

	CORRIGENDUM #1 For SMART METERING SYSTEM for CITY GAS DISTRIBUTION PROJECT AT HYDERABAD, VIJAYAWADA AND KAKINADA <u>Bid Document No. MEC/23R8/01/51/S2/CF/00/0007</u>	Date: 21.12.2016
		Owner: M/s BHAGYANAGAR GAS LIMITED

Sl. No.	Description	Volume	Tender Page No.	Clause / Para / Section	Amendment / Addition / Modification / Deletion	
1.	Inspection	II of II	Page 11 of 22 & Page 17 of 22	Clause no. 11.0 & Section II Material Requisition	Amendment	<p>Following amendment shall be applicable for all the bidders (irrespective of Indian/Foreign):</p> <p>Third Party Inspection (TPI) shall be in the scope of the bidder (Indian/Foreign) and the TPI charges are to be included in the quoted prices.</p> <p>Arranging Third Party Internationally recognized Inspection agencies like Lloyds, ABS, SGS, TUV, DNV, BV, Engineers India Limited, or any other Third Party Inspection agency only with prior approval of BGL/MECON, for witnessing inspection and testing related to item no. A.1.0 to A.10.0 & B.1.0 to B.4.0, Workshop and at his sub-vendors workshop as required.</p> <p>Other than the TPI agency, BGL/MECON representative(s) may also carry out inspection during manufacturing / final inspection at the works of the manufacturer and Cost towards this will be borne by owner.</p>
2.	Evaluation and Comparison of Bid:	I of II	Page 32 of 132	Clause no. 31.4.1 (i) (b)	Amendment	<p>i) WHERE INDIGENOUS & FOREIGN BIDS EXIST:</p> <p>a) The comparison between indigenous & foreign offers shall be done as enumerated at (A) & (B) above.</p> <p>b) DELETED</p>



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BID DOCUMENT NO. MEC/23R8/01/51/S2/CF/00/0007

PRE-BID MEETING HELD AT BHAGYANAGAR GAS LIMITED, HYDERABAD ON 07.12.2016 AT 11:00 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)	Clause no. 4.0 of SCC Delivery Schedule for Domestic and Foreign Bidder's Page No.: 91 of 132 of Vol. I of II	The delivery period of 3 months for Lot 1 is grossly inadequate for delivery of Domestic Diaphragm Meter. As the meters are manufactured outside India and considering the transportation time and the Third Party Inspection, We would request BGL/MECON to kindly consider delivery period of atleast 16-18 weeks from the date of FOI/PO for the Domestic meters.	Tender conditions prevail.
2)	4.0 Delivery Schedule for Domestic and Foreign Bidder's Page No.: 91 of 132	The delivery period of 3 months is grossly inadequate for delivery of Commercial Diaphragm Meter. As the meters are manufactured outside India and considering the transportation time, We would request BGL/MECON to kindly consider delivery period of at least 18-20 weeks from the date of FOI/PO for the commercial meters.	Tender conditions prevail.
3)	2.0 Scope of works Point No. 1 Page No. 4 of 23	All the commercial meters are manufactured in Europe. Considering the quantity of Commercial meters and inspection charges which comes to be more than the cost of meters. We request BGL/MECON kindly waive of the Third party inspection for Commercial meters. All relevant documents and factory calibration report can be submitted. All the meters supplied are MID approved and as per EN:1359-2006-A1	Tender conditions prevail.



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4)	Price Reduction Schedule Clause No. 15.1 of SCC Page No. 4 of 23	As per our understanding Price reduction schedule shall be applicable only on undelivered portion, please confirm.	Refer clause no 15.1 of SCC wherein it is mentioned that the PRS will be applicable for the unsupplied portion of that particular delivery LOT for Group A and total quantity for Group B
5)	2.0 Scope of works Point No. 1 Page No. 4 of 22	SIM Card is usually provided by the Owner as the same require registration in the name of Owner which require lot of Legal documentation form BGL/MECON/Owner. It also needs control over the service Provider for the proper functioning of supplied sim cards. It is therefore, practical for the Owner to provide the sim cards. Hence we request BGL/MECON to please remove the supply of Sim Cards from the scope of Supply.	Tender condition prevails. The SIM cards, telecom services, etc. shall be in the name of the purchaser only. Bidder's scope includes engaging telecom service provider and establishing the GPRS/GSM communication network for smart metering operations along with supply and installation of SIM cards and all other necessary equipment, accessories, etc. including liasoning for necessary approvals, monitoring, controlling, if required. Finalisation of Service provider shall be done only after approval of BGL/MECON.



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			All initial & fixed charges, one time charges (OTC), hardware/software charges, advance charges/payments (Including advance rentals) shall be in bidder's scope. However actual Monthly rental/bandwidth usage bills will be paid by BGL at actuals after completion of the month from the day of commissioning.
6)	2.0 Scope of works Point No. 1 Page No. 4 of 23	To be at par for all bidders, we request BGL/MECON to kindly provide us with the technical specifications / data sheet for Hand held units and Android mobile.	Tender conditions prevail.
7)	2.0 Scope of works Point No. 1 Page No. 4 of 22	We request BGL/MECON to elaborate the scope for engaging third party service providers.	Please refer point 5 above.
8)	2.0 Scope of works Point No. 7 & 8 Page No. 5 of 22	Department of Legal Metrology (Government of India) has made it mandatory to supply the meters with the model approvals. As per our understanding quoted meters shall be approved by Department of Legal Metrology (Government of India), please confirm.	Tender conditions prevail.



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
9)	A. Diaphragm Meter Point No. 1 Page No. 6 of 22	May we please request BGL/MECON to elaborate the term compact size, as Domestic diaphragm meters with bigger cyclic volume (1.2) are by far best suitable. Any meter manufacturer with small cyclic volume will probably have a significant error shift over the life time and the diaphragm will get leak after some years of operation. We understand that manufacturer with proper volume size and relevant successful operation in major CGD companies will only be accepted in this tender.	Tender conditions prevail.
10)	A. Diaphragm Meter Point No. 2 Page No. 6 of 23	Please note that For Commercial Meters G6 and above the cut off valves is External, fitted on the meter. May we, therefore, request BGL / MECON for the acceptance of the Meters with external Valve for G6 and above?	External valves for prepaid type commercial meters is acceptable. However, in such case the valve and the meter shall be located in a secured enclosure to avoid tampering.
11)	A. Diaphragm Meter Point No. 3 Page No. 6 of 22	According to the directive 2004/22/ECJ article 17 and annex I, paragraph 9, the following inscriptions must appear on the identification label or at another perfectly visible place: <ul style="list-style-type: none"> • Reference or name of the manufacturer • Accuracy class • Maximum and minimum ambient temperature tm 	Tender conditions prevail. However the same can be finalized after award of contract.



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		<ul style="list-style-type: none"> • Maximum and minimum gas temperature tg if different to tm • Maximum admissible gas gauge pressure • Largest and smallest flow rate Qmax and Qmin • If necessary, the value of the output pulses • The identification, comprising the type designation in accordance with section I; the indication of the cyclic volume may also be indicated separately from the rest of the type designation. • The number of EC type examination certificate • The CE mark and the additional metrology mark (MID) • Indication of the unit of measurement m³ in immediate vicinity of the smallest digit of the drum index. <p>Please confirm on the same.</p>	
12)	A. Diaphragm Meter Point No. 4 Page No. 6 of 22	<p>The diaphragm gas meters are volumetric gas meters where the volume is measured by periodical filling and emptying of several measuring chambers with deformable (moving) partitions (diaphragms) usually designed for long run.</p> <p>As per the clause 4.4 of EN1359 Meters meeting the requirements of this standard except for Annex F are deemed suitable for installation in closed (indoor or outdoor with</p>	<p>Tender conditions prevail.</p> <p>IP 54 or better is acceptable.</p>



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
		<p>protection as specified by the manufacturer) locations with condensing humidity.</p> <p>If the manufacturer declares that the meter is suitable for installation in open (outdoor without any protection) locations with condensing humidity then it shall also meet the requirements of Annex F.</p> <p>In view of the same we request BGL/MECON to kindly confirm acceptance of IP54 also.</p>	
13)	A. Diaphragm Meter Point No. 8 Page No. 6 of 22	<p>As per the prevailing practice mounting accessories are not usually demanded by CGD companies as the same is decided depending up on the site conditions by them. Hence may we request BGL/MECON to please remove this condition?</p> <p>In case the same is required may we request BGL/MECON to please provides with a drawing for the same</p>	<p>Tender conditions prevail.</p> <p>The meters shall be supplied with all required mounting accessories. However, details will be finalized during Detailed Engineering stage.</p>
14)	C. Hardware platform for Control system Page No. 8 of 22	<p>Technical support from OEM for the the Server can be given for 3 years. However service after the Warranty period will be on chargeable basis.</p>	<p>Tender conditions prevail.</p>



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
15)	Datasheet of servers Page No. 8 of 23	As per manufacturing standard of server the DVI & HDMI is not applicable of server as this is not a requirement and purpose of the Server. The same may be available for the work Station. We request BGL/MECON to kindly confirm.	Acceptable.
16)	Inspection Plan Point No.: VI Page No. 12 of 22	As per EN1359, the calibration is done for the meters at three points, preferably at Qmin, 0.2Qmax and Qmax. The meter error curve is more stable at 0.2 Qmax and results are more reliable based on improved reproducibility. May we please request BGL/MECON for the confirmation on calibration of meters at three points.	Calibration shall be done as per EN1359. The three points of inspection will be finalized after award of contract.
17)	Index Page No. 19 of 22	Standard Index for meters upto G6 have 8 digit cumulative Index and have 3 decimal points (00000.000). Kindly confirm the acceptance of the same	00000.00 or better as per tender conditions.
18)	Index Page No. 21 of 22	Standard Index for Commercial Meter G10 and above are 8 digit cumulative Index. 6 digits plus 2 decimal points (000000.00). Kindly confirm the acceptance of the same	00000.00 or better as per tender conditions.
19)	Process Condition Page No. 21 of 23	For G16 and above: As per the prevailing standard and practice the maximum allowable pressure drop for meters above G16 is upto 3mbar. May we request BGL/MECON to kindly accept the same?	Tender condition prevails.



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
20)	UPS Page No. 9 of 22	As per our understanding there would be separate battery for each ups to provide 30 min. each @ 5.0 kva load. We Request BGL/MECON to confirm the same.	As per tender it can be common battery bank.
21)	UPS Page No. 9 of 22	UPS does not come with built in isolation transformer at the input/ output. So we Proposed BGL/MECON to We can provide separate Servo Voltage Stabilizer + Isolation transformer – 20 kVA which will be the common stabilizer for both the UPS. For the output also we can give the output of the ups which comes out common to the 6 kva isolation transformer. Servo voltage stabilizer is not required to be put at the output as the ups would control the voltage and provide 230 volts constant at the output. We request BGL/MECON confirm the same.	Tender condition prevails.
22)	UPS Page No. 9 of 22	As per the confirmation received from the Vendors of UPS, the UPS have IP-20. May we request MECON/ BGL to please confirm the acceptance of the same?	Tender condition prevails.
23)	UPS Page No. 9 of 23	We request BGL/MECON to Please provide feeder information and type of ACDB required.	Shall be finalized during detailed engineering after award of contract.



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
24)	Material Requisition & datasheet for Smart Metering System (A.5.0) Page No.: 15 of 22	Kindly confirm on the requirement of servers for Domestic & Commercial Meters. As the order placement is being done on group wise basis, kindly confirm what if the order for Domestic & Commercial Meters are splitted into different bidders. How the server integration will be done for Commercial Meters, please confirm.	Please refer tender document Vol II of II (page 7, 8 and 9 of 22)
25)	Hardware Platform for Control System Page No.: 7 of 22	As per our understanding the server shall be capable to scale the data of 500000 domestic consumers and 5000 commercial consumers, please confirm.	Bidder's understanding is correct. However there shall be no requirement of any additional or augmentation of hardware and/or software for the same.
26)	Clause no. 5 "Codes and Standards" 2. (AMR System) Page 5/22 of Volume II	ATEX certification Zone 2 for AMR Modules during Detailed Engineering. Bidder are referring to ATEX directives "Any equipment or assembly intended to contain gaseous or liquid fluids at a pressure greater than 0.5 bar is covered by the Directive" Therefore, bidder requesting to BGL to consider & follow the ATEX directive and remove the requirement of ATEX certification. ## (Please refer enclosed ANNEXURE-I) with ATEX GUIDELINES "Clause no. 6.8 of Gas Appliances 90/396/EEC (GAD), page no. 42 of 76)	Tender condition prevails.



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
27)	General Specification (B)- "Automatic Meter Reading (Amr) System" Clause no.4 Page 7/22 of Volume II	<p>The MIU/DCU battery shall be replaceable type</p> <p>Bidder, being an OEM & a leading utility solution provider has millions of MIU's (with non replaceable battery) installed in the global utilities with experience of more than 15 years in AMR field.</p> <p>Therefore, bidder requesting BGL to accept the use of non replaceable battery also in MIU's & provide a fair competition & equal platform to all the capable bidder.</p> <p>## (Please refer enclosed Annexure-II)</p>	Tender condition prevails.
28)	Technical Data Sheet-Index "Ingress Protection" Page 19/22 of Volume II	<p>IP 55 or better</p> <p>As per EN 1359, Ingress Protection of Domestic Meter (G1.6) should be IP 54 or better. Therefore, bidder requested BGL to consider Ingress Protection as IP 54 or better</p>	IP 54 or better is acceptable.
29)	Clause no. 2 "Scope of Work" Sub Clause -04 Page 4/22 of Volume II	<p>Erection of Control room equipment like Servers, network components, UPS, printers, console etc. along with cable laying, termination with necessary erection hardware like conduits etc.</p>	Tender condition prevails.



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		<p>Bidder understand that BGL require a "SMART METERING SYSTEM" with best industry practice globally.</p> <p>Therefore, bidder requesting BGL to use cloud services model for this project in-spite of using "On premise Server". ## (Please refer enclosed Annexure-III)</p>	
30)	SECTION I INVITATION FOR BIDS (IFB)-Clause no 1 "Salient Features of Bid Document" Sub Clause 1.9- Page 5/132	<p>Bid Submission date and time</p> <p>Since, it's a New year time & Christmas vacation starting for all foreign vendors. Bidder requesting BGL to extend the bid submission date of minimum 2 weeks from the date of receiving of reply on Pre-bid queries/clarification for competitive bidding.</p>	There will be not extension in the due date of submission. Tender condition prevails.
31)	Clause no. 4.0 Codes and standards (Page No 5) of Technical Specification	<p>Meters should comply with latest edition of EN 1359 standard. This is in line with PNGRB specifications. MID/EU directive are for European countries and directives are in general are not enforceable and are generally guidelines. Whereas standards are followed to approve a product and thus latest edition of EN 1359 which is EN 1359:1999 + A1 2006 should be mentioned and followed.</p>	EN1359:2006 or latest shall be applicable.



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32)	Clause no. 6.0 (A) (4) of Technical Specification	We have come across that in some cases the meters are connected outside the kitchen or in dry balcony in such cases we need protect from dust at a higher degree, So we suggest that the meter should be IP65. Please confirm.	Tender conditions prevail. IP 54 or better is acceptable for MIUs
33)	Clause no. 6.0 (B) (2) of Technical Specification Automatic Meter Reading (AMR) SYSTEM	We request you to kindly consider the Magnetic as well as Inductive Pulse Technology.	All Meter Interface Units (MIU) shall capture the pulses from the Meter Index using magnetic or Inductive Pulse Technology.
34)	Clause no. 6.0 (B) (3) of Technical Specification Automatic Meter Reading (AMR) SYSTEM	Relative humidity given in tender is 100% but 100% humidity is water. It should be 85%	85% (However for your kind information 100% RH is not water)
35)	Page No 15 of Technical Specification Group.A.1.0 & A.3.0	Normally having both type (RHS, LHS) of meter is very difficult for O&M for maintenance point of view or for replacement. 2 different meter stock is difficult to maintain. If possible we should only go with LHS Meter. In our past experiences different utilities sometime tried for RHS but never purchased. Major utilities in India like IGL, MGL, MNGL, Gujarat gas only buys LHS meters.	All LHS meters.



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36)	Page No 15 of Technical Specification Group.A.4.0	The number of concentrator count depends on the location and quantity of meters at that location.	Quantity shall be as per tender conditions only.
37)	Page No.20 of Technical Specification	Operating Temperature : 0 to 45deg. For Hyderabad we should have max temperature ad 0 to 50 deg.	Tender conditions prevail.
38)	Volume I of II, Page No.98 clause no. 1.1.1	We are submitting 10 % of the order value as Performance Banks Guarantee and in payment terms also 10% of the amount on hold till the successful commissioning of the system. In total about 20 % of the order value is blocked. We request you to kindly support us with the payment terms of 100% after supply of material.	Tender conditions prevail
39)	Volume II of II Page No 08 Server and work station	All the approved server/ work station manufacturer in market support with USB & HDMI interface for communication as default and as they are fast and more reliable. As per our understanding ports like VGA, Serial, parallel, DVI, PS2 ports are needed in our application and they are also not the part of the standard offering by server/workstation manufacturer. We request to kindly allow us to supply the server with USB and HDMI.	For Servers, only HDMI, DVI and parallel ports may be considered as optional. Other ports shall be provided as per tender. However for work stations, all ports indicated in the tender shall be provided.
40)	Volume II of II Page No 08	As per our application Video graphic controller is not be required as our application is monitoring of the meters in the	Tender conditions prevail



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	Server & work station	field and not graphic intensive application. We request you to kindly allow us to supply the system without Video graphics controller with dynamic graphic capability.	
41)	Vol. II of II, Pg 4 of 22 Clause No. 2 (1)	Please confirm if the MIU required to be supplied against the requirement has to be with or without display. As we understand from our experience it is an important aspect of the system used for cross verification of index by customer and assist in onsite diagnostics of MIU without any special tools required on site and hence is required mandatory. Please confirm.	Tender conditions prevail
42)	Vol II of II Page No 15. Clause no. 11 - Inspection Plan	We understand that the inspection of the Smart meter will be carried out in finished condition basis i.e. both Gas Meter and MIU together at Gas Meter manufacturing /single manufacturing location. BGL would want to check the meter calibration and other meter performance test along with MIU and other smart metering components functioning at one location and then they are sealed together before they are dispatched. Please confirm if our understanding is correct.	Bidder's understanding is correct.
43)	Vol II of II Page No 12 Clause no. 11 -	Generally the diaphragm meters are tested at 3 flow rates which includes one at low flow, one at Transitional flow (Qt) and one at max flow. Thus we request you to kindly consider	Calibration shall be done as per EN1359. The three points of inspection will be finalized after award of contract.



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
	Inspection Plan	inspection at 3 Qmin (low flow), 0.2 Qmax (Q t) and Qmax (High Flow). Gas meters generally have more linear chart at these flow rates.	
44)	Vol II of II, Pg 4 of 22 Clause No. 2	As the monthly bill payment has to be done by BGL so the sim card needs to be in the name of BGL. So BGL needs to purchase the SIM cards and bidder should assure that all necessary information related SIM Card should be shared with BGL as and when needed so the right solution is delivered from the telecom service provider. Kindly conform	<p>Tender condition prevails.</p> <p>The SIM cards, telecom services, etc. shall be in the name of the purchaser only.</p> <p>Bidder's scope includes engaging telecom service provider and establishing the GPRS/GSM communication network for smart metering operations along with supply and installation of SIM cards and all other necessary equipment, accessories, etc. including liasoning for necessary approvals, monitoring, controlling, if required. Finalisation of Service provider shall be done only after approval of BGL/ MECON.</p> <p>All initial & fixed charges, one time charges</p>



 Bhagyanagar Gas Ltd.	BHAGYANAGAR GAS LIMITED CITY GAS DISTRIBUTION PROJECT AT HYDERABAD, VIJAYAWADA AND KAKINADA SMART METERING SYSTEM	 मेकॉन ISO 9001 Company
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BID DOCUMENT NO. MEC/23R8/01/51/S2/CF/00/0007

PRE-BID MEETING HELD AT BHAGYANAGAR GAS LIMITED, HYDERABAD ON 07.12.2016 AT 11:00 HRS

CLARIFICATIONS TO PRE-BID QUERIES GIVEN BY BGL / MECON

SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
			(OTC), hardware/software charges, advance charges/payments (Including advance rentals) shall be in bidder's scope. However actual Monthly rental/bandwidth usage bills will be paid by BGL at actuals after completion of the month from the day of commissioning.
45)	SOR for Indian Bidder	Both the taxes are applicable that is (VAT or CST) and Service taxes when there is a sale of software and licence. Kindly revise the SOR and we should have a TAB for service tax also	There will be no change in the Price Schedule. Service Tax, if any is to be considered under column no. (8) of PRICE SCHEDULE FOR INDIAN (DOMESTIC) BIDDERS.
46)	Special Conditions of Contract (SCC) Evaluation and Comparison of Bid Page No.: 90 of 132	Please confirm is the AMR experience required against the tender is for gas application or experience in the field of electric & water would be acceptable. Also the project requirement from BGL is for AMR system involving RF based communication and GSM / GPRS based communication for Atex certified solution & battery powered application. Please confirm if the experience asked by BGL would require the bidder to submit documentary evidence for Atex certified & battery powered devices with minimum on field battery life of 5	Tender condition prevails



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SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
		years or not and experience in field natural gas or LPG would be / mandatory or not. Also confirm if experience of Prepaid meters without RF/GSM/GPRS communication would be accepted by BGL or not.	
47)	Evaluation and Comparison of Bid Page No.: 90 of 132	Since battery powered DCU is one of the most important aspect for the project, experience of Atex certified, battery powered GSM/GPRS DCU would be required to be submitted during tender evaluation or not.	Tender condition prevails
48)	Vol. II of II Material Requisition Page No.: 16 of 22	Operator Station with Consoles desks and Chairs: We request BGL/MECON to please confirm the quantity of furniture.	1 no. control desk, table for printer and 2 nos. chairs
49)	Vol II of II Material Requisition Page No.: 16 of 22	We request BGL/MECON to please confirm the quantity of furniture.	1 no. control desk, table for printer and 2 nos. chairs
50)	SOR Group B	Requirement of Right to Left Commercial Meters: Please note that Commercial Meters are available with Flow from Left hand side to Right hand side only. Right to Left Meters are not available. May we request MECON/ BGL to kindly confirm the acceptance of the same? We also request to amend the SOR accordingly.	All LHS meters

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CLARIFICATIONS TO PRE-BID QUERIES GIVEN BY BGL / MECON

SL. No.	Clause No. as per Tender	Bidders Query / Clarification	BGL/ MECON's CLARIFICATIONS
51)	Clause no.2.0 Scope of Work Point No.: 1 Page No.: 4 of 22	Please confirm if the MIU required to be supplied against the requirement has to be with or without display. As we understand from our experience it is an important aspect of the system used for cross verification of index by customer and as assist in onsite diagnostics of MIU without any special tools required on site and hence is required mandatory. Please confirm.	Tender condition prevails
52)	General	We would like to inform you that we are very much interested to participate in the Smart Gas Metering tender. To prepare an exact estimation at per your requirement and to make our best competitive offer we need some more times and we request to extend the due date of the bid submission by at least 10 days.	Tender condition prevails. There will be no extension in the due date of submission.
53)	General	--	Corrigendum #1 dated 21.12.2016 has been issued
54)	General	--	The Clarification to Pre-bid Queries and Corrigendum#1 thus issued shall form part of the Tender Document and shall be taken care of before submission of the bid.