					MANUFACTU RER	Text	10
					MANUFACTU RER_DATE	Text	20
					MATERIAL	Text	20
					COATINGTY PE	Text	10
					PIPESTATUS INDICATOR	Text	10
					PL_TEST_TY PE	Text	20
					PL_TEST_DA TE	Date	8
					PL_TEST_DU RATION	Text	20
					TEST_PRESS URE	Text	20
					MAOP	Doubl e	8
					MAINTAINE_ BY	Text	20
					LAST_MAINT _DATE	Date	8
					SOPENTERE D	Doubl e	8
					SOPRANGE	Doubl e	8
					SOPSTANDA RD	Text	20
					SOPUNITOF MEASURE	Doubl e	8
					CRITICALIND ICATOR	Text	20
					SOIL_RESIST IVITY	Text	20
					CPSYSTEMS TATUS	Text	20
					BONDEDINDI CATOR	Intege r	4
					OPERATING	Text	5



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Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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					PRESSURE		
					DESIGNPRESSUREENTERED	Double	8
					DESIGNPRESSURESTANDARD	Double	8
					DESIGNPRESSUREUNIT OF MEASURE	Double	8
					LAST LEAK SURVEY	Date	8
					LEAK SURVEY FREQUENCY	Text	10
					ACTUAL_LENGTH	Double	4,2
					REMARKS	Text	50
					FLOW_STATUS	Text	20
36	Distribution Line	Distribution_Line	Field Survey / AS-Built Drawing	Line	PL_DIST_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_ID	Text	20
					SECTION_NAME	Text	20
					PL_TYPE	Text	20
					SURFACE_TYPE	Text	20
					INSTALLATION_DATE	Date	8
					INSTALLATION_METHOD	Text	20
					DRAWING_NO	Text	20
					CONTRACTOR_NAME	Text	20
					SOR_NO	Text	20
					COMMISSIONING_DATE	Date	8
					OWNER	Text	20
					PL_STATUS	Text	20
					NOMINAL DIA	Double	8



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Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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					METER	e	
					OUTERDIAMETER	Doubl e	8
					DIAMETERUNIT	Doubl e	8
					PL_DEPTH	Doubl e	8
					WALL_THICKNESS	Text	10
					SCHEDULE	Text	10
					MANUFACTURER	Text	10
					MANUFACTURER_DATE	Text	20
					MATERIAL	Text	20
					COATINGTYPE	Text	10
					PIPESTATUSINDICATOR	Text	10
					PL_TEST_TYPE	Text	20
					PL_TEST_DATE	Date	8
					PL_TEST_DURATION	Text	20
					TEST_PRESSURE	Text	20
					MAOP	Doubl e	8
					MAINTAINED_BY	Text	20
					LAST_MAINT_DATE	Date	8
					SOPENTERED	Doubl e	8
					SOPRANGE	Doubl e	8
					SOPSTANDARD	Text	20
					SOPUNITOFMEASURE	Doubl e	8
					CRITICALINDICATOR	Text	20
					SOIL_RESISTIVITY	Text	20
					CPSYSTEMSTATUS	Text	20



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					BONDEDINDI CATOR	Integer	4
					OPERATING PRESSURE	Text	5
					DESIGNPRE SSUREENTE RED	Double	8
					DESIGNPRE SSURESTAN DARD	Double	8
					DESIGNPRE SSUREUNIT OFMEASURE	Double	8
					LASTLEAKSU RVEY	Date	8
					LEAKSURVE YFREQUENC Y	Text	10
					ACTUAL_LE NGTH	Double	4,2
					REMARKS	Text	50
					FLOW_STAT US	Text	20
					PL_SERVICE _ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_ID	Text	20
					SECTION_NA ME	Text	20
					PL_TYPE	Text	20
					SURFACE_T YPE	Text	20
					INSTALLATIO N_DATE	Date	8
					INSTALLATIO N_METHOD	Text	20
					DRAWING_N O	Text	20
					CONTRACTO R_NAME	Text	20
					SOR_NO	Text	20
					COMMISSIO NING_DATE	Date	8



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GAS LIMITED**

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

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37	Service Line	Servie_Li ne	Field Survey / As-Built Drawing	Line	OWNER	Text	20
					PL_STATUS	Text	20
					NOMINALDIA METER	Doubl e	8
					OUTERDIAM ETER	Doubl e	8
					DIAMETERU NIT	Doubl e	8
					PL_DEPTH	Doubl e	8
					WALL_THICK NESS	Text	10
					SCHEDULE	Text	10
					MANUFACTU RER	Text	10
					MANUFACTU RER_DATE	Text	20
					MATERIAL	Text	20
					COATINGTY PE	Text	10
					PIPESTATUS INDICATOR	Text	10
					PL_TEST_TY PE	Text	20
					PL_TEST_DA TE	Date	8
					PL_TEST_DU RATION	Text	20
					TEST_PRESS URE	Text	20
					MAOP	Doubl e	8
					MAINTAINE_ BY	Text	20
					LAST_MAINT _DATE	Date	8
					SOPENTERE D	Doubl e	8
					SOPRANGE	Doubl e	8
					SOPSTANDA RD	Text	20
					SOPUNITOF MEASURE	Doubl e	8
					CRITICALIND ICATOR	Text	20



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					SOIL_RESIST IVITY	Text	20
					CPSYSTEMS TATUS	Text	20
					BONDEDINDI CATOR	Intege r	4
					OPERATING PRESSURE	Text	5
					DESIGNPRE SSUREENTE RED	Doubl e	8
					DESIGNPRE SSURESTAN DARD	Doubl e	8
					DESIGNPRE SSUREUNIT OFMEASURE	Doubl e	8
					LASTLEAKSU RVEY	Date	8
					LEAKSURVE YFREQUENC Y	Text	10
					ACTUAL_LE NGTH	Doubl e	4,2
					REMARKS	Text	50
					FLOW_STAT US	Text	20
36	Proposed Pipeline	Proposed _Pipeline	MNGL	Line	PL_PROP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_NA ME	Text	50
					PL_TYPE	Text	20
					PL_PRESSU RE	Text	20
					LANDMARKS	Text	20
					PL_LENGTH	Doubl e	8
					SURFACE_T YPE	Text	20
					AREA_NAME	Text	20
					APPROVED_ BY_AIC	Text	20
					APPROVED_	Date	8



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					BY_AIC_DATE		
					APPROVED_BY_EIC	Text	20
					APPROVED_BY_EIC_DATE	Date	8
					APPROVED_BY_HOD	Text	20
					APPROVED_BY_HOD_DATE	Date	8
					APPROVAL_AUTHORITY	Text	20
					APPROVED_BY_AUTHORITY_DATE	Date	8
					APPROVAL_STATUS	Text	20
					REMARKS	Text	50
38	Crossing	Crossing	Imagery/Field Survey	Line	CROSSING_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					CROSSING_NAME	Text	20
					CROSSING_METHOD	Text	20
					FACILITY_STATUS	Text	20
					CROSSING_TYPE	Text	20
					INSULATED	Text	4
					DRAIN_VENT	Text	10
					CARRIER_SIZE	Text	20
					EXECUTION_DATE	Date	8
					EXECUTED_BY	Text	20
					DESCRIPTION_OF_AGENCY	Text	20
					LOCATION_	Text	20



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					DESCRIPTION		
					REMARKS	Text	50
					ACTUAL_LENGTH	Integer	4
					SHAPE_LENGTH	Integer	4
39	Anode Bed	Anode_Bed	Imagery/Field Survey	Polygon	ANODE_B_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					WEIGHT	Text	15
					QUANTITY	Integer	4
					INSERVICE_DATE	Date	8
					INSTALLATION_DATE	Date	8
					LIFECYCLE_STATUS	Text	20
					MAINT_BY	Text	20
					MANUFACTURER_COMPONENT	Text	20
					MANUFACTURE_DATE	Date	8
					MANUFACTURE_LOT#	Text	20
					SIZE	Text	15
					MESH_SIZE	Text	15
					SPECIFICATION	Text	15
					OWNED_BY	Text	20
					PROCESS_INSTALLATION	Text	20
					INSTALLED_BY	Text	20
					BED_AREA	Double	4,2
					ROTATION	Text	20
					SERIAL_NUMBER	Text	20
					REMARKS	Text	50



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40	TR Unit	TR_Unit	Field Survey	Point	TRU_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					PL_ID	Text	20
					INSTALLATION_DATE	Date	8
					AMPERAGE	Double	8
					VOLATGE	Double	8
					OUTPUT_RATING	Text	20
					SERIAL_NUMBER	Text	20
					MODEL	Text	20
					MANUFACTURE	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	20
					INTERNAL_PRESS	Text	20
					STATUS	Text	20
41	TLP	TLP	Field Survey	Point	INTERNAL_METER	Text	10
					REMARKS	Text	50
					TLP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SECTION_ID	Text	20
					TRU_ID	Text	20
					TLP_TYPE	Text	20
					WIRECOUNT	Text	10
					OPERATING STATUS	Text	10
					INSTALLATION_DATE	Date	8
					READING_DATE	Date	8
					NEXT_READI	Date	8



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					NG_DATE		
					LAST_READI NG_DATE	Date	8
					PROTECTIO N_STATUS	Text	10
					CURRENT_P SP_VALUE	Doubl e	4,2
					INTERVAL_D ISTANCE	Intege r	4
					AREA_NAME	Text	100
					LOCATION	Text	50
					REMARKS	Text	30
42	Insulation Joint	Insulation _Joint	Field Survey	Point	IJ_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					INSTALLATIO N_DATE	Date	8
					REPLACE_D ATE	Date	8
					IJ_TYPE	Text	20
					IJ_PROTECTI ON_TYPE	Text	20
					IJ_MANUFAC TURER	Text	20
					STATUS	Text	20
					BONDEDINDI CATOR	Text	20
					INSULATEDI NDICATOR	Text	20
					MATERIAL	Text	20
43	Bond Wire	Bond_Wir e	Field Survey	Line	SIZE	Doubl e	12
					MAINT_BY	Text	20
					REMARKS	Text	50
					B_WIRE_ID	Text	20
					INSTALLATIO N_DATE	Date	8
					INSTALLATIO N_METHOD	Text	20
					REPLACE_D ATE	Date	8
					B_WIRE_TYP	Text	20



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					E		
					COLOR_CODE	Text	20
					MAINTAINED_BY	Text	20
					MEASURED_LENGTH	Double	8
					WIRE_SIZE	Double	8
					LENGTH_SOURCE	Text	20
					LIFE_CYCLE_STATUS	Text	20
					REMARKS	Text	50
44	Odorizer		Field Survey	Point	ODORIZER_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					ODORANT_TYPE	Text	20
					CAPACITY	Double	8
					MODE	Integer	4
					INSTALL_DATE	Date	8
					STATUS	Integer	10
					INSULATOR_DEVICE	Text	20
					MAKE	Text	20
					OWNED_BY	Text	20
					DOZING	Text	15
					LENGTH	Double	8
					LIFE CYCLE STATUS	Text	20
					INSERVICE_DATE	Date	8
					TESTING_DATE_LAST	Text	20
					PERFORMANCE_TEST_DATE	Date	8



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					INSTALLATION_DATE	Date	8
					LAST_PERFORMANCE_TEST_DATE	Date	8
					MAINTAINED_BY	Text	20
					MANUFACTURE_COMPONENT	Text	20
					MANUFACTURE_DATE	Date	8
					MANUFACTURER	Text	20
					MAOP_DESIGN	Text	20
					MAOP_RECORD	Text	20
					MAOP_TEST	Text	20
					AREA_NAME	Text	100
					LOCATION	Date	8
					REMARKS	Text	30
45	OFC	OFC	MNGL	Line	OFC_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					PL_ID	Text	20
					PL_NAME	Text	50
					OFC_TYPE	Text	20
					DATE_INSTALLATION	Date	8
					OFC_SPECIFICATION	Text	20
					CONDUIT_SIZE	Double	12
					NO_OF_FIBERS	Integer	4
					MANUFACTURER	Text	20
					DEPTH	Double	8
					ACTUAL_LENGTH	Double	8



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					STATUS	Text	20
					REMARKS	Text	50
46	Pipe Line Marker	Pipe Line Marker	Field Survey	Point	MARKER_ID	Text	20
					PL_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					MARKER_TY PE	Text	20
					MARKER_ST ATUS	Text	5
					MATERIAL	Text	10
					INSTALLATIO N_DATE	Date	8
					INTERVAL_D ISTANCE	Intege r	4
					AREA_NAME	Text	100
					LOCATION	Text	30
					REMARKS	Text	30
47	Compressor	Compres sor	Field Survey	Point	COMP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					BARCODE	Text	50
					STATUS	Text	20
					TYPE	Text	20
					INSERVICE_ DATE	Date	8
					INSTALLATIO N_DATE	Date	8
					LIFECYCLE_ STATUS	Text	20
					CAPACITY	Text	20
					OWNED_BY	Text	20
					MAINT_BY	Text	20
					MANUFACTU RER	Text	20
					MANUFACTU RE COMPONEN T	Text	20



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					MANUFACTURE DATE	Date	8
					MAOP DESIGN	Text	20
					MAOP RECORD	Text	20
					MAOP TEST	Text	20
					MAX INLET PRESSURE	Double	8
					MAX OUTLET PRESSURE	Double	8
					ROTATION	Text	20
					SET PRESSURE ENTERED	Double	8
					SET PRESSURE STANDARD	Double	8
					AREA_NAME	Text	100
					LOCATION	Text	20
					REMARKS	Text	50
48	Dispenser	Dispenser	Field Survey	Point	DISP_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					CNGSTN_ID	Text	20
					CNGSTN_NAME	Text	30
					DISP_MAKE	Text	20
					DISP_TYPE	Text	20
					DISP_SR_NO	Text	20
49	Filter	Filter	Field Survey	Point	REMARKS	Text	50
					FILT_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					STN_ID	Text	20
					NAME	Text	20
					SIZE	Text	20
					MAKE	Text	20



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					REMARKS	Text	20
50	Incident	Incident	Field Survey	Point	INC_ID	Text	20
					EXCAV_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					SITE_LOCATION	Text	20
					REPORTING_TIME	Date	8
					TEAM_REACH_AT_SITE	Date	8
					ACTUAL_RESPONSE_TIME	Date	8
					AFFECTED_SIR	Integer	8
					AFFECTED_CM	Integer	8
					AFFECTED_MRS	Text	20
					REQUIRED_TIME	Text	20
					ACTUAL_RESTORATION_TIME	Text	20
					STATUS_OF_SITUATION	Text	20
					ERT_AVAILABLE_AT_SITE_1	Boolean	4
					DAMAGE_REASON	Text	100
					LINE_SIZE	Text	20
					TYPE_OF_LINE	Text	20
					LEAKAGE_CONTROLLED_BY	Text	20
					REMARKS	Text	255
51	Excavation	Excavation	Field Survey	Point	EXCAV_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50



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					CA_ID	Text	20
					CA_NAME	Text	50
					AGENCY_NAME	Text	20
					DIGGING_DESCRIPTION	Text	100
					INCHARGE_DESIGNATION	Text	20
					INCHARGE_CONTACT	Integer	15
					MNGL_AGENCY	Text	20
					MNGL_AGENCY_INCHARGE	Text	20
					SITE_SUPERVISION_BY	Text	20
					SUPERVISOR_NAME	Text	20
					SUPERVISOR_CONTACT	Text	20
					DURATION_DIGGING	Text	20
					EXCAVATION_MODE	Text	20
					PL_DAMAGE	Text	50
					AREA_NAME	Text	100
					LOCATION	Text	20
					REMARKS	Text	20
52	Proposed CNG Station	Proposed CNG Station	Field Survey	Point	P_CNG_ID	Text	20
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					NAME	Text	20
					OWNER	Text	20
					BUSSINESS_MODEL	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	20
					REMARKS	Text	20
53	PM_DRS	PM_DRS	Field Survey	DBF	DRS_ID	Text	20
					INLET_PRES	Text	20



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					SURE		
					OUTLET_PRESSURE	Text	20
					DIFFERENTIAL_PRESSURE_GAUGE	Text	20
					INCASE OF DPG SHOWING PRESSURE UP TO 0.2 TO 0.3 BAR CLEAN OR REPLACE THE FILTER	Text	50
					INLET_TEMPERATURE	Text	20
					BOTH_STREAMS_SWITCH_ACTIVATE_OPEN/CLOSE	Text	20
					STREAM_A_OUTLET_PRESSURE	Text	20
					STREAM_B_OUTLET_PRESSURE	Text	20
					CHECK_LEAKAGE_FROM_FLANGE	Text	20
					CHAMBER_DEWATERING	Text	20
					FILTER_CLEANING	Text	20
					HOUSE_KEEPING	Text	20
					TURBINE_METER_READING_STREAM-A	Text	20
					TURBINE_METER_READING_STREAM-B	Text	20
					FLOW_COMPUTER_READING_STREAM-A	Text	20



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					FLOW_COM PUTER_REA DING_STREA M-B	Text	20
					TURBINE_OI L_METER_ST REAM-A	Text	20
					TURBINE_OI L_METER_ST REAM-B	Text	20
					REMARKS	Text	20
54	PM_MRS	PM_MRS	Field Survey	DBF	MRS_ID	Text	20
					INLET_PRES SURE	Text	20
					OUTLET_PR ESSURE	Text	20
					DIFFERENTIA L_PRESSUR E_GAUGE	Text	20
					FILTER_CLE ANING	Text	50
					FLOW_RATE	Text	20
					RPD_METER OIL_LEVEL	Text	20
					RPD_METER READING	Text	20
					CORRECTED _READING_F ROM_EVC	Text	20
					CHECK_LEA KAGE_FROM _FLANGE_JO INTS	Text	20
					HOUSE_KEE PING	Text	20
					MAX_FLOW_ RATE_PASS ED_BY_RPD _METER_FO R_PREVIOUS _FORTNIGHT	Text	20
					REMARKS	Text	20
55	PM_DCS	PM_DCS	Field Survey	DBF	DRS_ID	Text	20
					INLET_PRES SURE	Text	20
					OUTLET_PR ESSURE	Text	20



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					DIFFERENTIAL_PRESSURE_GAUGE	Text	20
					IN CASE OF DPG SHOWING PRESSURE UP TO 0.2 TO 0.3 BAR CLEAN OR REPLACE THE FILTER	Text	50
					INLET_TEMPERATURE	Text	20
					BOTH_STREAMS_SSV_ACTIVATION_OPEN/CLOSE	Text	20
					STREAM_A_OUTLET_PRESSURE	Text	20
					STREAM_B_OUTLET_PRESSURE	Text	20
					CHECK_LEAKAGE_FROM_FLANGE	Text	20
					CHAMBER_DEWATERING	Text	20
					FILTER_CLEANING	Text	20
					HOUSEKEEPING	Text	20
					TURBINE_METER_READING_STREAM-A	Text	20
					TURBINE_METER_READING_STREAM-B	Text	20
					FLOW_COMPUTER_READING_STREAM-A	Text	20
					FLOW_COMPUTER_READING_STREAM-B	Text	20



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					M-B		
					TURBINE_OI L_METER_ST REAM-A	Text	20
					TURBINE_OI L_METER_ST REAM-B	Text	20
					REMARKS	Text	50
56	PM_SR	PM_SR	Field Survey	DBF	SR_ID	Text	20
					SR_NAME	Text	20
					SR_CAPACIT Y	Text	50
					STATUS_OF _SLEEVE_AT _INLET_OUT LET_INSIDE_ FOUNDATIO N	Text	20
					SR_MAKE	Text	50
					GAS_LEAK	Text	20
					NO_OF_CUS TOMER_CON NECTED	Text	20
					LAST_MAINT _DATE	Date	8
					STATUS_OF _SAND_INSI DE_FOUND ATION	Text	20
					CURRENT_M AINT_DATE	Date	8
					STATUS_OF _SR_FOUND ATION	Text	20
					NEXT_MAINT _DATE	Date	8
					REMARKS	Text	50
57	PM_VALVE	PM_VAL VE	Field Survey	DBF	VAL_ID	Text	20
					VALVE_NAM E	Text	20
					VALVE_LOC ATION	Text	50
					LAST_MAINT _DATE	Date	8
					VALVE_SIZE	Text	50
					VALVE_MAK	Text	20



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					E		
					CURRENT_MAINT_DATE	Text	20
					VALVE_TYPE	Text	20
					NEXT_MAINT_DATE	Date	8
					REMARKS	Text	20
58	PM_DOMESTIC_METER	PM_DOMESTIC_METER	Field Survey	DBF	DOM_ID	Text	20
					CUSTOMER_NAME	Text	20
					ADDRESS	Text	50
					CONTACT_NO	Integer	15
					DATE	Date	8
					TIME	Date	8
					BP_NO	Text	20
					METER_NO	Text	20
					METER_READING	Integer	8
					METER_MAKE	Text	20
					METER_CONTROL_VALVE_2	Boolean	10
					BRASS_DISCONNECTION_UNION	Boolean	10
					METER_INLET_ADAPTER	Boolean	10
					METER_OUTLET_ADAPTER	Boolean	10
					SURAKSHA_RUBBER_TUBE	Boolean	10
					ALL_COPPER_JOINTS	Boolean	10
					METER_REGULATOR	Boolean	10
					METER	Boolean	10
					CHECK_METER_RUNNING	Boolean	10
					CLEAN_MET	Boolean	10



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					ER_REGULA TOR_TUBIB G	an	
					GYESER_CO NNECTION_ AVAILABLE_ OR_NOT_IF_ YES_CHECK_ _WHETHER_I NSTALLED_A S_PER_SOP	Boole an	10
					MNGL_APPR OVED_VEND OR_SIGN	Blob	20
					TPI ENGINEER_S TAMP_SIGN ATURE	Blob	20
					CUSTOMER_ SIGNATURE	Blob	20
					REVIEWED_ BY	Text	20
					AREA_IN- CHARGE_OF _MNGL	Text	20
					REMARKS	Text	20
59	PM_CNG	PM_CNG	Field Survey	DBF	CNG_ID	Text	20
					NAME_STATI ON	Text	10
					AREA_NAME	Text	50
					LOCATION	Text	50
					DATE	Date	8
					TIME	Date	8
					PLC_TRIP_S ETTINGS_AS _PER_PRES CRIBED_LIMI TS/ATTACH_ PHOTOGRAP H	Blob	20
					ELECTRICAL _ROOM_RU BBER_MATTI NG_PROVID ED/ATTACH_	Blob	20



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					PHOTOGRAPH		
					HAZARD_WARNING_MARKERS_PLACED/ATTACH_PHOTOGRAPH	Blob	20
					CALIBRATION_OF_INSTRUMENTS_AND_STICKERS_IN_PLACE	Boolean	5
					CO2_FLOODING_SYSTEM_SOFTWARE_WORKING_CHECK	Boolean	5
					ELECTRICAL_PANEL_WIRING_AND_CLEANLINESS_CHECK	Boolean	5
					ELECTRICAL_CABLE_INSULATIONS	Boolean	5
					CALIBRATION_REPORTS_OF_INSTRUMENTS_ARE_IN_PLACE_&_IT_IS_VALID	Boolean	5
					MAIN_ESD_AND_LOCALIZED_ESD_WORKING_CONDITION	Boolean	5
					LIGHTING_FOR_STATION_AND_OFFICE_ADEQUATE_OR_NOT	Boolean	5
					ELECTRICAL_ROOM_AND_OFFICE_ROOM_VENTILATION_CO	Boolean	5



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					NDITION		
					POWER_FACTOR_VALUE	Boolean	5
					TRANSFORMER_OIL_LEVEL_AND_SILICA_GEL_CONDITION	Boolean	5
					EARTHING_READINGS_WITHIN_LIMITS_OR_NOT	Boolean	5
					COPPER_JUMBERS_BETWEEN_FLANGES_AVAILABILITY_AND_CONDITION	Boolean	5
					PANEL_BODY_EARTHING_EQUIPMENT_EARTHING_CONDITION_CHECK	Boolean	5
					CHECK_FOR_ABNORMAL_VIBRATIONS_AND_SOUNDS_IN_EQUIPMENT	Boolean	5
					ACCESS_CONTROL_TO_ELECTRICAL_ROOM_AND_GASIFIED_AREA/ATTACH_PHOTOGRAPH	Boolean	5
					DISPENSER_SEALS_CONDITION	Boolean	5
					EARTHING_READING_DISPLAYED_OR_NOT_IN_STATION_OFFICE	Boolean	5
					TEMPERATURE	Boolean	5



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					RE_OF_BUS_BARS	an	
					HOUSE_KEEPING_OF_ELECTRICAL_ROOM	Boolean	5
					UPS_STABILIZER_AVAILABILITY_CONDITION	Boolean	5
					UPS_BATTERY_CONDITION_AND_VOLTAGE	Boolean	5
					UPS_BYPASS_CHANGE_OVER_AVAILABILITY	Boolean	5
					AUDITED_BY	Text	20
					AUDITOR_SIGNATURE	Blob	20
					NAME_OF_OPERATOR	Text	20
					OPERATOR_SIGNATURE	Blob	20
					OPERATOR_CONTACT_NO	Integer	15
					REMARKS	Text	20
60	PM_COMPRESSOR	PM_COMPRESSOR	Field Survey	DBF	CNG_ID	Text	20
					AREA_NAME	Text	100
					LOCATION	Text	50
					DATE	Date	10
					CHECK_POWER_SUPPLY_PHASE_VOLTAGE_CURRENT	Boolean	10
					RECORD_COMPRESSOR_OPERATING_PARAMETERS	Boolean	10
					CHECK_COMPRESSOR	Boolean	10



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					CRANK_CASE_OIL_LEVEL_CYLINDER_LUBRICATION_OIL_TANK_LEVEL_ENGINE_CRANKCASE_OIL_LEVEL_&_ENGINE_EJW_&_AUX_WATER_TANK_LEVEL		
					HAND_CHECK_SUCTION_VALVE_COVERS_FROM_COOLNESS	Boolean	10
					LISTEN_FOR_ABNORMAL_NOISES	Boolean	10
					CHECK_TEMPERATURE_OF_WATER_TO_AND_FROM_OF_EJW_&_AUX_WATER_LINE_FOR_ENGINE	Boolean	10
					DRAIN_CONDENSATE_FROM_VESSEL_AND_FILTERS	Boolean	10
					CHECK_LUBRICATOR_OIL_DROPS_AND_ADJUST_IF_IT_REQUIRE	Boolean	10
					CHECK_POSITION_OF_VALVES_BEFORE_RE-STARTING_MACHINE_CHECK_THE_VALVES_WHILE	Boolean	10



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					CH_SHOULD _BE_OPE D_ARE_OPE NED_AND_V ALVES_WHI CH_SHOULD _BE_CLOSE D_ARE_CLO SED		
					CHECK_ENG INE_AIR_CLE ANER_SERVI CE_INDICAT OR	Boole an	10
					CLEAN_THE _ENGINE_AI R_PRECLEA NER	Boole an	10
					INSPECT_FR AME_LUBRI CATOR_PAC KING_CASES _FOR_LEAKA GE	Boole an	10
					CHECK_FOR _LOOSE_CY LINDER_FAS TENERS_& COMPLETE_ PACKAGE_F ASTENERS	Boole an	10
					CHECK_CO MPRESSOR_ FORCE_FEE D_LUBRICAT OR_PUMP	Boole an	10
					COLLECT_A_ COMPRESS OR_&_ENGI NE_OIL_SAM PLE_FOR_A NALYSIS	Boole an	10
					REMOVE_TH E_DISTANCE _PIECE_COV ER_FROM_T HE_CROSSH EAD_GUIDE_	Boole an	10



**MAHARASHTRA NATURAL
GAS LIMITED**

Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

Bid No. MNGL/CP/2023-24/86

					AND_INSPE CT_THE_PA CKING_ARE A_ON_EACH _PISTON_RO D		
					CHECK_ALL _STAGES_C OMPRESSO R_VALVES	Boole an	10
					PERFORMAN CE_CHECK_ OF_VALVES	Boole an	10
					CHECK_THE _OIL_LEVEL_ IN_AIR_COM PRESSOR	Boole an	10
					CHECK_FOR _ANY_AIR_L EAKAGE_RE CTIFY_IF_FO UND_ANY	Boole an	10
					DRAIN_WAT ER_FROM_T HE_AIR_REC EIVER_OF_AI R_COMPRES SOR	Boole an	10
					CHECK_FOR _ANY_ABNO RMAL_SOUN D_RECTIFY_I F_FOUND_A NY	Boole an	10
					CHECK_THE _CONDITION _OF_AIR_CO MPRESSOR_ BELT_REPLA CE_IF_REQU IRED	Boole an	10
					CONTRACTO R_NAME	Text	20
					CONTRACTO R_SIGNATU RE	Blob	20
					CONTRACTO R_DATE/TIM	Date/ti me	20



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					E		
					MNGL_REPR ESSENTATIVE _NAME	Text	20
					MNGL_REPR ESSENTATIVE _SIGNATURE	Blob	20
					MNGL_REPR ESSENTATIVE _DATE/TIME	Date/ti me	20
					REMARKS	Text	50
61	PM_DISPEN SER	PM_DISP ENSER	Field Survey	DBF	DIS_ID	Text	20
					START DATE/TIME	Date/ti me	20
					DISPENSER_ MODEL	Text	50
					COMPLETED _DATE/TIME	Date/ti me	20
					CHECK_FOR _ANY_LEAKA GE_FROM_S OLENOID_VA LVE	Boole an	10
					CHECK_OPE RATION_OF_ 3_WAY_VAL VE_AND_AL SO_CHECK_ KNOB_OF_T HE_VALVE_I S_IN_GOOD _CONDITION	Boole an	10
					CHECK_THE _CONDITION _OF_FILLING _NOZZLE_O R_PROBE	Boole an	10
					CHECK_FOR _PROPER_V ENTING_THR OUGH_VENT _LINE_HOSE	Boole an	10
					CHECK_OVE RALL_CONDI TION_OF_H OSES	Boole an	10
					CHECK_SUP	Boole	10



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					PLY_VOLTAGE_AND_NOTEDOWN_T HE_READING_PHASE_T O_NEUTRAL _&_PHASE_T O_EARTH	an	
					CLEAN_THE _ENTIRE _DISPENSER	Boole an	10
					CONTRACTO R_NAME	Text	20
					CONTRACTO R_SIGNATU RE	Blob	20
					CONTRACTO R_DATE/TIM E	Date/ti me	20
					MNGL_REPR ESSENTATIVE _NAME	Text	20
					MNGL_REPR ESSENTATIVE _SIGNATURE	Blob	20
					MNGL_REPR ESSENTATIVE _DATE/TIME	Date/ti me	20
					REMARKS	Text	20
62	MR_INDUST RIAL_METER	MR_IND USTRIAL _METER	Field Survey	DBF	INDUS_ID	Text	20
					DATE	Date	8
					BP_NO	Text	50
					INST_NO	Intege r	10
					MRS_SIZE	Text	50
					BP_NAME	Text	20
					INLET_PRSR	Text	20
					OUTLET_PR SR	Text	20
					EVC_COR_O PENING	Doubl e	50
					EVC_COR_C LOSING	Doubl e	50
					EVC_COR_DI F	Doubl e	50
					EVC_UNCOR	Doubl	50



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					_OPENING	e	
					EVC_UNCOR_CLOSING	Doubl e	50
					EVC_UNCOR_DIF.	Doubl e	50
					RPD_MTR_OPENING	Doubl e	50
					RPD_MTR_CLOSING	Doubl e	50
					RPD_MTR_DIF	Doubl e	50
					CV	Doubl e	50
					AVG_COR_FACTOR	Doubl e	50
					EVC_UNCOR_AVG_COR_FACTOR	Doubl e	50
					DIFFERENCE	Doubl e	50
					REMARKS	Text	50
63	MR_COMMERCIAL_METER	MR_COMMERCIAL_METER	Field Survey	DBF	COMM_ID	Text	20
					DATE	Date	8
					BP_NO	Integer	50
					INST_NO	Integer	10
					BP_NAME	Text	20
					AREA_NAME	Text	100
					OPENING	Doubl e	50
					CLOSING	Doubl e	50
					DIFFERENCE	Doubl e	50
					CONVERSION	Doubl e	50
					CONSUMPTION	Doubl e	50
					REMARKS	Text	20
64	MR_DOMESTIC_METER	MR_DOMESTIC_METER	Field Survey	DBF	DOM_ID	Text	20
					DATE	Date	8
					BP_NO	Integer	50
					INST_NO	Integer	10



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					BP_NAME	Text	20
					AREA_NAME	Text	100
					OPENING	Double	50
					CLOSING	Double	50
					DIFFERENCE	Double	50
					CONVERSION	Double	50
					CONSUMPTION	Double	50
					REMARKS	Text	50
65	All Customer Data	ACD	MNGL	DBF	EXECUTION DATE	Date	10
					GA_ID	Text	20
					GA_NAME	Text	50
					CA_ID	Text	20
					CA_NAME	Text	50
					BP_NO	Text	20
					BLD_ID	Text	50
					BP_NAME	Text	30
					BPKIND	Text	20
					CRN	Text	20
					REGISTRATION DATE	Date	8
					MRU	Text	20
					SR_NAME	Text	20
					AREA	Text	20
					SOCIETY_NAME	Text	20
					FLAT_NUMBER	Text	20
					BLDG_CODE	Text	20
					SUPPL	Text	20
					STREET_2	Text	20
					STREET_3	Text	20
					STREET_4	Text	20
					STREET_5	Text	20
					OTHER_CITY	Text	20
					CITY	Text	20
					PIN_CODE	Integer	6




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					REMARK	Text	50
					TEL_NO	Long Integer	12
					MOBILE_NO	Long Integer	12
					EMAIL_ID	Text	20
					ID_COMMENT	Text	20
					CONSUMER_NO	Text	20
					DISTRIBUTOR_NAME	Text	20
					AMOUNT_PAID	Double	12
					SD_REQUEST_AMT	Double	12
					SD_PAID_AMT	Double	12
					ONLINE_CHARGES	Double	12
					ONLINE_CHARGES_PAID	Double	12
					APPLICATION_CHARGES	Double	12
					APPL_CHARGES_PAID	Double	12
					METER_NO	Text	20
					METER_INSTALL_DATE	Date	10
					MOVE_IN_DATE	Date	10
					MOVE_IN_CREATION_DATE	Date	10
					ACTUAL_MOVEIN_DATE	Date	10
					CREATION_DATE	Date	10
					SERIAL_NO	Text	20
					PREMISE_OWNER	Text	20
					INSTALLATION	Text	20
					OMC	Text	20

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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					REG_CREATION_DATE	Date	10
					MOVE_OUT_DATE	Date	10
					BELEGDAT	Text	20
					EMPLO	Text	20
					MOVEIN_CB_Y	Text	20
					REMARKS	Text	20

Note: Attribute is tentative, Survey agency may update the attribute field as per concerned AIC instruction as required during the project period.

 MAHARASHTRA NATURAL GAS LIMITED	Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL. Bid No. MNGL/CP/2023-24/86
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SECTION – V

UNPRISED SCHEDULE OF RATES

Tender No. MNGL/CP/2023-24/86 dated 13.09.2023

Item: Tender for hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA, Nizamabad GA & newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.

Item No.	Description	Quoted / Not quoted
(1)	(2)	(3)
BoQ - 1	Hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nanded GA.	
BoQ - 2	Hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of an upcoming pipeline network in MNGL's Nizamabad GA.	
BoQ - 3	Hiring of survey agency for a period of 02 years for DGPS / GIS based field survey & mapping of newly laid pipeline in Pune GA for implementation of GIS based Asset Management System for CGD Network of MNGL.	

Note:

1. Evaluation shall be done on an overall least cost basis for each Geographical Area (GA) separately & order shall be placed on L-1 bidder for each Geographical Area (GA) separately.
2. All SOR (i.e. BoQ on e-portal) items shall be quoted by the bidder in the price part of the bid, otherwise bid will be rejected.
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.**

SEAL & SIGNATURE OF BIDDER