

TRACTEBEL Engineering GDF SUEZ		CORRIGENDUM # 2 LAYING OF COATED STEEL LINE PIPE AND ASSOCIATED WORKS TENDER DOCUMENT NO. P.002062 G09 5022				Date: 18.11.2011 Project: CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE II Owner: BHAGYANAGAR GAS LTD (BGL)
Sr. No.	Description	Tender Page No.	Clause/ Para/ Section	Amendment/ Addition/ Modification/ Deletion		Remarks
Vol I of IV		COMMERCIAL				
1	Details of Bid Documents- Bid submission date.	100017	IFB Cl. no. 7.5	Modification	Please read the clause as " Bid Submission date & time as Upto 1430Hrs(IST) on 29.11.2011"	
2	Details of Bid Documents- Un-priced bid opening date	100017	IFB Cl. no. 7.6	Modification	Please read the modified clause as " Un-priced bid opening date and time as at 1500 Hrs(IST) on 29.11.2011".	
3	List of Minimum Equipment Requirement- Appendix -1 of SCC	100106	Appendix-1	Modification	Updated Appendix - 1 (Revised) is attached herewith.	
4	Schedule of Rates	100127 to 100147	SOR	Modification	Revised SOR attached herewith. Bidder to submit prices in this SOR only.	
5	Penalties	100103	Penalties, Clause No 36.3	Modification	Please read the modified clause as Non compliance to clause 36.1 shall attract penalty of Rs. 100/metre.. Any subsequent instance against Clause No 36.1 & 36.2 shall attract penalty of Rs. 5000.00 per instance with a notice to contractor. Subsequent non-compliance within 5 days shall lead to a deduction of upto 5% from RA bill at the discretion of the EIC and may also lead to black listing of the contractor for future jobs	
		TECHNICAL				
6	Volume III of IV	300014	Design Basis- Civil/ Structural Clause no. 11.1	Modification	Please read the clause as "The RCC valve chamber shall be provided with removable cover with suitable lifting arrangement; Cover shall be of RCC pre-cast slab."	

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7	Volume IIA of IV	200026	Vendor list	<p>The following vendors for the following items are added in the Vendor list:</p> <ul style="list-style-type: none"> • For Welding Electrodes <ol style="list-style-type: none"> 1. ESAB 2. D&H, New Delhi 3. Bohler • For TCP & PCP Works <ol style="list-style-type: none"> 1. Corrosion Control Pvt Ltd, Mumbai 2. Raychem RPG Ltd, New Delhi 3. Corrtch International Pvt Ltd, Ahmedabad • For Insulation Joints <ol style="list-style-type: none"> 1. IGP Engineers Pvt Ltd, Chennai, 2. Alfa Engineers Srl, Italy, 3. Prochind, Italy 4. Zunt Italiana, Italy 	
8	Volume III of IV	300036	PTS- CP, Clause No 14.2	<p>Please read the Clause as</p> <p>14.2 Impressed Current Cathodic Protection (ICCP)/Permanent Cathodic Protection (PCP)</p> <p>"Anode beds to be installed at every CP Station and located approximately minimum 100 M (or at a distance as per remoteness calculations) away from pipeline ROW. All [MMO] LIDA tubular Anodes to be placed in Petroleum coke breeze, in vertical or deep well configuration only as per design to achieve requisite circuit resistance and protective Current output throughout the [40 years] service life.</p> <p>The [MMO] LIDA anode should be supplied with sufficient length of 10 mm² XLPE PVC cable so as to run up to junction box without in between joints for termination in the junction box. No joints are permitted in cable run from Anode tail to junction box. This cable size is minimum only and wherever necessary for appropriate operation of the CP system higher sized cables [16 mm², 25 mm²] should be provided.</p> <p>Appropriate tamping of carbonaceous backfill (petroleum coke breeze) should be done so as to ensure appropriate compaction around (MMO) anodes.</p> <p>Anode Ground Bed Plot: CP contractor shall make available a plot of land, measuring (minimum) 8M X 8M approximately 100 M away from pipeline ROW for locating anode bed, at each Anode bed location along the pipeline ROW, as well as passage for laying anode cable up to [AJB]. CP Contractor to indicate the location of anode beds along pipeline ROW, to make fencing around the anode bed and put cable route markers (embedded in the concrete structure) along with cable warning mat prior to handing over the requisite ownership documents for acquired plot and cable laying passage, to Owner, at the time of Handing over of the [ICCP/PCP] system. Plot size to be as per Anode bed Design requirement .Cost of Land Acquisition for TRU and Anode Bed will be reimbursed by BGL at Government approved rates."</p>	

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APPENDIX- 1 (Revised)

List of Minimum Equipment Requirement at site for one spread		
Sl. No.	Description	Revised Qtys. (In Nos.)
1	JCB	1
2	EXCAVATOR /BACK HOE-Ex 200/300/EQUIVALENT	2
3	WELDING MACHINES with double welding holders	2
4	AIR COMPRESSOR - (900 -1100 CFM)	0
5	TYRE MOUNTED CRANE (30 TON) FOR STATION PREFABRICATION WORK AND ERECTION	1
6	HYDRA (Capacity 12 T)	3
7	AIR COMPRESSOR - (300-600 CFM)	2
8	D.G. SETS : 40 KVA (Inclusive of Generators)	2
9	INDUCTION/RESISTANCE HEATING EQUIPMENT/MULTI TORCH INTERNAL BURNER	2
10	DG WELDING MACHINES with double welding holders	6
11	BLAST CLEANING MACHINE	2
12	X-RAY M/C - INTERNAL CRAWLER	0
13	X-RAY M/C - EXTERNAL CRAWLER	1
14	GAMMA SOURCE	1
15	PIPE CLAMP - Pneumatic Internal max. 12"	2
16	PIPE CLAMP -EXTERNAL 12"	2
17	MANUAL UT MACHINE	1
18	PRESSURIZATION PUMP - MOTORIZED	1
19	WATER TANKS	2
20	HOLIDAY DETECTOR UNIT	2
21	FILLING PUMPS(400 TO 1000 M3/HR)	1
22	DOZING PUMP	1
23	DEAD WT TESTER WITH HYDROTEST CABIN	1
24	PIPE TRAILER FOR COATED LINE PIPES	2
25	TRUCKS	2
26	TORQUE WRENCH-For Station	1

Note:

If Bidder is quoting for both Spread #A & Spread #B then they have to meet these requirements separately for both the Spreads.

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SCHEDULE OF RATE(Revised)
FOR SPREAD - A(BHODURPALLY TO BEGUMPET RAILWAY STATION)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

Currency : INR

Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document
				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)			(6)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE ALONG WITH 125mm dia MDPE Pipe along with 12" NB Steel pipe length only & 50mm diameter HDPE Pipe AS PER TENDER SPECIFICATION							
1	<p>Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied materials like 3 - Layer PE coated line pipes of 12", 6" & 4" NB sizes, 125mm diameter MDPE pipe to be laid along with 12" NB dia Steel pipe only , Ball valves of sizes 12", 6" & 4" from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites .</p> <p>Carrying out preliminary activities, preparation of drawings, if required for crossings etc. including handling, stacking, stringing on the pipeline Right-of-use / pipeline route , carrying out inspection of company supplied materials including line pipes at the time of taking over, laying / installation of coated line pipe,and other free issue materials.</p> <p>Executing all works, "taking over", handling, including loading and unloading, transportation of Owner supplied materials from Owner's designated place(s) of issue to work site, arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, procurement and supply of all materials (except Owner supplied materials), consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for commissioning of pipeline as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works:</p> <p>Staking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, liasioning and fulfilling all the requirements of various statutory / environment authorities to the entire satisfaction of concerned authorities, grading of work area, Shifting of all obstruction within the ROU/ pipeline route alignment viz electrical lines/poles, telephone lines/poles, co-ordination with concerned authorities</p> <p>Trenching to all depths by excavation in all types of soils including soft soil, chiseling or otherwise cutting different types of pavement, footpath, roads etc. As required and storing excavated soil, reusable materials at designated area as directed by Owner/ Owner's Representative and to a width to accommodate the pipeline as per relevant standard/ specifications etc. (The minimum depth of the top of pipeline shall be as per Bid document. Dewater of trenches if required as per site condition. Making trial pits as per instructions of EIC</p> <p>Carrying out repairs of Steel and MDPE pipe defects/replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects / damages occurring during transportation/handling.</p> <p>Checking, cleaning, aligning, bending, cutting and beveling (as required) of pipes for welding steel and MDPE pipes and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography and providing all requisite equipment, labor, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of welds joints found defective by Owner/ Owner's Representative, carrying out re-radiography and other tests as required on repaired joints. Providing PE warning mat over the pipeline etc.</p> <p>Carrying out installation of carrier pipe (Steel & MDPE) at all crossings like roads/nallas/ Cannals etc. at designated depths by open cut (except at cased crossings or crossings carried out by HDD method).</p> <p>Carrying out installation of carrier pipe in the casing pipe at cased crossings (excluding installation of casing pipes which is covered separately).</p> <p>Coating of field weld joints, long radius bends, buried fittings & valves etc. including supply of coating materials duly approved by owner etc as per specification.</p> <p>Counting the number and type of trees cut in presence of DFO/concerned authorities and keeping record thereof, stacking and handing over of all cut trees.</p> <p>Supply & Installation/ lowering the pipeline in trench to required depth, placement of 1.0 mm thickness MDPE yellow color warning mat over the pipeline along the complete route, padding around pipeline with suitable approved soil including supply of padding material, backfilling with available/ borrowed earth, approved excavated material and/ or other suitable soil by crowning. Compaction with jumping jack compactor and water at subsequent layers of 150mm or as directed by Owner/ Owner's Representative. All tiles / slabs/ curb stones etc. removed during excavation shall be placed properly. Roads, pavements, footpaths, etc. to be made motorable wherever pipeline is laid.</p> <p>Supply and installation of slope breakers, bank protection wherever required and as directed by Owner / Owner's Representative.</p>						

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SCHEDULE OF RATE(Revised)
FOR SPREAD - A(BHODURPALLY TO BEGUMPET RAILWAY STATION)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

Currency : INR

Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document
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	Carrying out air cleaning, pigging, flushing, cleaning and hydrostatic testing of complete pipeline for steel and pneumatic testing for MDPE pipeline with quantity of corrosion inhibitor including pre-testing of designated sections complete as per specification and approved by Owner/ Owner's Representative to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps, fittings, instruments, dead weight tester, pressure recorder, thermocouples etc., and services, supervision, labor, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor (rectification of defects in linepipe material not attributable to contractor shall be paid separately as per schedule of rate), re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Owner/ Owner's Representative.						
	All tie-in, including the tie-ins with adjacent section of the steel pipeline.						
	Protective coating of 450 micron thick two component epoxy (applied with the help of minimum three coats) including supply of materials duly approved by owner for all piping, Valves, fittings, structural steels etc. for buried installation and inside the valve pit.						
	Final clean - up and restoration of right -of -use and disposal of debris and surplus material to designated disposal areas and re-instating the area to its earlier state and as directed by Owner/ Owner's Representative.						
	Precommissioning activities like swabbing, drying of the complete pipeline network and the associated facilities being installed to the specified acceptance criteria as per Owner/Owner's Representative and as per Bid documents.						
	Purging with nitrogen (Including supply) and Commissioning of complete pipeline network including supply of all equipment, machinery, consumables, tools and tackles, manpower, etc., as per specification, provisions of bid document and instructions of Owner/Owner's Representative						
	Maintaining the completed pipelines/ installation for any defect, failures during defect liability period (i.e. 12 months from date of commissioning of Pipeline).						
	Ensuring proper safety codes & practices during construction, cordoning off the work area, providing warning signs, barricading and proper tools & tackles, Equipping the workers with safety boots, helmets and florescent aprons & barricading as per enclosed drawings. The barricading is to be done throughout along the trench/ welding string.						
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. The pipeline laying shall be done as per specification, code & standard & guideline by Owner/ Owner's Representative.						
	Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 3 sets of as - built drawings and 1 soft copy and 6 copies of pipe book.) All the works shall be executed in accordance with the provision of contract including carrying out all temporary/ancillary/ auxiliary works required of the performance of the works and all other acts, deeds, matters and things necessary to make the pipeline ready for pipe commissioning activities.						
	Specified NB (inch)	Thk in mm (inch)					
a)	12"	7.1 (0.279")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	15000		
b)	6"	6.4 (0.252")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	2000		
c)	4"	6.4 (0.252")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	2000		
d)	Excavation Charges in case of Rocky area (this rate will be considered in case of laying of pipe in Rocky area and amount will be calculated based on the actual excavation done for laying of line pipe)			Cu m	1000		

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		(1)	(2)	(3)		(4)	(5)
e)	MDPE Laying (In the same trench of Steel) including installation of MDPE Ball Valves 125mm diameter (free issued by Owner) ,Pneumatic Testing of 125mm diameter MDPE Pipe(free issued by Owner) & MDPE Valves (free issued by Owner) along with supply of all MDPE Fittings (to be procured by Contractor) of 125mm dia size, elbows wherever required (to be procured by the Contractor) as per Tender Specifications.	m	15000				
1.2	Supply of Sand/ Stone dust used for restoration with proper water padding to restore crossings wherever applicable to the requirements of the concerned Authority	Cu m	1000				
	Note:						
	1. This item shall be applicable for the pipeline, fittings, accessories, valves etc. between existing / proposed underground tap off points from existing steel main grid to I.J. for U/G portion						
	2. For restoration of concrete roads, the item for construction of asphalted top/concrete top/red stone shall be paid separately.						
	3. All crossing works by HDD / Moling / cased crossings shall be paid separately as per the rates quoted for the same elsewhere in the SOR. However the rate for preparing the carrier pipe string ready for pulling in case of moling / cased crossing is inclusive in this SOR.						
1.3	Pipeline laying liaisoning from the statutory authorities.						
	All necessary liaison, coordination and compliances as per permissions/work permits/authorization from the authorities having jurisdiction during actual execution of work, co-ordination with other contractor and obtaining No Objection Certificate from them.	m	19000				
2	Preparation of string to make ready for HDD pulling (For without casing pipe) in rocky/soft soil :						
	Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied 3 - Layer PE coated line pipes & 125mm diameter MDPE pipes from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites including preliminary activities, carrying out inspection of owner supplied materials (3LPE coated line pipe) at the time of taking over and supply of all materials (except 3LPE coated line pipe) consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for HDD pulling as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works: Preparation, welding, radiography, coating field joints with special type heat shrinkable sleeves (Direx) pretesting of completed carrier pipe and making the string ready for pulling of HDD and welding of entry & exit point of HDD with mainpipeline . Pre installation hydrotesting including leaks and repair of defects and retesting etc. for defects attributed to contractor's faulty work Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 6 sets of as - built drawings and 1 soft copy and 3 copies of pipe book.)						
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. The pipeline stringing shall be done as per specification, PNGRB Guidelines,code & standard & guideline by Owner/ Owner's Representative.						
a	12"	m	120				
b	6"	m	84				
c	4"	m	84				
3	Supply & Installation of Casing pipe :						

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		(1)	(2)	(3)			(6)
3.1	Road Crossing :-						
a	24" NB Carbon steel casing pipe for 12" diameter Carrier pipe (Thrust Boring Method)	m	72				
b	10" NB Carbon steel casing pipe for 6" & 4" diameter Carrier pipe (Thrust Boring Method)	m	48				
c	200 mm HDPE casing pipe for 125MM dia MDPE Carrier pipe (Thrust Boring Method)	m	72				
3.2	Rail Crossing :-						
a	18" NB Carbon steel casing pipe for 12" diameter Carrier pipe (Thrust Boring Method)	m	84				
b	10" NB Carbon steel casing pipe for 6" & 4" carrier pipe (Thrust Boring Method)	m	48				
	Note:						
	1.Payment shall be based on the actual length of Cased crossings						
	2. Casing end seals, casing insulators, Vent & drain connections are to provided by the contractor.						
	3. Above Rate for this SOR item no. 3.1 & 3.2 for steel pipeline is not inclusive of carrier pipe string preparation (welding, NDT,Pretesting, coating, Hydrotesting, Precommissioning etc.). These works shall be paid as per SOR item no. 1						
	4. Contractor shall procure the carbon steel casing pipe as per specifications attached in bid document..						
	5. HDPE Casing supply cost is in the Bidder's scope of supply.						
4	Installation of carrier pipe (without casing pipe) at crossings in rocky/soft soil :						
	Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied 3 - Layer PE coated line pipes from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites including preliminary activities, carrying out inspection of owner supplied materials (3LPE coated line pipe) at the time of taking over and supply of all materials (except 3LPE coated line pipe) consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works: Site Preparation, welding, radiography, coating field joints with special type heat shrinkable sleeves (Direx) pretesting of completed carrier pipe and making the string and welding of entry & exit point of HDD/boring with mainpipeline. Post installation of hydrotesting including leaks and repair of defects and retesting etc. for defects attributed to contractor's faulty work Hydrotesting with mainpipeline and precommissioning activities like swabbing, drying to the specified criteria as per owner/owners representative. Purging with nitrogen (Including supply) and Commissioning of complete pipeline network including supply of all equipment, machinery, consumables, tools and tackles, manpower, etc., as per specification, provisions of bid document and instructions of Owner/Owner's Representative. Final dossier all notes & calculations as required in the specification. Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 6 sets of as - built drawings and 1 soft copy and 3 copies of pipe book.)						
	Installation of Crossings of carrier pipes by HDD / open cut/Moling methods for Road, Nala and unlined Canal crossings etc wherever required in all types of soils and terrain, including laying of 2 nos. HDPE telecom duct & all associated works including supply of all other materials, equipment, consumables, manpower, jointing of HDPE Telecom Duct including visual inspection of all Weld Joints/HDPE Joints, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Owner/ Owner's Representative, PNGRB Guidelines, codes & Standards and provisions of contract document.						

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		(1)	(2)	(3)			(6)
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. It shall be done as per specification, PNGRB Guidelines, code & standard & guideline by Owner/ Owner's Representative.						
a	Installation of 12" NB PE Coated Steel pipe without any casing by HDD	m	48				
b	Installation of 6" NB PE Coated Steel pipe without any casing by HDD	m	48				
c	Installation of 4" NB PE Coated Steel pipe without any casing by HDD	m	48				
d	Installation of 12" NB PE Coated Steel pipe without any casing by Open Cut Method	m	180				
e	Installation of 6" NB PE Coated Steel pipe without any casing by Open Cut Method	m	48				
f	Installation of 4" NB PE Coated Steel pipe without any casing by Open Cut Method	m	48				
g	Installation of 12" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
h	Installation of 6" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
i	Installation of 4" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
5	Mechanical Piping Installation of Steel Isolation Valve stations along Steel mains as per drawings of Bid Document						
5.1	All works for installation of all underground steel piping at all elevations and below ground at all depth for Sectionalizing Valve Station as per GAD in all type of terrains and soils including "Receiving and taking over" as defined in the specifications, handling, loading, transportation and unloading of all Owner supplied materials i.e. extended stem, butt welded, sectionalizing ball valve of 12" size, other types of valves of sizes 4" & 6" for Tap Offs, line pipes for steel mainline . Scope of Contractor also include supply and installation of station pipes for SV Stations & Tap Offs, fittings, Steel flanges & Steel Ball valves of size 2" for vent pipe of SVs - Qty 10 Nos, Insulation Joints with pipe pup piece of 12" NB size qty -10 Nos ,supply of all consumables, materials, manpower and carrying out all mechanical works of underground and above ground piping including fabrication, welding, non-destructive testing of welds, weld repairs/ retesting, cleaning/ flushing, pre-hydrotesting & hydrostatic testing, dewatering, functional testing, cutting of mainline and beveling (if required), tie-in of valve assembly, including radiography of tie-in joints, corrosion, coating and external painting as required.						
	Liasioning for all statutory clearances, approvals and permissions for the works (wherever required).Excavation in all types of soil including soft / hard / rocky surfaces, providing 200 mm thk PCC for valve base support, backfilling and compaction with approved soil for installation of pipes and fittings, etc including sand padding all around the valves in SV station, pipe supports and fencing would be paid against separate SOR s), painting, finishing, clean-up and restoration of site; preparation of as-built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-charge.						
a	Pipeline Size :- NB 12" x 7.1 mm w.t.	Nos.	5				
b	Pipeline Size :- NB 6" x 6.4 mm w.t.	Nos.	4				
c	Pipeline Size :- NB 4" x 6.4 mm w.t.	Nos.	4				
d	Piping work at station	Inch-Dia	100				
5.2	Complete works for Tap off Points including Supply and Installation of Bar Tees , Elbows, WNRF & BLRF Flanges # 300 including Gaskets & Fasteners at Tap-off points as defined in Tender Specifications and drawing						

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Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

Currency : INR

Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document (IN FIGURES)	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document (IN WORDS)	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document (IN FIGURES)	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/incidental expenses etc. as defined in bid document (IN WORDS)
		(1)	(2)	(3)			(6)
a	Size - 12"x12"x6"	Nos.	8				
b	Size - 12"x12"x4"	Nos.	8				
<p>Note: i) This work is exclusive of all works associated with main pipeline covered under SI. No. 1 above. ii) All civil / structural works including area fencing and gate, pipe supports, valve chamber will be paid separately as per unit rate provided elsewhere in the SORs.</p>							
6	Repair of defect in Pipes (Not attributed to Contractor)						
Repair of defects on Owner supplied line pipes of all grades and wall thickness as specified in following items, noted and recorded at the time of "receiving and taking over" by Contractor in the presence of Owner/Owner's Representative							
a	Cutting and rebeveling for dents in bevels exceeding 3 mm in depth for pipe sizes: Specified OD, mm (Inches)						
i	12"	Nos.	5				
ii	6"	Nos.	5				
iii	4"	Nos.	5				
b	Jack out of dents in bevels ranging between 1 mm and 3 mm in depth for pipe sizes: Specified NB, Inches						
i	12"	Nos.	5				
ii	6"	Nos.	5				
iii	4"	Nos.	5				
7	Repair of Coating defects (not attributed to Contractor)						
Repair of Holiday in Coating (Noted and recorded at the time of "receiving and taking over")							
	Supply of all coating repair materials as per requirement of specification, supply of all consumables, utilities, equipments and all manpower required, pipe cleaning and surface preparation, repairing of coating defects and testing including all handling, transportation, etc. for line pipe, performing all works necessary for the completion of the works strictly in accordance with relevant specification and instructions of Owner/Owner's Representative This rate shall be applicable per sq cm of the exposed steel area.	sq.cm	25				
8	Permanent Markers						
Permanent Markers 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 of pedestals and grouting with concrete, clearing, supply and application of approved color and quality of primer and paint (powder coated), stencil letter cutting for numbers, direction, chainage etc., restoration of area to original condition and performing all works as							
a	RCC route marker	Nos.	200				

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		(1)	(2)	(3)			(6)
b	Warning sign with Post & foundations as per drawing It shall be powder coated only & before installing take approval from the EIC.	Nos.	20				
9	Construction of RCC valve chamber for 12", 6" & 4" Steel Pipeline at Sectionalizing Valve Stations & Tap Off points						
	All civil works including supply of all material, excavation of pit, piping & valve supports including all PCC and RCC/ Brick works for valves pit, pedestals with insert plates as required sealing of pipe at valve pits, providing cover etc and finishing, clean up and restoration of site, filling and grading of area around the valve station to avoid any local flooding of area, as per specification enclosed and instruction of Engineer-in-Charge.						
a	RCC Valve Chamber Size - 3.5 m x 2.0 m- For 12" NB steel pipeline	Nos.	5				
b	RCC Valve Chamber Size - 1.5 m x 1.0 m- For 6" Tap Offs	Nos.	4				
c	RCC Valve Chamber Size - 1.5 m x 1.0 m- For 4" Tap Offs	Nos.	4				
10	PCC						
a	Providing and laying PCC (1:4:8) as per technical specifications & instruction of Engineer in charge.	m ³	10				
11	RCC						
a	Providing and Laying reinforced cement of grade M -20 with 20 mm and down grade crushed stone aggregate in all types of structures like foundations , pedestals etc. at all depths & heights as per the instruction of Engineer in charge.	m ³	75				
12	Construction of RCC valve chamber for 125mm diameter MDPE Pipeline at Sectionalizing Valve Stations						
	All civil works including supply of all material, excavation of pit, piping & valve supports including all PCC and RCC/ Brick works for valves pit, pedestals with insert plates as required sealing of pipe at valve pits, providing cover etc and finishing, clean up and restoration of site, filling and grading of area around the valve station to avoid any local flooding of area, as per specification enclosed and instruction of Engineer-in-Charge.						
a	RCC Valve Chamber Size - 0.5M X 0.5M - For 125mm diameter MDPE Valves	Nos.	19				
13	Temporary Cathodic Protection						
	Site survey (generation of corrosion survey data),design(for two years or before installation of PCP whichever is less), detailed						
a	12" NB	m	15000				
b	6" NB	m	2000				
c	4" NB	m	2000				

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SCHEDULE OF RATE (Revised)
FOR SPREAD - A (BHODURPALLY TO BEGUMPET RAILWAY STATION)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

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		(1)	(2)	(3)			(6)
14	Permanent Cathodic Protection						
	Site survey (generation of corrosion survey data), design (for Forty years), detailed engineering, supply, installation, testing, commissioning and monitoring of Permanent Cathodic protection (PCP) system of underground pipeline complete with all documents as per tender conditions.						
a	12" NB	m	15000				

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TRACTEBEL Engineering GDF SUEZ		SCHEDULE OF RATE(Revised) FOR SPREAD - A(BHODURPALLY TO BEGUMPET RAILWAY STATION) LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II					
Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II							
BID DOCUMENT No. : P.002062 G90 5022							
Name of the bidder :							
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Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document (IN FIGURES)	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document (IN WORDS)	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document (IN FIGURES)	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document (IN WORDS)
		(1)	(2)	(3)			(6)
b	6" NB	m	2000				
c	4" NB	m	2000				
15	TELECOMMUNICATION SITE WORK (as per scope of work and Standard Specification of Bid documents)						
15.1	Supply and Laying of HDPE Telecom Duct as per specification : - Laying of single 50mm OD, 6kg/cm2 permanently lubricated HDPE ducts, in same pipeline trench direct buried or tied along with steel at all crossings (cased or uncased), in all type of soil & terrain, excavation as required, including cleaning and sealing of ducts at the end of laid drum lengths, preparation & Supply of Cable Blowing Pit including sand, jointing of HDPE conduit, Testing of HDPE Duct and accessories after laying, preparation of report and final drawing & documents as per specification, joint location marking , erection accessories (suitable for min 8 kg/cm2 pressure rating), all complete as per specifications provided in the bid document & as per direction of consultant. (This duct is for future requirement for total length of pipeline as per spec. and drawing). HDPE duct is to be tied at 2 o'clock position to carrier pipe with string at regular intervals and held with Galvanized clamps or suitable material as decided by client / consultant.	m	19000				
15.2	Supply and installation of jointing pits, including sand, etc. all complete as per spec., drawing provided in the bid document and the direction of client / consultant.	Nos.	6				
15.3	Supply & installation of optical splice closer as per specifications & drawing provided in the bid document and direction of client / consultant	Nos.	6				
16	Lumpsum Charges for Providing concrete foundation for DRS , as per Tender Drawing (Indicative Drawing) and specification, including excavation, supply of labour and all the materials required for performing the work in all respects in accordance with drawings, specifications, instructions of COMPANY and transportation of DRS / MRS from BGL store to work site and installation of DRS. Painting of above ground pipeline and fittings and valve numbering shall also be done as per drawings / Instructions of EIC. Fencing around the DRS cabinet shall also be done. The entire scope of job shall be per details furnished in Technical Volume II of IV	Nos.	3				
17	Continuous Concrete Coating - Supply of all document and material, equipment, manpower and submission of , application, procedure with calculation for anti-buoyancy design, mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (may be higher, in case design requirement) on pipeline (12" X 7.1 mm, 6" x 6.4mm; 4" x 6.4mm) and on field joint thereof and perform all works as per specifications and instruction of owner/owner's representative.						
17.1	50mm thickness minimum	Mtrs	150				
17.2	75mm thickness minimum	Mtrs	50				
18	Supply,fabrication and erection of all types of pipe supports like clamps, saddle, guide, stops, cradles, Neoprene sheet, turn buckles, anchors, T posts, stockade/trestle and pipe bridge/ Structure 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 PMC (bolts, nuts, washers, u-clamps etc for supporting shall be supplied by the Contractor within the rates quoted wherever required. 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.	MT	2				
19	TOTAL(INR)						
20	Service Tax including Cess @ -----% on Row No 19 (INR)						
21	GRAND TOTAL INCLUDING SERVICE TAX(INR)						
Notes:							
1	Bidder to clearly indicate 'Quoted' / 'Not Quoted' against each Sr. No. in the price column in the un-priced Schedule of Rates and submit the same in Un-priced part of the bid. Bidder to submit P						
2	Bidder must quote the price in the given Schedule of Rates formats only. Bid submitted with changed format / description is liable to be rejected.						
3	Quoted rates are firm and fixed till complete execution of the entire order.						
4	In case of discrepancy between unit price and the total price, the unit price shall prevail. If there is a discrepancy between the total amount and the sum of total price, the sum of total price shall						
5	Bidders to note that full amount of Service Tax is a cenavatable amount & bidder will submit cenavatable invoices for availing cenvat credit by BGL						
6	Purchaser reserves the right to decrease/ increase the quantity of any item(s) as per provision of Bid document before award / during execution stage of contract.						
7	Purchaser reserves the right to split the order in two or more than two bidders.						
8	Bidder must quote for complete scope as detailed in the bid document, bids submitted for part scope shall be considered as non-responsive and liable to be rejected.						
9	Any other material & activities not mentioned/covered above, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied / done by contractor with						
10	The above quantities are tentative and may vary considerably depending upon site condition, methodology adopted as per site requirement with due approval of Owner .						
11	Pipeline in above mentioned SOR shall be spur pipelines & length of pipeline may vary as per site conditions & work shall be allocated according on availability of site.						
SEAL & SIGNATURE OF BIDDER							

Arunk Roy

S Gupta

SCHEDULE OF RATE(REVISED)
FOR SPREAD - B(BALANAGAR JUNCTION TO MIYAPUR TO BOLARAM REDDY LABORATORY)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

Currency : INR

Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document
				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE ALONG WITH 125mm dia MDPE Pipe & 50mm diameter HDPE Pipe AS PER TENDER SPECIFICATION							
1	<p>Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied materials like 3 - Layer PE coated line pipes of 12", 6" & 4" NB sizes, 125mm diameter MDPE pipe , Steel Ball valves of sizes 12", 6" & 4" , MDPE Ball Valves of size 125mm from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites .</p> <p>Carrying out preliminary activities, preparation of drawings, if required for crossings etc. including handling, stacking, stringing on the pipeline Right-of-use / pipeline route , carrying out inspection of company supplied materials including line pipes at the time of taking over, laying / installation of coated line pipe, and other free issue materials.</p> <p>Executing all works, "taking over", handling, including loading and unloading, transportation of Owner supplied materials from Owner's designated place(s) of issue to work site, arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, procurement and supply of all materials (except Owner supplied materials), consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for commissioning of pipeline as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works:</p> <p>Staking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, liasioning and fulfilling all the requirements of various statutory / environment authorities to the entire satisfaction of concerned authorities, grading of work area, Shifting of all obstruction within the ROU/ pipeline route alignment viz electrical lines/poles, telephone lines/poles, co-ordination with concerned authorities</p> <p>Trenching to all depths by excavation in all types of soils including soft soil chiseling or otherwise cutting different types of pavement, footpath, roads etc. As required and storing excavated soil, reusable materials at designated area as directed by Owner/ Owner's Representative and to a width to accommodate the pipeline as per relevant standard/ specifications etc. (The minimum depth of the top of pipeline shall be as per Bid document. Dewater of trenches if required as per site condition. Making trial pits as per instructions of EIC</p> <p>Carrying out repairs of Steel and MDPE pipe defects/replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects / damages occurring during transportation/handling.</p> <p>Checking, cleaning, aligning, bending, cutting and beveling (as required) of pipes for welding steel and MDPE pipes and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography and providing all requisite equipment, labor, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of welds joints found defective by Owner/ Owner's Representative, carrying out re-radiography and other tests as required on repaired joints. Providing PE warning mat over the pipeline etc.</p> <p>Carrying out installation of carrier pipe (Steel & MDPE) at all crossings like roads/nallas/ Canals etc. at designated depths by open cut (except at cased crossings or crossings carried out by HDD method).</p> <p>Carrying out installation of carrier pipe in the casing pipe at cased crossings (excluding installation of casing pipes which is covered separately).</p> <p>Coating of field weld joints, long radius bends, buried fittings & valves etc. including supply of coating materials duly approved by owner etc as per specification.</p> <p>Counting the number and type of trees cut in presence of DFO/concerned authorities and keeping record thereof; stacking and handing over of all cut trees.</p> <p>Supply & Installation/ lowering the pipeline in trench to required depth, placement of 1.0 mm thickness MDPE yellow color warning mat over the pipeline along the complete route, padding around pipeline with suitable approved soil including supply of padding material, backfilling with available/ borrowed earth, approved excavated material and/ or other suitable soil by crowning. Compaction with jumping jack compactor and water at subsequent layers of 150mm or as directed by Owner/ Owner's Representative. All tiles / slabs/ curb stones etc. removed during excavation shall be placed properly. Roads, pavements, footpaths, etc. to be made motorable wherever pipeline is laid.</p> <p>Supply and Installation of slope breakers, bank protection wherever required and as directed by Owner / Owner's Representative.</p>						

Antik Roy

[Signature]

SCHEDULE OF RATE(REVISED)
FOR SPREAD - B(BALANAGAR JUNCTION TO MIYAPUR TO BOLARAM REDDY LABORATORY)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

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				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
	Carrying out air cleaning, pigging, flushing, cleaning and hydrostatic testing of complete pipeline for steel and pneumatic testing for MDPE pipeline with quantity of corrosion inhibitor including pre-testing of designated sections complete as per specification and approved by Owner/ Owner's Representative to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps, fittings, instruments, dead weight tester, pressure recorder, thermocouples etc., and services, supervision, labor, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor (rectification of defects in linepipe material not attributable to contractor shall be paid separately as per schedule of rate), re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Owner/ Owner's Representative.						
	All tie-in, including the tie-ins with adjacent section of the steel pipeline.						
	Protective coating of 450 micron thick two component epoxy (applied with the help of minimum three coats) including supply of materials duly approved by owner for all piping, Valves, fittings, structural steels etc. for buried installation and inside the valve pit.						
	Final clean - up and restoration of right -of -use and disposal of debris and surplus material to designated disposal areas and re-instating the area to its earlier state and as directed by Owner/ Owner's Representative.						
	Precommissioning activities like swabbing, drying of the complete pipeline network and the associated facilities being installed to the specified acceptance criteria as per Owner/Owner's Representative and as per Bid documents.						
	Purging with nitrogen (Including supply) and Commissioning of complete pipeline network including supply of all equipment, machinery, consumables, tools and tackles, manpower, etc., as per specification, provisions of bid document and instructions of Owner/Owner's Representative						
	Maintaining the completed pipelines/ installation for any defect, failures during defect liability period (i.e. 12 months from date of commissioning of Pipeline).						
	Ensuring proper safety codes & practices during construction, cordoning off the work area, providing warning signs, barricading and proper tools & tackles, Equipping the workers with safety boots, helmets and florescent aprons & barricading as per enclosed drawings. The barricading is to be done throughout along the trench/ welding string.						
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. The pipeline laying shall be done as per specification, code & standard & guideline by Owner/ Owner's Representative.						
	Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 3 sets of as - built drawings and 1 soft copy and 6 copies of pipe book.) All the works shall be executed in accordance with the provision of contract including carrying out all temporary/ancillary/ auxiliary works required of the performance of the works and all other acts, deeds, matters and things necessary to make the pipeline ready for pipe commissioning activities.						
	Specified NB (inch)						
	Thk in mm (inch)						
a)	12"	7.1 (0.279")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	15000		
b)	6"	6.4 (0.252")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	2000		
c)	4"	6.4 (0.252")	API 5L X 52, PSL-2, 3 LPE Coated - Free issued by Owner	m	2000		
d)	Excavation Charges in case of Rocky area (this rate will be considered in case of laying of pipe in Rocky area and amount will be calculated based on the actual excavation done for laying of line pipe)			Cu m	1000		
e)	Laying including installation of MDPE Ball Valves 125mm diameter (free issued by Owner) ,Pneumatic Testing of 125mm diameter MDPE Pipe(free issued by Owner) & MDPE Valves (free issued by Owner) along with supply of all MDPE Fittings (to be procured by Contractor) of 125mm dia size, elbows wherever required (to be procured by the Contractor) as per Tender Specifications.			m	15000		

Anil Roy

S. Gupta

SCHEDULE OF RATE (REVISED)
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LAYING OF 12", 6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

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		(1)	(2)	(3)	(4)	(5)	(6)
1.2	Supply of Sand/ Stone dust used for restoration with proper water padding to restore crossings wherever applicable to the requirements of the concerned Authority	Cu m	1000				
	Note:						
	1. This item shall be applicable for the pipeline, fittings, accessories, valves etc. between existing / proposed underground tap off points from existing steel main grid to I.J. for U/G portion						
	2. For restoration of concrete roads, the item for construction of asphalted top/concrete top/red stone shall be paid separately.						
	3. All crossing works by HDD / Moling / cased crossings shall be paid separately as per the rates quoted for the same elsewhere in the SOR. However the rate for preparing the carrier pipe string ready for pulling in case of moling / cased crossing is inclusive in this SOR.						
1.3	Pipeline laying liaisoning from the statutory authorities.						
	All necessary liaison, coordination and compliances as per permissions/work permits/authorization from the authorities having jurisdiction during actual execution of work, co-ordination with other contractor and obtaining No Objection Certificate from them.	m	19000				
2	Preparation of string to make ready for HDD pulling (For without casing pipe) in rocky/soft soil:						
	Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied 3 - Layer PE coated line pipes & 125mm diameter MDPE pipes from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites including preliminary activities, carrying out inspection of owner supplied materials (3LPE coated line pipe) at the time of taking over and supply of all materials (except 3LPE coated line pipe) consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for HDD pulling as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works: Preparation, welding, radiography, coating field joints with special type heat shrinkable sleeves (Direx) pretesting of completed carrier pipe and making the string ready for pulling of HDD and welding of entry & exit point of HDD with mainpipeline . Pre installation hydrotesting including leaks and repair of defects and retesting etc. for defects attributed to contractor's faulty work Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 6 sets of as - built drawings and 1 soft copy and 3 copies of pipe book)						
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. The pipeline stringing shall be done as per specification, PNGRB Guidelines, code & standard & guideline by Owner/ Owner's Representative.						
a	12"	m	72				
b	6"	m	24				
c	4"	m	24				
3	Supply & Installation of Casing pipe :						
	Supply & Installation of Casing pipe (Carbon steel) by Thrust Boring/Jacking for Nala, road. Rail and canal crossings wherever required in all types of soils and terrain, including laying of 2 nos. HDPE telecom duct & all associated works including supply of all other materials, equipment, consumables, manpower, welding of steel casing and jointing of HDPE Telecom Duct including visual inspection of all weld joints/HDPE Joints, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Owner/ Owner's Representative , PNGRB Guidelines, codes & standards and provisions of contract document. Submission of as built drawings.						
3.1	Road Crossing :-						
a	24" NB Carbon steel casing pipe for 12" diameter Carrier pipe (Thrust Boring Method)	m	360				

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SCHEDULE OF RATE(REVISED)
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LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

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Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document
				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
b	10" NB Carbon steel casing pipe for 6" & 4" diameter Carrier pipe (Thrust Boring Method)	m	48				
c	200 mm HDPE casing pipe for 125MM dia MDPE Carrier pipe (Thrust Boring Method)	m	360				
3.2	Rail Crossing :-						
a	18" NB Carbon steel casing pipe for 12" diameter Carrier pipe (Thrust Boring Method)	m	84				
b	10" NB Carbon steel casing pipe for 6" & 4" carrier pipe (Thrust Boring Method)	m	48				
	Note:						
	1.Payment shall be based on the actual length of Cased crossings						
	2. Casing end seals, casing insulators, Vent & drain connections are to provided by the contractor.						
	3. Above Rate for this SOR item no. 3.1 & 3.2 for steel pipeline is not inclusive of carrier pipe string preparation (welding, NDT,Pretesting, coating, Hydrotesting, Precommissioning etc.). These works shall be paid as per SOR item no. 1						
	4. Contractor shall procure the carbon steel casing pipe as per specifications attached in bid document..						
	5. HDPE Casing supply cost is in the Bidder's scope of supply.						
4	Installation of carrier pipe (without casing pipe) at crossings in rocky/soft soil:						
	Receiving and taking-over as defined in the specifications, handling, loading, transportation and unloading of Owner supplied 3 - Layer PE coated line pipes from Owner designated stock-yard to Contractor's own stock yards/workshops/work-sites including preliminary activities, carrying out inspection of owner supplied materials (3LPE coated line pipe) at the time of taking over and supply of all materials (except 3LPE coated line pipe) consumables, equipment, labor and other inputs, carrying out all temporary, ancillary, auxiliary works, as per drawings, Specifications, other provisions of Contract document and instruction of Owner/ Owner's Representative, including but not limited to carrying out the following works: Site Preparation, welding, radiography, coating field joints with special type heat shrinkable sleeves (Direx) pretesting of completed carrier pipe and making the string and welding of entry & exit point of HDD/boring with mainpipeline. Post installation of hydrotesting including leaks and repair of defects and retesting etc. for defects attributed to contractor's faulty work Hydrotesting with mainpipeline and precommissioning activities like swabbing, drying to the specified criteria as per owner/owners representative. Purging with nitrogen (Including supply) and Commissioning of complete pipeline network including supply of all equipment, machinery, consumables, tools and tackles, manpower, etc., as per specification, provisions of bid document and instructions of Owner/Owner's Representative. Final dossier all notes & calculations as required in the specification. Preparation of as-built drawings, pipe-books (1 set of tracing on polyester film and 6 sets of as - built drawings and 1 soft copy and 3 copies of pipe book.)						
	Installation of Crossings of carrier pipes by HDD / open cut/Moling methods for Road, Nala and unlined Canal crossings etc wherever required in all types of soils and terrain, including laying of 2 nos. HDPE telecom duct & all associated works including supply of all other materials, equipment, consumables, manpower, jointing of HDPE Telecom Duct including visual inspection of all Weld Joints/HDPE Joints, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Owner/ Owner's Representative, PNGRB Guidelines, codes & Standards and provisions of contract document.						
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified time schedule at no extra cost to owner. It shall be done as per specification, PNGRB Guidelines, code & standard & guideline by Owner/ Owner's Representative.						
a	Installation of 12" NB PE Coated Steel pipe without any casing by HDD	m	72				
b	Installation of 6" NB PE Coated Steel pipe without any casing by HDD	m	24				
c	Installation of 4" NB PE Coated Steel pipe without any casing by HDD	m	24				
d	Installation of 12" NB PE Coated Steel pipe without any casing by Open Cut Method	m	72				

Antara Roy BGL

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SCHEDULE OF RATE(REVISED)
FOR SPREAD - B(BALANAGAR JUNCTION TO MIYAPUR TO BOLARAM REDDY LABORATORY)
LAYING OF 12",6" & 4" CARBON STEEL PIPELINE & 125mm diameter MDPE Pipe along with 50mm diameter HDPE Duct
FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

Currency : INR

Sr. No.	Work Description and Supply	Unit	Qty.	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Unit Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document	Total Price inclusive of all applicable taxes & duties (except Service Tax) & including miscellaneous/ incidental expenses etc. as defined in bid document
				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
e	Installation of 6" NB PE Coated Steel pipe without any casing by Open Cut Method	m	24				
f	Installation of 4" NB PE Coated Steel pipe without any casing by Open Cut Method	m	24				
g	Installation of 12" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
h	Installation of 6" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
i	Installation of 4" NB PE Coated Steel pipe without any casing by Moling Method	m	48				
5	Mechanical Piping Installation of Steel Isolation Valve stations along Steel mains as per drawings of Bid Document						
5.1	All works for installation of all underground steel piping at all elevations and below ground at all depth for Sectionalizing Valve Station as per GAD in all type of terrains and soils including "Receiving and taking over" as defined in the specifications, handling, loading, transportation and unloading of all Owner supplied materials i.e. extended stem, butt welded, sectionalizing ball valve of 12" size, other types of valves of sizes 4" & 6" for Tap Offs, line pipes for steel mainline . Scope of Contractor also include supply and installation of station pipes for SV Stations & Tap Offs, fittings, Steel flanges & Steel Ball valves of size 2" for vent pipe of SVs - Qty 10 Nos, Insulation Joints with pipe pup piece of 12" NB size qty -10 Nos ,supply of all consumables, materials, manpower and carrying out all mechanical works of underground and above ground piping including fabrication, welding, non-destructive testing of welds, weld repairs/ retesting, cleaning/ flushing, pre-hydrotesting & hydrostatic testing, dewatering, functional testing, cutting of mainline and beveling (if required), tie-in of valve assembly, including radiography of tie-in joints, corrosion, coating and external painting as required.						
	Liasioning for all statutory clearances, approvals and permissions for the works (wherever required).Excavation in all types of soil including soft / hard / rocky surfaces, providing 200 mm thk PCC for valve base support, backfilling and compaction with approved soil for installation of pipes and fittings, etc including sand padding all around the valves in SV station, pipe supports and fencing would be paid against separate SOR s), painting, finishing, clean-up and restoration of site; preparation of as-built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-charge.						
a	Pipeline Size : - NB 12" x 7.1 mm w.t. (Number of SV Stations = 5 Nos)	Nos.	5				
b	Pipeline Size : - NB 6" x 6.4 mm w.t.(Number of SV Stations = 4 Nos)	Nos.	4				
c	Pipeline Size : - NB 4" x 6.4 mm w.t. (Number of SV Stations= 4 Nos)	Nos.	4				
d	Piping work at station	Inch-Dia	100				
5.2	Complete works for Tap off Points including Supply and Installation of Bar Tees , Elbows, WNRF & BLRF Flanges # 300 including Gaskets & Fasteners at Tap-off points as defined in Tender Specifications and drawing						
a	Size - 12"x12"x6"(Number of Tap Off Points = 8)	Nos.	8				
b	Size - 12"x12"x4"(Number of Tap Off Points = 8)	Nos.	8				
6	Repair of defect in Pipes (Not attributed to Contractor)						
	Repair of defects on Owner supplied line pipes of all grades and wall thickness as specified in following items, noted and recorded at the time of "receiving and taking over" by Contractor in the presence of Owner/Owner's Representative						
a	Cutting and rebeveling for dents in bevels exceeding 3 mm in depth for pipe sizes: Specified OD, mm (Inches)						
i	12"	Nos.	5				
ii	6"	Nos.	5				
iii	4"	Nos.	5				
b	Jack out of dents in bevels ranging between 1 mm and 3 mm in depth for pipe sizes: Specified NB, Inches						
i	12"	Nos.	5				
ii	6"	Nos.	5				

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FOR CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

Project : CNG & CITY GAS DISTRIBUTION PROJECT IN HYDERABAD PHASE-II

BID DOCUMENT No. : P.002062 G90 5022

Name of the bidder :

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		(1)	(2)	(3)	(4)	(5)	(6)
iii	4"	Nos.	5				
7	Repair of Coating defects (not attributed to Contractor) Repair of Holiday in Coating (Noted and recorded at the time of "receiving and taking over") Supply of all coating repair materials as per requirement of specification, supply of all consumables, utilities, equipments and all manpower required, pipe cleaning and surface preparation, repairing of coating defects and testing including all handling, transportation, etc. for line pipe, performing all works necessary for the completion of the works strictly in accordance with relevant specification and instructions of Owner/Owner's Representative This rate shall be applicable per sq cm of the exposed steel area.	sq.cm	25				
8	Permanent Markers Permanent Markers 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 color and quality of primer and paint (powder coated), 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 Owner/Owner's Representative						
a	RCC route marker	Nos.	200				
b	Warning sign with Post & foundations as per drawing It shall be powder coated only & before installing take approval from the EIC.	Nos.	20				
9	Construction of RCC valve chamber for 12", 6" & 4" Steel Pipeline at Sectionalizing Valve Stations & Tap Off points All civil works including supply of all material, excavation of pit, piping & valve supports including all PCC and RCC/ Brick works for valves pit, pedestals with insert plates as required sealing of pipe at valve pits, providing cover etc and finishing, clean up and restoration of site, filling and grading of area around the valve station to avoid any local flooding of area, as per specification enclosed and instruction of Engineer-in-Charge.						
a	RCC Valve Chamber Size - 3.5 m x 2.0 m- For 12" NB steel pipeline	Nos.	5				
b	RCC Valve Chamber Size - 1.5 m x 1.0 m- For 6 " Tap Offs	Nos.	4				
c	RCC Valve Chamber Size - 1.5 m x 1.0 m- For 4" Tap Offs	Nos.	4				
10	PCC Providing and laying PCC (1:4:8) as per technical specifications & instruction of Engineer in charge.	m ³	10				
11	RCC Providing and Laying reinforced cement of grade M -20 with 20 mm and down grade crushed stone aggregate in all types of structures like foundations , pedestals etc. at all depths & heights as per the instruction of Engineer in charge.	m ³	75				
12	Construction of RCC valve chamber for 125mm diameter MDPE Pipeline at Sectionalizing Valve Stations All civil works including supply of all material, excavation of pit, piping & valve supports including all PCC and RCC/ Brick works for valves pit, pedestals with insert plates as required sealing of pipe at valve pits, providing cover etc and finishing, clean up and restoration of site, filling and grading of area around the valve station to avoid any local flooding of area, as per specification enclosed and instruction of Engineer-in-Charge.						
a	RCC Valve Chamber Size - 0.5M X 0.5M - For 125mm diameter MDPE Valves	Nos.	15				

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BID DOCUMENT No. : P.002062 G90 5022

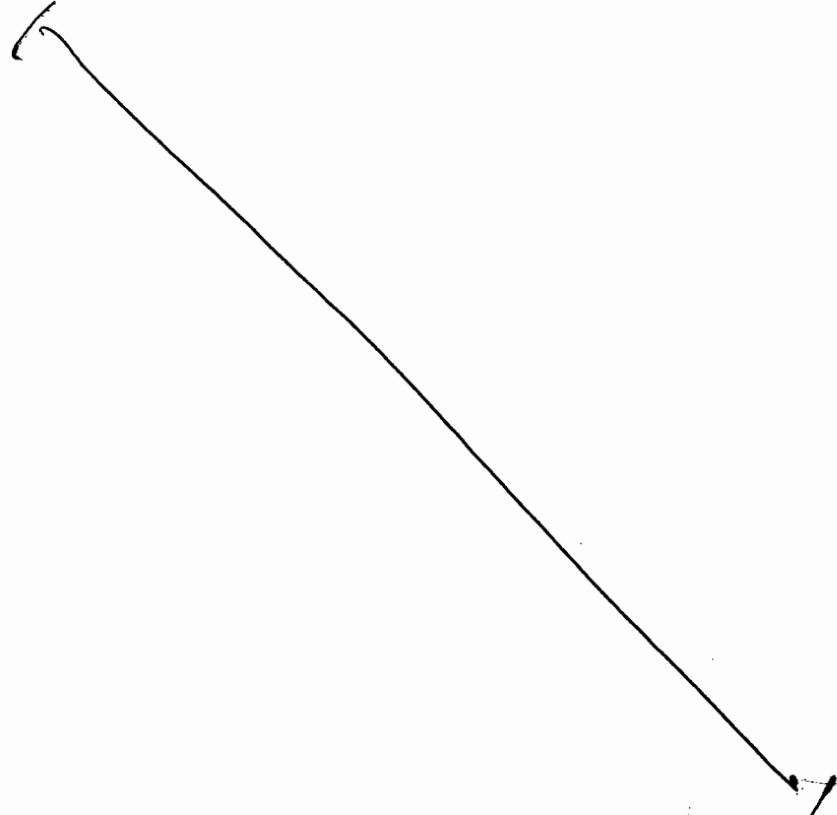
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				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
13	Temporary Cathodic Protection						
	Site survey (generation of corrosion survey data),design(for two years or before installation of PCP whichever is less), detailed engineering,supply,installation,testing,commissioning and monitoring of Temporary Cathodic protection(TCP) system of						
a	12" NB	m	15000				
b	6" NB	m	2000				
c	4" NB	m	2000				
14	Permanent Cathodic Protection						
	Site survey (generation of corrosion survey data),design(for Forty years), detailed engineering,supply,installation,testing,commissioning and monitoring of Permanent Cathodic protection(PCP) system of underground pipeline complete with all documents as per tender conditions.						
a	12" NB	m	15000				
b	6" NB	m	2000				
c	4" NB	m	2000				
15	TELECOMMUNICATION SITE WORK (as per scope of work and Standard Specification of Bid documents)						

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				(IN FIGURES)	(IN WORDS)	(IN FIGURES)	(IN WORDS)
		(1)	(2)	(3)	(4)	(5)	(6)
15.1	Supply and Laying of HDPE Telecom Duct as per specification : - Laying of single 50mm OD, 6kg/cm2 permanently lubricated HDPE ducts, in same pipeline trench direct buried or tied along with steel at all crossings (cased or uncased), in all type of soil & terrain, excavation as required, including cleaning and sealing of ducts at the end of laid drum lengths, preparation & Supply of Cable Blowing Pit including sand, jointing of HDPE conduit, Testing of HDPE Duct and accessories after laying, preparation of report and final drawing & documents as per specification, joint location marking , erection accessories (suitable for min 8 kg/cm2 pressure rating) ,all complete as per specifications provided in the bid document & as per direction of consultant. (This duct is for future requirement for total length of pipeline as per spec. and drawing). HDPE duct is to be tied at 2 o'clock position to carrier pipe with string at regular intervals and held with Galvanized clamps or suitable material as decided by client / consultant.	m	19000				
15.2	Supply and installation of jointing pits, including sand, etc. all complete as per spec., drawing provided in the bid document and the direction of client / consultant.	Nos.	6				
15.3	Supply & installation of optical splice closer as per specifications & drawing provided in the bid document and direction of client / consultant	Nos.	6				
16	Lumpsum Charges for Providing concrete foundation for DRS, as per Tender Drawing (Indicative Drawing) and specification, including excavation, supply of labour and all the materials required for performing the work in all respects in accordance with drawings, specifications, instructions of COMPANY and transportation of DRS from BGL store to work site and installation of DRS. Painting of above ground pipeline and fittings and valve numbering shall also be done as per drawings / Instructions of EIC. Fencing around the DRS cabinet shall also be done. The entire scope of job shall be per details furnished in Technical Volume II of IV	Nos.	3				
17	Continuous Concrete Coating - Supply of all document and material, equipment, manpower and submission of , application, procedure with calculation for anti-buoyancy design, mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (may be higher, in case design requirement) on pipeline (12" X 7.1 mm; 6" x 6.4mm; 4" x 6.4mm) and on field joint thereof and perform all works as per specifications and instruction of owner/owner's representative.						
17.1	50mm thickness minimum	Mtrs	150				
17.2	75mm thickness minimum	Mtrs	50				
18	Supply, fabrication and erection of all types of pipe supports like clamps, saddle, guide, stops, cradles, Neoprene sheet, turn buckles, anchors, T posts, stockade/trestle and pipe bridge/ Structure 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 PMC (bolts, nuts, washers, u-clamps etc for supporting shall be supplied by the Contractor within the rates quoted wherever required. 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.	MT	2				
19	TOTAL(INR)						
20	Service Tax including Cess @ -----% on Row No 19(INR)						
21	GRAND TOTAL INCLUDING SERVICE TAX(INR)						

Notes:

- Bidder to clearly indicate 'Quoted' / 'Not Quoted' against each Sr. No. in the price column in the un-priced Schedule of Rates and submit the same in Un-priced part of the bid. Bidder to submit Price part of above
- Bidder must quote the price in the given Schedule of Rates formats only. Bid submitted with changed format / description is liable to be rejected.
- Quoted rates are firm and fixed till complete execution of the entire order.
- In case of discrepancy between unit price and the total price, the unit price shall prevail. If there is a discrepancy between the total amount and the sum of total price, the sum of total price shall prevail.
- Bidders to note that full amount of Service Tax is a cenvatable amount & bidder will submit cenvatable invoices for availing cenvat credit by BGL
- Purchaser reserves the right to decrease/ increase the quantity of any item(s) as per provision of Bid document before award / during execution stage of contract.
- Purchaser reserves the right to split the order in two or more than two bidders.
- Bidder must quote for complete scope as detailed in the bid document, bids submitted for part scope shall be considered as non-responsive and liable to be rejected.
- Any other material & activities not mentioned/covered above, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied / done by contractor with in the rates
- The above quantities are tentative and may vary considerably depending upon site condition, methodology adopted as per site requirement with due approval of Owner .
- Pipeline in above mentioned SOR shall be spur pipelines & length of pipeline may vary as per site conditions & work shall be allocated according on availability of site.

SEAL & SIGNATURE OF BIDDER

Ankur Roy BGL

SK Gupta