RAJASTHAN STATE GAS LIMITED
राजस्थान राज्य गैस लिमिटेड

DATE: 12.12.2025

REPLIES TO BIDDER'S QUERIES ALONG WITH REVISED DATASHEET FOR DOMESTIC REGULATOR

REPLIES TO PRE-BID QUERIES FOR TENDER DOCUMENT FOR PROCUREMENT OF NATURAL GAS REGULATORS ON ARC BASIS FOR A PERIOD OF TWO YEARS
Tender No :RSGL/KOTA/PROJ/C&P/2025-26/NIT-13 DATED 20.11.2025

	Reference of Tender Document				Bidder's Query	RSGL's Reply
Sl. No.	Sec No.	Page No.	Clause No.	Subject		
1	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator, General S.No.3	Governing standard As per EN 334 / BS EN 13785 / EN 14382 (Latest)	Applicable standard for meter regulator 100mbar to 21 mbar is EN 88-1	Refer revised Datasheet
2	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator, General S.No.2	OPSO/UPSO/CRV	In meter regulator 100-21mbar OPSO & CRV is not possible-clarification needed	Refer revised Datasheet
3	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator, Notes Serial No.2	Tag plate (SS 316) stamped with instrument tag number and service in 10mm characters shall be attached via SS wire (1 mm).	SS Tag Plate would not be required for these types of Regulators as the regulator will have permanent Marking as per below: Type, Inlet Pressure, Outlet Pressure, Set Points of UPSO, Month and Year of Manufacturing, Unique Serial No, Make & Flow Direction on Body as Cast. Kindly confirm.	Refer reply point No. 16
4	Section-1- IFB	5 of 189	Clause E- Delivery Period	Delivery shall be made within 2 year time from date the date of LOA in four to six lots upon receiving instruction/intimation by EIC. for each lot. The delivery period shall be 12 weeks form instruction/intimation by EIC and not completing the delivery with 12 weeks date of instruction/intimation by EIC will be subjected to Price Reduction Schedule (PRS). Prices to be valid till 6 months beyond the last Delivery.	Bidder requesting for delivery period of atleast 16 weeks considering manufacturing, testing, inspection and transportation of regulators.	Tender condtion shall prevail
5	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	170 of 189	9.1	Documentation Required with Technical Bid	Bidder understands that following documents are not applicable for the Tendered Item, Please confirm. 1. Bill of Materials including Vendor List, Details for third party items; 2. Weights & Measures Approval Certificate; 3. Pressure Drop Calculations; 4. Performance Curves;	Tender condtion shall prevail

6	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	171 of 189	9.2	Documentation Required for Approval	Bidder understands that following documents are not applicable for the Tendered Item, Please confirm. 1. Bill of Materials including Vendor List, Details for third party items; 2. Weights & Measures Approval Certificate; 3. Assembly drawings with overall dimensions; 4. Detailed sectional drawings showing all parts with reference numbers and material specifications of regulators and all accessories supplied; 5. Welding, heat treatment, inspection and testing procedures; 6. Painting Specification; 7. Sizing Calculation 8. Calibration Certificates; 9. Material Test Certificates;	Tender condtion shall prevail
7	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator, General S.No.3	Governing Standard: EN 334	Governing Standard for Regulators will be as per below: 1) For Inlet pressure up to 500mbar - EN88-1 2) For Inlet pressure from 500mbar up to 6 Bar - EN88-2	Refer revised Datasheet
8	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator, S.No.1	Regulator inlet Pressure: 0-6 Barg	The minimum inlet pressure should be 1 barg as 0 barg is practically not possible, kindly confirm	Refer Reply point No. 20
9	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	Domestic Regulator Group A OPSO, UPSO, CRV	Please confirm the acceptance of below mentioned set ranges as per the industry standard OPSO: 34-42mbarg Excess Flow Cut-off for Under Pressure CRV : 26-31 mbarg	Refer revised Datasheet
10	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	Type of Reset for Domestic Regulator Group A	Bidder requesting to accept Auto Reset for UPSO & Manual Reset for OPSO as per previous RSGL Technical Specifications	Refer revised Datasheet
11	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Sr. No. 15	Type of Regulator Group A	As per Industry Standard the Regulator should be Two Stage Direct Acting only as these regulators will be installed directly at Domestic End user and Two Stage Regulators provide better safety compare to single stage regulators. Kindly Confirm	only Two-Stage regulators are accepted for Group A

12	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Sr. No. 17	End Connection for Group A	We understand that the RSGL requirement for Group A regulators end connection is as per below: 1/2" NPT Female Loose Nut X 3/4" NPT Female Loose Nut	1/2" BSP/NPT female loose Nut Threaded inlet and 1/2" BSP/NPT Female Loose Nut Threaded outlet conforming to ANSI B1.20.1. In case the end connections of the supplied regulator differ from the specified size/type, the bidder shall provide suitable brass adaptors of approved quality to meet the specified end connections. Please brass adaptors must be free-moving (not fixed) so that during installation of the regulator, these adaptors can be rotated/moved independently to ensure proper alignment and fitment.
13	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	176 of 189	GA DRAWING OF DOMESTIC REGULATOR	GA Drawing of Meter Regulator	We understand that the GA Drawing provided is for reference only, Bidder has to consider the datasheet of Meter Regulator	Tender condtion shall prevail
14	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	Domestic Regulator Group B OPSO, UPSO, CRV	OPSO & CRV are not provided as per the design Standard for Meter Regulator and UPSO Set Range will be 10-16 mbar as per the industry standard, please confirm the acceptance of the same.	Refer Revised Datasheet
15	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	End Connection for Group B	We understand that the RSGL requirement for Group B regulators end connection is as per below: 1/2" NPT Female Loose Nut X 3/4" NPT Female Loose Nut If the regulators end does not meet above requirement than separate MS Galvanized adaptor needs to be provided. Kindly confirm.	RSGL Requirement: ½" NPT (Female loose nut with suitable washers) inlet and ¾" brass adaptors at outlet of approved quality to connect the regulator and meter and meet the specified end connections. Please be noted that brass adaptors must be free-moving (not fixed) so that during installation of the regulator, these adaptors can be rotated/moved independently to ensure proper alignment and fitment.
16	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Notes: 2	Tag plate (SS 316) stamped with instrument tag number and service in 10mm characters shall be attached via SS wire (1 mm).	SS Tag Plate would not be required for these type of regulators as the regulator will have permeant Laser Marking as per below: Type, Flow, Inlet Pressure, Outlet Pressure, Set Points of OPSO, UPSO, CRV, Month and Year of Manufacturing, Unique Serial No, Make & Flow Direction on Body as Cast Kindly confirm	Bidder's requesting shall be considered, However, it meet of all performance criteria and sefety fetures in specified in Tender condtions
17	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Notes: 4	Accuracy of pressure regulation shall be better than 2.5% of the set pressure for the entire inlet pressure and flow range.	In Serial No 22 of Datasheet Accuracy Class has been asked as AC10 while in Note No 3 it has been asked as AC2.5 which is contradictory. Bidder would like to highlight that AC2.5 is not possible in direct acting regulators hence please confirm the acceptance of AC10 as per industry Standard.	Bidder's requesting shall be considered, However, it meet of all performance criteria and sefty fetures in specified in Tender condtions

18	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	-	-	Datasheet for Domestic Regulator	Please provide separate Datasheets for Meter Regulator i.e. 100mbar to 21mbar and Domestic Regulators i.e. 4 Bar to 21mbar as both the products are different and having different applicable EN standards.	Refer Revised Datasheet
19	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Table Sr. No. 2,	OPSO & CRV in Meter Regulator (100 mbar to 21 mbar)	We wish to clarify that Meter Regulators are supplied with an inbuilt Under Pressure Shut-Off (UPSO) device as standard. These regulators do not incorporate a Relief Valve (CRV) or Over Pressure Shut-Off (OPSO) arrangement, given their low inlet pressure rating.Meter Regulators are designed as "Fail-to-Close" type, for which CRV and OPSO are not required. These features are applicable to high inlet pressure regulators, such as Domestic Regulators (High Pressure), Service Regulators, and Commercial Regulators (inlet 1-6 bar to outlet 21/100 mbar). In contrast, Meter Regulators operate at a low inlet pressure of only 100 mbar .We kindly request that the requirements for CRV and OPSO be removed from the specifications for Meter Regulators (100 mbar inlet to 21 mbar outlet) and our request be accepted accordingly.	Refer revised Datasheet
20	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Table Sr. No. 1,	Regulator inlet pressure- 0-6 bar (g) & Regulator outlet setpoint (Factory set)-21 mbar(g)	Is technically impossible to have an outlet pressure of 21 mbar (millibar) if the inlet pressure is 0 bar, as pressure regulators require a minimum inlet pressure above zero to maintain any positive outlet pressure. Generally, the minimum inlet pressure needed is around 0.5 bar or higher for proper regulation and stable outlet pressure. This minimum pressure ensures the regulator can drop and control the pressure to the desired outlet level.In practical and safety terms, a regulator cannot create pressure; it can only reduce from the available inlet pressure. Therefore, zero inlet pressure means no pressure is available to regulate down to 21 mbar at the outlet. The commonly accepted minimum inlet pressure for small outlet pressures like 21 mbar is at least 0.5 bar to maintain stability and correct functioning of the regulator.Hence, your statement aligns with industry norms and technical principles that the minimum inlet pressure should be 0.5 bar for an outlet pressure of 21 mbar to be achievable and stable.	Bidder's requesting shall be considered, However, it meet of all performance criteria and sefety fetures in specified in Tender condtions
21	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Tabale Sr. No. 1,	Inlet 0 - 6.0 bar, Outlet 21 mbar) CRV: 25.2 & OPSO: 27.3	For Meter Regulators specified with Accuracy Class 10 and Closing Pressure SG 20, So the Lockup pressure is max 25.2 mbar as per standard technical requirements. The CRV (Cutoff Relief Valve) pressure must be a minimum of 20 - 30% higher than the Lockup pressure, while the OPSO (Over Pressure Shut-Off) pressure should be 20-30% higher than the CRV pressure. This results in CRV range pressure of 33 ± 2 mbar and OPSO range pressure of 38 ± 3 mbar, which aligns with general requirements across City Gas Distributors & also Gail Gas technical Specification .We kindly request your confirmation that these parameters meet the specifications and can be approved accordingly	Refer revised Datasheet

22	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Notes: 2	Tag plate (SS 316) stamped with instrument tag number and service in 10mm characters shall be attached via SS wire (1 mm).	SS tag plate should not there as Greenglobe Regulators comes with Parmanent Laser Marking on Regulator Body's Marking plate area for identification which we have previously supplied to all CGD .Please confirm .	Refer Reply point No. 16
23	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	Auto reset	During the tender bid meeting, it was discussed that RSGL requires an auto-reset feature for the domestic regulator (6 bar to 21 mbar).We kindly request you to confirm this requirement with all bidders .	Refer revised Datasheet
24	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator	End fittings	RSGL mention 3/4" End connection . But during the tender bid meeting, it was discussed that RSGL requires an additional adaptor matching for suitable thread & end connection for the Domestic regulator (6 bar to 21 mbar). We kindly request you to confirm this requirement with all bidders and explicitly state that the additional adaptor is mandatory for all vendors. Please specify the material grade for the adaptor, such as MS with plating or GI adaptor.	Refer Reply point No. 12
25	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	174 of 189	QUALITY ASSURANCE PLAN FOR NATURAL GAS REGULATORS Sr. No.2 - Remark Column	At least 5% to be withnessed by TPIA	At least 1% to be wtnessed by TPIA, all our customers asking for 1% witnessed quantity of the lot. Since 5% quantiiy for TPI wtnessed purpose becomes very high, we request you to reduce it to 1% for one day TPI We are testing 100% regulators for all test points in production. OR Give sampling inspection as per IS 2500 (Parl 1) 2000, General inspection Level 1 , AQL 2.5, Which is prevailed for inspection /witness purpose.	Tender condtion shall prevail
26	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	173 of 189	Datasheet for Domestic Regulator Table Sr. No. 2	Qty.- 35000 Flow 2.5 SCMH Set Poiht 21 mbar, Inlet Pressure 100 mbar, End Connection 3/4" NPT, OPSO 27.3 mbar, UPSO 13.65 mbar, CRV 25.2 mbar	OPSO - Not Applicable, CRV-Not Applcable, UPSO -11 to 15 mbar, Thls type of any domestic regulator do not have OPSO and CRV	Refer revised Datasheet

27	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	164 of 189 AND 173 of 189	4.1 Name Plate And Datasheet for Domestic Regulator Note No. 2	4.1 Name Plate- All Regulators shall be marked as per Manufacturer's standard and shall have a permanently attached stainless steel plate with the following, as a minimum detail: a. Certification; b. Manufacturer's Name and Identification Mark; c. Serial Number, Model Name and Model Number; d. Body and port sizes in inches: e. Stem travel in millimeters; f. Regulation upstream /downstream: g. Set Pressure; h. Nominal end connection size in inches and rating in lbs: i. Flow Direction: j. Area Classification; k. Standard for body / trim materials; l. Accuracy Class; m. Month & Year of Manufacture AND Note 2: Tag plate (SS 316) stamped with instrument tag number and service in 10mm characters shall be attached via SS wire (1mm) List	As meter regulator is of smaller size and regulator is having limited space, therefore it is not possible to permanently attach a stainless steel plate. Dot Pin engraving marking will be done on regulator body. Given details for marking is not possible on limited space on the regulator body. Marking will be done as per Annexure-1 on page no. 178 of 189	Refer Reply point No.: 16
28	SECTION – VI SPECIFICATIONS, SCOPE OF WORK AND DRAWINGS AND QAP	177 of 189	LIST OF RECOMMENDED THIRD PARTY INSPECTION AGENCY (TPIA)	List	Add following TPIA, if it is in your approved list. (1) Gulf Lloyds Industrial Services (INDIA) PVT. LTD. (2) Bureau Veritas (India) Pvt. Ltd. (3) DASH Inspectorate Pvt. Ltd	Tender condtion shall prevail

RAJASTHAN STATE GAS LIMITED
राजस्थान राज्य गैस लिमिटेड

Datasheet for Domestic Regulator High Pressure						Rev.
GENERAL	1	Quantity		Refer Table below		
	2	Service		Natural Gas		
	3	Governing Standard		EN 334 / EN 14382/EN 88-2		
	4	Installation	Orientation	Outdoor	Horizontal / Vertical	
	5	Line Size & Schedule		N/A		
	6					
PROCESS DATA	7	Fluid	State	Natural Gas	Gas	
	8	Inlet Pressure Range		Refer Table below		
	9	Flow capacity		Refer Table below		
	10	Outlet Pressure set range		21 mbar(g) (Factory Set Point) (Note-2)		
	11	Over Pressure Shut Off (OPSC)		Refer Table below		
	12	Under Pressure Shut Off (UPSC)		Refer Table below		
	13	Operating Temp.		0 - 60 DegC		
	14	Filter		Inbuilt		
BODY	15	Type of Regulator		Direct acting Spring control pressure regulator with in-built **two stage** pressure reducing valve type balance regulating unit to ensure a constant outlet pressure and with pressure slam shut device for insufficient downstream pressure & relief valve.		
	16	Body Size	Port Size	*		
	17	End Connection		1/2" BSP/NPT female loose Nut Threaded inlet and 1/2" BSP/NPT Female Loose Nut Threaded outlet conforming to ANSI B1.20.1. In case the end connections of the supplied regulator differ from the specified size/type, the bidder shall provide suitable brass adaptors of approved quality to meet the specified end connections. Please brass adaptors must be free moving (not fixed) so that during installation of the regulator, these adaptors can be rotated/moved independently to ensure proper alignment and fitment.		
	18	Flange to Flange dimension (mm)		Refer Table below		
	19	Body Material		ZAMAK - 3 or Die - Cast Aluminum*		
	20	Internal parts		Stainless Steel, Brass, Aluminum Seal of Nitrile Rubber		
	21	Diaphragm Material		Synthetic Rubber*		
	22	Accuracy Class		AC 10 complying to EN 334/EN 88-2 or Equivalent		
	23	Closing Pressure		SG 20 complying to EN 334/ EN 88-2 or Equivalent		
	24	Failure Position		Close		
	25	Type of Reset		Auto Reset		
MISC.	26	Make		*		
	27	Model No.		*		

S No.	Flow (At actual conditions)	Quantity (Nos.)	Regulator outlet setpoint (Factory set)	Regulator inlet pressure	End Connection	F - F Distance (mm)	Cut-off Pressure (mbar)			
							OPSC*	UPSC*	CRV set point*	
1	2.5 SCMH	15,000	21 mbar(g)	0.5-6 bar(g)	Refer Point 17	Mfr Std	34-42	Auto Reset	26-31	

Notes:

1	Regulator should have permanent laser marking for Type, Flow, I/P, O/P, Set points of OPSO, UPSO, CRV, Month & Year of manufacturing, unique serial no, Make & Flow Direction
2	Pressure regulators shall be suitable for outdoor installation, tamper proof and corrosion resistance for a life period of 20 years. If any cabinet is required to meet these requirements, it will be in bidder's scope.
3	Pressure regulator shall be Direct acting Spring control with in-built **two stage** pressure reducing valve type balance regulating unit to ensure a constant outlet pressure and with pressure slam shut device for insufficient downstream pressure & relief valve.
4	Regulator shall be provided with end caps.

RAJASTHAN STATE GAS LIMITED
राजस्थान राज्य गैस लिमिटेड

Datasheet for Domestic Regulator Low Pressure						Rev.
GENERAL	1	Quantity		Refer Table below		
	2	Service		Natural Gas		
	3	Governing Standard		EN 88 / EN 334		
	4	Installation	Orientation	Outdoor/Indoor	Horizontal / Vertical	
	5	Line Size & Schedule		N/A		
	6	Installation Position		Inlet and outlet connection at 90 Degrees		
PROCESS DATA	7	Fluid	State	Natural Gas	Gas	
	8	Inlet Pressure Range		Refer Table below		
	9	Flow capacity		Refer Table below		
	10	Outlet Pressure set range		21 mbar(g) (Factory Set Point) (Note-2)		
	11	Over Pressure Shut Off (OPSC)		Not Applicable		
	12	Under Pressure Shut Off (UPSC)		Refer Table below		
	13	Operating Temp.		0 - 60 Deg C		
	14	Filter		Inbuilt		
BODY	15	Type of Regulator		Direct acting Spring control pressure regulator with in-built pressure reducing valve type balance regulating unit to ensure a constant outlet pressure.		
	16	Body Size	Port Size	*		
	17	End Connection		½" NPT (Female loose nut with suitable washers) inlet and ¾" brass adaptors at outlet of approved quality to connect the regulator and meter and meet the specified end connections. Please note that brass adaptors must be free moving (not fixed) so that during installation of the regulator, these adaptors can be rotated/moved independently to ensure proper alignment and fitment.		
	18	Flange to Flange dimension (mm)		Refer Table below		
	19	Body Material		ZAMAK - 3 or Die - Cast Aluminum*		
	20	Internal parts		Stainless Steel, Brass, Aluminum Seal of Nitrile Rubber		
	21	Diaphragm Material		Synthetic Rubber*		
	22	Accuracy Class		AC 10 complying to EN 88 or Equivalent		
	23	Closing Pressure		SG 20 complying to EN 88 or Equivalent		
	24	Failure Position		Close		
	25	Type of Reset		Auto/ Manual		
MISC.	26	Make		*		
	27	Model No.		*		

S No.	Flow (At actual conditions)	Quantity (Nos.)	Regulator outlet setpoint (Factory set)	Regulator inlet pressure	End Connection	F - F Distance (mm)	Cut-off Pressure (mbar)			Rev.
							OPSC*	UPSC*	CRV set point*	
1	2.5 SCMH	35,000	21 mbar(g)	100 mbar(g)	1/2" NPT X 3/4" NPT	Mfr Std	NA	10-16	NA	

Notes:

1	The regulator shall be indelibly marked with details of Max. Flow, Inlet and outlet Pressure, UPSO range direction of flow (On Casting Body Arrow is marked), name of the manufacturer, model, unique serial number, Month & Year of Manufacturing etc	
2	Pressure regulator shall be suitable for outdoor installation, tamper proof and corrosion resistance for a life period of 20 years.	
3	End connections to be provided as per Cl No 17	
4	Pressure regulator shall be Direct acting Spring control with in-built pressure reducing valve type balance regulating unit to ensure a constant outlet pressure.	
5	Regulator shall be provided with end caps.	