



BHAGYANAGAR GAS LIMITED
(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**TENDER FOR LAYING OF MDPE NETWORK, ABOVE
GROUND GI PIPING & OTHER ASSOCIATED WORKS
FOR SUPPLY OF PNG IN VIJAYAWADA GA**

**UNDER OPEN DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/428/2018-19

SCHEDULE OF RATES/PRICE SCHEDULE



**Tender for Laying of MDPE Network, Above Ground GI Piping &
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**SOR/PRICE
SCHEDULE**

Item No.	Activity	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) in Rs.	Total amount (inclusive of all taxes and duties except GST) 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 having following sizes by trenching in all kind of soil, except built-up 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 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				



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<p>BGL designated store yard within VIJAYAWADA GA limit but up to maximum 50Km from working site.</p>				
<p>The above item also include liasioning with state authorities / land owners: Principle permission for laying of the pipeline from the concerned land owning authority shall be obtained by BGL. However, all the liasioning during the pipeline laying execution with any authorities such as local bodies, traffic police, police, BSNL, NHAI, Railways, RTO etc. and any other utility companies / agencies such OFC operators etc are in the scope of the contractor. The scope also includes liasioning with Society / individual land owners for smooth execution of pipeline laying. 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.</p>				
<p>All the Proposed route alignment drawings of main pipeline (125/63/32/20 mm) shall be indicated by BGL/consultant. 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 (125/63/32/20mm) , re- route alignment drawing shall also be prepared by contractor.</p>				
<p>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.</p>				



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<p>After laying of Pipeline, back filling with available soft soil 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 300 mm wide as per attached specifications), dressing the backfilled and compacted soil and backfilling & compaction of remaining trench depth with available soil. Item includes cost of transportation, loading & unloading and labor for placing the bricks in trenches</p>				
<p>The item also include interconnection with the existing PE network by extending/tapping from the commissioned PE pipeline through saddle tapping or any other method. Excavation for such pits, making safety barricading etc.,</p>				
<p>Once pipeline network is completed, pneumatic testing is required to be carried out as per the detail's specification. After testing nitrogen purging is required to be done for complete network as per the specification.</p>				
<p>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.</p>				
<p>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 contractor without any additional cost to BGL.</p>				
<p>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)</p>				



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	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)	20/32 mm PE 100 pipe	Meters	36000	365.00	1,31,40,000.00
b)	63 mm PE 100 pipe	Meters	14000	400.00	56,00,000.00
c)	90/125 mm PE 100 pipe	Meters	8000	462.00	36,96,000.00
	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 pipeline of minimum 150 mm thickness. The supply of the soft soil / sand is also in scope of this particular item.				
a)	20/32 mm PE 100 pipe	Meters	100	442.00	44,200.00
b)	63 mm PE 100 pipe	Meters	100	554.00	55,400.00



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c)	90/125 mm PE 100 pipe	Meters	100	567.00	56,700.00
1.3	Same as item 1.1 above but with built-up sections (different type of pavement/foot paths/roads etc.,) on the top surface.				
a)	20/32mm PE 100 Pipe	Meters	7500	407.00	30,52,500.00
b)	63 mm PE 100 pipe	Meters	3000	461.00	13,83,000.00
c)	90/125 mm PE 100 pipe	Meters	1000	536.00	5,36,000.00
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: Warning mat is not required to be laid in above pipe line.				
a)	20/32mm PE 100 Pipe	Meters	7000	475.00	33,25,000.00
b)	63 mm PE 100 pipe	Meters	2000	513.00	10,26,000.00
c)	90/125 mm PE 100 pipe	Meters	200	463.00	92,600.00
1.5	Same as item no 1.1above but pipeline laying by using manual/ machine moling technique (with casing pipe) for PE pipe sizes. The items also include supply of HDPE casing pipe of PE 100 PN 6 as per specifications. 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	400	597.00	2,38,800.00
b)	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe)	Meters	300	684.00	2,05,200.00
c)	90/125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe)	Meters	300	1592.00	4,77,600.00



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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)	20/32mm PE 100 Pipe	Meters	200	654.00	1,30,800.00
b)	63 mm PE 100 pipe	Meters	3000	805.00	24,15,000.00
c)	90/125 mm PE 100 pipe	Meters	3000	2184.00	65,52,000.00
ii)	HDD With casing Pipe				
a)	32mm PE 100 Pipe (in 63 mm dia. HDPE Casing Pipe)	Meters	50	788.00	39,400.00
b)	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe)	Meters	200	1106.00	2,21,200.00
c)	90/125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe)	Meters	200	2912.00	5,82,400.00



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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	500	717.00	3,58,500.00
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.	Meters	300	599.00	1,79,700.00
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	300	726.00	2,17,800.00
3	Supply and Laying of Bricks				
	Supply and placing of class 50 bricks in trenches as per the direction of EIC and as per the specification,drawing & Instructions of EIC. Item includes cost of transportation,loading and Un loading and labour for placing the bricks in trenches.				
a)	20/32mm PE 100 Pipe	Meters	44000	45.00	19,80,000.00
b)	63/90/125 mm PE 100 pipe	Meters	26000	65.00	16,90,000.00
4	Supply and installation of PE stop off Isolation Ball Valves				



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	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, tapings and handles etc.,. 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.	48	5,261.00	2,52,528.00
b)	PE Valve,63 mm dia	Nos.	18	7,516.00	1,35,288.00
c)	PE Valve 90mm dia	Nos.	5	11,985.00	59,925.00
	PE Valve 125mm dia	Nos.	7	22,945.00	1,60,615.00
5	Construction of Valve pits				
	Construction of Value Pits as per the enclosed drawing nos. MEC/23QQ/01/31/T4/PE/LY/014/R0/A3 and MEC/23QQ/01/31/T4/PE/LY/015/R0/A3 and specification. The item includes supply of all the material including Pre-cast RCC cover, shuttering, reinforcement, labor, curing etc as per the drgs ,specification and instruction of EIC.				
a	Type-1 having Internal size of Minimum 1000x1000mm	Nos.	28	29,477.00	8,25,356.00
b	Type-2 having Internal size of Minimum 600x600mm	Nos.	50	23,612.00	11,80,600.00
6	Fabrication & Installation of Markers				
i)	RCC Route Markers				
	Supply, fabrication and installation of RCC route markers as per the attached drawing no. MEC/23QQ/01/31/T4/PE/LY/020/R0/A3, along the route including transportations of Marker. Item also includes excavation of pit in all type of soil, Concrete Grouting of Maker and removing of debris from site all complete.	Nos.	1750	713.00	12,47,750.00
ii)	Pole Markers with Foundation				



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	Supply, fabrication and installation of pole markers as per the attached drawing no. MEC/23QQ/01/31/T4/PE/LY/018/R0/A3 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	4200.00	1,26,000.00
7.0	PNG Connection to Domestic consumers				
7.1	Installation of Domestic connections				
	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied GI pipes of all sizes, Isolation and appliance valves (as free issue items) from Owner's designated place(s) of issue to Contractor's own 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 Supply of GI/ MS/ Concrete Sleeves etc., installation & Fixing of meters with associated inlet and outlet connections/ fittings, valves approved meter brackets and other supports by proper scaffolding/ grouting, 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. , GI line (along with installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials (except Owner supplied materials), consumables, labor and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated store; carrying out all temporary, ancillary,	Nos	1800	3100.00	55,80,000.00



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	auxiliary works required to make the GI line ready for commissioning as per drawings, specifications etc.,				
	scope of work indicated in tender specification 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, sketches.				
	Finalization of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.				
	Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety devices.				
	Installation of GI Pipes & Fittings, Valves etc. including NPT threading, painting as specified (installation of meters & regulators forms a separate SOR item). Supply of TF along with GI sleeves wherever required.				
	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 above Ground service GI pipes, testing, purging with Nitrogen and commissioning of the complete installation as per specification.				
	Touch up painting of entire length of pipe along with fittings as per specification & direction of EIC. Restoring the wall surface to origin				
	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.				
	Handing over the completed works to BGL for their operation/ use, returning of all free issue surplus material to BGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate" from BGL.				



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	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 rates.				
8.0	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 Engineer-in-charge.				
a)	Hot plate/ burner	Nos.	3500	85.00	2,97,500.00
9.0	DRS works				
	Installation of DRS				
	Receiving and taking over, handling, loading, transportation and unloading of DRS Skid from Owner's designated stockyards to site, 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.				



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a	DRS (Maximum weight of single DRS shall be about 6.0 T)	Nos	3	60,790.00	1,82,370.00
10	<u>CIVIL WORKS</u>				
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.	M²	100	208.00	20,800.00
	(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.	M³	70	5,001.00	3,50,070.00
10.3	PCC 1:4:8				
	1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	M³	70	4,746.00	3,32,220.00
	(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	50	10,138.00	5,06,900.00
	Rate to include cost of all labor, 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 syndry 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				



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	Engineer-in-charge.				
	- 150mm thick (Type-I)	M²	40	3,086.00	1,23,440.00
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 curing, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	M³	50	4,728.00	2,36,400.00
	(Rate to include cost of all labor, 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).				
	<u>Note</u> : 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	<u>Sand filling</u>	M³	100	2,869.00	2,86,900.00
	Sand filling of 150mm in layers for MDPE as per the instructions of engineer in-charge.				
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 foundations and RCC beams.</u>	No.	5	20,904.00	1,04,520.00



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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 <u>excluding</u> foundation and RCC beams.	RM	75	3,165.00	2,37,375.00
12	Liasoning				
	Liasoning and co-ordination with all statutory authorities having jurisdiction. Submission of application to the authorities expedition, follow-up, preparation of drawings and approvals. Maintaining good cordial relations with the authorities. Receipt of demand note.	Mtrs	50000	22.75.00	11,37,500.00
13	Marketing	No.	1200	300	3,60,000.00
	The activity includes collection of PNG-Domestic registrations and submission to BGL as per the marketing schemes of BGL.				
	Sub- Total Amount (inclusive of all taxes and duties except GST)				6,10,39,857.00
				<u>GST@18%</u>	1,09,87,174.26
	Grand Total Amount incl. of GST & All taxes & Duties in (INR)				7,20,27,031.26



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SUMMARY OF SCHEDULE OF RATES

Sl. No	Description	Total Estimated Cost (including GST) in Rupees	Quoted Variation		
			'INCREASE' OR "DECREASE" (Refer note no 1 below)	Percentage In Figures	Percentage In Words
(1)	(2)	(3)	(4 a)	(4 b)	(4 c)
1	Laying of MDPE Network, Above Ground GI Piping & Other Associated Works for Supply of PNG in Vijayawada GA	7,20,27,031.00			
Note: Bidder's total price to be arrived by applying quoted % age increase / decrease on total estimated cost given at col. No. 3 above.					

Note:

1	Under column '4a', the bidder has to indicate clearly either " INCREASE" or " DECREASE " as applicable. In case the column is left blank, it will be considered as "DECREASE" in terms of percentage.
2	In case of discrepancy between percentage in figures & words, percentage in words will prevail.

Place : _____
Date : _____

Signature of Authorized Signatory
Name :
Designation :
Seal :