



TRIPURA NATURAL GAS COMPANY LIMITED

(A Joint Venture of GAIL (India) Ltd., Govt. of Tripura & Govt. of Assam)

PROJECT FOR

CITY GAS DISTRIBUTION FOR AGARTALA

**E -TENDER FOR
HIRING OF SERVICE EPMC SERVICE FOR DEVELOPMENT
OF CGD NETWORK IN GOMATI DISTRICT (GA 74) AND
WEST TRIPURA (GA 75) FOR TNGCL**

**UNDER OPEN DOMESTIC COMPETITIVE
THRU E-TENDER BIDDING**

Bid Document No.: TNGCL/C&P/EPMC/Proj – Expn/New GA/SC(101)/2019-20

VOLUME – II OF II

PREPARED AND ISSUED BY

Department of Contracts & Procurement
Tripura Natural Gas Company Ltd.
Shilpa Nigam Bhawan, Khejurbagan,
P.O – Kunjaban, Agartala, Tripura-799006
Email: chiranjib@tngcl.com

1. PROJECT DESCRIPTION:

M/s. Tripura Natural Gas Company Limited (TNGCL) is planning to develop & implement the City Gas Distribution network in newly awarded Grant of Authorization for two new GAs in Tripura namely, Gomati District and West Tripura (Except areas already authorized) District for serving consumers of various sectors namely, domestic, commercial, industrial & automotive.

M/s TNGCL intends to take the services of Consultant for providing Design, Engineering & PMC Services for Development & Implementation of City Gas Distribution Network in the Geographical Areas of Gomati District and West Tripura (Except areas already authorized) District respectively.

2. PROJECT FACILITIES:

Major facilities to be developed over the PMC period of the project are as follow for Gomati District and West Tripura (Except areas already authorized) District:

Sl. No.	Description	Unit	Gomati District	West Tripura (Except areas already authorized) District
1	CNG Stations	Nos.	06	06
2	Steel Grid Network	Inch-km	170	60
3	PE Pipe Network	Km	As required for development of CGD Network	
4	Domestic Connections	Nos.	11514	15800
5	Commercial & Industrial Connections	Nos.	As per the market requirement	
6	DRS/MRS	Nos.	Numbers as required to cater the facilities listed as above	
7	Areas considered for Simulation		Gomati District GA West Tripura (Except areas already authorized) District GA	

The above facilities are based on preliminary study and PNGRB commitments.

3. DETAILED SCOPE OF SERVICE

The consultant shall be appointed for executing the project from Design to commissioning on total and single point responsibility basis. The scope of work of the consultant in respect of the PROJECT SCOPE as per Section 2 shall be broadly, but not limited to, the following:

- I. Detail Engineering.
- II. Planning & Scheduling.
- III. Tendering & Ordering including Purchase of all equipment and materials.
- IV. Inspection/ Expediting of equipment / Materials including contractors supplied items.
- V. Construction Supervision/ site visit
- VI. Pre-commissioning
- VII. Commissioning
- VIII. Project Management.
- IX. Project closeout.

The PMC will work with the aim to complete the Project on or before the schedule and starting of revenue generation revenue for TNGCL at the earliest. PMC shall follow all relevant & applicable regulations, codes and standards. The Detail scope of work of the consultant is outlined below. However, the list is not exclusive and limited. The consultant shall also be required to do the works not envisaged herein and specifically mentioned below, but other

wise required as a consultant for overall completion of the project, within the quoted price / awarded value of work to PMC.

PART -A (Conceptual Engineering, Detail Engineering, Work contract/ Procurement and Project Management Services)

The Basic Engineering, Detail Engineering and Work Contract/Procurement Services shall be carried out as follows for the facilities as defined above. The supply and works contract tender shall be as follows:

Sl. No.	Procurement/ Supply Tender	No. of tender
1	Mother Compressor	1
2	Booster Compressor	1
3	SS Tube & SS fittings	1
4	Dispensers	1
5	Cascades	1
6	CS Pipe	1
7	MDPE Pipe	1
8	GI Pipe	1
9	Isolation & Appliance Valves	1
10	Odorizing Unit	1
11	DRS/MRS	1
12	Meters & Regulators	1

Sl. No.	Work Contract Tender	No. of Tender
1	Steel Pipeline Laying	1
2	MDPE & GI Pipe line Laying	1
3	Civil, Electrical & Mechanical works for CNG station	1

3.1. BASIC ENGINEERING:

The Basic Engineering services shall comprise of the following:

- i. Simulation of steel pipeline based on survey data
- ii. Preparation of P&IDs
- iii. Simulation of MDPE Network based on the survey of domestic areas
- iv. Steel pipe line drawings and CNG station layout drawings for PESO approval.

3.2. DETAILED DESIGN & ENGINEERING:

The detailed design and Engineering services shall comprise of the following:

- i. Preparation of detailed civil and structural construction drawing for MS & DBS.
- ii. Preparation of Mechanical/ Tubing drawings for MS & DBS.
- iii. Drawings for SV Stations.
- iv. MDPE Network drawing for construction purpose.
- v. Approval of vendor drawings.
- vi. Engineering, approval of Quality Assurance Plans, Scheduling and expediting of material supply.

3.3. TENDERING SERVICES:

The Tendering Services shall include the following:

- i. Preparation of Commercial and Technical volume of tender.
- ii. Hosting/ Floating of tender.
- iii. Organizing Pre-Bid Meetings.
- iv. Preparation of Technical Bid Analysis and Commercial Bid Analysis and forwarding Techno-Commercial recommendation to TNGCL for opening of Price Bids.
- v. Opening of price bids by TNGCL & PMC in presence of technical, contract & finance personnel of TNGCL/ PMC.
- vi. Price Bid Evaluation, preparation of Comparative Statement and recommendation to TNGCL for placement of orders.
- vii. Forwarding of draft Fax of Intent (FOI)
- viii. Forwarding of draft Letter of Award (LOA).
- ix. All efforts to be made for the floated tenders to be completed in all respect during the contract period. In case of any tender remaining incomplete due to any reasons, the PMC shall complete the scope of work of the SOR item beyond the Contract period.

3.4. PROJECT MANAGEMENT SERVICES & EXPEDITING SERVICES:

The Project Management Services & Expediting Services carried out from PMC's home office shall include the following:

- i. Project Implementation Planning
- ii. Project Scheduling.
- iii. Expediting Services.
- iv. Progress Report on daily basis.

PART B: Inspection & Construction Supervision Services:

- i. Inspection Services: Inspection of materials at vendors' place, where ever required and as per instructions of TNGCL.
- ii. Inspection of day to day activities at site and signing of reports.
- iii. Certification of measurement sheets, verification of Contractor's Running Bills and certification for payment.
- iv. Supervision and Inspection of site activities, establishment of working procedures, documentation and signing of inspection reports, certification of RA Bills of contractors etc.
- v. Submission of Progress Reports.
- vi. Pre-commissioning, Commissioning and Start-up assistance.
- vii. Finalizing and Closing of Contracts after certification of final documents, As Built drawings, reports and handing over to TNGCL.
- viii. Resolving disputes, arbitrations with vendors, contractors, if any.
- ix. Submission of Project Completion Report.

4. EXCLUSION FROM CONSULTANT'S SCOPE OF SERVICES

The following services shall be excluded from Consultant's Scope of Services:

- 4.1. Any type of engineering consultancy and/ or any other services for additional/ new facilities under City Gas Distribution Project at Gomati District and West Tripura (except

the areas already authorized) District except the facilities categorically mentioned under Sl. No. 2.

- 4.2. Store Management.
- 4.3. ROU/ ROW permission for pipeline laying and land acquisitions.
- 4.4. Any type of Survey, reports etc.
- 4.5. Market Survey, reports etc.
- 4.6. External power supply.
- 4.7. EIA/ EMP & RRA and DMP Reports.
- 4.8. Any type of statutory approvals from various Central/ State Govt. Organizations/ agencies etc.
- 4.9. Involvement in marketing efforts required for CNG & PNG business.

5. OBLIGATIONS OF CLIENT (M/s TNGCL)

To enable Consultant to carry out the scope of services detailed under Sl. No. 3, Client shall assist/ meet the following obligations in time & free of cost to Consultant.

- 5.1 Furnish information, design data, drawings, reports, DFR, etc, relevant to the above assignment and any other information required by Consultant from time to time for carrying out activities under its scope of work.
- 5.2 Furnish information of plot details for MS and ROU.
- 5.3 Furnish information regarding individual load of industrial & commercial connection
- 5.4 Obtaining permissions from statutory / local bodies including liaisioning with State /Central Govt. agencies/ local bodies.

6. ASSUMPTIONS

The project completion schedule in SL. No. 7.0 and the fees, rates/ charges to be quoted as mentioned in Sl. No. 8.0 below for the scope of services mentioned under PART-A & PART-B are based on the following assumptions:

- i) All the details / survey drawings shall be furnished by-the Client progressively within Three (03) months from the date of LOA on Consultant.
- ii) Client shall ensure the availability of Land for CNG stations and also take necessary permission from respective Govt. Authorities for installation of CNG Stations matching with construction schedule.
- iii) Client shall ensure the availability of ROU & land for steel pipeline network & SV stations and also take necessary permission from respective Govt. Authorities for installation of Steel network and SV stations progressively matching with construction schedule.
- iv) In case gas is not available for charging, pipeline will be filled with Nitrogen by the contractor and consultant's work shall be deemed to be complete.
- v) One time inspection shall be carried out for the each package. No re-inspection shall be considered. All the inspection shall be considered is in India only.
- vi) Maximum up to fifteen (15) numbers tenders including ; twelve (12) numbers supply tenders and three (03) numbers works contracts tenders have been envisaged.

vii) Liasoning and approval from State Govt. / Electricity board for external power supply shall be to TNGCL's scope.

viii) Infrastructure for MDPE pipe network has been considered for Gomati Tripura & Rest of west Tripura GA.

7. **TIME SCHEDULE**

Completion Schedule for project as detailed in S.L. No. 3.0 above shall be 36 (Thirty six) months from the date of kick-off meeting.

8. **CONSULTANT FEES SHALL BE QUOTED AS PER ENCLOSED SOR IN ANNEXURE-1 IN CONSIDERATION OF THE FOLLOWING**

8.1 Lump sum fees for Design, Engineering, Procurement and Project Management Services as mentioned in the SI. No. 3.1 to 3.4 as above shall be **quoted in SOR**

Lump sum fees shall be exclusive of GST, which shall be additionally borne and paid by M/s. TNGCL at the prevailing rate.

The lump sum fees shall be also exclusive of any tour / visit for meetings, inspection, construction supervision services, etc. to be undertaken by Consultant personnel related to this assignment and shall be charged additionally as per Clause No. 8.2 to 8.7 below.

8.2.1 **CHARGES FOR CONSTRUCTION SUPERVISION SERVICES:**

- a) For providing the construction supervision services for the facilities mentioned in SI 2, M/s. TNGCL shall pay for deployment of each Consultant personnel per month or part thereof as per SI. No. 8.2.1(c). This man-month rate shall be valid for the contract period of thirty six (36) months from the date of Letter Of Award.
- b) The duration of services for computing the man-months shall be reckoned from date of Consultant personnel leave their place of posting till their return to the respective place of posting in India.
- c) Man-month shall mean 26 (Twenty Six) working days with 8 hrs./calendar day working for one person in a 30 (Thirty) days calendar month.
- d) To and fro Economy class air fare to Agartala city for each Consultant personnel deputed to the construction site shall be paid by M/s TNGCL. Where air connectivity is not there 2nd AC / Taxi charges shall be paid by M/s TNGCL.
- e) Personnel deputed by consultant to site shall be allowed to travel back to their place of posting at intervals not exceeding four months at a stretch. Fare on this account shall be paid by M/s. TNGCL.
- f) On receipt of first written request for deployment of man-power for site services based on monthly charges, Consultant shall establish site Camp facilities in Gomati Tripura & Rest of West Tripura GA which includes guest house, catering, housekeeping, local transport, site office expenses, etc. for Consultant's construction supervision personnel. Minimum one month prior written notice from TNGCL shall be required for opening / closing the Camp facilities. The charges of Camp facilities shall be reimbursed to consultant by M/s. TNGCL. Agreed Monthly charges of Camp Facilities shall be valid for the contract period of thirty six (36) months from the date of written intimation from TNGCL for opening

OR

TNGCL will provide suitable air conditioned accommodation, local transport and all charges for maintenance & establishment of site office facilities.

- g) Camp facilities at the site shall be discontinued after the receipt of such written request from M/s.TNGCL. At least one month prior notice shall be given for the closure of camp facilities. Camp facilities shall be operational during the contractual completion period / one month after receipt of written request for closure of Camp facilities from TNGC - whichever is earlier and all the charges including foreclosure charges, if any towards maintaining the Camp facilities as per clause no. 8.2.1(f) above shall borne and paid by M/s. TNGCL.

8.2.2 CHARGES FOR INSPECTION, EXPEDITING, MEETING/DISCUSSION WITH TNGCL/ ANY THIRD PARTY OTHER THAN HOME TOWN OF CONSULTANT'S OFFICE IN INDIA

- a) To and fro Economy class air fare to the respective place for the Consultant's visiting personnel shall be paid by M/s. TNGCL. If air connectivity is not available in a particular sector then only journey will be undertaken by 2nd AC Train / Taxi, and the same shall be paid by TNGCL.
- b) Man-day charges per person shall be paid to Consultant for the meetings / discussion, inspection, etc. This man-day rate shall be valid for the contract period of thirty six (36) from the date of Work order and subject to escalation @ 8% every year thereafter.
- c) Board, lodging, incidental charges per person per day or part thereof in Metro & Class - A Cities and in other cities plus local transport viz. taxi, etc. at actual shall be paid by M/s TNGCL. Or TNGCL may arrange free of cost to Consultant.
- d) The man-day shall be reckoned @ 8 hours/calendar day or par thereof for one person. The number of days spent by Consultant personnel in connection with the work shall be reckoned from the date of Consultant personnel leave their place of posting till their return to the respective place of posting in India.

8.2.3 CHARGES FOR INSPECTION, EXPEDITING SERVICES, MEETING/DISCUSSION WITH TNGCL/ ANY THIRD PARTY IN CONSULTANT'S HOME CITY.

- a) Man-day charges per person shall be paid to Consultant for meetings, inspection & expediting services, etc. undertaken by Consultant personnel within home town related to the assignment. This man-day rate shall be valid for a period of thirty six (36) from the date of work order and subject to escalation @ 8% every year thereafter.
- b) The man-day shall be reckoned @ 8 hours/calendar day or part thereof for one person. The number of days spent by Consultant personnel in connection with the work shall be reckoned from the date of Consultant personnel leave their place of posting till their rerun to the respective place of posting in India.

8.3 Maximum upto Three (03) nos. tenders shall be floated as re-tender without additional charges against Fifteen (15) nos. tenders as envisaged.

8.4 The lumpsum fees and other rates /charges to be quoted as mentioned as above are exclusive of GST, which shall be borne and paid by M/s. TNGCL at prevailing rate.

8.5 For any additional tendering / re-tendering activity, if required, M/s. TNGCL shall pay an additionally. Rate shall be quoted for Procurement tendering and Works tendering separately as per enclosed SOR.

8.6 For deputation of Consultant Specialists abroad / foreign visit in connection with the work, the Daily Allowance and other terms and conditions are to be quoted as follows:

- a) Daily allowance / out of pocket expenses shall be quoted in US Dollars per person per day or part thereof. This shall be applicable from the day Consultant Experts / Engineers leave work place till departure from Indian port and from their return to Indian port till they return to respective place of posting. The above rates are to be quoted net of all taxes, duties payable, if any, in foreign country which shall be borne

and paid by client.

- b) In addition to above Daily allowance, client shall provide the following facilities, free of charge to Consultant:
- i) To and fro air tickets for the sector in economy class, in the form PTA (Pre paid Ticket Advices) for travel. The PTAs shall be made available to Consultant in advance.
- ii) Cost of Visa, airport tax, mediclaim, insurance, excess baggage (such as manuals, documents, samples etc. if applicable).
- iii) For Indian portion of the journey by Consultant specialist during foreign visit, Client shall pay / reimburse as per clause no. 8.2.2 above.
- iv) The above fees / daily allowances to be quoted net of taxes. In the event any taxes, duties or levies of whatsoever nature and description imposed by any Government or any political or other sub-division thereof, are or become applicable to Consultant or any services rendered by, or payments hereunder due to Consultant, all such taxes, duties and levies shall be borne and paid by Client.
- vi) The above fees and man day charges are to be quoted based on exchange rate of Rupees 1 (INR) to US Dollar (Base Exchange rate). If the exchange rate varies on the date of any payment, the amount to be paid by the CLIENT shall be adjusted by the following formula.

Actual amount to be paid (in US \$) = Invoiced amount in US\$ x Rs 69.0 (Assumed)

Actual Rupees equivalent on 1

US\$ on the date of payment

The differential amount shall be adjusted in the subsequent invoice.

9. PAYMENT TERMS

- 9.1 The Total Lump sum Fees as mentioned in Sl. No. 8.1 above shall be payable on progressive Prorata basis against invoices as per the

Sl. No.	Description	Agartala	
		%age of Total Lumpsum Fees	%age of Total Cumulative Fees
1.0	Kick Off Meeting		
1.1	On Kick off meeting and freezing of execution methodology & Parameters	0%	0%
2.0	Engineering		
2.1	Finalization of Basic Engineering Design Basis	10%	10%
2.2	Simulation of Steel Pipelines	10%	20%
2.3	Simulation of MDPE Pipelines	6%	26%
2.4	Issue of CCOE drawing for CNG Stations	7%	33%
3.0	Finalization and submission of tender		
3.1	Finalization and Submission of 12 (Twelve) Number Supply Tenders @ 0.75% per tender	10%	43%
3.2	Finalization and Submission of 03 (Three) Number Works Contract Tenders @ 1 % per tender	5%	48%
4.0	Floating of tenders		

4.1	Finalization and Submission of 12 (Twelve) Number Supply Tenders @ 0.75% per	10%	58%
4.2	Finalization and Submission of 03 (Three) Number Works Contract Tenders @ 1% per tender	3%	61%
5.0	Submission of Price Bid Opening Recommendation		
5.1	Submission of Price Bid Opening (equal progressive payment against each tender)	7%	68%
6.0	Submission of recommendation for order Placement		
6.1	Submission of recommendation for order placement (equal progressive payment against each tender)	9%	77%
7.0	Submission of draft purchase orders / work orders		
7.1	Submission of Draft Purchase Order / Work Order (equal progressive payment against each tender)	3%	80%
8.0	Approval of Drawing / Documents		
8.1	Approval of Vendor Drawings / Documents	5%	85%
8.2	Issue of AFC (Approved for Construction) drawings	15%	100%

9.2 The reimbursement on tour expenses, Monthly charges for camp facilities, man-month & man-day charges, etc. indicated in Sl. No. 8.2 to 8.7 above for visiting personnel of Consultant shall be made against monthly invoices.

9.3 Payment shall be made within 30 days of submission of invoice, payable by an account payee cheque / draft in favour of Consultant or / Electronic Fund Transfer to Consultant's account except the down payment which shall be released along with placement of order.

9.4 In case any package(s) is clubbed in supply tender or included in the composite construction tender then milestone for that package shall be released with the particular milestone of composite tender.

10. OTHER GENERAL TERMS & CONDITIONS

10.1 The fees to be quoted are exclusive of GST and all other taxes, levies, duties, state or central, as on date. Any tax subsequently imposed or variation in the existing tax structure by state or Central Government shall be additionally paid by CLIENT. However, income tax payable by Consultant shall be borne and paid by Consultant.

10.2 Income tax from Consultant's fee shall be deducted at source.

10.3 After placement of order, in the event of any changes, reworking, additions or deletions in the scope of the project, assignment and / or services to be provided and / or time schedule get extended for the reasons not attributable to Consultant, the impact of the same on the fees, terms and conditions and obligations of Consultant towards completion time shall be mutually discussed and settled.

10.4 Any dispute or difference arising out of this work including lose considered as such either party (i.e. Consultant & TNGCL) shall be finally settled under the provisions of the Arbitration and Conciliation act, 1996 and rules framed there under as may be amended from time to time or its re-enactment . The place of Arbitration shall be Agartala and language shall be in English.

SCHEDULE OF RATE

SL No	Particulars	Unit	Quantity	Rate	Amount
1	Lum sum fees for design, engg, procurement and project management services as per scope in tender	Job	1		
2	Consultant personnel per month or part thereof for construction supervision services for facilities mentioned in tender				
i	Engineers level	Month	30		
ii	Manager levels	Month	10		
3	Charges for establishing camp facilities at Tripura as per provision in Tender	Month	40		
4	Charges for inspection, expediting, meeting/discussion with TNGCL /Any third party other than home city of consultant as mentioned in tender				
a	Daily allowance				
i	Engineers level	Days	180		
ii	Manager levels	Days	50		
b	Board, lodging, incidental charges per person per day				
i	In metro & class-A cities	Days	180		
ii	Other cities	Days	50		
5	Charges for inspection, expediting, meeting/discussion with TNGCL /Any third party in home town of consultant as mentioned in tender				
a	Daily allowance				
i	Engineers level	Days	30		
ii	Manager levels	Days	15		
6	Deputation of consultant's specialist abroad / foreign visit in connection with the work as mentioned in tender				
a	Daily allowance	Days	15		
7	Additional tendering charges as mentioned in tender				
a	For work contract	Job	1		
b	For procurement tender	Job	1		

				Sub total	
				IGST @18%	
				Total	

CONSULTANT MANPOWER:

1. The CONSULTANT shall deploy required no. of manpower, qualified and experienced personnel e.g. professional engineers, subordinate engineering personnel, construction supervisors, inspectors and other specialists of appropriate levels to ensure:
 - i. Quality in all stages and aspects as per requirement of codes, standards, specifications and best international practices
 - ii. Timely & expeditious completion of the project
 - iii. Economic project expenses
 - iv. The consultant shall submit the following for approval of the owner after award of agreement
 - v. Schedule of preliminary manning schedule
 - vi. Organization and reporting structure

The manpower of the CONSULTANT shall be on direct payroll of the CONSULTANT & no sub-contracting/ sub-letting is acceptable to TNGCL.

The CONSULTANT shall submit CVs of Project Manager & Site Engineers within 8 working days from the date of LOA/SO for TNGCL approval. TNGCL shall be at liberty to object to any nomination without giving any reason whatsoever and ask Consultant to submit more no of CVs for better candidate for the said positions.

GENERAL:

Language capabilities in English, Hindi & preferably local language, willingness to take on sustained site work, ethics & moral values.

QUALITY:

1. Ensuring and verifying the test certificates and calibration certificates prior to utilization of the equipments/items
2. Inspection of trench dimension to the prescribed standards and its documentation
3. Witness welder qualification test
4. Witness electrode qualification test
5. Witness welding, sand blasting and coating
6. Witness of NDT activities such as UT, MPT & DPT
7. Review/interpretation of RT Films
8. Inspection of lowering and recording pipe no. and length
9. Inspection of bottom padding, top padding and backfilling to the prescribed standard
10. Witness air pigging, hydro test and swabbing
11. Submission of indicative "As Laid Sketch" to EIC
12. Preparation, authorization, checking and counter-signing of inspection reports on daily

Organization Responsibilities, Resources, Standards:

1. Provide sufficient and appropriate manpower, with clear responsibility and reporting structure to ensure that HSE performance is not compromised at any cost.
2. Provide orientation training program for all its employees involved in the work.
3. Implementation of HSE training of contractor personnel.
4. Setting up a mechanism for communication and feedback of HSE issues and performance among its staff on the site and to company representatives.
5. Establishment of an effective structure and schedule for HSE meetings involving all contractor personnel assigned to the work, to promote communications and involvement in HSE matters.
6. Complying with, and shall be able to demonstrate such compliance with
7. Relevant, Health, Safety, Security and Environmental Legislation
8. Company Policies, Procedures and Standards
9. The agency shall:
 - a) Provide written HSE procedure to cover hazardous operations available to all Contractors' personnel and Sub-contractors in their working language.
 - b) Ensure that all of its personnel shall abide by all Health, Safety, Security and Environmental rules of the Company at the site.
 - c) Ensure competency of its personnel in its emergency response procedure through a program of drills and testing.
 - d) Ensure that all tools, appliances, machines, vehicles or other equipment, are in safe working condition at all times.
 - e) Establish an HSE performance monitoring program on site that shall track and report aiming at:
 - f) Training observes from the workforce, keeping a ration of 1 observer/20 workforce
 - g) Systematically observing workforce compliance with the desired behaviors
 - h) Identifying workforce behaviors that have impacts on HSE performance
 - i) Producing numerical ration of safe/unsafe behaviors
 - j) Analyzing and addressing and unsafe behaviors/ trends interface with company's incident investigation and reporting requirements.
10. Provide all inputs and support as company deems necessary to ensure all HSE activities that company initiates are successfully carried out and the actions arising are closed out to company satisfaction.

Other Terms and Conditions:

These services have to be provided as and when required by the company.

1. No other charges except those indicated in the SOR shall be paid.
2. TNGCL reserves the right to disqualify from work any operative nominated by the inspection agency who fails to achieve the required standards. TNGCL may require the agency personnel to undergo periodic reassessment, refresher or update training.
3. Non compliance may lead to stoppage of work / cancellation of contract / forfeiture of security deposit at TNGCL's sole discretion.

4. The successful bidder shall submit to the concerned Project Leader, the bio-data of the technical personnel who shall carry out the services. These technical personnel shall carry out the services only after approval of the Project Leader.
5. The test reports and deviation statements have to be submitted as per standard performa to be provided by TNGCL.
6. Quality of the cloth for the uniform for the Technical Personnel deployed should be same as that of TNGCL uniform. Color can, however, be changed, 1 No. Fluorescent Jacket should also be provided by the agency to all its personnel. All the accessories to be supplied by the agency shall be of good quality and in a workable condition such that the purpose of usage of the safety devices is not defeated.
7. In case the agency personnel fail to deliver the requisite engineering services in time, TNGCL has the liability to deduct the charges from the agency's bill on pro-rata basis.
8. The agency shall be liable for all statutory compliances as required under various laws / enactment / rules / provisions etc.
9. One coordinator shall be deployed by the agency for the requisite number of engineers, whose role will be to resolve day to day problems arising and during the course of contract.
10. It is expected that at peak of project more nos. of Engineers shall be required to be deployed at site for carrying out services as specified in Scope of Work.
11. Safety Accessories:
 - a) Safety shoes – 1 pair
 - b) Safety helmet – 1 no.
 - c) Safety goggles – 1 no.
 - d) Safety gloves – 1 pair
 - e) Ear Muff – 1 no.
 - f) Uniform shirts – 2 nos.
 - g) Fluorescent jackets – 1 no.

Penalties:

1. Engineers shall be provided with PPE's by the Agency and Engineers shall wear PPEs at the site. In the event of non-compliance, penalty of Rs.500/- per engineer shall be levied.
2. In case any appointed PMC engineer leaves from the site, a leave shall be with TNGCL's consent only. If the leave is with TNGCL's consent, then no penalty shall be levied.
3. In case of non-consented leave, a penalty @ two times of the man-day (Man month / 26 days) would be levied subject to maximum of 5% of the total contract value upto the date of a suitable replacement of the substitute.
4. Engaged PMC Engineer should be medically examined from Govt. Doctor (allopathic) before deployment, Medical Fitness report should be submitted to TNGCL before takeover the site, Failing of which a Flat Penalty of Rs.1000.00 shall be deducted from RA Bill until submission of same.
5. Engaged PMC Engineer should be good character, Hence Police Verification report Should be submitted to TNGCL before takeover the site, Failing of which a Flat Penalty of Rs.1000.00 shall be deducted from RA Bill until submission of same.

6. Workmen Compensation And Owner's Liability Insurance should be submitted for the engaged PMC Engineer. Delay of more than 21 days from the date of work order in obtaining / submitting WC & Owners Liability Insurance cover or taken for shorter duration will result into penalty of Rs. 5000/- per week or part thereof.

7. Contractor's failure to submit RPFC challans of previous month along with the bills during the validity of the contract, Owner shall deduct 5% (Five percent) of payable amount from the contractor's running bill and retain the same as a deposit. Such retained amount shall be refunded to contractor on production of RPFC challan / receipt. In case of non-submission of challans for a particular month, a penalty of Rs. 5000 /- shall be imposed for that particular month.

8. In case, the variation between the cost estimate and recommended order value is observed +/- 15% than, TNGCL have every right to deduct 20% of that particular tenders SOR rate.

In case, the variation between the cost estimate and recommended order value is observed to be more than +/-10%, the PMC to provide justification for the same

|
QUALIFICATION & EXPERIENCE OF PERSONNEL:

Position Name : PMC PROJECT MANAGER (One No.)

Purpose of the Job:

1. Manages all activities of the consultant's team.
2. Responsible for the project progress, performance of the Services and management of the personnel to perform the Services with the required quality and progress.
3. Approvals like, AHR items etc.
4. Responsible for reporting to Owner
5. Coordinator to PMC HO
6. Responsible for invoice certifications, settlement of disputes etc.

Qualification, Knowledge & Skills :

1. Minimum Bachelor Degree in Engineering(Mechanical/Civil)
2. Confirmed knowledge of project management, contracting procedures, construction issues, quality assurance etc.
3. Excellent written and verbal communications skills in English.
4. Excellent supervisory and leadership skills; experience in working in a multi-disciplinary environment.

Experience:

1. Minimum experience of sixteen (15) years in CGD or cross Country project.
2. Minimum experience of five (5) years as PMC Project Manager in any major oil or gas projects , supervising team of twenty (20) or more professionals, and with experience in managing multidisciplinary task force. Must have completed at least one Hydrocarbon pipeline project from concept to commissioning.

Position Name: Site-in-Charge

Purpose of the Job: Working level

1. Supervision of site and coordinate with the Client and the contractors to perform the project/ construction and commissioning of the Facilities and in-charge of Quality Control in respect of Performance of Services. He / She will responsible for the control of Quality Assurance and quality control of the project.
2. Supervises HSE during construction and commissioning of the Facilities.
3. Responsible for measurement of work executed.

Qualification, Knowledge & Skills :

1. Minimum Bachelor Degree in Engineering (Mechanical/ Civil)
2. ASNT/ISNT – Level II/III (For steel line)
3. Coating activities shall be supervised and inspected by experienced and competent engineer certified by NACE or equivalent.
4. Good knowledge of Quality Assurance and control methods.
5. Good written and verbal communications skills English.

6. At least one engineer deployed by PMC shall be expert in installation & commissioning of Cathodic Protection Work.

Experience:

Minimum experience of Five (5) years for Graduate Engineer & Eight (8) years for Diploma Engineers in laying underground Steel pipeline carrying hydrocarbon fluids experience.

Policies

Accident or Injury to Workmen The Owner shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the Employment of the CONTRACTOR or any SUB-CONTRACTOR save and except an accident or injury resulting from any act or default of the owner, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the owner 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.

Workmen Compensation And Owner's Liability Insurance:

Workmen Compensation and Owner's Liability Insurance shall be taken by the CONTRACTOR at its own cost covering all its employees who are engaged in the performance of this CONTRACT. If any of the work is sublet, the CONTRACTOR shall require the SUB-CONTRACTOR to provide workman's Compensation and Owner's liability insurance for the latter's employees if such employees are not covered under the CONTRACTOR's Insurance.

The policy shall indicate:

1. Purchase Order / Work Order No.
2. Complete scope of work
3. Site/ location details
4. Details of workmen to be insured
5. Validity period of the insurance coverage

