



REPLY TO BIDDER'S PRE-BID QUERIES
SUPPLY OF DOMESTIC (G-1.6) DIAPHRAGM METERS (NORMAL) - AMR COMPATIBLE
TENDER DOCUMENT NO. IGL/ET2/CP/CP17485, Dated 20.04.2023

VCS REFERENCE NO. VCS/C&P/17028/PC/DIAPHRAGM METERS/09
Owner: Indraprastha Gas Ltd.
Consultant: VCS Quality Services Pvt Ltd.
Pre-bid meeting held on 25.04.2023
Date: 28.04.2023

Sl. No.	Reference & Cl No.	Section Description	Subject Description	Bidder's Query/Clarification	IGL/VCS Reply
Commercial					
1	Clause No. 4.0 of IFB Commercial Vol. I of II	Page No. 10 of 104	Delivery	Bidder requests that the delivery period for the first lot should be 12 weeks from the date of PO and 6 weeks for subsequent lots.	Tender Conditions shall prevail
				Bidder requests that PO quantity should be in multiples of 7200 units.	Tender Conditions shall prevail (Refer Clause No. 4.1 of IFB)
				Bidder requests that a single PO issued by CGD should be specific to one location to avoid higher transportation charges.	Locations are tentative and may be changed during the validity of the contract as per project requirement. Tender Conditions shall prevail
2	Clause No. 4.0 of GCC Commercial Vol. I of II	Page No. 37 of 104	Scope of contract	Bidder would like to confirm whether any accessories are to be supplied with the meter.	Accessories for meter shall be supplied as specified in the datasheet attached with the material requisition Refer Technical Vol. II of II
3	Clause No. 13.0 of GCC Commercial Vol. I of II	Page No. 41 of 104	Contract-cum-equipment performance bank guarantee	Bidder requests that the value of CPBG to be submitted should be excluding taxes.	Tender Conditions shall prevail
4	Clause No. 4.0 of SCC Commercial Vol. I of II	Page No. 65 of 104	Terms of payment	Bidder requests that 100% payment should be released within 30 days.	Tender Conditions shall prevail
				In case of change in delivery locations as mentioned in tender, freight should be reimbursed to the bidder on actual basis.	
5	Clause No. 29.0 of GCC Commercial Vol. I of II	Page No. 49 of 104	PRICE REDUCTION SCHEDULE (PRS)	Bidder requests that PRS should not be deducted on GST component, as the benefit of GST will be available to the CGD.	Tender Conditions shall prevail
				In case of inability to receive material after giving call out order and dispatch clearance CGD should not delay the store receipt of material and if due to any reason there is a delay IGL should reimburse the bidder for the storage of material till the store accepts the same	PRS shall not be applicable in case any delay is attributable to IGL. Tender Conditions shall prevail
6	Clause No. 8.0 of IFB Commercial Vol. I of II	Page No. 12-13 of 104	<p>BIDDER EVALUATION CRITERIA (BEC):</p> <p>The bidder must have manufactured & supplied at least 25,000 nos. of domestic diaphragm gas meter (G 1.6) AMR compatible in compliance with applicable codes and standards to a natural gas distribution entity across the globe, in single order, in previous seven (7) years reckoned from the date of issue of tender document.</p> <p>OR</p> <p>The bidder must have manufactured & supplied at least 25,000 nos. of domestic diaphragm gas meter (G 1.6) AMR compatible in compliance with applicable codes and standards to a natural gas distribution entity across the globe, in multiple orders in any one year including at least one order for supply of 15,000 nos. meters, in previous seven (7) years reckoned from the date of issue of tender document .</p> <p>Minimum Turnover-INR 6,01,21,000/- Net worth - Positive Working Capital- INR 1,20,24,200/-</p>	<p>We being a Start-up company, have been incorporated and registered with the MCA Govt within last 2 years, due to which we registered do not have any audited financial statements for previous years.</p> <p>We request M/s IGL to extend complete provision of the start-up clause as defined in the GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY, over the complete tender where "Bid Security/EMD and Prior turnover and prior experience shall not be required for all Start-ups" provision is also mentioned to Govt initiatives.</p> <p>Along with the start-up certificate, we will also submit solvency certificate from our bankers stating that we have sufficient or more working capital in bank account than the requirement of working capital in the referred tender of CGD.</p> <p>We would humbly appeal to you to support our initiative efforts and investments towards making India self-reliant in high-quality G1.6 gas meter manufacturing.</p> <p>Grateful if you could help us in accepting the above request and allow us to participate in this tender.</p> <p>Kindly confirm.</p>	<p>Refer Clause No. 8.0 of IFB</p> <p>Tender Conditions shall prevail</p>



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7	-	-	New Clause	We request M/s IGL to include " Land-Border" clause in tender as this create a fair competition and reduce the chances of Chinese dumping in India.	Not Applicable Tender Conditions shall prevail
8	Clause No. 4.1 of IFB Commercial Vol. I of II	Page No. 10 of 104	Delivery of 1st lot of Domestic Diaphragm meter shall be completed within 06 (Six) weeks from the date of LOA/PO. Delivery of subsequent lot of Domestic Diaphragm meter shall be completed within 04 (Four) weeks from the date of LOA/PO.	As QAP approval, PO processing and transit time for factory to desired location is approx. 3 to 6 days. We request to kindly consider the delivery period of 8 wks. for commencement of supply and further 8wks for the consecutive delivery of orders.	Tender Conditions shall prevail
9	General	-	Make In India	We understand now India has sufficient manufacturers for the required product, we request IGL to promote and prefer only meters manufactured locally and support towards Indian economy by reducing the imports. This is also supported by DPIIT in several Govt./PSU tenders	Not Applicable Tender Condition shall prevail
10	Clause No. 4.2 of IFB Commercial Vol. I of II	Page No. 10 of 104	The basis of delivery shall be FOT, IGL Site/Store basis including unloading and stacking at IGL Site / Store at Delhi NCR, Uttar Pradesh (Ghaziabad, Greater Noida, Muzaffarnagar, Meerut, Kanpur, Banda & Chitrakoot), Haryana (Gurugram & Karnal) and Rajasthan (Pali & Ajmer). These locations are tentative and may be changed during the validity of the contract as per project requirement.	To offer competitive price, we request you to kindly support us with the delivery address (Store)	The final store address for deliveries shall be shared during issuance of dispatch clearance. (Tender Condition shall prevail)
Technical					
1	DATASHEET OF DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	10 CALIBRATION 3 POINTS COVERING QMIN, 0.1 QMAX & QMAX AS PER EN 1359: 2006/ EN 1359:2017 / OR LATEST EDITION IN FORCE/ OIML R137 (LATEST).	IN PAGE NO. 21 UNDER "10.0 INSPECTION AND TESTING" THE CALIBRATION POINT IS MENTIONED "Q MAX, Q MIN, 0.2 Q MAX." WHICH IS CONFLICTED WITH THE DATASHEET OF METER. REQUEST YOU TO CLARIFY THE CALIBRATION	CALIBRATION POINT SHALL BE AS PER DATASHEET OF THE METER.
2	Cl. 5.1 OF PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 18 OF 26	DOMESTIC GAS METERS MUST BE SUITABLE FOR RETROFITTING OF AMR IN FUTURE AND COMMUNICATION WITH ANY TECHNOLOGY SUCH AS RF (WALK BY/FIXED)/GPRS/LORA/LPRF OR SIMILAR MEETING THE REQUIREMENT	BIDDER UNDERSTAND THAT MECHANICAL GAS METER IS REQUIRED IN THIS TENDER AND THE SAID CLAUSE OF COMMUNICATION IS A FEATURE OF SMART MODULE WHICH CAN BE CONNECTED TO MECHANICAL GAS METER TO CONVERT IT INTO SMART GAS METER, HENCE THIS CLAUSE IS NOT APPLICABLE.	KINDLY NOTE THAT METER SHALL BE SUITABLE FOR RETROFITTING OF AMR IF CLIENT REQUIRED TO UPGRADE IN FUTURE WITH AMR
3	Cl. 4.4 OF PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 18 OF 26	4.4 HAZARDOUS AREA CERTIFICATION GAS METERS SHALL BE CERTIFIED FOR USE IN DESIGNATED AREAS WHEN INSTALLED IN HAZARDOUS AREA CLASSIFIED ZONES AS PER EC 60079.	THIS REQUIREMENT IS FOR ATEX. BIDDER UNDERSTAND THAT IT IS NOT APPLICABLE ON NORMAL DIAPHRAGM GAS METER	BIDDER UNDERSTANDING IS CORRECT.
4	QUALITY ASSURANCE PLAN OF TECHNICAL TENDER	PAGE 25 OF 26	EXTERNAL LEAK TIGHT TEST	EXTERNAL LEAK TEST ON FINISHED GOODS WILL BE DIFFICULT, HOWEVER WE CAN SHOW THE TEST REPORTS DURING INSPECTION. KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
5	QUALITY ASSURANCE PLAN OF TECHNICAL TENDER	PAGE 25 OF 26	TEMPER ALARM TEST	TEMPER ALARM GENERATION IS THE FEATURE OF AMR AND NOT FOR THE MECHANICAL METER, AS THE REQUIREMENT IS FOR MECHANICAL DIAPHRAGM GAS METER THUS THIS CLAUSE IS NOT APPLICABLE. KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL



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6	19	5.1	VENDOR TO PROVIDE THE TYPE APPROVAL CERTIFICATION FOR METER AS PER EN 1359 AND CERTIFICATION FROM WEIGHTS & MEASURES DEPARTMENT, INDIA WITH MODEL & MAKE DETAILS INCLUDED. CALIBRATION CERTIFICATE (ORIGINAL + SOFT COPY) SHALL BE PROVIDED TO CLIENT. ONE COPY OF THE CERTIFICATE SHALL BE PROVIDED WITHIN THE PACKING BOX OF EACH METER	WE ARE PROVIDING HARD COPY & SOFT COPY OF CALIBRATION DURING TPI, ONE COPY OF THE CERTIFICATE WITHIN THE PACKING BOX OF EACH METER IS NOT FEASIBLE	TENDER CONDITION SHALL BE PREVAIL
7	18	4.3	EMC COMPLIANCE ALL GAS METERS AND ACCESSORIES SHALL BE IMMUNE TO RADIO FREQUENCY INTERFERENCE (RFI) AND ELECTRO MAGNETIC INTERFERENCE (EMI). THE DESIGN AND INSTALLATION OF ALL ELECTRICAL / ELECTRONIC EQUIPMENT SHALL MEET THE RFI/EMI REQUIREMENTS ACCORDING TO IEC 61000, EMISSION (IEC61000-6-4) AND IMMUNITY (IEC-61000-6-2) REQUIREMENTS FOR AN INDUSTRIAL ENVIRONMENT.	WE UNDERSTAND THAT THIS TENDER IS RELATED TO NORMAL MECHANICAL METER, HENCE THE SAID CLAUSE OF EMC COMPLIANCE IS NOT APPLICABLE	BIDDER UNDERSTANDING IS CORRECT.
8	10	4	SIZING CALCULATION	WE UNDERTAND SIZING CALCULATION FOR THIS TENDER IS NOT APPLICABLE, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
9	DATASHEET FOR DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	REVERSE FLOW RESTRICTION: METER SHALL BE EQUIPPED WITH PREVENTION REVERSE FLOW OF THE INDEX OR SHALL BE REVERSE COUNT RESTRICTOR TO PREVENT THE REVERSE COUNT.	AS PER OUR UNDERSTANDING BOTH CLAUSES ARE APPLICABLES AS MENTIONED BELOW: 1.METER TO PREVENT THE REGISTRATION OF REVERSE FLOW OR REVERSE ROTATION OF INDEX WHICH IS MENTIONED IN CLAUSE NUMBER6.6.4 IN EN1359:2017.2.METER TO PREVENT REVERSE FLOW WHICH IS MENTIONED IN CLAUSE NUMBER 6.6.5 IN EN1359:2017.KINDLY CONFIRM.	TENDER CONDITION SHALL BE PREVAIL
10	20/26	PARTICULAR TECHNICAL SPECIFICATION 8.1	EACH OF THE BOXES OF INDIVIDUAL GAS METER SHALL BE CLOSED / SEALED APPROPRIATELY WITH A TAPE, AND PACKING AND STRENGTH OF THE BOX SHALL BE SUCH THAT SAME DOES NOT GET OPENED OR DAMAGED DURING HANDLING AND STORING OF THE SAME. A SET OF 4-5 NOS. (OR AS DEEMED SUITABLE BY THE MANUFACTURER) OF INDIVIDUAL GAS METERS SHALL BE PACKED IN A LARGER BOX / CARTON AND CONTENTS OF (LARGER) BOX / CARTON, VIZ. DESCRIPTION OF THE GAS METER AND TOTAL QUANTITY OF GAS METERS (IN THE BOX)	AS PER GLOBAL INDUSTRY STANDARD INDIVIDUAL METER IS PACKED IN A SINGLE CORRUGATED BOX AND STAPELED, THEN METERS ARE STACKED ON WOODEN PALLETE, PLASTIC STRECH WRAPPED/STRAPPED TO ENSURE IN SUCH A WAY THAT THE SAME DOES NOT GET OPENED OR DAMAGED DURING HANDLING AND STORING OF THE SAME.KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
11	25/26	QUALITY ASSURANCE PLAN FOR DOMESTIC DIAPHRAGM GAS METER	DEGREE OF PROTECTION	AS MENTIONED IN QUALITY ASSURANCE PLAN, DEGREE OF PROTECTION EXTENT OF CHECK IS 100%. WE UNDERSTAND THAT DEGREE OF PROTECTION AS PER IEC 60529 (IP54/IP65) IS A TYPE TEST. KINDLY CONFIRM	AS PER TENDER QAP THE DEGREE OF PROTECTION IS 100% DURING ASSEMBLY STAGE. HENCE THE TENDER CONDITION SHALL PREVAIL.
12	21/26 and 24/26	10.0 INSPECTION AND TESTING and Datasheet	ITP THE SUPPLIER SHALL PROVIDE CALIBRATION CERTIFICATE AND ACCURACY OF THE DOMESTIC DIAPHRAGM METER FOR THE FOLLOWING FLOW RATES (AS PER EN 1359 LATEST EDITION): Q MAX, Q MIN, 0.2 Q MAX. DATASHEET 3 POINTS COVERING QMIN, 0.1 QMAX & QMAX AS PER EN 1359: 2006/ EN 1359:2017 / OR LATEST EDITION IN FORCE/ OIML R137 (LATEST).	<p>GLOBALLY, CALIBRATION AND ACCURACY TESTING IS NOT DONE AT 0.1 QMAX AS IT THE POINT WHERE THE ACCURACY OF ERROR CURVE CHANGES FROM +/- 1.5% TO +/- 3%. HENCE THE BETTER TESTING POINT IS THE NEXT TEST POINT WHICH IS 0.2 QMAX. AT WHICH GLOBALLY ALL LABS DO THE CALIBRATION AND ACCURACY TESTING. HENCE WE REQUEST THE CGD/PMC TO CONSIDER THE BELOW POINTS FOR CALIBRATION AND ACCURACY TEST: -</p> <p>QMIN, 0.2 QMAX</p> <p>SIMILAR CLAUSE IS FOLLOWED BY OTHER REPUTED CGDS LIKE-</p> <ol style="list-style-type: none"> 1. CUGL-TENDER NO. P.014714 G 11031 R008 DATED 03-JUL-2021 2. HPCL-TENDER NO. 22000099-HD-10157 DATED 18-MAY-2022 3. BGL-TENDER NO MEC/23VX/01/51/D2/T04/SU/6538 DATED 05-JUL-2021 4. IOAGPL-TENDER NO IOAGPL/TSD/2019/024 DATED 29-AUG-2019 <p>KINDLY CONFIRM THAT TEST AT QMIN, 0.2QMAX, QMAX, SHALL BE ACCEPTABLE. BELOW SNAPSHOT IS FROM TENDER DOCUMENTS OF ONE OF THE CGDS MENTIONED ABOVE</p>	CLAUSE NO. 10 OF PTS SHALL BE APPLICABLE

10.0 INSPECTION AND TESTING
Domestic Diaphragm Meters
 The SUPPLIER shall provide calibration certificate and accuracy of the Domestic Diaphragm Meter for the following flow rates (As per EN 1359 latest edition):
 Q Max, Q Min, 0.2 Q Max.



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13	DATASHEET FOR DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	CYCLIC VOLUME	<p>CYCLIC VOLUME – WE REQUEST CGDS TO CONSIDER THE CYCLIC VOLUME OF THE G1.6 DIAPHRAGM GAS METER AS "1.2 LITRE OR HIGHER" SINCE A 1.2 LITRE DESIGN HAS MUCH BETTER "METROLOGICAL STABILITY" WITH REPEATABILITY RESULTS (ACCURACY ERROR) WELL WITHIN THE SPECIFIED RANGE SPECIFIED IN EN 1369. THIS ASPECT IS PROGRESSIVELY CRITICAL AS THE GAS METER INSTALLATION GETS OLDER DURING ITS LIFETIME.</p> <p>CYCLIC VOLUME OF A GAS METER IS THE VOLUME OF GAS CORRESPONDING TO ONE FULL REVOLUTION OF THE MOVING PART(S) INSIDE THE METER (WORKING CYCLE).</p> <p>IT IS EVIDENT FROM THE DESIGN AND SIZE OF GAS METERS WITH DIFFERENT CYCLIC VOLUMES THAT THE "WEAR AND TEAR OF MOVING PARTS (CRITICAL TO ACCURACY OF MEASUREMENT)" IN GAS METERS (WITH CYCLIC VOLUME LOWER THAN 1.2 LITRE) IS MUCH HIGHER IN COMPARISON TO GAS METERS WITH CYCLIC VOLUME OF 1.2 LITRE SINCE THE NUMBER OF REVOLUTIONS IS MUCH HIGHER IN LOWER CYCLIC VOLUME DESIGN FOR AN EQUAL VOLUME OF GAS PASSED. WITH DURATION OF TIME, AS THE GAS METERS MEASURE CUMULATIVELY INCREASING GAS VOLUMES AND THE NUMBER OF CUMULATIVE REVOLUTIONS ALSO INCREASES RESULTING IN A MUCH HIGHER WEAR AND TEAR OF THE MOVING PARTS. THIS RESULTS IN HIGHER ERROR VALUES (MORE THAN THE LIMITS PRESCRIBED IN THE EN1369 STANDARD) AND LOWER METROLOGICAL STABILITY, LOWER ACCURACY, LOWER RELIABILITY AND INCREASED PROBLEMS IN REPEATABILITY OF ACCURATE READINGS THEREBY RESULTING IN HIGHER GAS LOSSES AND LOSS OF REVENUE TO THE CGD. WITH CGDS REQUIREMENT OF 20 YEARS METER LIFE, GAS METERS WITH LOWER CYCLIC VOLUME WILL GIVE HIGHER ERRORS VALUES IN METER READING AFTER FEW YEARS OF THEIR INSTALLATION RESULTING IN INCREASED GAS LOSSES AND LOSS OF REVENUE TO CGD.</p> <p>IN ADDITION TO ISSUES WITH METROLOGICAL STABILITY, DUE TO HIGHER NUMBER REVOLUTIONS IN LOWER CYCLIC VOLUME DESIGN GAS METERS FOR THE SAME GAS VOLUME PASSED, THE MOVING PARTS OF THE INTERNAL GAS MEASURING MECHANISM MAKE HIGHER NOISE WHICH INCREASES WITH INCREASE IN WEAR AND TEAR OF THESE PARTS. SAME CAN BE VALIDATED WITH CGDS IN INDIA THAT HAVE EXPERIENCED MANY NOISE RELATED CUSTOMER COMPLAINTS WITH LOWER CYCLIC VOLUME GAS METERS.</p> <p>WE REQUEST TO CONSIDER CYCLIC VOLUME VALUE AS 1.2 LTR ONLY. KINDLY CONFIRM.</p>	SHALL BE AS PER TERMS & CONDITIONS OF TENDER AND GOVERNING STANDARD
14	DATASHEET FOR DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	DATASHEET: CYCLE VOLUME	WE REQUEST VCS/IGL TO GET ALL THE MANUFACTURER ON THE SAME PLATFORM AND UPDATE THE CYCLIC VOLUME TO BE 1.2 LITRE	SHALL BE AS PER TERMS & CONDITIONS OF TENDER AND GOVERNING STANDARD
15	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 10	INSTALLATION, OPERATION AND MAINTENANCE MANUALS, CATALOGUES WITH PART LIST FOR METERS ALONG WITH SOFTWARE CD AND CALIBRATION REPORTS.	WE UNDERSTAND THAT THIS IS PURELY MECHANICAL DIAPHRAGM GAS METER AND HENCE SOFTWARE CD IS NOT APPLICABLE	BIDDER UNDERSTANDING IS CORRECT.
16	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 10 OF 26	SIZING CALCULATION	WE UNDERSTAND THAT THIS IS PURELY G1.6 MECHANICAL DIAPHRAGM GAS METER (FOR QMAX = 2.5M3 WITH 3/4 INCH NPT CONNECTION AND 110MM CENTRE TO CENTRE DISTANCE BETWEEN CONNECTION), KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
17	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 10 OF 26	PACKING / SHIPPING LIST WITH WEIGHTS AND DIMENSIONS. (NOTE-6)	WE UNDERSTAND THAT PACKING BOX WEIGHT AND DIMENSION WILL BE PROVIDED ALONG WITH PACKING LIST AT THE TIME OF DISPATCH, KINDLY CONFIRM	YES, IT SHALL BE MENTIONED AND PACKING SHALL BE FOR SAFELY TRANSPORTABLE AND SMOOTH LOADING AND UNLOADING AT CLIENT STORES.
18	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 11 OF 26	INSPECTION AND TEST PROCEDURES	WE UNDERSTAND THAT INSPECTION AND TESTING PROCEDURE WILL BE IN LINE WITH APPROVED QAP, KINDLY ACCEPT	BIDDER UNDERSTANDING IS CORRECT. QAP SHALL BE APPROVED BY THE CLIENT AND INSPECTION AND TESTING WILL BE DONE ACCORDINGLY.
19	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 11 OF 26	THE SELECTED VENDOR SHALL PROVIDE CALIBRATION CERTIFICATES OF EACH METER.	WE WILL PROVIDE CONSOLIDATED CALIBRATION CERTIFICATE/REPORT IN SOFT COPY DURING DISPATCH & HARD/SCANNED COPY DURING CUSTOMER INSPECTION , KINDLY ACCEPT	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT.
20	Cl. 4.0 OF MR DOCUMENTS & DATA REQUIREMENTS OF TECHNICAL TENDER	PAGE 11 OF 26	THE PACKING BOXES FOR EACH FLOW METER (EACH ITEM WHICH IS BEEN PACKED INDEPENDENTLY) SHALL CARRY THE ITEM CALIBRATION CERTIFICATE WITHIN THE PACKING BOX.	WE WILL PROVIDE CONSOLIDATED CALIBRATION CERTIFICATE / REPORT IN SOFT COPY DURING DISPATCH & HARD/SCANNED COPY DURING CUSTOMER INSPECTION, KINDLY ACCEPT	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT.



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21	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 17 OF 26	SUITABILITY FOR APPLICABLE ENVIRONMENTAL CONDITIONS;	WE WILL PROVIDE -25 TO 55°C & GAS METER COVERED TO PROTECT FROM DIRECT RAIN/WATER FLOW, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
22	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 17 OF 26	SUITABILITY FOR OPERATION IN THE DESIGNATED CLASSIFICATION OF HAZARDOUS AREAS;	AS THE G1.6 DIAPHRAGM GAS METER IS PURELY MECHANICAL METER HENCE ATEX OR ZONE CLASSIFICATION IS NOT REQUIRED, KINDLY CONFIRM	BIDDER UNDERSTANDING IS CORRECT.
23	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 17 OF 26	HIGH REDUNDANCY WITH HIGH RELIABILITY (HIGH MTBF AND LOW MTRR) AND NO SINGLE POINT OF FAILURE;	AS G1.6 DIAPHRAGM GAS METER IS MAINTENANCE FREE AND HENCE THE MAINTENANCE IS NOT APPLICABLE, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
24	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 18 OF 26	ENVIRONMENTAL CONDITIONS THE EQUIPMENT CONSIDERED AND THE COMPLETE INSTALLATION SHALL BE SUITABLE FOR CONTINUOUS OPERATION UNDER THE AMBIENT CONDITIONS PREVAILING AT SITE.	WE WILL PROVIDE -25 TO 55°C & GAS METER COVERED TO PROTECT FROM DIRECT RAIN/WATER FLOW, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
25	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 18 OF 26	EMC COMPLIANCE ALL GAS METERS AND ACCESSORIES SHALL BE IMMUNE TO RADIO FREQUENCY INTERFERENCE (RFI) AND ELECTRO MAGNETIC INTERFERENCE (EMI), THE DESIGN AND INSTALLATION OF ALL ELECTRICAL / ELECTRONIC EQUIPMENT SHALL MEET THE RFI/EMI REQUIREMENTS ACCORDING TO IEC 61000, EMISSION (IEC61000-6-4) AND IMMUNITY (IEC-61000-6-2) REQUIREMENTS FOR AN INDUSTRIAL ENVIRONMENT.	AS THE G1.6 DIAPHRAGM GAS METER IS PURELY MECHANICAL METER HENCE EMI/RFI IS NOT REQUIRED, PL. CONFIRM	BIDDER UNDERSTANDING IS CORRECT.
26	4.0 OF PTS DESIGN CRITERIA OF TECHNICAL TENDER	PAGE 18 OF 26	HAZARDOUS AREA CERTIFICATION GAS METERS SHALL BE CERTIFIED FOR USE IN DESIGNATED AREAS WHEN INSTALLED IN HAZARDOUS AREA CLASSIFIED ZONES AS PER IEC 60079.	AS THE G1.6 DIAPHRAGM GAS METER IS PURELY MECHANICAL METER HENCE HAZARDOUS AREA CLASSIFICATION IS NOT REQUIRED, PL. CONFIRM	BIDDER UNDERSTANDING IS CORRECT.
27	Cl. 5.1 OF PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 18 OF 26	DOMESTIC DIAPHRAGM METER SHALL BE SUITABLE FOR MEASUREMENT OF LOW GAS FLOWS IN DOMESTIC AND LIGHT COMMERCIAL METERING APPLICATIONS. DOMESTIC GAS METERS SHALL BE OF DIAPHRAGM TYPE MECHANISM (G1.6) FOR NATURAL GAS APPLICATION	WE UNDERSTAND THAT THE TENDER IS FOR G1.6 DOMESTIC DIAPHRAGM GAS METER AND HENCE GAS METERS WILL BE USED FOR DOMESTIC APPLICATION (21-25 Mbar WITH MAXIMUM FLOW OF 2.5 CUBIC METER/HR) AND NOT FOR COMMERCIAL OR INDUSTRIAL APPLICATION, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
28	Cl. 5.1 OF PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 19 OF 26	CALIBRATION CERTIFICATE (ORIGINAL + SOFT COPY) SHALL BE PROVIDED TO CLIENT. ONE COPY OF THE CERTIFICATE SHALL BE PROVIDED WITHIN THE PACKING BOX OF EACH METER. INSPECTION OF THE GAS METERS AT THE WORKS OF THE MANUFACTURER BY OWNER/ OWNER'S REPRESENTATIVE AND THE VENDOR SHALL CARRY OUT TESTS TO DEMONSTRATE THAT THE GAS METERS ARE CAPABLE OF GENERATING PULSES AND ARE COMPATIBLE WITH AN AMR SYSTEM. FOR DEMONSTRATION, NECESSARY ARRANGEMENT SHALL BE MADE BY THE SUPPLIER DURING INSPECTION.	WE WILL PROVIDE CONSOLIDATED CALIBRATION CERTIFICATE/REPORT IN SOFT COPY DURING DISPATCH & HARD/SCANNED COPY DURING CUSTOMER INSPECTION, KINDLY ACCEPT	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT.
29	Cl. 7.0 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 19 OF 26	THE DOMESTIC DIAPHRAGM METERS SHALL BE PAINTED WITH ELECTROSTATIC SPRAY EPOXY PAINT OR POLYESTER POWDER COATING AND THE PAINT SHALL BE OF APPROVED COLOUR AND QUALITY	OUR G1.6 GAS METER IS MADE FROM CRCA MS STEEL WITH INSIDE AND OUTSIDE POWDER COATING OF SMOKE GREY - RAL NO. P6N00662S5, PL. ACCEPT	TENDER CONDITION SHALL BE PREVAIL



REPLY TO BIDDER'S PRE-BID QUERIES
SUPPLY OF DOMESTIC (G-1.6) DIAPHRAGM METERS (NORMAL) - AMR COMPATIBLE
TENDER DOCUMENT NO. IGL/ET2/CP/CP17485, Dated 20.04.2023

VCS REFERENCE NO. VCS/C&P/17028/PC/DIAPHRAGM METERS/09

Owner: Indraprastha Gas Ltd.

Consultant: VCS Quality Services Pvt Ltd.

Pre-bid meeting held on 25.04.2023

Date: 28.04.2023

Sl. No.	Reference & Cl No.	Section Description	Subject Description	Bidder's Query/Clarification	IGL/VCS Reply
30	Cl. 8.0 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 20 OF 26	DIRECTION OF FLOW EITHER ON FRONT OF TOPCASE OF METER B/W INLET OR OUTLET	DIRECTION OF FLOW WILL BE MARKED WITH ARROW EMBOSSED AT TOP SIDE OF THE TOP CASE (IN BETWEEN CONNECTION), PL ACCEPT	ACCEPTED AND TENDER CONDITION SHALL BE PREVAIL
31	Cl. 8.3 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 20 OF 26	THE MANUFACTURER HAS TO ENSURE THAT THE INSPECTION AGENCY APPLY THEIR MARK (STAMP / STICKER/ EMBOSSING APPLICABLE AS PER INSPECTION CUM DISPATCH RELEASED CERTIFICATE) ON EACH BOX ENSURING ABOVE MENTIONED INFORMATION BEFORE DISPATCH.	WE UNDERSTAND THE MARKING OR STAMPING TO BE DONE BY TPJA ON SAMPLE METER BOX, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
32	Cl. 9.0 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 21 OF 26	THE CALIBRATION CERTIFICATES OF EACH ITEM SHALL BE ENCLOSED WITHIN THE PACKAGE BOX.	WE WILL PROVIDE CONSOLIDATED CALIBRATION CERTIFICATE/REPORT IN SOFT COPY DURING DISPATCH & HARD/SCANNED COPY DURING CUSTOMER INSPECTION , KINDLY ACCEPT	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT .
33	Cl. 9.0 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 21 OF 26	THE MANUFACTURER/VENDOR HAS TO ENSURE THAT THE INSPECTION AGENCY(TPJA) APPLY THEIR MARK (STAMP /STICKER/ EMBOSSING APPLICABLE AS PER INSPECTION CUM DISPATCH RELEASED CERTIFICATE) ON EACH BOX ENSURING ABOVE MENTIONED INFORMATION BEFORE DISPATCH.	WE UNDERSTAND THE MARKING OR STAMPING TO BE DONE BY TPJA ON SAMPLE METER BOX, KINDLY CONFIRM	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT .
34	Cl. 10.5 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 22 OF 26	TESTING AND INSPECTION SHALL BE PERFORMED ON ALL ASSEMBLIES, SUBASSEMBLIES AND COMPONENT EQUIPMENT/MATERIALS IN ACCORDANCE WITH BUT NOT BE LIMITED TO THE FOLLOWING LIST OF ACTIVITIES:	AS PER OUR UNDERSTANDING TESTING AND INSPECTION SHALL BE PERFORMED ON COMPLETE GAS METER AS PER EN 1359:2017, KINDLY CONFIRM	TENDER CONDITION SHALL BE PREVAIL
35	Cl. 10.5 PTS DOMESTIC DIAPHRAGM METERS OF TECHNICAL TENDER	PAGE 22 OF 26	RESISTANCE TO INTERNAL PRESSURE TESTING. METERS SHALL HAVE COMPLIANCE TO THE TEST REQUIREMENTS OF EN 1359: 1999+A1:2006 OR EN 1359-2017 OR THE LATEST EDITION IN FORCE FOR DOMESTIC DIAGRAM GAS METER FOR OTHER TYPE OF GAS METERS AS PER PNGRB REGULATORY REQUIREMENT	AS PER OUR UNDERSTANDING, IT IS A TYPE TEST AND WE WILL PROVIDE TYPE TEST REPORT, PLEASE ACCEPT	BIDDER SHALL ENSURE THE TESTING OF METERS AS PER THE GOVERNING STANDARD & TENDER QAP AT STAGE OF MAUFACTURING AND INSPECTION
36	DATASHEET OF DOMESTIC DIAPHRAGM GAS METER TYPE G1.6 CALIBRATION	PAGE 24 OF 26	3 POINTS COVERING QMIN 0.1 QMAX & QMAX AS PER EN 1359: 2006/ EN 1359:2017 / OR LATEST EDITION IN FORCE/ OIML R137 (LATEST).	IN CLAUSE NO.10 INSPECTION AND TESTING CALIBRATION POINTS ARE QMAX, 0.2 QMAX, QMIN. WHEREAS IN THE DATASHEET CALIBRATION POINT IS QMAX, 0.1 QMAX, QMIN. KINDLY CONFIRM WHICH CALIBRATION POINT IS REQUIRED	CLAUSE NO. 10 OF PTS SHALL BE APPLICABLE
37	DATASHEET OF DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	STEEL/ALUMINIUM ALLOY WITH SUITABLE COATING ON INSIDE AND OUTSIDE FOR CORROSION PROTECTION OF CASING.	WE WILL PROVIDE CRCA CASING AND SMOKE GREY MATT FINISH (RAL-P800662S5) POWDER COATING INSIDE AND OUTSIDE OF CASING, PL. ACCEPT	TENDER CONDITION SHALL BE PREVAIL
38	DATASHEET OF DOMESTIC DIAPHRAGM GAS METER TYPE G1.6	PAGE 24 OF 26	NOTE-4 CALIBRATION CERTIFICATE (ORIGINAL + SOFT COPY) SHALL BE PROVIDED TO CLIENT. ONE COPY OF THE CERTIFICATE SHALL BE PROVIDED WITHIN THE PACKING BOX OF EACH METER.	WE WILL PROVIDE CONSOLIDATED CALIBRATION CERTIFICATE/REPORT IN SOFT COPY DURING DISPATCH & HARD/SCANNED COPY DURING CUSTOMER INSPECTION, KINDLY ACCEPT	PLEASE NOTE THAT HARD COPY OF THE CALIBRATION REPORT SHALL BE REQUIRED DURING INSPECTION AND DISPATCH OF THE METER AND SOFT COPY WILL BE PROVIDED BY THE VENDOR TO THE CLIENT AS PER THE REQUIREMENT .
39	BODY & INTERNAL PARTS - MATERIAL OF BODY OF QAP	PAGE 25 OF 26	TESTING PROCEDURE FOR MANUFACTURER IS P (PERFORM)	WE WILL PROVIDE RAW MATERIAL TEST CERTIFICATE AS PROVIDED BY THE VENDOR AND SAME HAS TO BE REVIEWED (R) BY MANUFACTURER, PL. ACCEPT	ACCEPTED AND SHALL BE AS THE TENDER QAP