



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

BID DOCUMENT FOR

**TENDER FOR LAYING OF MDPE NETWORK & ABOVE
GROUND GI PIPES AND OTHER ASSOCIATED WORKS
FOR SUPPLY OF PIPED NATURAL GAS IN KAKINADA
CITY.**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/364/2017-18

SCHEDULE OF RATES/PRICE SCHEDULE



**Tender for Laying of MDPE Network & Above Ground GI Pipes
and Other Associated Works For Supply of Piped natural gas in
Kakinada City.
Bid Document No. BGL/364/2017-18**

**SOR/PRICE
SCHEDULE**

Item No.	DESCRIPTION	UOM	Qty (A)	Unit Rate inclusive of all taxes & duties except service Tax in Rs. (B)	Total Amount inclusive of all taxes & duties except service Tax in Rs. (C) =(A) X (B)
1.0	PE PIPELINE				
1.1	Pipe Laying in any unprepared surface (Katcha Surface)				
	<p>"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied PE 100SDR11 line pipes of all sizes (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 preliminary activities ,preparation of drawings, wherever required for crossing etc., carrying out inspection of company supplied PE pipes at the time of taking over providing insurance cover , including supply of accessories of all sizes & thickness like Bends, Couplers, Endcaps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping, Warning Mat etc.. Handling, Stringing/ uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use/route , laying/ installation of PE line pipe along with required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; additional lands required for contractor's storage , fabrication, access for construction; procurement and supply of all materials (except Owner supplied materials), consumables, equipments, labour and other inputs.</p>				



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	<p>carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawings, specifications, scope of work indicated in the scope and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:</p>				
	<p>Surveying of route and detours required at the time of execution including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.</p>				
	<p>Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.</p>				
	<p>Staking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area.</p>				
	<p>Grading the ROU, barricading the work area as per local authorities norms & to the entire satisfaction of Owner/ EEngineer -in- charge., installation of safety signs.</p>				



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<p>Trenching to all depths by excavation in all types of soils including soft/rocky strata kachha surface excluding rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/specification etc. [The minimum depth of the top of pipeline shall be 1.0m measured from top of pipeline coating to the top of undisturbed surface of the soil or as per Specification/ OISD - 226 & PNGRB latest guidelines whichever is higher]. Dewater of trenches if required as per site condition. repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies)</p>				
<p>Uncoiling/ stringing & aligning of PE pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.</p>				
<p>Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings, supply & placement of 1.0mm thk. HDPE Yellow colour warning mat over the pipeline along the complete route as per standard drawings, data sheets & technical specifications, padding around pipeline including padding material duly , backfilling to its original condition with excavated earth & watering & compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for restoration & their Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities/Institutions/customers. All tiles/slabs/curb stones etc removed during excavation shall be placed properly.</p>				
<p>Installation and electro-fusion jointing of pipes with couplers all types of PE fittings, saddles etc., valves including hook-up, wherever required and as directed by Engineer-in-charge.</p>				



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	<p>Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.</p>				
	<p>Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Land Owner as per the instructions of Engineer-in-charge.</p>				
	<p>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.</p>				
	<p>Preparation and submission of Daily progress report, Laying Graphs/ PE/ GI line cards on daily basis.</p>				
	<p>On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.</p>				
	<p>Submission of all documents required for contract closure in numbers as mentioned in contract.</p>				
	<p>Wherever, MDPE lines need to be laid along with Steel Pipelines or other foreign pipelines skin to skin distance of 500mm shall be maintained between outer surfaces of pipeline.</p>				
	<p>Obtaining NOC from the concerned authorities after completion of work, work permits from authorities and completion of work as per the schedule.</p>				



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	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 schedule duration .All the work shall be executed in accordance with the provision of contract.				
a)	20/32mm PE 100 pipe				
	Kakinada City	Meters	1900	400	760,000.00
1.2	Pipe Laying in built-up surface/ carpet roads/ Concrete Roads /Pavement/ foot path etc.,				
	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied PE 100SDR11 line pipes of all sizes (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 preliminary activities ,preparation of drawings, wherever required for crossing etc., carrying out inspection of company supplied PE pipes at the time of taking over providing insurance cover , including supply of accessories of all sizes & thickness like Bends, Couplers, Endcaps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping, Warning Mat etc.. Handling, Stringing/ uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use/route , laying/ installation of PE line pipe along with required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; additional lands required for contractor's storage , fabrication, access for construction; procurement and supply of all materials (except Owner supplied materials), consumables, equipments, labour and other inputs.				



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	<p>carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawings, specifications, 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:</p>				
	<p>Surveying of route and detours required at the time of execution including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.</p>				
	<p>Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.</p>				
	<p>Staking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area.</p>				
	<p>Grading the ROU, barricading the work area as per local authorities norms & to the entire satisfaction of Owner/ Engineer -in- charge., installation of safety signs.</p>				



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<p>Trenching to all depths by excavation in all types of soils including soft/ rocky strata and different type of pavement / footpath / bitumen carpet / concrete roads etc. excluding rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0m measured from top of pipeline coating to the top of undisturbed surface of the soil or as per Specification/ OISD - 226 & PNGRB latest guidelines whichever is is higher]. Dewater of trenches if required as per site condition. repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies)</p>				
<p>Uncoiling/ stringing & aligning of PE pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.</p>				
<p>Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings, supply & placement of 1.0mm thk. HDPE Yellow colour warning mat over the pipeline along the complete route as per standard drawings, data sheets & technical specifications, padding around pipeline including padding material duly , backfilling to its original condition with excavated earth & watering & compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for restoration & their Restoration shall be carried as per separat SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities/Institutions/customers. All tiles/slabs/curb stones etc removed during excavation shall be placed properly.</p>				



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	Installation and electro-fusion jointing of pipes with couplers all types of PE fittings, saddles etc., valves including hook-up, wherever required and as directed by Engineer-in-charge.				
	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.				
	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Land Owner as per the instructions of 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.				
	Preparation and submission of Daily progress report, Laying Graphs/ PE/ GI line cards on daily basis.				
	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.				
	Submission of all documents required for contract closure in numbers as mentioned in contract.				
	Wherever, MDPE lines need to be laid along with Steel Pipelines or other foreign pipelines skin to skin distance of 500mm shall be maintained between outer surface of pipeline.				



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	Obtaining NOC from the concerned authorities after completion of work, work permits from authorities and completion of work as per the schedule.				
	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 schedule duration .All the work shall be executed in accordance with the provision of contract.				
.a)	20/32mm PE 100 pipe				
	Kakinada City	Meters	1200	425	5,10,000.00
	Note:				
i)	The rate shall include all the works of pipeline laying including the restoration of trenches with selected back fill materials as per the requirement and instructions of EIC,.				
1.3	Pipe laying using manual moling technique (without casing) for PE pipe sizes of :				
	Excluding supply of all MDPE pipe (PE 100 SDR11&17.6), but Including supply of HDPE casing pipe, Couplers, End caps etc. as per the scope, drawings, specifications in the tender documents.				
	Survey of underground utilities, execution of the work as per specification, approved procedure, including excavation of pits moling with the hole size not exceeding 20% of the pipe dia, jointing and insertion of carrier pipe, testing & commissioning and restoration of the pits to original condition, submission of as-built graphs as per specifications and the instructions of EIC.				
a)	20/32 mm PE 100 pipe	Meters	1200	500	6,00,000.00



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2.0	PNG Connection to Domestic consumers				
2.1	Installation of Domestic connections				
	<p>"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, labour 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, auxiliary works required to make the GI line ready for commissioning as per drawings, specifications etc.,</p>				
	<p>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.</p>				



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	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, purgin 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.				
	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.	Nos.	500	3000	15,00,000.00
	Note:				



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	1.The above quantity is including of Installation of approx. 500 Nos.of.Domestic Connections in Kakinada Area as per the instructions of EIC..				
2.2	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.	1800	50	90,000.00
3.0	Protection Bricks				-
	Supply & Installation of Protection Bricks along the Pipeline.The Measurement as the length of the pipeline backfilled.	Mtrs	1000	40	40,000.00
	Total amount inclusive of all taxes & duties except service Tax in (Rs)				35,00,000.00



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SUMMARY OF SCHEDULE OF RATES

Sl. No	Description	Total Estimated Cost (Excluding Service Tax) 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 PIPES AND OTHER ASSOCIATED WORKS FOR SUPPLY OF PNG IN KAKINADA CITY	35,00,000.00			
2	Service Tax (incl. Swachh Bharat cess & Krishi kalyan cess) @ 15% on 40% of bidder's quoted total price shall be payable extra as per provisions of tender document. 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 :

(Seal & Stamp of Bidder)