

REPLY TO BIDDER'S QUERIES-II							Bid Document No.: CUGL/C&P/TEN2324/39 dated 12.07.2023 (E-Tender No. 55336)	
Bid Document for the Procurement of 5000 SCMH, Twin Stream Canopied DRS with USM for Kanpur, Bareilly and Jhansi							CUGL Response	
Sr. No.	Tender Clause No. / Annexures	Page No.	Subject	Bidder's Queries/ Observation/Comments				
1	Approved vendor list	112 of 162	Cartridge filter	Kindly advise Rockwin make filters for this project. We are a U-stamp facility & supplying DRS and MRS with our own make filters to other CGDs. Till date we have supplied to IOAGPL, Adani Total Gas, HPCL, Haryana City Gas, Avantika Gas, IGL etc. Detailed PTR enclosed.			For approval of vendors, other than provided list in Tender, would be subject to acceptance of PTR, post placement of PO.	
2	Approved vendor list	116 of 133	Instrument Valves & Manifolds	Kindly accept comfit make SS fittings, manifolds, valves for this project.			For approval of vendors, other than provided list in Tender, would be subject to acceptance of PTR, post placement of PO.	
3	Approved vendor list	113 of 133	Ball Valve	In ball valves approved vendor list there are limited Indian makes supplier so kindly accept GM Engineering make ball valves for this project.			For approval of vendors, other than provided list in Tender, would be subject to acceptance of PTR, post placement of PO.	
4	Technical Specification			We understand that only USM is required with DRS and no other type of flow meter is acceptable. Kindly confirm.			USM is required	
5				We understand that power supply is available at site to power up USM and separate solar panel arrangement is not required with DRS. Kindly clarify.			EVC, AMR and USM shall be battery operated with minimum battery life of 5 years.	
6				Kindly provide P&ID to understand that exact requirement.			Attached	
7	Technical Specification	108 of 133		We understand that maximum permitted velocity throughout the skid is 20 m/s because as per USM datasheet it is mentioned ≤ 30 m/s. Kindly clarify.			Gas velocity in main line pipe, equipment, flow meter, main line valves, check valve etc must not exceed 20 meters/second, (except SSV and PCV), when the maximum flow rate occurs at the lowest expected inlet pressure. Velocity limit for SSV shall be 40 m/s.	
8				Please advise line size before and after PCV.			Sizing to be done by OEM and have to accommodate in the skid, as per the Process Parameters: 1. I/L Pressure - 10 - 26 Bar 2. O/L Pressure - 4 Bar 3. Max. Flow - 5000 SCMH 4. Piping Class: i. I/L to Regulator - 300# ii. Regulator to O/L - 150#	
9	Technical Specification			We understand that bidder has to supply EVC with modem facility and further procurement of SIM and other facility shall be in CUGL's scope. Kindly confirm.			Bidder's understanding is correct.	
10				Kindly provide list and quantity of spares to be considered in bill price.			Refer Scope of Supply, Point No. 18 (n & o) n. Bidder to supply necessary spares for operation and maintenance for one year. o. List of mandatory spares for operation and maintenance to be provided by bidder along with filter element.	

Handwritten signature and date: 12/07/2023

Stamp: CENTRAL U.P. GAS LIMITED, KANPUR

				Bid Document for the Procurement of 5000 SCMH, Twin Stream Canopied DRS with USM for Kanpur, Bareilly and Jhansi		Bid Document No.: CUGL/C&P/TEN2324/39 dated 12.07.2023 (E-Tender No. 55336)	
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11				Kindly extend the bid due date by 10 Days.		Refer Corrigendum-1	
12	BEC	54 of 133		It is requested to kindly amend BEC Criteria as below: Bidder should have successfully designed, developed, installed and commissioned at least 6 nos. of Twin Stream District Regulatory Stations (DRS)/ Metering skids of 5000 SCMH in any of City Gas Distribution company in India in any of last seven years reckoned from the bid due date. We have supplied number of metering skids in various CGDs across the country, some of our executed projects are attached in pdf. Rockwin is very well qualified for the required scope of work. In order us to bid, kindly amend BEC Criteria as mentioned above.		Tender Conditions Prevails	
13	Tech. Specification	101 of 133, clause no. 16a	USM calibration	As per tender documents, USM Meter shall be Air Calibrated but In pre-bid replies USM meter required with Wet Calibration . Please note that that O.E.M generally supply 150# USM Meter with Air/Dry calibration. Kindly accepted Air calibration for USM Meter.		Dry Calibration needed	
14	Tech. Specification	-	Ball valve Data Sheet	Kindly Provide Ball Valve Data sheet for 150# & 800# with Material requisition.		Attached	
15		-	For Extension	Please extend bid due date up to 12.08.2023.		Refer Corrigendum-1	
16	SCHEDULE OF RATES (SOR)		a) Mandatory Spares b) Mandatory spares of 1 Set only shall be required to supply.	1. Noted. 2. List of mandatory spares for operation and maintenance as below, a) Regulator & SSV Spares b) Filter element Please confirm the same along with quantities.		Mandatory Spares are not to be provided by the bidder, only a list is to be shared having necessary quantities of mandatory spares that CUGL should maintain in stock for O&M Purpose.	
17	TECHNICAL SPECIFICATION		AMR (Automatic Meter Reading)	We understand that we would only offer EVC with a GSM modem and that further integration between EVC and the CUGL Portal will be in the client's scope. In case it is in bidder's scope we request CUGL to give the detailed scope of specification for AMR along with data hosting at CUGL server/ web page. Kindly furnish data.		Suitable AMR is to be installed along with necessary integration of AMR and EVC. CUGL shall use its own SIM for data collection. Data hosting would be in scope of bidder for the warranty period.	
18							
19	TECHNICAL SPECIFICATION		AMR (Automatic Meter Reading) - data hosting	Additionally, we understand that data hosting to CUGL server's / web based is limited till the warranty period of the skid. Kindly confirm			
20	TECHNICAL SPECIFICATION		USM Meter - calibration	We understand that DRS does not all for Custody transfer application, hence, we request CUGL to accept air calibration instead of calibration done with NG. The USM meter will be air-calibrated at the facility/USM metre supplier plant, and OEM will validate the USM meter accuracy in accordance with the tender requirements. Additionally, a USM meter that is air calibrated was recently installed in the CUGL project by a SICK supplier. We get that a USM meter with an air calibration is suitable. kindly confirm.		Dry Calibration needed.	


 03/08/23


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Sr. No.	Tender Clause No. / Annexures	Page No.	Subject	Bidder's Queries/ Observation/Comments
21	General		Power supply provision	If AMR will be battery operated, we understand that solar system will be required. Please confirm the same.
22	P&ID		CRV & PSV	PSV and CRV are specified in P&ID at the PRS outlet, we understand, PSV is not necessary after PRS of the system and CRV sufficient to release the gas. For DRS systems, CRV will be recommended at the outlet of PRS, kindly confirm the same.
23	P&ID		Provision for PT	PT provision is specified in P&ID. Please clarify whether the provision with isolation ball valve is the only need or if a pressure transmitter is also necessary. Please confirm.
24	Corrigendum-1		Tender Due date: Clause no. 8 of IFB: BID due date with time - 05.08.2023 up to 15:00 hrs.	We request CUGL to extend the tender for up to 10 working days from the date of technical query clarification as the technical query has not yet been resolved.
25	Clause - Payment Terms, pg. no. 117 of 133		95% payment shall be released within 30 days from the date of receipt of materials at site. 5% payment shall be released after commissioning of equipment or one year from the date of receipt of materials whichever is earlier.	As per tender terms, Balance 5% payment calls for holding up of payment till 12 months from GRV date against respective site location, however, there is no timeline given once skid is commissioned. In view of the same, we request CUGL to accept payment terms as: 95% payment shall be released within 30 days from the date of receipt of materials at site. 5% payment shall be released within 45 days after commissioning of equipment/ supply of materials at site whichever is earlier.
26	Clause - Payment Terms, pg. no. 117 of 133		12 (Twelve) weeks from the date of award	We request CUGL to consider extending delivery timelines which is in line to market conditions which mainly occurred due to demand supply gap mainly for field instruments / EVC/ barriers. This is due to the fact that all mentioned products require chips to work. Hence, we request CUGL to accept delivery timelines as 24-26 weeks from date of PO. Similar timelines have been accepted by other CGD's for their DRS requirements.

Bidder are required to submit the "REPLY TO BIDDER'S QUERIES" alongwith the bid duly signed & stamped.

Subhanshu
23/08/2023

(Signature)
23/08/23

CENTRAL U.P. GAS LIMITED
KANPUR

DATA SHEET CHECK VALVE - 150#

CHECK VALVE

Valve type	Dual Plate Check Valve- Wafer Type	
Valve Standard	API-6D	
Pressure Class	150#	
Size Range	1" & Above	
Design Pressure	19 Barg	
Service	Natural Gas	
End Connections:	Wafer Type Comfortable With ASME B 16.5 Flanges Raised Face (Serration - 125-250 AARH)	
Construction		Material
Body	Cast	ASTM A 216 Gr. WCB
Seat (metal to metal)		13% CR Overlay
Door /Plate		ASTM A217 GR.CA 15
Spring		SS 316
Hinge /Stop Pin		SS 410
Valve Design		Hinge with Dual Plate
Shut Off class		IV
Type of Valve Operation		Dual Plate - Wafer Type
Support & Lifting Device		As Per Manufacture Design
Hydrostatic Test Pressure	Body	As per API 598
	Seat	As per API 598
Pneumatic Test Pressure		As per API 598
Painting		Manufacturer's standard paint
Marking		MSS SP-25
Inspection & Testing		As per API 598 / BS 6755 - 1

Note:-

- 1) Vendor shall furnish dimensional detail, material list & QAP

DATA SHEET DIFF. PRESSURE GAUGE

UNITS: Flow>Liquid m3/hr Gas-Sm3/hr Steam-Kg/hr Pressure> Kg/cm2G Temperature>Deg.C Level / Length-m m

1. Type	: Direct	Flushing/Filling Conn. With	
2. Dial Size	: 100 mm	15. Over - Range Protection	: 130% of Design Static
3. Dial	: White, non-glaring, non-rusting aluminium with black figures	16. Blow Out Protection	: To be provided
Pointer	: Black Aluminium	17. Options	
4. Case Material	: Die Cast Aluminium	a). Syphon	: NA
5. Bezel ring	: Bayonet / Screwed Type	b). Gauge saver	: NA
6. Window material	: Toughened Glass	c). Liquid filling Casing	: NA
7. Enclosure	: Weather proof, IP 65	d.) Vacuum Protection	: NA
8. Sensing Element Material	: SS 316	e). Solid front design	: NA
9. Socket Material	: SS 316	f). Snubber - SS 304	: NA
10. Accuracy	: ±2% of FSD	g). Pre- fabricated	: NA
11. Zero Adjustment	: Internal micrometer adjustment	weather protection housing	
12. Connection	: 1/4" NPT (M)	h). SS tag plate	: To be Provided
13. Movement	: SS 304	i). Mounting	:
14. Diaphragm seal	: N.A	(j). Sensing element	: Piston
Type		(k). Connection Location	: Back (Side - Side)
Wetted Parts Material		MAKE	GIC
Other's Material			
Process Connection			
Size and Rating			
Facing & Finish			
Capillary Material			
Armour - Flexible Material			
Capillary Length			

TAG NO	RANGE BAR	Pressure Bar		Temperature (°C)		FLUID	QTY	Option
		Operating	Design	Operating	Design			
	0 - 1	10 TO 26	30	5 - 50	65	Natural Gas		---

NOTES:-

- Gauge shall be provided with internal test & calibration certificate, Guarantee certificates.
- Material conformity / Compliances certificates for wetted & Compliances for Enclosure protection document provided.

PRESSURE GAUGEDATA SHEET

UNITS: Flow>Liquid m3/hr Gas-Sm3/hr Steam-Kg/hr Pressure> Kg/cm2G Temperature> Deg.C Level / Length-mm

1..Type	: Direct, Local	Armour-Flexiable Material
2. Dial Size	: 100mm	Capillary Length
DIAL	: White, non-glaring,non-rusting aluminium with black figures	Flushing/Filling Conn. With
Pointer	: Black Aluminium	15. Over - Range Protection : Yes, 130% of FSD
3. Case Material	: SS 304	16. Blow Out Protection : Yes
4. Bezel ring	: Bayonet / Screwed Type	17. Options
5. Window material	: SHATTER - PROOF GLASS	a). Syphon : NA
6. Enclosure	: Weather proof, IP 65	b). Gauge saver : NA
7. Sensing Element	: 'C' Type BOURDON TUBE	c). Liquid filling Casing : NA
8. Sensing Element Material	: SS 316	d.) Vacuum Protection : NA
9. Socket Material	: SS 316	e). Solid front design : NA
10. Accuracy	: ±1% of FSD	f). Snubber - SS 304 : NA
11. Zero Adjustment	: Provided (Micrometer Pointer)	g). Pre- fabricated : NA
12. Connection	: 1/2" NPT (M) Bottom Entry	weather protection
13. Movement	: SS 304	h). SS tag plate : To be Provided
14. Diaphragm seal	: N.A	i). Mounting : Pipe Mounted
Type		(j). Connection Location : Bottom
Wetted Parts Material		18. Area Classification : Hazardous
Other's Material		19. Applicable Standard : EN - 837 for Dial marking & Accuracy
Process Connection		20. Make : GIC
Size and Rating		
Facing & Finish		
Capillary Material		

TAG NO	RANGE BAR	Pressure Bar		Temperature (°C)		FLUID	QTY	Option
		Operating	Design	Operating	Design			
	0 - 45	10 TO 26	30	5 - 50	65	Natural Gas		---
	0 - 10	04	10	5 - 50	65	Natural Gas		---

NOTES :-

- Gauge shall be provided with internal test & calibration certificate, Guarantee certificates.
- Material conformity / Compliances certificates for wetted & Compliances for Enclosure protection document provided.

BALL VALVE DATA SHEET (FULL BORE, SOFT SEATED)

RATING : 800#
 SIZE RANGE : 1/2" TO 1.5"
 DESIGN PRESSURE : 49 BARG
 DESIGN TEMPERATURE : 65 °C
 SERVICE : NATURAL GAS

CONSTRUCTIONAL FEATURES OF BALL VALVE

APPLICABLE STD.	BS - 5351 FOR DESIGN, API 6FA/ API 607 FOR FIRE SAFE TESTING, API 598 FOR PRESSURE TESTING, INSPECTION & TESTING AS PER BS EN 12266-1
ENDS	NPTF / SOCKET WELDED WITH 100MM LONG SCH 80 PIPE ,ANSI B16.11
NO. OF PIECES	TWO / THREE PIECE CONSTRUCTION / BOLTED
FLOATING BALL	REQUIRED ,BI-DIRECTIONAL, FULL BORE
OPERATION	LEVER OPERATING WITH PVC COATED
ANTI STATIC DEVEICS	REQUIRED
AUTOMATIC CAVITY RELIEF	NOT REQUIRED
SHUT OFF CLASS	VI
BALL POSITION INDICATOR (OPEN/CLOSED)	REQUIRED
ANTI BLOW OUT STEM	REQUIRED
MECHANICAL STOP	FULL OPEN & CLOSE INDICATOR

SL.NO	CONSTRUCTIONAL FEATURES		
	DESCRIPTION	CONSTRUCTION	BASIC MATERIAL CASTING
1	Body	Forging	SA 105
2	Stem	Anti Blowout	SS 410
3	Ball	Solid	SS 410
4	Body Seat		Grafite / PTFE
5	Stem Seal	Renawable	Grafite / PTFE
6	Body Seal		Grafite / PTFE
7	Body Stud & nut		A193 Gr B7 & A194 Gr 2H
8	Glands	Bolted. / Retained by nut & washer	SS 304
	Others		
9	Requirement of radiography		Not Required
10	Spring		SS 410
	Testing		
11	Hydrostatic test pressure	Body - AS PER BS EN 12266-1 / API 6D / API 598	
12	Test pressure with air	Seat - AS PER BS EN 12266-1 / API 6D / API 598	

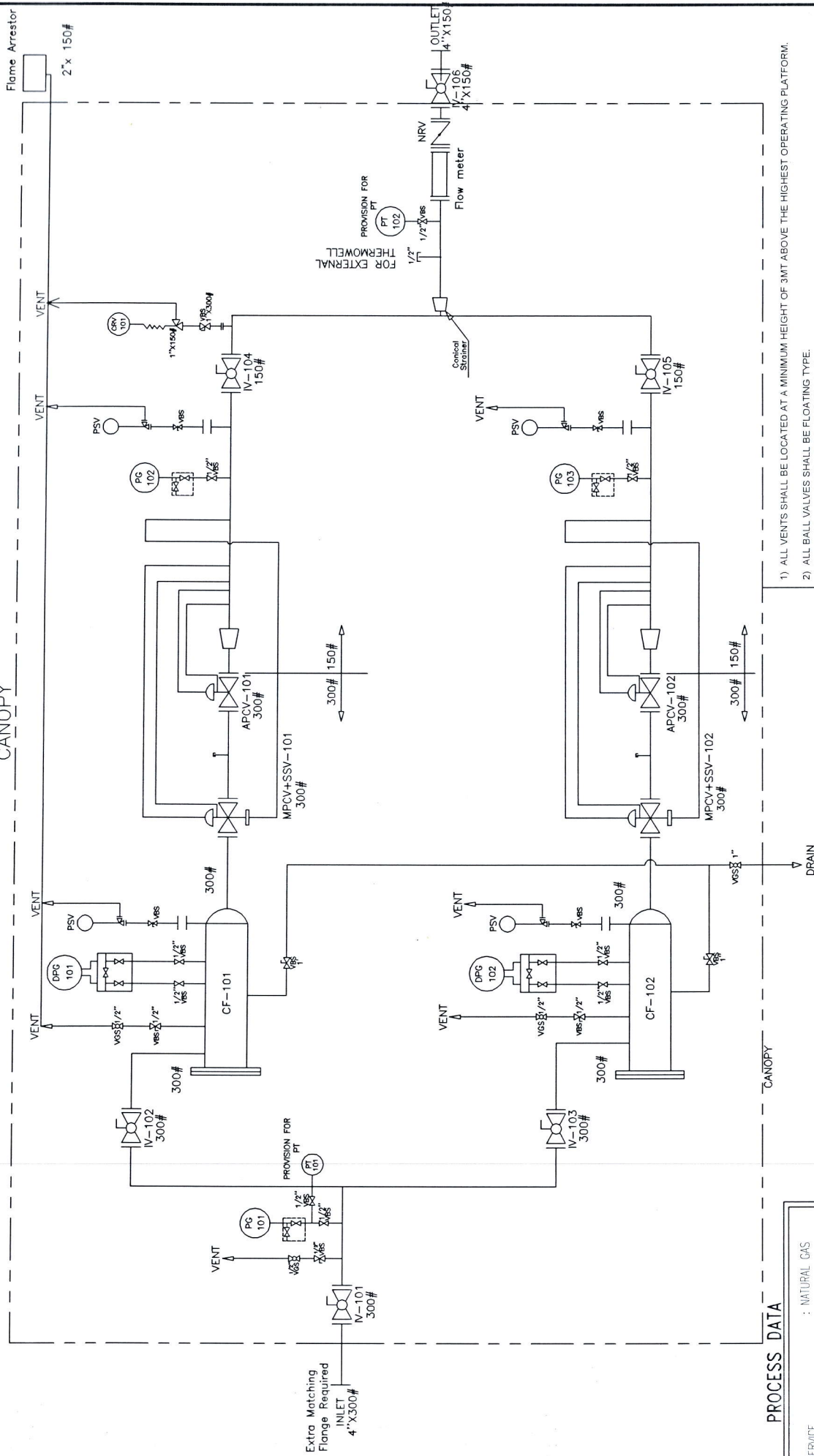
NOTES

- 1 ALL BALL VALVES SHALL BE BIDIRECTIONAL.
- 2 VALVE MARKING SHALL BE AS PER MSS-SP-25

DATA SHEET GLOBE VALVE - 800#

GLOBE VALVE		
Valve type	Globe Valve	
Valve Standard	BS-1873	
Pressure Class	ANSI B16.34 Class 800#	
Size Range	1.5" & BELOW	
End Connections:	SW	
Design Pressure	49 Barg	
Service	Natural Gas	
Construction		Material
Body	Forged	ASTM A 105
Bonnet	Bolted	ASTM A 105
Stem	Rising	13% Cr Steel/ SS 410
Disc	Loose Plug Type	13% Cr Steel/ ASTM S479.Gr 410
Body Seat Ring	Renewable Seat	SS 410
Stem Packing		Graphite / Grafoil
Hand Wheel	Rising	C.S/M.S/AS PER MANUF. DESIGN
Bonnet Bolts		ASTM A 193 Gr, B7
Bonnet Nuts		ASTM A 194 Gr, 2H
Bonnet Gasket		SP Wnd SS316 -Grafoil
Special Service Condition		---
Back Seat & Shoulder	Renewable	Required
Others	O.S & Y	Required
Hydrostatic Test Pressure	Body	As per API 598
	Seat	As per API 598
Pneumatic Test Pressure		As per API 598
Painting		Manufacturer's standard paint
Marking		MSS SP-25
Inspection & Testing		As per API 598 / BS 6755 - 1

CANOPY



PROCESS DATA

SERVICE	: NATURAL GAS
INLET PRESSURE OF SKID	: 10 To 26 Barg
OUTLET PRESSURE OF SKID	: 4 Barg
FLOW RATE	: 5000 SCMH
INLET SIZE OF SKID	: 4\"X300#
OUTLET SIZE OF SKID	: 4\"X150#
INLET TEMPERATURE	: 0 C TO 50 C

- 1) ALL VENTS SHALL BE LOCATED AT A MINIMUM HEIGHT OF 3MT ABOVE THE HIGHEST OPERATING PLATFORM.
- 2) ALL BALL VALVES SHALL BE FLOATING TYPE.
- 3) PSV SHALL BE DESIGNED FOR FIRE CASE.
- 4) CARTRIDGE ELEMENTS SHALL BE SUITABLE FOR DRY GAS.
- 5) EACH VENT LINE SHALL BE PROVIDED WITH A BALL VALVE & GLOBE VALVE.
- 6) DRS SHALL BE CABINET MOUNTED TYPE.
- 7) VENT HEADER SHALL BE PREFERABLY INSIDE THE CABINET AND VENT LINE SHALL BE PROPERLY SUPPORTED.



CENTRAL U. P. GAS LIMITED.(Kanpur)

TITLE : P&ID FOR NATURAL GAS DISTRICT REGULATING STATION (5000 SCMH)

BALL VALVE DATA SHEET (REDUCE BORE, SOFT SEATED)

RATING : 150#
 SIZE RANGE : 2" & ABOVE
 DESIGN PRESSURE : 49 BARG
 DESIGN TEMPERATURE : 65 °C
 SERVICE : NATURAL GAS

CONSTRUCTIONAL FEATURES OF BALL VALVE

APPLICABLE STD.	BS - 5351/ API 6D FOR DESIGN, API 6FA/ API 607 FOR FIRE SAFE TESTING, API 598 FOR PRESSURE TESTING, INSPECTION & TESTING AS PER BS EN 12266-1
ENDS	FLANGED ENDED RAISED FACE (SERRATION 125-250 AARH)
DIMENSIONAL STD.	ASME B 16.5 FOR FLANGED VALVES
NO. OF PIECES	TWO PIECE CONSTRUCTION / BOLTED, BI-DIRECTIONAL, FULL BORE
FLOATING BALL	REQUIRED
OPERATION	LEVER OPERATING
ANTI STATIC DEVEICS	REQUIRED
AUTOMATIC CAVITY RELIEF	NOT REQUIRED
SHUT OFF CLASS	VI
BALL POSITION INDICATOR (OPEN/CLOSED)	REQUIRED
ANTI BLOW OUT STEM	REQUIRED
MECHANICAL STOP	FULL OPEN & CLOSE INDICATOR

SL.NO.	CONSTRUCTIONAL FEATURES		
	DESCRIPTION	CONSTRUCTION	BASIC MATERIAL CASTING
1	Body	Cast	A216 Gr WCB
2	Stem	Anti Blowout	ASTM A 479 GR. 304
3	Ball	Solid	CA15-SS410
4	Body Seat		PTFE / GRAFOIL / GRAPHITE
5	Stem Seal	Renawable	GRAFOIL / PTFE
6	Body Seal		GRAFOIL / PTFE
7	Body Stud & nut	With Zinc Coated	A193 Gr B7 & A194 Gr 2H
8	Glands	Bolted. Retained by nut & washer	SS 304
	Others		
9	Requirement of radiography		Not Required
10	Spring		SS 410
	Testing		
11	Hydrostatic test pressure	Body - AS PER BS EN 12266-1 / API 6D / API 598	
12	Test pressure with air	Seat - AS PER BS EN 12266-1 / API 6D / API 598	

NOTES

- 1 ALL BALL VALVES SHALL BE BIDIRECTIONAL.
- 2 VALVE MARKING SHALL BE AS PER MSS-SP-25