

Tender No.: MEC/23R8/01/51/S2/PE/00/0005

Tender for LAYING OF UNDERGROUND PE PIPELINES AND ABOVE GROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT VIJAYAWADA

Project: CITY GAS DISTRIBUTION PROJECT

SUMMARY OF BIDDER'S PRICES FOR Schedule of Rates (SOR) (To be indicated in Indian Rupees)

Sr. No.	Description	In INR	
		(In Figures)	(In Words)
1)	Total Amount (inclusive of all taxes and duties except Service tax) from SOR		
2)	Service Tax 15.00% on 40% of Net Total Amount mentioned at SL. No. 1 above		
3)	Service Tax @ 15.00% on 40% on free issue material of INR 160,00,000/- (Rs. One crore Sixty lakh only)	960,000.00	Nine Lakh Sixty Thousand Only
4)	Gross Total Amount (Sl. No. 1+2+3)		

Notes:

- 1) Bidder has to quote all items of the Schedule of Rates (SOR).
- 2) In case of any item(s) provided by owner as free issue, the implication of service tax on free issue items shall be borne by owner additionally.
- 3) Evaluation, comparison of bid and distribution of quantities shall be as per clause no. 32 of ITB - Vol. I of III.

	Signature of Authorised Signatory
Place	Name :
Date	Designation :
	Seal :

SCHEDULE OF RATES (SOR)

FOR LAYING OF UNDERGROUND PE PIPELINES AND ABOVE GROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT VIJAYAWADA

Tender No.: MEC/23R8/01/51/S2/PE/00/0005					
Project: CITY GAS DISTRIBUTION PROJECT					
Item No.	Activity	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except Service tax) in Rs.	Total amount (inclusive of all taxes and duties except Service tax) in Rs.
1	2	3	4	5	6 = 4x5
1.0	PE PIPELINE				
1.1	Laying of MDPE Pipeline of PE100 grade with SDR 11 / 17.6 having following sizes by trenching in all kind of soil, except builtup sections on the top as different types of concrete pavement/footpath/asphalt roads pavements, all kind of pathways etc in Vijayawada Geographical Area (GA). The trenching can be made by using mechanical excavator or manually depending upon the site condition. The minimum depth of the trench shall so that to ensure minimum cover from top of the pipe as per the specification. The following are in the scope of this item: a) Trenching of the required width and depth in all kind of the surface. b) Uncoiling, stringing, laying and alignment of the MDPE pipes of the required sizes in trench c) Jointing of the pipes by using Electro-Fusion techniques by qualified personnel having proper tools and tackles. d) Providing and fixing all kind of fittings/accessories such as PE Bends, Couplers, end caps, Tee, Reducer, PE to GI Transition Fittings including TF guard (with GI sleeve / concrete), GI sleeves, PCC pedestals, Saddle Tapping of all sizes i.e 125 x 32 mm , 125 x 20 mm , 90x 32 mm, 90x 20 mm, 63x 32 mm, 63x 20 , 32 x 20 mm wherever required, Warning Mat or any other fittings required to make complete pipeline network e) Item also includes dewatering from the trench before laying of the pipes if required f) Receiving, loading, unloading and transporting and stacking of MDPE pipes issued by BGL as free issue material from BGL designated storeyard within Vijayawada GA limit but upto maximum 50Km from working site.				
	The above item also include liasioning with state authorities / owners for all permissions from the concerned land-owning / statutory authorities for smooth execution of pipeline laying: Principal permission for laying of the pipeline from the concerned land owning authority will be obtained by BGL. However all the liasioning during the pipeline laying execution with any authorities such as local bodies, traffic ploice, police, BSNL, NHAI, Railways, RTO etc. and any other utility companies / agencies such OFC operators etc are in the scope of the contractor. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies) is in scope of the contractor.				
	All the Proposed route alignment drawings of main pipeline (125/90/63/32 mm) shall be indicated by BGL/MECON. However for 20mm dia pipeline, preparation of route map, as per site condition shall be prepared by contractor and submitted to BGL / consultant for approval and execution shall start after due approval. Further, the scope also includes preparation of drawing, for any change in route due to site condition for mainline (125/90/63/32mm) , re- route alignment drawing shall also be prepared by contractor.				
	During the execution of the work, the construction area shall be barricaded with steel barricades and Warning Caution tape to ensure the smooth execution of work and safety of the public/ working area. The item also includes supply, transportation and placing the barricading at the site.				
	After laying of Pipeline, back filling with available softsoil upto depth of minimum 300mm, placing brick as per given drg or as per instruction of BGL/Consultant, backfilling with available soil upto minimum depth of 200mm above bricks, putting approved warning mat of 0.5 mm thk and 250 mm wide with tracebaility provision (as per attcahed specifications), dressing the backfilled and compacted soil and backfilling & compaction of remaining trench depth with available soil.(The cost of supply & laying of Bricks shall be paid separately)				
	The item also include interconnection with the existing PE network by extending/tapping from the commisioned PE pipeline through saddle tapping or any other method. Excavation for such pits, making safety barricading etc.,				

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	Once pipeline network is completed, pneumatic testing is required to be carried out as per the details specification . After testing nitrogen purging is required to be done for complete network as per the specification.				
	Carrying out all works required to make the PE pipeline ready for commissioning /Gas-In as per specification. Commissioning the pipeline as per specification & approved procedure , providing tools & tackles, instruments, manpower and other accessories as per instructions of Engineer - In -Charge.				
	Item also includes grading of the pipeline route,if any required. The dismantling of the any structure, falling in pipe line route and making it good after completion of the work shall be carried out by contactor without any additional cost to BGL.				
	Final clean-up of construction area used for laying of pipeline works including disposal of debris and surplus material to designated disposal areas.(Which is to be identified by the contractor).				
	Reconciliation of materials, handing over the completed Pipeline Network to Bhagyanagar Gas Ltd. for their operation and submission of as-built Drgs and other related documents as per contract.				
a)	20 mm PE 100 pipe	Meters	4,500		
b)	32 mm PE 100 pipe	Meters	30,000		
c)	63 mm PE 100 pipe	Meters	15,000		
d)	90 mm PE 100 pipe	Meters	2,000		
e)	125 mm PE 100 pipe	Meters	9,000		
	Note:				
i	For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / red stone / paver shall be paid separately as per the rates quoted for the same elsewhere in the price schedule.				
ii	The above items include activity for open cut trenching only for all types of soils except rock. The decision regarding use of open cut / Moling / HDD method at various locations shall be made by Engineer In -Charge/Owner based on permissions from authority etc.				
1.2	Same as item 1.1 above but by trenching in all types of rocks using mechanical means such as rock breakers / excavators (blasting prohibited) etc. Scope also includes disposal of rocky earth and providing soft soil / sand for bedding and all around PE pipeine of minimum 150 mm thickness. The supply of the soft soil / sand is also in scope of this particular item.				
a)	20 mm PE 100 pipe	Meters	300		
b)	32 mm PE 100 pipe	Meters	500		
c)	63 mm PE 100 pipe	Meters	500		
d)	90 mm PE 100 pipe	Meters	200		
e)	125 mm PE 100 pipe	Meters	500		
1.3	Same as item 1.1 above but with builtup sections (different type of pavement/ foot paths/ roads etc.) on the top surface.				
a)	20mmPE 100 Pipe	Meters	2,000		
b)	32mm PE 100 Pipe	Meters	9,000		
c)	63 mm PE 100 pipe	Meters	4,000		
d)	90 mm PE 100 pipe	Meters	600		
e)	125 mm PE 100 pipe	Meters	1,700		

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1.4	Same as item 1.1 above but pipeline laying by using manual / machine moling technique (without casing) for PE pipe sizes as per specification: The contractor Scope also includes restoration of pits. Warning mat is not required to be laid in above pipe line.				
a)	20mmPE 100 Pipe	Meters	8,000		
b)	32mm PE 100 Pipe	Meters	2,000		
c)	63 mm PE 100 pipe	Meters	800		
d)	90 mm PE 100 pipe	Meters	100		
e)	125 mm PE 100 pipe	Meters	500		
1.5	Same as item no 1.1above but pipeline laying by using machine moling technique (with casing pipe) for PE pipe sizes. The items also includes supply of HDPE casing pipe of PE 100 PN 6 as per specifications. The contractor scope also includes restoration of pits. Warning mat is not required to be laid above the pipe line				
a)	32mm PE 100 Pipe (in 63 mm dia. HDPE Casing Pipe)	Meters	500		
b)	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe)	Meters	500		
c)	90 mm PE 100 pipe (in 180 mm dia HDPE Casing Pipe)	Meters	100		
d)	125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe)	Meters	300		
1.6	Pipe Laying using Horizontal Directional Drilling (HDD) Technique:				
	Laying of PE pipe including supply of Couplers, as required to complete the job. Survey of U/G utilities, survey with requisite equipment / manpower, submission of profile drawings and design for approval, execution of the work as per standard procedure attached with proper capacity machine including excavation of pits and subsequent backfilling, compaction, jointing and insertion of PE pipe, testing & commissioning, restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. If any additional temporary space is required for positioning of equipment for HDD adjacent to pipeline route, same needs to be arranged by the contractor. Item also includes liasioning with all local authorities, permission if any required, shall be obtained by the contractor. In case of HDD with casing,supply of HDPE pipes of grade PN6 above also included in the scope. Warning mat is not required to be laid above the pipe line.				
i)	HDD Without casing Pipe				
a)	32mm PE 100 Pipe	Meters	1,000		
b)	63 mm PE 100 pipe	Meters	1,000		
c)	90 mm PE 100 pipe	Meters	100		
d)	125 mm PE 100 pipe	Meters	800		
ii)	HDD With casing Pipe				
a)	32mm PE 100 Pipe (in 63 mm dia. HDPE Casing Pipe)	Meters	500		
b)	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe)	Meters	500		
c)	90 mm PE 100 pipe (in 180 mm dia. HDPE Casing Pipe)	Meters	100		
d)	125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe)	Meters	400		

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2	Restoration of asphalted roads / concrete roads / pavements / foot paths				
a)	Asphalt road : Restoration of bitumen Asphalt road after laying of MDPE pipe line as per the drawing and to the original conditions, specifications and instruction of Engineer-In-Charge. Restoration of roads shall be done to the satisfaction of local authorities and to get NOC from the concerned authorities.	Meters	5,000		
b)	Restoration of the all kind of pathway by using excavated material such as tiles/pavers/granite/red stone etc by providing PCC 1:4:8 of 75mm thickness and making it as original as per the drawings and to the original conditions Item includes providing of extra material such as Tiles/Paver/Granite etc matching to original pathways.	Cu M	1,000		
c)	Concrete road / Concrete pavement: Restoration of concrete road and pavements shall be done by providing PCC 1:4:8 of 75 mm thick and RCC 1:2:4 of specified thickness as per the drawing and to the original condition. The cost of reinforcement, Shuttering, compacting the base surface etc.. are in the scope of this item.	Meters	2,000		
3	Supply & Laying of Bricks				
	Supply and placing of Class 50 bricks in trenches as per the direction of EIC and as per the specification, drawing and instruction of EIC. Item includes cost of transporation, loading & unloading and labour for placing the bricks in trenches .				
a)	32mm & 63 mm PE 100 Pipe	Meters	59,000		
c)	90 mm & 125 mm PE 100 pipe	Meters	14,000		
4	Supply and installation of PE stop off Isolation Ball Valves				
	Supply and installation of isolation valves of approved make as per typical drawing and specification and instructions of EIC.The scope includes supply of couplers, tappings and handles etc. for each valve. Payment for civil works involved in the valve pits shall be made separately and not covered in this item.				
a)	PE Valve 32mm dia	Nos.	43		
b)	PE Valve,63 mm dia	Nos.	22		
c)	PE Valve, 90 mm dia	Nos.	3		
d)	PE Valve 125mm dia	Nos.	13		
5	Construction of Valve pits				
	Construction of Value Pits as per the enclosed drawing nos.MEC/23R8/01/S3/D2/CF/00/9003/R0 and MEC/23R8/01/S3/D2/CF/00/9004/R0 and specification. The item includes supply of all the material including HDPE casing inside the valve pit, Pre-cast RCC cover, shuttering,reinforcement,labour,curing etc as per the drgs ,specification and instruction of PMC / EIC.				
a	Type-1 having Internal size of Minimum 1000x1000mm	Nos.	20		
b	Type-2 having Internal size of Minimum 600x600mm	Nos.	65		

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6	Fabrication & Installation of Markers				
i)	RCC Route Markers				
	Supply, fabrication and installation of RCC route markers as per the attached drawing no. MEC/23R8/01/S3/D2/CF/00/9005/R0, along the route including transportations of Marker. Item also includes excavation of pit in all type of soil, Concrete Grouting of Marker and removing of debris from site all complete.	Nos.	1,650		
ii)	Plate Markers				
	Supply, fabrication and installation of plate markers as per the attached drg.no. MEC/23R8/01/S3/D2/CF/00/9006/R0 and specification. Item includes application of approved quality of primer and paint, lettering with stencil and fixing on walls with Dowel pins. - NOT APPLICABLE	NA	NA	NA	NA
iii)	Pole Markers with Foundation				
	Supply, fabrication and installation of pole markers as per the attached drawing no. MEC/23R8/01/S3/D2/CF/00/9023/R0 including all associated civil works such as excavation and construction in all types of soils grouting with concrete, cleaning, stencil lettering. Item also includes grouting with 1:2:4 concrete, painting, letter writing with stencil letter as per approved drg. with all completeness.	Nos.	30		
7	Supply and Installation of GI sleeves confirming to IS 1239 grade - B (wherever required as a special case as per instruction of the Engineer-In-Charge) Item shall be operated according to the requirement in addition to SOR 1.1 wherein TF guard is already included.				
	Supply, installation of sleeve, insertion of pipe, sealing the annuals, firm fixing of Sleeves with concrete mix, filling sand. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge.				
a)	GI Sleeves (in Nos.)				
i)	2" NB, 1' Length	Nos.	2,000		
ii)	2" NB, 2' Length	Nos.	500		
iii)	4" NB, 1' Length	Nos.	20		
iv)	4" NB, 2' Length	Nos.	20		
8	PNG Connection to Domestic, Commercial and Industrial Consumers				
8.1	Supply and Installation of GI Service Pipe				
	Supply of powder coated GI Pipes of all sizes and grade as per the specification, handling, loading, transportation and unloading of GI pipes of all sizes, Isolation and appliance valves stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of GI fittings/accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs etc., installation of GI line (alongwith installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials, consumables, labour and other incidental works and reconciliation of pipes after return of the owner's designated store; carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings, specifications.				

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	Scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works: Preparation and approval of schedules, execution procedures, route sketches. Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety devices. Installation of GI Pipes (Powder coated) & Fittings, Valves etc. including NPT threading, painting as specified (installation of meters & regulators forms a separate SOR item).				
	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to aboveGround service GI pipes, testing, purgin with Nitrogen and Painting of entire length of pipe along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. All above activities to be carried out as per specification to the complete satisfaction of consumer & as the direction of Engineer-in-charge.				
	Handing over the completed works to BGL for their operation/ use, reconciliation of ALL material area wise. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule.				
a)	½" on all Floors	Meters	28,000		
b)	¾" Ground to 10th floor (inclusive)	Meters	7,000		
c)	1" at Ground floor for commercial connections	Meters	500		
8.2	Supply, Installation, Testing & Commissioning of Copper Service Pipes				
	Supply of copper / SS 304 fittings required for installation of copper tubing as per MECON TS and associated fittings including brass fittings at the outlet of the meter and at the entry of isolation valve as per satisfaction of EIC. The copper and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Client / Consultant.				
	Copper service pipe shall be installed from the downstream of meter upto and including the isolation valve before the customers' appliance as per MECON's Drawing to the satisfaction of EIC. The Contractor to provide all equipment, tools and material necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of all tools, tackles and consumables including clamps for fixing the tubes.				
	12.0 mm OD x 0.6 mm wall thickness	Meter	2,000		
8.3	Installation of Meter: Installation & fixing of meters with associated inlet and outlet connections/ fittings, valves approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification.				
8.3.1	Installation of Domestic Meters:				
a)	Domestic Meter (Diaphragm / SMART Meter 2.5 m ³ /hr.)	Nos.	5,000		
8.3.2	Installation of Commercial Meters:				
a)	Commercial Meter (Diaphragm Meter - 6 m ³ /hr)	Nos.	20		
b)	Commercial Meter (Diaphragm Meter - 10 m ³ /hr)	Nos.	5		

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8.4	Installation of Regulator : Installation & Fixing of regulator with associated inlet and outlet connections/ fittings, valves approved regulator brackets and other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification.				
8.4.1	Installation of Domestic Regulators:				
a)	Domestic regulator (4/6 bar to 21mBar)	Nos.	4,000		
b)	Domestic regulator (100 mbar to 21mBar)	Nos.	1,000		
8.4.2	Installation of Commercial /Service Regulator				
a)	Commercial Regulator (0.5 - 6 bar to 300/500 mbar) - 10 SCMh to 80 SCMh capacity	Nos.	20		
b)	Service Regulator (0.5 - 6 bar to 100 mbar) - 6SCMH to 80 SCMh capacity	Nos.	5		
8.5	Isolation Ball Valve And Appliance Valve				
	Supply and installation of Isolation & Appliance Ball Valves as per Technical Specification and as directed by EIC.				
8.5.1	Supply and installation of isolation ball Valves:				
a)	Isolation Ball Valve 1/2 " max. 6 bar (g)	Nos.	8,000		
b)	Isolation Ball Valve 3/4 " max. 6 bar (g)	Nos.	500		
c)	Isolation Ball Valve 1 " max. 6 bar (g)	Nos.	50		
8.5.2	Supply and installation of appliance Ball Valve				
a)	Appliance Ball Valve 1/2 " max. 35 mili Bar (g)	Nos.	5,000		
8.6	Supply and Installation of Hose (Gas tube from end of Copper Tube upto burner/stove) pipe & shall be conforming to IS 9573 Type IV.	Nos.	5,000		
8.7	Conversion of Domestic Appliance				
	Conversion of all types of LPG kitchen appliances to NG based appliances.				
	Supply & changing of nozzles/ jets and associated controls for domestic & imported appliances with proper tools & tackles.				
	Cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer ,signing of joint meter records (JMR) and instructing customer on use & safety norms, complete as per specifications & to satisfaction of of customer.				
a)	Kit Appliance for all burners in every appliance	Nos.	10,000		
b)	Oven/Geysers	Nos.	200		
8.8	Regulator Boxes / Service regulator modules / Anakonda etc.,.				
a)	Regulator Boxes :Supply including painting of approved make regulator boxes and installing them firmly by grouting using approved bracket / clamps as per drawing enclosed & as per specifications and and cleaning the area complete to the satisfaction	Nos.	100		

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b)	Service Regulator Modules: Supply and installation of Service Regulators modules with boxes as per drawing attached and as per direction of EIC.	Nos	15		
c)	Supply and installation of Anaconda / Flexible pipes as instructed by EIC.	Nos	15		
9	DRS works				
	Installation of DRS				
	Receiving and taking over, handling, loading, transportation and unloading of DRS Skid from Owner's designated stockyards to site, provision for piping connection, installation at foundation and hooking up with MDPE pipe, at inlet/outlet or both including all works as required to complete the job as per the drawings and specification, scope of work mentioned in tender document. The scope includes supply of transition fittings and other MDPE and CS fittings as per requirements and various associated works (including steel welding, if required) to commission DRS. Note: Amount towards civil / structural work shall be payable as per related SOR items.				
a	DRS (Weight of single DRS will be about 6.0 T)	NOS.	1		
10	CIVIL WORKS				
10.1	Site Grading				
	Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/ mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge.	M ²	50		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).				
10.2	PCC 1:2:4				
	1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	M ³	10		
10.3	PCC 1:4:8				
	1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	M ³	10		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)				

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10.4	Reinforced Cement Concrete				
	Providing and laying reinforced cement of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.	M ³	15		
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.				
10.5	Concrete Pavement				
	Providing and laying reinforced cement concrete of (M-25 grade) with 20mm and down grade crushed stone aggregate in pavement, including preparation of base (i.e. compacted subgrade, 200 thk sand and 50 thk PCC M-10 grade), leaving pockets if necessary, making recess, projections, fixing inserts conduit pipes (GI, PVC, HDPE, etc.) laying in alternate panels, filling the gaps between the panels with bitumen etc., making slopes, finishing edges, leaving bars for pedestals & sleepers including providing sand fill isolation, shuttering, providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the Engineer-in-charge.				
	- 150mm thick (Type-I)	M ²	200		
10.6	Brick Work				
	Providing brick work with brick class designation M-7.5 of IS:1077 in cm1:4 (1 cement : 4 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curring, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	M ³	35		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, plastering, painting etc. with all bye-works and sundry works).				
	Note : The quantities of individual item can varied as per site requirement.The payment will be made as per actual certified measurement at site.				
10.7	Sand filling of 150 mm layer for MDPE as per the instruction of Engineer- incharge.	cum	30		
11	Structural Work				
11.1	Supply & erection of single leaf mild steel gate 2.5m high with mesh upto 2m height and barbed wire fencing and 2m wide complete in all respect including painting as per TS on all MS items, all works as per specification and drawings <u>excluding</u> foundations and RCC beams.	No.	2		

SCHEDULE OF RATES (SOR)
FOR LAYING OF UNDERGROUND PE PIPELINES AND ABOVE GROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT VIJAYAWADA

Tender No.: MEC/23R8/01/51/S2/PE/00/0005					
Project: CITY GAS DISTRIBUTION PROJECT					
Item No.	Activity	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except Service tax) in Rs.	Total amount (inclusive of all taxes and duties except Service tax) in Rs.
1	2	3	4	5	6 = 4x5
11.2	Supply of all materials, fabrication and erection of chain link fencing 2.5m high with mesh up to 2m height and barbed wire fencing complete in all respects including painting as per TS on all MS items, all works as per specification and drawings excluding foundation and RCC beams.	RM	40		
12	Registration of Domestic PNG Connections				
	Carrying out the work of Domestic PNG registration as per directions/instructions of the Marketing In charge/Authorized representative including but not limited to following : 1) Enrolment & Registration of Domestic PNG Customers as per the given target. 2) Collection of filled up form along with Cheque/Demand Draft of Security Deposit amount and documents All other activities as may be required to complete the work in all respect is defined in the Scope of work to be read along with the Special Conditions of Contract and as per instructions of MIC. Carrying out the marketing activities for Domestic PNG connection as detailed in Scope of work, complete in all respects , as per directions/instructions of the Marketing In Charge including but not limited to the following: Distribution of leaflets & FAQ, Installation of banners at prime location, Awareness cum Registration Camp , Audio/Visual Presentations, Organizing Road Shows , etc.	Nos.	1,000		
	Total Amount (inclusive of all taxes and duties except Service tax)				