 MAHARASHTRA NATURAL GAS LIMITED	Corrigendum – I & Reply to bidders queries against Tender for rate contract for the period of 2 years for Operation & Maintenance of Steel Pipeline Network in Pune for CNG & CGD Network of MNGL, Pune Bid No.: MNGL/C&P/2019-20/52
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Date: 02.08.2019

Corrigendum – I & Reply / Clarification to bidders queries

SUB: Corrigendum – I & Reply to bidders queries against Tender for rate contract for the period of 2 years for Operation & Maintenance of Steel Pipeline Network in Pune for CNG & CGD Network of MNGL, Pune

REF: Bid Document No. MNGL/C&P/2019-20/52 dated 28.06.2019 & Addendum –I dated 19.07.2019.

Dear Sir,

Kindly note the following changes:

Corrigendum – I

Sl. No.	Clause No.	Modification
1	Clause No. 4.0 (EVALUATION & AWARD OF WORK)	Clause No. 4.0 (EVALUATION & AWARD OF WORK) of Annexure – I to IFB is modified as under: “Evaluation shall be done as per complete SOR (i.e. on total evaluated price including all taxes & duties). Further, contract shall be divided among two bidders in the ratio of approx. 60 (L1) : 40(L2). In order to do so, the L-2 bidder shall be asked to match the item wise quoted price with that of L-1 bidder. In case the L-2 bidder does not agree for the same, the opportunity shall be given to L-3 bidder and so on.”
2	Schedule of Rate (SOR)	Schedule of Rates (SOR) is revised considering additional items. Revised Schedule of Rates (SOR) is enclosed herewith as Annexure – I.

Reply / Clarification to bidders queries


Sl. No	Bidder's Queries	MNGL's Reply / Clarification
1	CPBG must be 5% of annual contract value as this is ARC contract of Steel network maintenance for two years.	Tender condition prevails
2	Alternatively CPBG equivalent amount should be retained from each RA bills instead of Bank Guarantee.	Accepted
3	As this this is two year ARC contract, 50% CPBG or equivalent amount should be released after one year.	Tender condition prevails



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NATURAL GAS LIMITED**

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Bid No.: MNGE/C&P/2019-20/52**

4	Major work is service type and completes in one go. The Defect Liability Period should be 3 months instead of 12 months.	Tender conditions prevails
5	Scope of work for Hot Tap Support Services should not include following items as it is done by Hot Tap Service provider. a) Supply of welding Consumable. b) Hydro Testing and Hydro Test test Equipment. c) Welding and Welding Generator. d) Hydra / Lifting equipment for installation of Hot Tap Machine. e) Nitrogen.	Welding Consumables alongwith oven etc. will be in Hot Tapping Contractors Scope. For other points, tender conditions prevails
6	Please clarify the scope of fire fighting services to be provided at the time of Hot Tap.	Arrangement of Fire extinguishers & Fire Tenders including any payment & liasioning expenses.
7	As we need to mobilize our complete resources for HOT TAP SUPPORT, Mobilization charges should be applicable for HOT TAP SUPPORT SERVICE.	Bidder to consider the same in Hot Tap Support SOR.
8	Scope of Supply of Nitrogen for Pre - commissioning and Commissioning should not include the SWABBING, Because swabbing is done during Hydro Test.	Tender condition prevails
9	Penalty charges are very high, We advise you to please bring it in power of EIC to practice the same.	Tender condition prevails
10	For Rerouting, Pipeline damage / Pipeline Leakage and Hot Tap we need to liaison with different authorities and locals. Please include SOR for LIAISONING per location.	New SOR for Liasioning included. Please refer Annexure – I for Revised Schedule of Rates (SOR).
11	Please include SOR for RCC PROTECTION TILES and BARRICADES.	New SOR included. Please refer Annexure – I for Revised Schedule of Rates (SOR).
12	During the STEEL VALVE CHAMBER cleaning we may need to rectify the damaged valve chambers if any. Please include SOR for STEEL VALVE CHAMBER RECTIFICATION.	New SOR included. Please refer Annexure – I for Revised Schedule of Rates (SOR).

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13	HOOK UP with existing line is specialized activity and will be done during rerouting or long damaged pipeline section. Please include SOR for HOOK UP.	Included in SOR 15 for re-routing cases, however if only Hook-up needs to be done then SOR no. 15.5 shall be applicable.
14	Scope of Continuous Concrete Coating includes RCC VALVE CHAMBER Construction. Please clarify.	Already covered in Sl. No. 12 above.
15	Maintenance of S V stations.	New SOR included. Please refer Annexure – I for Revised Schedule of Rates (SOR).
16	Maintenance of DRS.	Maintenance upto inlet of DRS shall be in scope of bidder including IJ'S & valve
17	Above ground fabrication or modification in steel Pipeline (Inch Dia fabrications)	Included in SOR item No. 3.0.
18	VII of IFB : Due Date of Submission of Bid & IX of IFB : TECHNO-COMMERCIAL BID OPENING DUE DATE & TIME	Due date of submission of bid is extended upto 09.08.2019, 15:00 hours & techno-commercial bid opening due date is extended upto 09.08.2019 at 16:00 hours.

Please submit the signed & stamped copy of Corrigendum - I & Reply to bidders queries along with tender document with your techno-commercial offer as a token of acceptance.

All the others terms and conditions of the bid documents are unchanged.

With regards.

Ganesh Said
Sr. Manager (C&P)

Name of Work : Rate Contract for the period of 2 years for Operation & Maintenance of Steel Pipeline Network in Pune for CNG & CGD Network of MNGL, Pune

Bid document No. MNGL/C&P/2019-20/52 dated 28.06.2019

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				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
1	Power Spray or by hand painting of pipelines / pipings/ fittings/piping spool/Steel Markers/RCC Markers/ fixtures, vessels and structural steel etc. including , supply of paint and application of 2 coat of high build chlorinated rubber. Poly urethane / zinc phosphate primer of 70 micron each and two coats of finished paint of epoxy paint of golden yellow colour 90 micron each of approved make as per the approved vendor list attached with this tender to give an even shade after proper scraping of existing paint by power brushing or suitable method and clearing of surface free from foreign materials including stencilling of line numbers, pipe tagging, flow direction arrow, other lettering as found condition of pipeline as per instruction of OWNER EIC. Contractor to arrange including all necessary equipment,material (paint etc.), tools & tackels, consumables, transportation, manpower with PPE's.						
1.1	Painting of Exposed P/L Incl.Fix Vessel	Sq. Meter	300				
2	Field pipe / joint coating of different size as mentioned below, with HEAT SHRINKABLE Sleeves / DENSO MAKE/R-95 EPOXY tape at all the weld Joints for underground pipeline & steel valves as per the Owner's specification. The job includes the preparation of trenches for joint coating chamber for steel valve, surface preparation by mechanical cleaning through power brush, primer application, wrapping of tape, edge preparation, holiday test etc. The supply of all consumables, utilities, equipment, and all manpower required, pipe & valve cleaning and surface preparation and testing including all handling, transportation, etc. included in this schedule of item.						
2.1	Cost for supply of R-95 EPOXY	Litre	30				
2.2	Cost for supply of HEAT SHRINKABLE TAPE upto 4" & 6" dia	Sq. Meter	30				
2.3	Cost for supply of HEAT SHRINKABLE TAPE from 10" & 12" dia	Sq. Meter	30				
2.4	Cost for application of R-95 EPOXY	Sq. Meter	20				
2.5	Cost for application of HEAT SHRINKABLE TAPE up to 4 " & 6" dia	Sq. Meter	30				
2.6	Cost for application of HEAT SHRINKABLE TAPE from 10" & 12" dia	Sq. Meter	30				

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(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
2.7	Supply of COLD TAPE & APPLICATION	Sq. Meter	100				
3	Pipe Supports, Valve supports & Other Structures_Supply fabrication and erection of all types of pipe supports like U clamps with sleeves of various sizes (4", 6", 10" and 12") , saddle, guide, stops, cradles, Neoprene sheet, turn buckles, anchors, T posts, stockade/trestle and pipe bridge for overhead piping, frames for canopy, approach ladders and platforms, crossover, cable tray supports etc, including painting suitable for highly corrosive area as per specification labour and supervision & complete work as per drawing, specifications and instructions of Engineer-in-charge (bolts, nuts, washers, u-clamps etc for supporting shall be supplied by the Contractor within the rates quoted. These items will not be measured and paid separately) The work is to be completed in all respect as per scope of work and specification. Each and every item install in existing or new network, TC's & reports shall be submit to the Owner EIC. Contractor to arrange including all necessary equipment, tools & tackels, consumables, transportation, manpower with PPE's.						
3.1	INSTALLATION,SUPPORTS,PIPE, MS	Kg	200				
4	Operation check of Manual/ Hydraulic operated Valves with preventive maint. of valves by manual opening and closing in presence and as per instruction of OWNER EIC - Size from 6" to 12" valves. Contractor to arrange all necessary equipment, tools & tackels, consumables, hydrolic oil, grease, grease gun, ladder transportation, Qualified , Skilled manpower with PPE's etc. (Half yearly)						
4.1	OPERATIONAL,CHECK,MANUAL, HYDRAULIC,VALVE	No.	100				
4.2	OPERATIONAL CHECK AND PREVENTIVE MAINTENANCE OF STEEL SECTIONALIZING VALVE INCLUDING ACUATOR	No.	30				
4.3	Maintenance upto inlet of DRS shall be in scope of bidder including IJ'S & above ground valves	No.	40				

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(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
5	Cleaning & Functional test for under ground isolation valves & Tap-off (Live & future): Periodically manual opening and closing of valves in presence of OWNER EIC. Schedule for the functional testing of valves shall be decided by Owner EIC. If any operational difficulties during the functional test. Greasing of valves of size from 1" to 12" with high pressure Grease for the gear box/ pneumatic/hydraulic Sealant Gun, cleaning of valve chambers, If any damage/missing valve handle same shall be repair or replace on site. Consumables, Grease/Sealant and Grease Gun/pneumatic sealant gun will be in scope of Contractor. Work shall be under the supervision of OWNER's representative then the Owner EIC will give necessary instructions to contractor. - The valve Sizes from 2" to 12" valves. Contractor to arrange all necessary equipment, tools & tackels, consumables, grease, ladder transportation, (i.e. key for gear operated valves which is coupled to shaft & valve handle) manpower with PPE's etc. (Half yearly)						
5.1	OPERATIONAL,CLEANING,CHECK, MANUAL,VALVE 4" to 12" Dia	No.	600				
6	Spray painting of Valves (Plug/Ball & Globe) of different sizes including , supply of paint and application of 2 coat of high build chlorinated rubber / zinc phosphate primer and two coats of finished paint of epoxy paint of golden yellow colour/other colour shade as instructed by OWNER EIC after proper scraping of existing paint by power brushing or suitable method and clearing of surface free from foreign materials to give an even shade after proper scraping of existing paint by power brushing or suitable method and clearing of surface free from foreign materials as per the instructions of OWNER EIC. Contractor to arrange all necessary equipment, tools & tackels, consumables, ladder transportation, manpower with PPE's etc.						
6.1	SPRAY, PAINTING,VALVES <=2" Dia	No.	50				
6.2	SPRAY,PAINTING,VALVES-4" Dia	No.	80				
6.3	SPRAY,PAINTING,VALVES 6"-12" Dia	No.	20				

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(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
7	Schedule of rates for extra works for manpower supply if need incase of Urgency(Additional manpower if required in case of emergency and approved by OWNER EIC) 8 hours=day *Contractor to arrange all necessary equipment, tools & tackels, consumables, ladder, transportation, manpower with PPE's etc.*						
7.1	SUPPLY, EXTRA, MANPOWER, RIGGER	Manday	30				
7.2	SUPPLY, EXTRA,MANPOWER,WELDER	Manday	10				
7.3	SUPPLY,EXTRA,MANPOWER, FITTER	Manday	10				
7.4	Electrician/ Wireman	Manday	20				
7.5	Instrument Technician / Tubing Fitter	Manday	30				
7.6	Helper/Unskilled Labour	Manday	40				
8	HOT Tapping Support Service- Excavation and protection of working pit along with provision of safe entry and exit, supply of 1) 2 welding generator along with helpers 2) hydra crane for loading unloading along with competent operator and cleaner, 3) fitter and Helper for fitting of Hot tap fittings, 4) Water pressurisation pump along with gauges for hydrostatic testing of Hot tap fitting 5) Nitrogen for pneumatic testing of Hot tap Machine assembly 6) Riggers for lifting, installation, loading and unloading of Hot tap Machines and associated equipments, tools tackles, 7) Manpower for deployment at emergency isolation valve 8) Supply of welding consuable along with oven 9) Fire fighting services providing at site. 10) Arranging of the fire extinguishers. 11) Site barricating for hot tapping area. 12) Providing the shed for hot tapping work if needed. 13) providing the lighting arrangement at site.						

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8.1	SUPPLY,SUPPORT,SERVICES,HOT,TAP,<= 6" Dia	No.	2				
8.2	SUPPLY,SUPPORT,SERVICES,HOT,TAP, 10"-12" Dia	No.	2				
9	Cleaning of Casing pipe by air flushing method: Make the provision for air connection on casing vent & drain pipe provided at the casing ends. Flush the casing by the air. Activity shall be done as per the instructions of OWNER EIC. Contractor to arrange all necessary equipment, tools & tackels, consumables, ladder, transportation, manpower with PPE's etc.						
9.1	Cleaning of Casing pipe	No.	5				
10	Anchor fastening for MRS/DRS/CPRS/Odorant Unit etc. (Various Sizes)						
10.1	SUPPLY,INSTALL,FASTENERS, ANCHOR	No.	50				
11	CONTINUOUS CONCRETE COATING (FOR CS PIPES) and Steel Valve Chamber Preparation- -Supply of all consumables, materials and application of 80mm thk for 12" NB & 10" NB Line Pipe and 50 mm thick for 6" NB Line Pipe, continuous concrete weight coating of minimum density 2245 kg/m3 of minimum grade M-20 (nominal mix) and field joints thereof in all areas of work wherever required as per site condition and performing all works as per specification on the line pipe for various sizes and - Preparation of Steel Valve chamber RCC, M20 grade with RCC Heavy duty Covers/Hinged Chequered Plate 6mm thk, and grouted Frame						
11.1	CONTINUOUS CONCRETE COATING (FOR CS PIPES) 4" Dia	Meter	50				
11.2	CONTINUOUS CONCRETE COATING (FOR CS PIPES) 6" Dia	Meter	50				
11.3	CONTINUOUS CONCRETE COATING (FOR CS PIPES)10" Dia	Meter	50				
11.4	CONTINUOUS CONCRETE COATING (FOR CS PIPES)12" Dia	Meter	50				
11.5	STEEL VALVE CHAMBER PREPARATION	Cub. M	20				

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11.6	Supply of RCC heavy duty covers	Sq Meter	25				
12	Steel Pipeline Marker Installation - Supply, fabrication and installation of all types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction in all types of soil, construction of pedestals and grouting with concrete, clearing, supply and application of approved colour and quality of primer and paint, stencil letter cutting for numbers, direction, chainage etc., restoration of area to original condition and performing all works as per drawing, specification and instruction of engineer-in-charge.						
12.1	Pipeline RCC boundary / route marker	No.	1000				
12.2	Pipeline warning markers with post & foundations	No.	80				
12.3	Pipeline warning plate markers with post & foundations	No.	80				
12.4	Pipeline direction marker with post & foundations	No.	80				
12.5	Pipeline KM with post & foundations	No.	30				
12.6	Supply & laying of RCC tiles as per drawing	Meter	3400				
13	Supply and Installation of Scaffolding						
13.1	SUPPLY, INSTALL,SCAFFOLDING	Cub. M	100				
13.2	Supply of Barricading to comply with HSSE	No.	20				
14	Repair by application of Leak Clamps (Work include transportation from MNGL's store to site, team mobilization, tools, application of clamps and other activities if required Work to be completed in all respect)						
14.1	REPAIR,UG, LEAK CLAMP, 4" Dia	Per spot clamp fixing	4				

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14.2	REPAIR,UG, LEAK CLAMP, 6" Dia	Per spot clamp fixing	4				
14.3	REPAIR,UG, LEAK CLAMP, 10" Dia	Per spot clamp fixing	4				
14.4	REPAIR,UG, LEAK CLAMP, 12" Dia	Per spot clamp fixing	2				
15	Re-routing of steel pipe line (one pipe length or more) (Dia 4" , 6" , 10" , 12") Re-routing of steel pipe line by Transportation, loading, unloading of the line pipes to the site, excavating the trench for new pipe line laying, dewatering and cleaning of pit or trench, Welding the section for re-route, NDT, DPT, joint coating holiday testing, laying, cleaning pipe by foam pigging, hydrotesting of pipes, closing the valves of both sides of the work place. if the tapping in between the section same to be close. venting the natural gas of the section, Nitrogen purging, barricating the site with sign boards, cutting the line from both ends of existing pipeline, surface and bevel preparation, DP checking and welding the pipe with the new section, NDT(Radiography,UT,) MPT coat and wrap for golden joints, Holiday testing, laying of warning mat and back-filling the same etc. Drying of the section if required. Contractor to carry out all the activities involved in Pre- commissioning and commissioning of the complete section work as directed by OWNER EIC. Contractor to arrange all necessary equipment, pipe line fittings, consumables, manpower with PPE's, Fire extinguishers, Fire fighting services of local corporation as required etc to complete the job. After Completion of the job all related documents to be submitted. Job shall be carried out as per ASME B 31.8/ API 1104. Transportation, Pneumatic testing, Nitrogen Purging, Hydrotesting, Flushing, Swabbing, Drying and NDT etc. N2 as required is in the scope of the contractor. (Work to be completed in all respect as per the satisfaction of MNGL)						
15.1	4" Dia REPAIR,REPLACE,UG PIPE LENGTH	Meter	1000				
15.2	6" Dia REPAIR,REPLACE,UG PIPE LENGTH	Meter	1200				
15.3	10" Dia REPAIR,REPLACE,UG PIPE LENGTH	Meter	1000				
15.4	12" Dia REPAIR,REPLACE,UG PIPE LENGTH	Meter	200				
15.5	Liasioning	Meter	3400				

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15.6	Hook Up of steel line 12",10",6",4" & 2"	No.	5				
16	Replacement of Damaged under ground pipeline by new pipe: Transportation, loading / unloading of the line pipes to the site, barricating the site with sign boards, hydrotest of pipes, Dewatering & drying the section, excavating the trench for finding out the leakage in the existing line burst portion of point,dewatering and cleaning of pit or trench, and to make it free from fire/ accident etc., cutting the line from both ends (up to one pipe length item, approx 12 mtr or part thereof shall be treated as one job), surface and bevel preparation, DP checking and welding the pipe of the required length on the line, NDT(Radiography,UT,) MPT coat and wrap, Holiday testing, laying of warning mat and back-filling the same etc. Contractor to carry out all the activities involved in Pre- commissioning and commissioning of the complete section work as directed by OWNER EIC. Contractor to arrange all necessary equipment, pipe line fittings, consumables, manpower with PPE's, Fire extinguishers, Fire fighting services of local corporation as required etc to complete the job. After Completion of the job all related documents to be submitted. Job shall be carried out as per ASME B 31.8/ API 1104. Transportation, Pneumatic testing, Nitrogen Purging, Hydrotesting, Drying and NDT etc. N2 as required is in the scope of the contractor.						
16.1	REPLACEMENT,PIPE,UG,2" Dia	Meter	12				
16.2	REPLACEMENT,PIPE,UG,4" Dia	Meter	24				
16.3	REPLACEMENT,PIPE,UG,6" Dia	Meter	24				
16.4	REPLACEMENT,PIPE,UG,10" Dia	Meter	36				
16.5	REPLACEMENT,PIPE,UG,12" Dia	Meter	12				
17	Mobilization charges shall be applicable only cases were equipment deployment/fabrication mainly categorized in below mentioned three categories. 1) Steel pipe line damage 2) Pipeline reroute 3) casing job						

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17.1	RESOURCE MOBILIZATION AT SITE-STEEL PL DAMAGE/PL REROUTING/CASING	Each	2				
18	Replacement of steel valves (Flange End) (Inclusive of Control and actuator valves) of various sizes in piping system including blind removal providing temporary supports if necessary, nut bolt loosening / tightening, gasket insertion and torque setting with all tools/tackles/manpower etc. of valves sizes, Hydra and other lifting equipment inclusive of scaffolding arrangement at site if required. Contractor to arrange including all necessary equipment, tools & tackels, consumables, transportation, manpower with PPE's. Dismantling of piping spool along with flanges from line for various pipe sizes and putting blind including nut bolt removing & handling with all tools / tackles / manpower/machinery etc and stacking all within radius of 250Mts as per OWNER EIC instructions.						
18.1	INSTALL, VALVE, STEEL, <=1"NB	No.	10				
18.2	INSTALL, VALVE, STEEL, 2"NB	No.	4				
18.3	INSTALL, VALVE, STEEL, 4"NB	No.	5				
18.4	INSTALL, VALVE, STEEL, 6" & 10"NB	No.	5				
18.5	INSTALL, VALVE, STEEL, 12"NB	No.	2				

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(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
19	Replacement of steel valves (Butt Welded) :- Valve replacement which is installed on steel pipe line network Activity shall be carried including transportation, loading, unloading of the valve to the site, excavating the trench for new valve installation, dewatering and cleaning of pit or trench, Welding the section for valve assembly, NDT, DPT, joint coating holiday testing, laying, cleaning section by pneumatic pressure, hydrotesting of valve assembly, closing the valves of both sides of the work place. if the tapping in between the section same to be close. venting the natural gas of the section, Nitrogen purging, barricating the site with sign boards, cutting the line from both ends of existing pipeline/valve section, surface and bevel preparation, DP checking and welding the pipe with the new section, NDT(Radiography,UT,) MPT coat and wrap for golden joints, Holiday testing, laying of warning mat and back-filling the same etc. Drying of the section if required & construction of valve chamber by RCC Grade M:20 (water proof Chamber) . Contractor to carry out all the activities involved in Pre- commissioning and commissioning of the complete section work as directed by OWNER EIC. Contractor to arrange all necessary equipment, pipe line fittings, consumables, manpower with PPE's, Fire extinguishers, Fire fighting services of local corporation as required etc to complete the job. After Completion of the job all related documents to be submitted. Job shall be carried out as per ASME B 31.8/ API 1104. Transportation, Pneumatic testing, Nitrogen Purging, Hydrotesting, Flushing, Swabbing, Drying and NDT etc. N2 as required is in the scope of the contractor.						
19.1	INSTALL,VALVE,STEEL,<=1"NB	No.	10				
19.2	INSTALL,VALVE,STEEL,2"NB	No.	4				
19.3	INSTALL,VALVE,STEEL,4"NB	No.	5				
19.4	INSTALL,VALVE,STEEL,6" & 10"NB	No.	5				
19.5	INSTALL,VALVE,STEEL,12"NB	No.	2				
20	Supply of 150 /300 Class Sprial wound Gasket (Inner & Outer SS)						
20.1	SUPPLY,GASKET,SPIRAL,WOUND,150-,<=2" Dia	No.	30				
20.2	SUPPLY,GASKET,SPIRAL,WOUND,150-,4" Dia	No.	30				

Name of Work : Rate Contract for the period of 2 years for Operation & Maintenance of Steel Pipeline Network in Pune for CNG & CGD Network of MNGL, Pune

Bid document No. MNGL/C&P/2019-20/52 dated 28.06.2019

Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
20.3	SUPPLY,GASKET, SPIRAL,WOUND,150-,6" Dia	No.	20				
20.4	SUPPLY,GASKET, SPIRAL,WOUND,150#-,8" Dia	No.	5				
20.5	SUPPLY,GASKET, SPIRAL,WOUND,150-,10" Dia	No.	20				
20.6	SUPPLY,GASKET, SPIRAL,WOUND,300#-,10" Dia	No.	30				
20.7	SUPPLY,GASKET, SPIRAL,WOUND,150#,12" Dia	No.	10				
21	Supply and replacement of Damaged End seal (for Casing Pipe) 18"						
21.1	SUPPLY,REPLACEMENT,CASING, END,SEAL	No.	10				
22	Excavation of Built up surface/Hard Rock/Asphalt Surface/concrete road for U/G steel pipeline / Hot Tap or shutdown activity on steel network Excavation by Man or Machine Providing Shuttering to entire Pits Providing Hard Barricading to entire Pit Shifting of Soil from site. Backfilling is also to be done if required						
22.1	EXCAVATION, MUDDY SOIL,MANUAL/M/C, Backfilling (if required)	Cub. M	50				
23	FABRICATION & LONGITUDINAL WELDING OF CASING PIPE AS PER DRAWINGS / DESIGN Material Issue, Collection TC from MNGL, Transportation, Offering TC to TPIA for Review & Reconciliation Providing all the Machinery like lifting & welding, Tools Tackles & Consumables at Site for Cutting, Grinding, Bevelling, Fit Up, Welding & Repairing Longitudinal Cutting pipe to Required length Grinding, Matching ID, Bevelling, DPT, Fit Up & Welding Pipeline insulator shall be provided for carrier pipe. Preparation and get approval of as built drawing Contractor to arrange all necessary equipment, tools & tackels, consumables, ladder, transportation, manpower with PPE's etc.						
23.1	FAB, LONGITUD, WELD, CASING, <= 9.5MM	Meter	30				
24	Weld Neck (B-16.5, 150# A105, Serrated finish)						

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				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
24.1	12" NB, RF End thickness to match with pipe wall thickness	No.	5				
24.2	10" NB, RF End thickness to match with pipe wall thickness	No.	5				
24.3	6" NB, RF End thickness to match with pipe wall thickness	No.	5				
24.4	4" NB, RF End thickness to match with pipe wall thickness	No.	5				
24.5	2" NB, RF End thickness to match with pipe wall thickness	No.	3				
24.6	1" NB, RF End thickness to match with pipe wall thickness	No.	3				
25	Blind Flanges (B-16.5, 150# A105, Serrated)						
25.1	12" NB, RF End thickness to match with pipe wall thickness	No.	5				
25.2	10" NB, RF End thickness to match with pipe wall thickness	No.	5				
25.3	6" NB, RF End thickness to match with pipe wall thickness	No.	5				
25.4	4" NB, RF End thickness to match with pipe wall thickness	No.	5				
25.5	2" NB, RF End thickness to match with pipe wall thickness	No.	3				
25.6	1" NB, RF End thickness to match with pipe wall thickness	No.	3				
26	Elbow (Seamless) 90° Elbow (A234 Gr. WPB, B-16.9, 1.5D)						
26.1	12" NB Sch. Std.	No.	10				
26.2	10" NB Sch. Std.	No.	30				
26.3	6" NB Sch. Std.	No.	30				

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Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
26.4	4" NB End thickness to match with pipe wall thickness	No.	30				
26.5	2" NB Sch. 80	No.	10				
26.6	1" NB SW, 3000#	No.	5				
27	Elbow (Seamless) 45° Elbow (A234 Gr. WPB, B-16.9, 1.5D)						
27.1	12" NB Sch. Std.	No.	20				
27.2	10" NB Sch. Std.	No.	20				
27.3	6" NB Sch. Std.	No.	20				
27.4	4" NB End thickness to match with pipe wall thickness	No.	15				
27.5	2" NB Sch. 80	No.	10				
27.6	1" NB SW, 3000#	No.	5				
28	Elbow (Seamless) 90° Elbow (A234 Gr. WPB, B-16.9, R= 3 D)						
28.1	12" NB Sch. Std.	No.	15				
28.2	10" NB Sch. Std.	No.	15				
28.3	6" NB Sch. Std.	No.	15				
28.4	4" NB End thickness to match with pipe wall thickness	No.	15				

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Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
28.5	2" NB Sch. 80	No.	5				
28.6	1" NB SW, 3000#	No.	5				
29	Elbow (Seamless) 45° Elbow (A234 Gr. WPB, B-16.9, R= 3 D)						
29.1	12" NB Sch. Std.	No.	15				
29.2	10" NB Sch. Std.	No.	15				
29.3	6" NB Sch. Std.	No.	15				
29.4	4" NB End thickness to match with pipe wall thickness	No.	15				
29.5	2" NB Sch. 80	No.	5				
29.6	1" NB SW, 3000#	No.	5				
30	Elbow (Seamless) 22½° Elbow (A234 Gr. WPB, B-16.9, R= 3 D)						
30.1	12" NB Sch. Std.	No.	15				
30.2	10" NB Sch. Std.	No.	15				
30.3	6" NB Sch. Std.	No.	15				
30.4	4" NB End thickness to match with pipe wall thickness	No.	15				
30.5	2" NB Sch. 80	No.	5				

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Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
30.6	1" NB SW, 3000#	No.	5				
31	Tees (Seamless) Equal Tee/Unequal Tee (A234 Gr. WPB, B16.9)						
31.1	12" NB x 12" NB x 12" NB Sch. Std.x Sch. Std.	No.	3				
31.2	12" NB x 12" NB x 10" NB Sch. Std.x Sch. Std.	No.	5				
31.3	12" NB x 12" NB x 6" NB Sch. Std.x Sch. Std.	No.	5				
31.4	12" NB x 12" NB x 4" NB End thickness to match with pipe wall thickness x Sch.80	No.	5				
31.5	10" NB x 10" NB x 10" NB Sch. Std.x Sch. Std.	No.	5				
31.6	10" NB x 10" NB x 6" NB Sch. Std.x Sch. Std.	No.	5				
31.7	10" NB x 10" NB x 4" NB Sch. Std.x Sch. XS	No.	5				
31.8	6" NB x 6" NB x 6" NB Sch. Std.x Sch. Std.	No.	5				
31.9	6" NB x 6" NB x 4" NB Sch. Std.x Sch. XS	No.	5				
31.10	4" NB x 4" NB x 2" NB End thickness to match with pipe wall thickness x Sch.80	No.	5				
32	Reducer Reducer (A234 Gr. WPB, B16.9)						
32.1	12" NB x 10" NB End thickness to match with pipe wall thickness	No.	2				
32.2	12" NB x 6" NB End thickness to match with pipe wall thickness	No.	2				

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Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
32.3	10" NB x 6" NB End thickness to match with pipe wall thickness	No.	5				
32.4	10" NB x 4" NB End thickness to match with pipe wall thickness	No.	5				
32.5	6" NB x 4" NB End thickness to match with pipe wall thickness	No.	2				
32.6	6" NB x 2" NB End thickness to match with pipe wall thickness	No.	2				
32.7	4" NB x 2" NB End thickness to match with pipe wall thickness	No.	5				
33	Weldolet and Sockolet Weldolet (A 234 Gr. WPB, BW)						
33.1	12" NB x 4" NB Sch. Std.	No.	3				
33.2	12" NB x 2" NB Sch. Std.	No.	3				
33.3	10" NB x 4" NB Sch. Std.	No.	5				
33.4	10" NB x 2" NB Sch. Std.	No.	3				
33.5	6" NB x 2" NB Sch. Std.	No.	3				
33.6	4" NB x 2" NB Sch. Std.	No.	3				
34	Butt Weld Disc End Cap (A234 Gr. WPB, B16.9)						
34.1	12" Dia 150#	No.	3				

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Item No.	Description of item	Unit	Qty	Name of Bidder :			
				Unit rate inclusive of all taxes & duties except GST (Rs.)	Per Unit Goods & Service Tax (GST) @ % (Rs.)	Unit rate inclusive of all taxes & duties including GST (Rs.)	Total Amount inclusive of all taxes & duties including GST (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)+(6)	(8)=(4)X(7)
34.2	10" Dia 150#	No.	5				
34.3	6" Dia 150#	No.	5				
34.4	4" Dia 150#	No.	5				
35	Supply of Nitrogen (With tubings, N2 regulator and fittings etc.)						
35.1	N2 Cylinders (7 Cub. Meter)	No.	200				
35.2	Cubic Meters (Liquid Nitrogen)	Cub. M	2000				
	Note : The quantities indicated above against all individual item are tentative and may vary considerably depending upon site condition, methodology adopted as per site requirement with due approval of Owner/ Consultants.						
	General Note : 1 All SOR item shall be quoted by the bidder in the price part of the bid other-wise bid will be rejected. 2 All Bidders are requested to refer Scope of Work before filling the price against each item of above SOR. 3. Prices quoted shall be inclusive of all taxes/duties and nothing extra shall be payable by the owner except for statutory variation in Goods & service tax rate during the contractual period.						
	Gross Total Amount inclusive of all taxes and duties including Goods & Service Tax (in figures)						
	Gross Total Amount inclusive of all taxes and duties including Goods & Service Tax (in words)						

Place :
Date :

Signature of Authorised
Name :
Designation :
Seal :