


 Bhagyanagar Gas Ltd.	BHAGYANAGAR GAS LIMITED CITY GAS DISTRIBUTION PROJECT AT HYDERABAD, VIJAYAWADA AND KAKINADA LAYING & CONSTRUCTION OF 6" & 4" NB U/G STEEL P/L NETWORK & ASSOCIATED WORKS AT KAKINADA	 मेकॉन ISO 9001 Company
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BID DOCUMENT NO. MEC/23R8/01/51/D2/T02/ER/6506

PRE-BID MEETING HELD AT BHAGYANAGAR GAS LIMITED, HYDERABAD ON 13.11.2017 AT 11:30 HRS

CLARIFICATIONS TO PRE-BID QUERIES GIVEN BY BGL / MECON

SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
1)	SOR – Mainline works	<p>In SOR 4.1.1 - Crossing by HDD on Nalla, Road and etc., mentioned as 610meters as whole, where in in our site visit we observed as below:</p> <ul style="list-style-type: none"> a. 330 meters one stretch having Road -River-Road. b. 100 meters one stretch having Road with Roundabout. c. 50 meters two stretch having Nalla crossing. d. 80 meters one stretch having Nalla crossing. <p>Rates of HDD may differ according to type of HDD work, as machineries and labour requirement will be different for Nallah Crossing, Road Crossing and River Crossing. Hence we request you to split the HDD which will facilitate to estimate / quote reasonably based on the works.</p>	<p>The bidders are to consider all the site conditions in their prices and quote accordingly.</p>
2)	Vol.1	<p>Completion Period of 6 months is not at all enough comparing the geographical condition and nature of works involved. We request you to consider three more months' i.e., 9 Months in total.</p>	<p>Tender conditions prevails.</p>
3)	SOR – Mainline works	<p>We request you consider ML-1, 4.2.1 having note of conducting hydrological survey is in the scope of Bidder. Estimation shall be done considering this also.</p>	<p>Bidder's understanding is correct.</p>



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4)	SOR – Piping & Mechanical works (Item No. 3.1.3)	As per item description 6" and 4" NB valves are free issue items. Please confirm whether we have to quote rate for erection of 2" BV or supply rates also for 2" BV. i. e. Item No. 3.1.3 of SOR.	Bidder to quote for all the items as described in the SOR.
5)	SOR - Mainline works	SOR Mainline Works line item no. 5.1.1.a) and 14.1 (Unequal Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW, the both line items are not clearly visible. So, please provide the quantity of the said line items or visible copy of SOR.	Legible copy of SOR is attached.
6)	SOR - Mainline works	SOR page no. 13 of 29 & 16 of 29 , where item details and quantity are missing.	Legible copy of SOR is attached.
7)	SOR - Mainline works	Item description and quantity of item no. 5.1.1 (a) & 1.4.1 is not legible.	Legible copy of SOR is attached



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8)	SOR - Mainline works	Kindly provide excel format	Excel format cannot be provided.
9)	SOR - Mainline works	Kindly confirm availability Permissions	The bidder scope also includes "liasioning with state authorities / owners: Obtaining ROU and all permissions from the concerned land-owning / statutory authorities along the proposed route / area. However, the required statutory / mandatory fees will be paid by M/s BGL against demand note. The liasioning during the pipeline laying execution with local authorities & local officials, traffic police, police and any other utility companies / agencies such OFC



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			<p>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. Liasioning for other associated works like SV station / DRS Station & valve pits etc. also included in this.”</p> <p>The above Is mentioned under item no. ML-1 (1.1) of SOR</p>

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10)	General	--	The Queries & Replies thus issued shall form part of the Tender Document and shall be taken care of before submission of the bid.



Bhagyanagar Gas Ltd.

LAYING AND CONSTRUCTION OF 6", 4" NB U/G STEEL P/L NETWORK ASSOCIATED WORKS FOR CITY GAS DISTRIBUTION PROJECT IN KAKINADA



MECON LIMITED

1	MAINLINE WORKS				
Sl. No.	Description of Item	Unit	Total Quantity	Unit Rate all inclusive except GST	Total Amount all inclusive except GST
	<p>Note: The scope of work for laying the gas pipe line along the creek includes carrying out required Hydrogeological survey. The hydrogeological survey shall minimum the following aspects to facilitate laying the proposed gas pipe line along the Creek (Approx. 200 m)</p> <p>i) Identification of ground water table and its movement along creek cross section. ii) Sea water interface studies due to existence of Creek and its impact zone on the proposed gas pipe line.</p>				
ML-5	CASED CROSSING:				
	Complete work of the road (National Highway, State Highway, MDR) or Rail crossing (between the limits as defined in approved drawings) including handling, loading, transportation, unloading to Contractor's own stock yard/ work site.				
	Pre-construction survey and making of crossing drawing based on site visit and getting their approval from concerned Authority/ & Engineer-in-charge prior to start the execution of work.				
	<p>Supply and Installation of casing pipe by jacking/ boring/or as described below for rail crossings in all type of soil strata including soft / hard rock and open cut for adjacent service road, canal, minor nature of water channel, utility line crossing etc. (if any) wherever required for all depth in all type of soils and terrain for carrier pipe insertion. All other Contractor supplied materials like casing insulators, Zinc Ribbon Anodes and casing end seals as per enclosed specification/ drawings materials for casing vents and drain assembly etc. including supply of all other materials, equipments, consumables, manpower, welding including visual inspection of all weld joints. The casing pipes shall conform to material API 5L Gr. B / IS : 3589 or equivalent ERW Pipe duly Corrosion coated of High build epoxy of minimum 450 microns thickness</p>				
	Preparation of required length of carrier pipeline welded string including all other works as mentioned in item no. 1.0 above and as per specification/ drawings. Insertion of carrier pipe in casing pipe after above ground pretesting at specified test pressure including installation of casing insulators and Zn ribbon anode as per approved design calculation, specification/ drawings. Installation of vent and drain assembly, fixing of end seals, backfilling and restoration as original of the facilities crossed and performing all other works including pigging, cleaning, final hydrotesting etc. alongwith mainline works (as mentioned in item no. 1.0 above) and as per specification, approved procedure, drawing etc. and instruction of Engineer-in-charge and provision of contract document, getting NOC from all concerned Authority of the facilities crossed.				
	Details of X-ings				
5.1.1	cased crossings in all type of Soil excluding HARD ROCK AREA				
a)	By Jacking/ Boring of Casing Pipe - 273.0mm OD, 7.83 mm wall thk. (for 6" NB pipeline)		M	50	



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MECON LIMITED

1	MAINLINE WORKS				
Sl. No.	Description of Item	Unit	Total Quantity	Unit Rate all inclusive except GST	Total Amount all inclusive except GST
12.1.3	46° - 60°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	5		
12.1.4	61° - 90°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	10		
12.2	Supply of Long Radius Bends (R = 3D) for 4" dia.pipe, (thk. 6.4 mm) as per specification enclosed in Tender Document. (Installation of bends is included in the pipeline laying and measured along with the pipeline)				
12.2.1	22.5 ° and lower MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	5		
12.2.2	23 °- 45°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	3		
12.2.3	46° - 60°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	2		
12.2.4	61° - 90°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.	Nos.	2		
	Note : The quantities of LR Bends may vary. For final quantity, approval from EIC shall be taken before order.				
ML-13	VALVE ERECTION				
	Handling including lifting and transportation from COMPANY's warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves, including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of Engineer-in-charge including servicing/ cleaning of valve wherever required.				
13.1	Erection of all types of valves in valve pits on underground pipe lines				
a)	6"		4		
b)	4"		4		
c)	2"		8		
ML-14	SUPPLY & ERECTION OF OF FITTINGS AND FLANGES in valve pit				
	Complete work of supply of fittings and flanges including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant specifications indicated in clause of SCC & scope of work indicated in SCC, drawings, specification and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT.				
	Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items supplied by Contractor.				
14.1	Unequal Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW				
14.1.1	6" x 4"	Nos.	4		



LAYING AND CONSTRUCTION OF 6", 4" NB U/G STEEL P/L NETWORK ASSOCIATED WORKS FOR CITY GAS DISTRIBUTION PROJECT IN KAKINADA



MECON LIMITED

2-(I) CATHODIC PROTECTION WORKS					
Sl. No.	Description of Item	Unit	Quantity	Unit Rate all inclusive except GST	Total Amount all inclusive except GST
(1)	(2)	(3)	(4)	Figures	(4) x (5)
(1)	(2)	(3)	(4)	(5)	(6)
TCP-1	TEMPORARY CATHODIC PROTECTION SYSTEM				
1.1	Survey, Design, detail engineering of the temporary Cathodic protection system using Mg (Min 3.0 Kg Each)/ Zn galvanic anodes to protect the external surface of 6", 4" dia , 3LPE Coated pipeline in the Geographical Area (GA) of Kakinada against corrosion for a design life of minimum 2 years as per standard specification enclosed with the tender for temporary cathodic protection system, approved design document, data sheets & drawings. Scope shall also include but not limited to the following for completion of jobs:				
a)	Measurement of soil resistivity along the right of way of the main pipeline & take atleast one soil sample for one pipeline section for its chemical & microbial analysis along the pipeline route as per specification for corrosion survey MEC/TS/05/21/016C.				
b)	Collection of additional data related to cathodic protection along the right of way of pipeline as per standard specifications.				
c)	Design, Detail Engineering, Preparation of Design Document, Preparation of Test station schedule & Bill of Material as per the corrosion survey & Chemical analysis of Soil / Water samples for Temporary Cathodic Protection system.				
i)	6" Pipeline section from IJ to IJ with varying length and for requisite No. of sections	km	8.73		
ii)	4" Pipeline section from IJ to IJ with varying length and for requisite No. of sections	km	1.00		
	Note: Design shall be carried out from Insulation Joint to Insulation Joint. Each stretch of length will vary from location to location				
1.2	Manufacturing, Inspection/FAT (Factory acceptance test), supply, Packing, transportation to site, storage, installation, testing & commissioning of the temporary Cathodic protection system using Mg (Min 3.0 Kg Each)/ Zn galvanic anodes to protect the external surface of 6", 4" dia , 3LPE Coated pipeline in the Geographical Area (GA) of Kakinada against corrosion for a design life of minimum 2 year as per standard specification enclosed with the tender for temporary cathodic protection system, approved design document, data sheets & drawings. Scope shall also include but not limited to the following for completion of jobs:				
a)	Supply, installation, testing & commissioning of Mg/ Zn Galvanic anodes including carrying out Thermit welding on main pipeline, supply of clits, cables to connect to anodes as per the standard specification- MEC/TS/05/E9/016A. The weight of the Mg Anode & the total nos. of anodes shall be calculated as per the result of corrosion survey, soil chemical analysis, total weight and current requirement of the pipeline section. However, Min one anode is to be installed at every one KM with test station. The scope of work includes the the following:and also to be carried out as per approved design including supply of all item				
b)	Supply, Installation, Testing & commissioning of Test stations (Big Size & Normal Size) weather proof (IP-55) as per specification & enclosed drawings.				
c)	Supply, installation, testing & commissioning of one set of spark gap arrestor 100 kA (Solid State) across each insulating joint provided at tap-off, SV & various consumer terminals as per scope of work / specification. The un-protected/above ground pipeline shall be earthed through GI earth electrodes with separate earth pit. The resistance of grounding shall be limited to 5 ohms max.				
d)	Supply, installation, testing & commissioning one set of polarization cell (Solid State) with zinc anode at all high tension electrical power transmission line/equipments /railway tractions (all 66 KV & above) crossing or running parallel to the pipeline for grounding purpose as per specification. The rating shall depend upon anticipated fault current & ground bed resistance at the location of installation. However, the rating of polarisation cell (solid state) shall not be less than 3.7 KA @ 30 cycle & number of 20 kg net weight zinc anode shall not be less than two.The resistance to earth of grounding shall be limited to 5 ohms max.				
e)	Supply & installation of Zinc Ribbon Anodes at 4-8 O'clock position in the interval of 2 meter (max.) on carrier pipes where casing pipe is coated and no additional protection for carrier pipe where casing is bare which also includes Zn bentonite filling b/w carrier & casing cased crossings i.e. roads etc as per specification & Scope of work.				
f)	Bonding in between pipelines running parallel or crossing as required.				
g)	Supply, Laying of HDPE/PVC sheets between BGL pipeline and the other CP protected foreign pipelines at the crossing locations for providing electrical isolation.				
h)	Earthing of above ground cathodically unprotected pipeline at , SV, R/T & D/T etc, as applicable the earth electrode shall be 65 mm dia, 4.5 mm thickness & 3000mm long.				
i)	Supply, installation, testing & commissioning of Electrical resistance Probes (1 No. with 1 no. of ER probe reading Instrument)(if applicable) utilizing the electrical resistance technique shall be provided along the pipeline at marshy areas and at vulnerable locations to monitor the external corrosion activity on the pipeline. Location of external ER probe shall be decided during detail engineering.				
j)	Supply, installation, testing & commissioning of Polarisation coupons (2 Nos.) (if applicable) have one side exposed area of 100 mm x 100 mm with 2 nos. of spare coupons shall be provided along the pipeline at marshy areas and at vulnerable locations to monitor the external corrosion activity on the pipeline as per enclosed standard specification. Location of external Polarisation coupons shall be decided during detail engineering. Magnetic devices for operation of magnetic switch shall be provided.				