ANNEXURE - 1

				Datasheet-:	1 of 2 for Commer	cial Regu	lator				Rev.
	1	Quantity			Refer MR						
F	2	Service			Natural Gas						
GENERAL	3	Governing	g Standard		EN 334/EN 14382						
z	4	Installatio	-	Orientation	Outdoor		Horizontal /	/ertical			
Щ	5		& Schedule		N/A						
•	6		on Orientatio	n	Connection Orienta	tion for In	lat and Outlat	chall ho i	nlino		
	-							Shall be i	mme.		
	9	Fluid		State	Natural Gas		Gas				
٩	10	Inlet Pres	sure Range		6 bar						
	11	Outlet Pre	essure Range	e	1 to 2 bar						1
PROCESS DATA	12	Flow capa	acity		Refer Table below						
S	13	Outlet Pre	essure set ra	nae	Refer Table Below.						
U C			sure Shut O		Required (Refer Not	te -12).					
<u>Š</u>			essure Shut		Required (Refer Not	,					
á.				011 (0F30)		,					-
		CRV Set F			Required (Refer Not	te -12).					
	19	Operating	j Temp.		0 - 60 DegC						
	20	Type of R	egulator		Direct actuating wit				i in-built p	oressure	
			-		balance and integra	al slam shu	it valve syster	n.			
	21	Body Size	9	Port Size	*						
	22	End Conn	ection		Refer Table Below.						
	24	Flange to	Flange dime	ension (mm)	Refer Table below.						
					ZAMAK - 3 or Die -	Cact Alum		ACTM AT		Pofor Noto	<u> </u>
	25	Body Mat	erial			Cast Alum	minum alloy or	ASTM AZ	TO WCR (Reler NOTE-	
вору		-			11). Chaimlean Chaol and	Due C	L of Nitoria D 1		mater to a		<u> </u>
õ	26	Internal p	oarts		Stainless Steel and	Brass Sea	n of Nitrile Rut	pper or Alu	iminium a	is required	
					for service						ļ
			m Material		Synthetic / Nitrile R						
		Accuracy			AC 10 complying to						
	30	Closing Pi	ressure		SG 20 complying to	EN 334 o	r Equivalent				
	31	Failure Po	sition		Close						
	33	Type of re	eset		Manual						
		Accessori			refer note - 7						
		ACCESSON	63								
	-				*						
sc.	-	Make			*						
MISC.	35				*						
MISC.	35	Make Model No									
MISC.	35			Regulator			F - F	Cut-off	f Pressur	re (mbar)	
	35 37		Quantity	outlet setpoint		tion	Distance			1	
S No.	35 37	Model No			*	tion		Cut-off OPSO	f Pressur UPSO	re (mbar) CRV Set point	
S No.	35 37	Model No Flow	Quantity (Nos.)	outlet setpoint	* End Connect		Distance (mm)	OPSO	UPSO	CRV Set point	
S No.	35 37 2	Model No Flow 5 m3/h	Quantity (Nos.) Refer MR	outlet setpoint (Factory set)	* End Connect 1" X 2", 150# Fl	langed	Distance (mm) Mfr Std	OPSO Require	UPSO ed (Refer	CRV Set point Note -12).	
S No. 1 2	35 37 2 5	Model No Flow 5 m3/h 0 m3/h	Quantity (Nos.) Refer MR Refer MR	outlet setpoint	* End Connect 1" X 2", 150# FI 1" X 2", 150# FI	langed langed	Distance (mm) Mfr Std Mfr Std	OPSO Require Require	UPSO ed (Refer ed (Refer	CRV Set point Note -12). Note -12).	1
S No.	35 37 2 5	Model No Flow 5 m3/h	Quantity (Nos.) Refer MR	outlet setpoint (Factory set)	* End Connect 1" X 2", 150# Fl	langed langed	Distance (mm) Mfr Std	OPSO Require Require	UPSO ed (Refer ed (Refer	CRV Set point Note -12).	1
S No. 1 2 3 Notes:	35 37 2 5 1(Model No Flow 5 m3/h 0 m3/h 00 m3/h	Quantity (Nos.) Refer MR Refer MR Refer MR	outlet setpoint (Factory set)	* End Connect 1" X 2", 150# FI 1" X 2", 150# FI	langed langed	Distance (mm) Mfr Std Mfr Std	OPSO Require Require	UPSO ed (Refer ed (Refer	CRV Set point Note -12). Note -12).	1
S No. 1 2 3 Notes: 1 Ver	35 37 2 5 1(Model No Flow 5 m3/h 0 m3/h 00 m3/h to specify.	Quantity (Nos.) Refer MR Refer MR Refer MR	outlet setpoint (Factory set) 1 to 2 Bar(g)	* End Connect 1" X 2", 150# FI 1" X 2", 150# FI 1" X 2", 150# FI	langed langed langed	Distance (mm) Mfr Std Mfr Std Mfr Std	OPSO Require Require Require	UPSO ed (Refer ed (Refer ed (Refer	CRV Set point Note -12). Note -12).	1
5 No. 1 2 3 lotes: 1 Ver The	35 37 2 5 1(Model No Flow 5 m3/h 0 m3/h 00 m3/h to specify.	Quantity (Nos.) Refer MR Refer MR Refer MR	outlet setpoint (Factory set) 1 to 2 Bar(g)	* End Connect 1" X 2", 150# FI 1" X 2", 150# FI	langed langed langed	Distance (mm) Mfr Std Mfr Std Mfr Std	OPSO Require Require Require	UPSO ed (Refer ed (Refer ed (Refer	CRV Set point Note -12). Note -12).	1
5 No. 1 2 3 lotes: 1 Ver 2 The	35 37 2 5 1(Model No Flow 5 m3/h 0 m3/h 00 m3/h to specify. ulator shal	Quantity (Nos.) Refer MR Refer MR Refer MR * I be indelibly	outlet setpoint (Factory set) 1 to 2 Bar(g)	* End Connect 1" X 2", 150# FI 1" X 2", 150# FI 1" X 2", 150# FI	langed langed langed , Inlet and	Distance (mm) Mfr Std Mfr Std Mfr Std outlet pressu	OPSO Require Require Require	UPSO ed (Refer ed (Refer ed (Refer	CRV Set point Note -12). Note -12).	1
5 No. 1 2 3 lotes: 1 Ver 2 The nan	35 37 2 5 10 ereg ne of	Model No Flow 5 m3/h 0 m3/h 00 m3/h to specify. ulator shal the manu	Quantity (Nos.) Refer MR Refer MR * I be indelibly ifacture, more	outlet setpoint (Factory set) 1 to 2 Bar(g) marked with detaidel, unique serial n	* End Connect 1" X 2", 150# Fl 1" X 2", 150# Fl 1" X 2", 150# Fl ils of maximum flow, umber, date of man	langed langed langed , Inlet and ufacturing	Distance (mm) Mfr Std Mfr Std Mfr Std outlet pressu etc.	OPSO Require Require Require re range, o	UPSO ed (Refer ed (Refer ed (Refer direction o	CRV Set point Note -12). Note -12).	1
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S No. 1 2 3 lotes: 1 Ver 2 The nan 3 Ver 4 Pres yea	35 37 2 5 10 ador e reg ne of ndor ssure	Model No Flow 5 m3/h 0 m3/h 00 m3/h to specify. ulator shall the manu shall subm e regulator	Quantity (Nos.) Refer MR Refer MR * I be indelibly ifacture, mon hit detailed G	outlet setpoint (Factory set) 1 to 2 Bar(g) marked with detaidel, unique serial n A drawing along w table for outdoor ir	* End Connect 1" X 2", 150# Fl 1" X 2", 150# Fl 1" X 2", 150# Fl ils of maximum flow, umber, date of man ith part names and l istallation , tamper p	langed langed anged , Inlet and ufacturing MOC of the proof and o	Distance (mm) Mfr Std Mfr Std Mfr Std outlet pressu etc. e parts along v corrosion resis	OPSO Require Require Require re range, with datast tance for a	UPSO ed (Refer ed (Refer ed (Refer direction of heets. a life perio	CRV Set point Note -12). Note -12). Note -12). of flow,	1
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1 2 3 lotes: 1 2 1 2 1 2 1 2 1 2 1 2 3 Ven 4 Pre: 5 6 7 6 7 6 7 7 7 7 7 7 7 8 1	35 37 2 5 10 ador 2 reg ne of ador ssure ensu de Co ase o ccifice areg ama weat poir the e	Model No Flow 5 m3/h 0 m3/h 0 m3/h 10 m1 10 m1 10 m3/h 10 m3/h 10 m3/h 10 m3/h 10 m3/h 10 m3/h 10 m1 10 m1 10 m3/h 10 m3/h 10 m1 10 m3/h 10 m3/h	Quantity (Nos.) Refer MR Refer MR Refer MR * I be indelibly ifacture, mou- it detailed G shall be dir- shall be di	outlet setpoint (Factory set) 1 to 2 Bar(g) 7 marked with detaidel, unique serial n A drawing along w table for outdoor in ect acting spring co essure. Fr Gas Regulators, astic end caps for e Type approval/ Exa differing bidder to ouble stage pressu and aloy used as bo resistant to sustain ndor. gs including loose n GOA NATURAL GA LIMITED (GNGPL). SUPPLY OF NATUR REGULATOR FOR (* End Connect 1" X 2", 150# Fl ils of maximum flow, umber, date of man ith part names and I ith part names and I istallation , tamper p ontrol type with in-bu Document No. VPC ind connections prot mination Certificate provide suitable ada re regulator. ody material of comr in it's life period of 2 outs, etc. shall be of S PRIVATE CAL GAS CITY GAS	langed langed langed langed , Inlet and ufacturing MOC of the proof and of uilt pressu SPC-5602 ection. confirming ptors of b mercial reg 0 years. brass mat	Distance (mm) Mfr Std Mfr Std Mfr Std outlet pressu etc. e parts along v corrosion resis re reducing va for more infor g to the govern rass material of gulator, coating erial and shall 12-08-2021	OPSO Require Require Require re range, o vith datash tance for a live and ba mation. ning stand of regulato g is not re- be provid	UPSO ed (Refer ed (Refer ed (Refer ed (Refer ed (Refer ed address) ed (Refer	CRV Set point Note -12). Note -12). Note -12). of flow, od of 20 gulating unit t the t it should ndor.	

				Datasheet-2 of 2	for Commercial	Regulat	tor				Rev
	1	Quantit	y		Refer MR						
AL	2	Service			Natural Gas						
ER	3	Governi	ing Standard	1	EN 334/EN 1438	82					
GENERAL	4	Installa		Orientation	Outdoor	Outdoor Horizontal / Vertical					
Ū	5	Line Siz	e & Schedul	e	N/A						
	6		tion Orienta	tion	Connection Orie	ntation for		utlet sha	all be inlir	ne.	
	7	Fluid		State	Natural Gas		Gas				
ΤA	8	Inlet Pr	essure		6 bar						
PROCESS DATA	9	Flow ca	pacity		Refer Table belo	w					
ŝ	10	Outlet F	Pressure		Refer Table belo	w					
ы К	11	Over Pr	essure Shut	Off (OPSO)	Required (Refer	Note -12	2).				
ğ	12	Under F	Pressure Shu	it Off (UPSO)	Required (Refer	Note -12	2).				
R	13	CRV Se	t Point		Required (Refer	Note -12	2).				
	14	Operati	ng Temp.		0 - 60 DegC						
	15	Type of	Regulator		Direct actuating pressure balance					-built	
	16	Body Si	ze	Port Size	*						
	17	End Cor	nection		Threaded as per	r ANSI / /	ASME B1.20.1	(Refer N	lote - 9)	(Refer	
	1/				table below).						
	18	End to	End dimensi	on (mm)	Refer Table belo						
≻	19	Body M	aterial		ZAMAK - 3 or Di		Aluminium allo	oy or AS	TM A216	WCB	
ворү	19	DOUY M			(Refer Note-11)						
ä	20	Interna	Inarte		Stainless Steel a	and Brass	Seal of Nitrile	Rubber	or Alumi	nium	
	20	interna	puits		as required for s	service.					
	21		gm Material		Synthetic / Nitri						
	22	Accurac	,		AC 10 complying	-					
	23	Closing	Pressure		SG 20 complyin	g to EN 3	34 or Equivale	ent.			
	24	Failure	Position		Close						
	25	Type of	reset		Manual						
	26	Accesso	ories		refer note - 7						
ij	27	Make			*	-			-	-	
S	28	Model N			*						
브		mouern	10.		-						
MISC.	20	1									
IW	20			Regulator outlet			E _ E	Cut-	off Pres	sure	
Νo.	-	Flow	Quantity (Nos.)	Regulator outlet setpoint (Factory set)	End Connec	ction	E - E Distance (mm)	Cut- OPSO	off Pres (mbar) UPSO	CRV Set	
		Flow		setpoint (Factory			Distance		(mbar)	CRV	
No.	10) m3/h	(Nos.) Refer MR	setpoint (Factory set)	1" X 1" (NP	PTF)	Distance (mm)	OPSO	(mbar) UPSO	CRV Set point	
No. 1 2	10) m3/h 5 m3/h	(Nos.) Refer MR Refer MR	setpoint (Factory	1" X 1" (NP 1" X 1.5" (N	PTF) PTF)	Distance	OPSO	(mbar) UPSO	CRV Set point	
No. 1 2 3	10 25 50) m3/h	(Nos.) Refer MR	setpoint (Factory set)	1" X 1" (NP	PTF) PTF)	Distance (mm)	OPSO	(mbar) UPSO	CRV Set point	
No. 1 2 3 otes	10 25 50) m3/h 5 m3/h) m3/h	(Nos.) Refer MR Refer MR Refer MR	setpoint (Factory set)	1" X 1" (NP 1" X 1.5" (N	PTF) PTF)	Distance (mm)	OPSO	(mbar) UPSO	CRV Set point	
No. 1 2 3 otes	10 25 50 :) m3/h 5 m3/h) m3/h to speci	(Nos.) Refer MR Refer MR Refer MR	setpoint (Factory set) 500 mbar(g)	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N	PTF) PTF) PTF)	Distance (mm) Mfr Std	OPSO Require	(mbar) UPSO ed (Refer 12).	CRV Set point	
No. 1 2 3 otes Th	10 25 50 ndor e reg) m3/h 5 m3/h) m3/h to speci gulator sl	(Nos.) Refer MR Refer MR Refer MR fy.*	setpoint (Factory set) 500 mbar(g) bly marked with details of	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N	PTF) PTF) PTF) , Inlet ar	Distance (mm) Mfr Std	OPSO Require	(mbar) UPSO ed (Refer 12).	CRV Set point	
No. 1 2 3 otes Th	10 25 50 ndor e reg) m3/h 5 m3/h) m3/h to speci gulator sl	(Nos.) Refer MR Refer MR Refer MR fy.*	setpoint (Factory set) 500 mbar(g)	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N	PTF) PTF) PTF) , Inlet ar	Distance (mm) Mfr Std	OPSO Require	(mbar) UPSO ed (Refer 12).	CRV Set point	
No. 1 2 3 otes Th flo	10 25 50 e reg w, na) m3/h 5 m3/h) m3/h to speci gulator sl ame of th	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact	setpoint (Factory set) 500 mbar(g) bly marked with details of	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of	PTF) PTF) PTF) , Inlet ar f manufa	Distance (mm) Mfr Std d outlet press cturing etc.	OPSO Require	(mbar) UPSO ed (Refer 12). e, directi	CRV Set point Note -	
No. 1 2 3 otes . Yee . . . <td>10 25 50 : ndor e reg w, na</td> <td>) m3/h 5 m3/h) m3/h to speci gulator sl ame of tl shall su</td> <td>(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact</td> <td>setpoint (Factory set) 500 mbar(g) bly marked with details o ure, model, unique seria d GA drawing along with</td> <td>1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and</td> <td>PTF) PTF) PTF) , Inlet ar f manufa MOC of t</td> <td>Distance (mm) Mfr Std d outlet press cturing etc. he parts along</td> <td>OPSO Require ure rang with dat</td> <td>(mbar) UPSO ed (Refer 12). e, directi tasheets.</td> <td>CRV Set point Note -</td> <td></td>	10 25 50 : ndor e reg w, na) m3/h 5 m3/h) m3/h to speci gulator sl ame of tl shall su	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact	setpoint (Factory set) 500 mbar(g) bly marked with details o ure, model, unique seria d GA drawing along with	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and	PTF) PTF) PTF) , Inlet ar f manufa MOC of t	Distance (mm) Mfr Std d outlet press cturing etc. he parts along	OPSO Require ure rang with dat	(mbar) UPSO ed (Refer 12). e, directi tasheets.	CRV Set point Note -	
No. 1 2 3 otes 2 Th flo 3 Ve 2 Th flo 4 Pr	10 25 50 : ndor e re <u>c</u> w, na ndor	0 m3/h 5 m3/h 0 m3/h to speci gulator sl ame of tl shall sul re regula	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact	setpoint (Factory set) 500 mbar(g) bly marked with details o ure, model, unique seria	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and	PTF) PTF) PTF) , Inlet ar f manufa MOC of t	Distance (mm) Mfr Std d outlet press cturing etc. he parts along	OPSO Require ure rang with dat	(mbar) UPSO ed (Refer 12). e, directi tasheets.	CRV Set point Note -	
No. 1 2 3 otes Th flo Ve Pri of Pri	10 25 50 ndor e reg w, na ndor essur 20 y	0 m3/h 5 m3/h 0 m3/h to speci gulator sl ame of tl shall sul re regula ears.	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact bmit detailed tor shall be	setpoint (Factory set) 500 mbar(g) bly marked with details o ure, model, unique seria d GA drawing along with suitable for outdoor insta	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof and	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res	OPSO Require ure rang with dat istance f	(mbar) UPSO ed (Refer 12). e, directi tasheets. or a life	CRV Set point Note -	
No. 1 2 3 otes Ve 7 flo 8 Ve 9 ve 9 rn of 9 Pri	100 25 500 100 100 100 100 100 100 100 100 10	0 m3/h 6 m3/h 0 m3/h to speci gulator sl ame of tl shall su e regula ears. re regula	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline tor shall be tor shall be	setpoint (Factory set) 500 mbar(g) bly marked with details o ure, model, unique seria d GA drawing along with	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p rol type with in-t	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof and	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res	OPSO Require ure rang with dat istance f	(mbar) UPSO ed (Refer 12). e, directi tasheets. or a life	CRV Set point Note -	
1 2 3 otes 1 2 3 otes 1 1 2 3 otes 1 1 2 1 1 2 1 <	10 25 50 10 10 10 10 10 10 10 10 10 10 10 10 10	0 m3/h 6 m3/h 10 m3/h to speci gulator sl ame of tl shall su re regula ears. re regula ing unit f	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline tor shall be tor shall be tor shall be	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri constant outlet pressure.	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p rol type with in-t	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof and puilt pres	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res sure reducing	OPSO Require ure rang with dat istance f valve an	(mbar) UPSO ed (Refer 12). e, directi tasheets. or a life p d balance	CRV Set point Note -	
No. 1 2 3 otes 2 3 otes 2 5 6 6	10 25 50 50 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0 m3/h 6 m3/h 10 m3/h to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit to trandard	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact bmit detailed tor shall be tor shall be tor shall be specification	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri constant outlet pressure.	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p rol type with in-t cument No. VPC-	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof and puilt pres SPC-560	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res sure reducing	OPSO Require ure rang with dat istance f valve an	(mbar) UPSO ed (Refer 12). e, directi tasheets. or a life p d balance	CRV Set point Note -	
No. 1 2 3 otes 1 2 1 2 1 2 1 2 1 2 1 2 3 0 1 1 2 1 2 3 0 1 1 1 1 1 2 1 <td>10 25 50 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>0 m3/h 6 m3/h 7 m3/h 7 to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit f tandard pries: Fil</td> <td>(Nos.) Refer MR Refer MR Refer MR fy.* hall be indeline to manufact bomit detailed tor shall be tor shall be tor shall be to ensure a Specification ter (inbuilt),</td> <td>setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri constant outlet pressure. n for Gas Regulators, Do plastic end caps for end</td> <td>1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and I allation , tamper p rol type with in-te- cument No. VPC- connections prot</td> <td>PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof anc puilt pres SPC-560 tection.</td> <td>Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res sure reducing 2 for more info</td> <td>OPSO Require ure rang with dat istance f valve an</td> <td>(mbar) UPSO ed (Refer 12). e, directi casheets. or a life d balance</td> <td>CRV Set point Note -</td> <td></td>	10 25 50 10 10 10 10 10 10 10 10 10 10 10 10 10	0 m3/h 6 m3/h 7 m3/h 7 to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit f tandard pries: Fil	(Nos.) Refer MR Refer MR Refer MR fy.* hall be indeline to manufact bomit detailed tor shall be tor shall be tor shall be to ensure a Specification ter (inbuilt),	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri constant outlet pressure. n for Gas Regulators, Do plastic end caps for end	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and I allation , tamper p rol type with in-te- cument No. VPC- connections prot	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof anc puilt pres SPC-560 tection.	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res sure reducing 2 for more info	OPSO Require ure rang with dat istance f valve an	(mbar) UPSO ed (Refer 12). e, directi casheets. or a life d balance	CRV Set point Note -	
No. 1 2 3 otes Print Pri	10 25 50 10 10 10 10 10 10 10 10 10 10 10 10 10	0 m3/h 6 m3/h 7 m3/h 7 to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit f tandard pries: Fil	(Nos.) Refer MR Refer MR Refer MR fy.* hall be indeline to manufact bomit detailed tor shall be tor shall be tor shall be to ensure a Specification ter (inbuilt),	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri constant outlet pressure.	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and I allation , tamper p rol type with in-te- cument No. VPC- connections prot	PTF) PTF) PTF) , Inlet ar f manufa MOC of t proof anc puilt pres SPC-560 tection.	Distance (mm) Mfr Std d outlet press cturing etc. he parts along d corrosion res sure reducing 2 for more info	OPSO Require ure rang with dat istance f valve an	(mbar) UPSO ed (Refer 12). e, directi casheets. or a life d balance	CRV Set point Note -	
No. 1 2 3 otes Th flo Pr of Pr rev Rev / Ac Cc In	100 25 500 100 100 100 100 100 100 100 100 10	0 m3/h 6 m3/h 10 m3/h to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit ti tandard pories: Fill ompliance	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact bmit detailed tor shall be tor shall be tor shall be to ensure a Specification ter (inbuilt),	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri- constant outlet pressure. In for Gas Regulators, Do plastic end caps for end e/ Type approval/ Examin	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p rol type with in-te- cument No. VPC- connections prot hation Certificate	PTF) PTF) PTF) MOC of ti proof and puilt pres SPC-560 tection. confirmin	Distance (mm) Mfr Std d outlet press cturing etc. he parts along corrosion res sure reducing 2 for more info	OPSO Require ure rang with dat istance f valve an prmation	(mbar) UPSO ed (Refer 12). e, directi tasheets. for a life p d balance	CRV Set point Note -	
No. 1 2 3 otes Th flo Prr er Re 7 Acc 3 Ccc 1 1 2 3 1 2 3 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	100 25 500 100 100 100 100 100 100 100 100 10	0 m3/h 6 m3/h 10 m3/h to speci gulator sl ame of tl shall sul re regula ears. re regula ing unit f itandard pries: Fill ompliance of end c	(Nos.) Refer MR Refer MR Refer MR fy.* nall be indeline manufact bmit detailed tor shall be tor shall be tor shall be to ensure a Specification ter (inbuilt),	setpoint (Factory set) 500 mbar(g) bly marked with details of ure, model, unique seria d GA drawing along with suitable for outdoor insta direct acting spring contri- constant outlet pressure. In for Gas Regulators, Do plastic end caps for end e/ Type approval/ Examinate are differing bidder to pro-	1" X 1" (NP 1" X 1.5" (N 1" X 1.5" (N 1" X 1.5" (N of maximum flow I number, date of part names and allation , tamper p rol type with in-te- cument No. VPC- connections prot hation Certificate	PTF) PTF) PTF) MOC of ti proof and puilt pres SPC-560 tection. confirmin	Distance (mm) Mfr Std d outlet press cturing etc. he parts along corrosion res sure reducing 2 for more info	OPSO Require ure rang with dat istance f valve an prmation	(mbar) UPSO ed (Refer 12). e, directi tasheets. for a life p d balance	CRV Set point Note -	
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ANNEXURE - 2

	ENERGISING QUALITY		Ural Gas Pyt.Ltd.				
MAT	TERIAL REQU	ISITION FOR SUPF REGULATOR	PLY OF NATURA	L GAS	TOTALS	SHEETS	07
	DOCUMENT	NO 1023	3 CGD	IN	MR	50)02
		L REQUISITI	ISTRIBUTI NORTH GO	ON PR A GA PPLY (OJECT		SAS
D2	12-08-2021	ISSUE	D FOR BIDS		AS	AB	AA
0	15-07-2021	ISSUED FO	R CLIENT REVIEW	V	AS	AB	AA
		DES					



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1 INTRODUCTION

M/s Goa Natural Gas Pvt. Ltd. is a Joint Venture (JV) of Bharat Petroleum Corporation Limited (BPCL), A Govt. of India Enterprise and GAIL Gas Limited, a fully owned subsidiary company of GAIL (India) Limited, has been set up to provide PNG (piped Natural Gas) to industrial, domestic, commercial sectors and CNG to automobile sector in North Goa GA.

VCS Quality Services Pvt. Ltd. (VCS has been appointed as Project Management Consultant for providing consultancy services for CGD Expansion Project for PNG & CNG in North Goa (hereinafter referred as Consultant), by GNGPL.

2 DEFINITIONS

PROJECT	CITY GAS DISTRIBUTION PROJECT OF NORTH GOA GA
OWNER / COMPANY	GOA NATURAL GAS PRIVATE LIMITED (GNGPL)
CONSULTANT	VCS Quality Services Private Limited (VCSQSPL) the party to act for and on behalf of OWNER for the Engineering Services.
VENDOR / BIDDER	"Vendor" means the person(s), firm, company, Organization from whom contractor procures products/services.
MR	Material Requisition.

3 DOCUMENT PRECEDENCE

It shall be the responsibility of the Manufacturer / Vendor to inform the Purchaser of any errors, ambiguities, inconsistencies, discrepancies or conflict of information that may be found to exist in any document, specification or drawing submitted by the Purchaser.

In case of conflict, the order of precedence shall be as follows:

- a. Data Sheets;
- b. Technical Specifications;
- c. Basic Documents;
- d. Codes and Standards.

As a general rule in the event of any discrepancy between technical matter and local laws/ regulations (and documents above listed) the most stringent shall be applied.

Manufacturer / Vendor shall notify purchaser of any apparent conflicts between MR, specifications, related datasheets, any code and standards and any other specifications noted herein. (Resolution and / or interpretation precedence shall be obtained from



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Purchaser in writing before proceeding with the design / manufacturer or completion of services.)

DESCRIPTION OF GOODS AND / OR SERVICES 4

The scope of supply covers design, engineering, manufacture, inspection, testing & supply, shipment and documentation requirements of these items in accordance with the requirements of this requisition for city gas distribution project in North Goa GA's.

GROUP	DESCRIPTION OF NATURAL GAS REGULATOR	QUANTITY
_	Domestic Regulator	
Α	Domestic Regulator, Inlet-: 6 bar, Outlet-: 21 mbar, Flow-: 6.5 m3/h	3,000 Nos.
	Meter Regulator	
В	Meter Regulator, Inlet-: 100 mbar, Outlet-: 21 mbar, Flow-: 2.5 m3/h.	3,500 Nos.
С	Service Regulator	
1.	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 10 m3/h.	100 Nos.
2.	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 25 m3/h.	50 Nos.
3.	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 50 m3/h.	30 Nos.
4.	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 100 m3/h.	10 Nos.
D	Commercial Regulator	
1.	Commercial Regulator, Inlet-: 6 bar, Outlet-:500 mbar, Flow-: 10 m3/h	45 Nos.
2.	Commercial Regulator, Inlet-: 6 bar, Outlet-:500 mbar, Flow-: 25 m3/h.	35 Nos.
3.	Commercial Regulator, Inlet-: 6 bar, Outlet-:500 mbar, Flow-: 50 m3/h.	20 Nos.
4.	Commercial Regulator, Inlet-: 6 bar, Outlet-: 1 to 2 bar, Flow-: 25 m3/h.	10 Nos.
5.	Commercial Regulator, Inlet-: 6 bar, Outlet-: 1 to 2 bar, Flow-: 50 m3/h.	08 Nos.
6.	Commercial Regulator, Inlet-: 6 bar, Outlet-: 1 to 2 bar, Flow-: 100 m3/h.	04 Nos.



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NOTES:

- 1. Accessories for regulator shall be supplied as specified in the specifications attached with the material requisition.
- 2. Bidder has to quote full quantity of quoted item mentioned above; partial quotation for the item shall be liable to rejection.
- 3. Bidder has to quote whole group of quoted item mentioned above; partial quotation for the group shall be liable to rejection.
- 4. Cost of Third Party Inspection Agency shall be in bidder/supplier scope.

5 REMARKS / COMMENTS

5.1 Supplier's Compliance

Supplier shall submit his bid in full compliance with the requirements of this MR and attachments.

Bidder shall include the following statement in his bid:

We certify that our bid is fully complying with your enquiry datedand referenced,

Compliance with this material requisition in any instance shall not relieve the vendor of his responsibility to meet the specified performance.

5.2 Compliance with Specification

The supplier shall be completely responsible for the design, materials, fabrication, testing, and Inspection, preparation for shipment & transfer of above material to nominated delivery point strictly in accordance with the MR & all attachments thereto.

5.3 Supplier's Scope

Supplier's scope of work includes the equipment with all internals & accessories shown on the data sheets, specifications and all parts necessary for a satisfactory operation & testing except those which are indicated to be out of Supplier's supply.

6 DOCUMENTS & DATA REQUIREMENTS

- 1. The table hereunder specifies the quantities & nature of the documents to be submitted by the Supplier to Company.
- 2. The documents required at the inquiry stage to be included in the bid are listed under column A.
- 3. The documents required after award of the agreement and subject to the written approval of the Company are listed under column B.
- 4. The final & certified documents are listed under column C.
- 5. Any document even when preliminary shall be binding and therefore duly identified & signed by the Supplier. It shall bear the Company's project reference, the PR number and identification number.
- 6. The documents are fully part of the supply which shall be complete only if and when the documents complying fully with the purchase requisition requirements received by the Engineer.





		Α		В	С		
Item	Documents and Data	Number of copies	Number of copies	Required date	Number of copies	Required date	
1.	Catalogue with part list, Detailed Data Sheet as per Tender Specifications.	1	2	1 week	2	1 week	
2.	Sizing Calculation for each type of offered regulators.		2	1 week	2	1 week	
3.	Detail of Raw Material Manufacturer with contact details		2	1 week	2	1 week	
4.	Detail GA Drawing, Fabrication, Document Submittal Schedule, testing and delivery schedule (per item) and for all accessories.		2	1 week	2	1 week	
5.	Code Compliance Certificate	1	2	1 week	2	1 week	
6.	Compliance Certificate to Quality Assurance Plan	1		1 week		1 week	
7.	Tag Number & Nameplate format		2	1 week	2	1 week	
8.	List of special test equipment / tools required for maintenance		2	1 week	2	1 week	
9.	Spare Parts List for 2 years Normal Operation		2	1 week	2	1 week	
10.	Inspection and Test Procedures		2	1 week	2	1 week	
11.	Test / Calibration / Inspection Certificates / Reports.		2	1 week after test	2	1 week	
12.	Catalogues with part list Installation, Operation and Maintenance manuals for regulators along with software CD and calibration reports.		2	2 weeks before shipping	2	1 week	
13.	Painting System Description		2	2 weeks before shipping	2	1 week	
14.	Packing / Shipping list with weights and dimensions.		2	2 weeks before shipping	2	1 week	
15.	Final technical file (containing all final drawings and		2	2 weeks before	2	2 weeks before	



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	documents listed in column `c')		shipping	shipping
16.	Deviation form, Technical specifications if any with proper justification	1		

NOTES:

- 1. Duration in column B (required date) are weeks after purchase order date (=T0).
- 2. Duration in column C (required date) are weeks after document approval.
- 3. Due date of each document may be proposed.
- 4. Final technical file shall be supplied in hard copy as indicated, and in electronic format (PDF) on two (2) DVD-ROMS.
- 5. The selected vendor shall provide calibration certificates of each item.
- 6. The packing boxes for each item. (Each Item which is been packed independently) shall carry the item calibration certificate within the packing box.

7 LIST OF ATTACHMENTS

The table below lists the documents which are integral part of this Material Requisition. The applicable revision index of each document is mentioned in the column below the current material requisition revision index.

When the material requisition revision index is "A" or "1", all listed documents are attached. For other material requisition revision index, only modified or new documents are attached.

DOCUMENTS	DOCUMENT NO.		EVISION O	
Annexure – 1	-	0		
Standards Specification for Gas Regulators	VPC-SPC-5602	0		
Instrument Datasheets	1023-CGD-IN-DS-5002	D2		
Quality Assurance Plan for Gas Regulator	1023-CGD-IN-QAP-5002	C1		
List of TPIA	-	0		



ANNEXURE - 3



NAME	OF	BIDD	FR:-
		סוס	LI

ENERGISING QUALITY	SCHEDULE OF RATES FOR SUPPLY OF NATURAL GAS REGULATOR IN NORTH GOA GA TENDER NO. GNGPL/C&P/T-30 TENDER ID: VCS2100005								Goa Natural Gas Pyt.Ltd. A Joint Venture of GAIL Gas Ltd & BPCL		
NAME OF E	BIDDER:-										
SI No.	Description as per MR	Quantity	Ex-works price quoted by the bidder (including packing, forwarding, and GSTon components and raw materials but excluding Inland Transportation to Delivery Location) including cost of Inspection by Third Party Agency, etc. (wherever applicable)	Inland transportation upto Delivery location and other costs incidental to delivery of goods	or IGST) o goods ex transporta	on the finished cluding inland	or IGST transporta	&SGST/UTGST F) on inland tion (i.e. on cl. 10. 5)	Unit FOT site price incl. GST & & inland transportaion	Total FOT site price incl. all taxes & duties & inland transportaion	Harmonized System Nomenclature (HSN)
		(Nos.)	(INR)	(INR)	%	(INR)	%	(INR)	(INR)	(INR)	
(1)	(2)	(3)	(4)	(5)	(6A)	(6B)	(7A)	(7B)	(8)= (4)+(5)+(6B)+ (7B)	(9)= (8) X (3)	(10)
Desig	n, Engineering, Manufacturing, Inspection, Shop testing, sub	mission & ap	pproval of design calculation, draw	vings & transportation	on of gas r	egulators at s	site with al	l its accessori	es as per technical specifi	cation requirements, MR and sc	ope of work.
Group A - Dom	estic Regulator										
1	Domestic Regulator, Inlet pressure-: 6 bar, Outlet pressure-: 21 mbar, Flow-: 6.5 m3/hr.	3,000.00				-		-	-	-	
						I		I	Total (Group A)	-	
Group B - Mete	er Regulator										
1	Meter Regulator, Inlet pressure-: 100 mbar, Outlet pressuret-: 21 mbar, Flow-: 2.5 m3/hr.	3,500.00				-		-	-	-	
				1		I	I	1	Total (Group B)	-	
Group C - Servi	ice Regulator										
1	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 10 m3/hr	100.00				-		-	-	-	
2	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 25 m3/hr	50.00				-		-	-	-	
3	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 50 m3/hr	30.00				-		-	-	-	
4	Service Regulator, Inlet-: 6 bar, Outlet-:100 mbar, Flow-: 100 m3/hr	10.00				-		-	-	-	
				1		1	1	1	Total (Group C)	-	
Group D - Com	mercial Regulator										
1	Commercial Regulator, Inlet-: 6 bar , Outlet- :500 mbar, Flow-: 10 m3/hr.	45.00				-		-	-	-	
2	Commercial Regulator, Inlet-: 6 bar , Outlet- :500 mbar, Flow-: 25 m3/hr.	35.00				-		-	-	-	
3	Commercial Regulator, Inlet-: 6 bar , Outlet- :500 mbar, Flow-: 50 m3/hr	20.00				-		-	-	-	
4	Commercial Regulator, Inlet-: 6 bar , Outlet- : 1 to 2 bar, Flow-: 25 m3/hr.	10.00				-		-		-	
5	Commercial Regulator, Inlet-: 6 bar , Outlet- : 1 to 2 bar, Flow-: 50 m3/hr.	8.00				-		-	-	-	
6	Commercial Regulator, Inlet-: 6 bar, Outlet- : 1 to 2 bar, Flow-: 100 m3/hr.	4.00				-		-	-	-	
									Total (Group D)	-	
								Grand	I Total (A+B+C+D)	-	
Notes -:											
1	Bidder to quote prices for all items in each column (i.e. Unit & Total price)			e and terms and conditior	is of Tender	aocument.					
2	Quoted prices shall be inclusive of all other testing & inspection charges as	-	-	have and start in the	tal ak-m	Duncha 1 1	at ba !!-!			this too doo	
3	Prices quoted at column 8 are all inclusive of applicable taxes, duties, freig	nt, transit insu	rance, unioading, Third Party Inspection C	narges and other inciden	uai charges.	rurcnaser shall n	iot de liable fo	or any extra payn	nent against the scope defined in	I UNS TENDER.	
4	Bidder to note that once quoted, no price change shall be allowed.										
5	Bidder shall quote prices in the given format of Schedule of Rates and shal										
6	FOT stands for Free on Terminal delivery inclusive of packing, forwarding, handling, loading/unloading, freight and insurance up to Owner's site inclusive of all applicable taxes & duties.										



ENERGISING QUALITY	SCHEDULE OF RATES FOR SUPPLY OF NATURAL GAS REGULATOR IN NORTH GOA GA TENDER NO. GNGPL/C&P/T-30 TENDER ID: VCS2100005										Gon Natural Gas Pyt.Ltd. A Joint Venture of GAIL Gas Ltd & BPCL	
NAME OF BIDDER:-												
SI No.	Description as per MR	Quantity	materials but excluding Inland Transportation to Delivery Location) Delivery location and or IGS) on the finished other costs goods excluding inland transportation (i.e. on cl. incidental to delivery (i.e. on cl.		GST (CGST&SGST/UTGST or IGST) on inland ransportation (i.e. on cl. no. 5)		Total FOT site price incl. all taxes & duties & inland transportaion	Harmonized System Nomenclature (HSN)				
		(Nos.)	(INR)	(INR)	%	(INR)	%	(INR)	(INR)	(INR)		
(1)	(2)	(3)	(4)	(5)	(6A)	(6B)	(7A)	(7B)	(8)= (4)+(5)+(6B)+ (7B)	(9)= (8) X (3)	(10)	
7	In case of discrepancy between unit price and total, the unit price shall prevail.											
8	Bidder to clearly indicate 'Quoted' / 'Not Quoted' against each Sr. No. in the price column in the un-priced Schedule of Rates and submit the same in Un-priced part of the bid. Bidders to submit Price part of above Schedule of Rates in their Priced Bid.											
9	Bidder to quote full quantities of quoted items of quoted group . Item quoted with part quantities shall be liable for rejection.											
Place:	ace:								Authorized signatory of Bidder:			
Date:	Date:								Seal of Bidder:			