

CORRIGENDUM-1

e-Tender No. AGL/Head Office/Contract and Purchase/22/25-26/ET/22 [METERING SKIDS] Dated 25.02.2026

PROCUREMENT OF METERING SKIDS

Sr no.	Clause no.	Page No.	Description	Bidder's Query	AGL Reply
1	4.0 Delivery period	12 of 115	Delivery period from date of each delivery order : 8 weeks	We request AGL to please provide 12 weeks from the date of PO	Tender Condition Prevail
2	6.0 EMD	2 of 115	Bidders registered with NSIC/MSME under its single point registration scheme are exempted from furnishing Bid Security. NSIC / MSME certificate (updated & valid as on due date of submission to be submitted) shall be duly attested by CHARTERED ACCOUNTANT (CA) AND NOTARY PUBLIC WITH LEGIBLE STAMP.	Please Confirm Bidder's registered with NSIC/ MSME certificate are exempted from submission of EMD.Please Confirm if Bidders is Trader / distributor / authorised service partner registered under MSME/NSIC also exempted from submission of EMD.Please Confirm	Please refer Section I of IFB clause 6 of Tender Documents
3	15	43 of 115	Cartridge Gas Filter shall be installed at the upstream of the RPD meter as per the specified drawing. Cartridge Gas filter should have 5 micron filtration capacity with borosilicate fiber glass element, manual drain arrangement and Differential Pressure Gauge (DPG) mounted on it. The Filters to be installed shall be in accordance with ASME Section-8, Boiler & Pressure vessel code	Please provide Maximum Flow for the 2" , 3" and 4" skid so will help us to design and select filter	Please follow the below-mentioned criteria for filter design and selection: 2" Skid: Meter size up to G65 3" Skid: Meter sizes G100 and G160 4" Skid: Meter sizes G250 and G400 Maximum operating pressure: 5.5 bar
4	17	13 of 115	Skid should be enclosed in a Box type Structure having vertical structural steel support with base frame along with 16 gauge (2 mm) thickness canopy with locking arrangement of door	Please clarify we have to consider 16 Gauge or 2 mm as both are different requirements	Please consider the Minimum thickness as 2 mm
5	List of Vendors for Bought out items for Metering Skids	49 of 115	Ball Valve / Isolation (Ball/Needle) Valve:	We request Aavantika Gas Limited to kindly approve Nilon Valves & Shiv Shakti valves we can provide PTR for the same	In addition to approved vendor list, if valve and filter is to be procured from some other party, then approval is to be taken from EIC on submission of requisite documents such as, previous track record of supply of subject material to reputed Hydrocarbon company (GAIL/HPCL/BPCL/IOCL/PSU-JV/CGD etc)
6	Datasheet	51 of 115	Datasheet of Filters	We understand that datasheets are for reference only design of filter is in vendor scope as per ASME standards , Kindly confirm	Accepted
7	Bill of Material	59 of 115	Bill of Material	We understand that RPD Meter, NRV , Conical Strainer and RO are free issue material , Kindly Confirm	Yes, the bidder's understanding is correct.
8	Bill of Material	59 of 115	Bill of Material	Please confirm we have to follow P&ID for Ball valve qty as qty mention are BOM is not match with P&ID	Please refer to the P&ID for the ball valve and all other material quantities
9	QAP	55 of 115	3.2 Certification Required	We request AGL to kindly accept 3.1 certification for all material as 3.2 will affect delivery time and cost of the skid , Kindly Confirm	3.1 Certificate is accepted for bought-out items. However, TPI will review all material test certificates and witness the final hydrotesting and FAT, including the installation of all equipment except free-issue materials, as per the final approved QAP. The bidder shall obtain approval of the detailed QAP prior to the commencement of production.
10	General			We understand that we have to provide only meter spool in skid supply scope Installation is in AGL Scope , Kindly Confirm	Yes, the bidder's understanding is correct. The spool for the meter and NRV has to be provided by the bidder. However, if there is any specific requirement, AGL will arrange to provide the meter to the bidder's warehouse
11	Datasheet	-	Cartridge Gas Filter	We understand for 2" IMS , Compact size Gas Filter can be considered. Kindly Confirm	A compact size gas filter can be considered; however, it must comply with ASME Section VIII & Other given specification
12	Commerical 18.0	13	Single/Dual Filtration Skid with or without By-Pass, ANSI150# (Minimum Size – 2" & Minimum Rating – 150#)	We understand that bidder shall have supplied the metering skids having minimum size of 2"X150# flowmeters for required number of qty. Please confirm	No, the bidder's understanding is incorrect. The minimum piping size required for skid fabrication is 2"

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Sr no.	Clause no.	Page No.	Description	Bidder's Query	AGL Reply
13	Approved Vendor List	49	Dry gas Filter	Request to accept the GFS and GASTECH Make cartidge filters. We have attached PTR for your ready reference.	In addition to approved vendor list, if valve and filter is to be procured from some other party, then approval is to be taken from EIC on submission of requisite documents such as, previous track record of supply of subject material to reputed Hydrocarbon company (GAIL/HPCL/BPCL/IOCL/PSU-JV/CGD etc)
14	Approved Vendor List	49	Ball Valve / Isolation (Ball/Needle) Valve	Request to accept the SSE Make Ball Valves. Same is approved in Major CGDs like Gail, Gujarat Gas, IGL, MGL etc and EPC like Mecon, Tractabel, VCS, Resonance etc. We have attached PTR for your ready reference.	In addition to approved vendor list, if valve and filter is to be procured from some other party, then approval is to be taken from EIC on submission of requisite documents such as, previous track record of supply of subject material to reputed Hydrocarbon company (GAIL/HPCL/BPCL/IOCL/PSU-JV/CGD etc)
15	Approved Vendor List	50	Pressure Guage and DPG	Request to accept the Precision Mass Make Guages. Same is approved in Major CGDs.	Accepted
16	Technical		Canopy	Kindly confirm canopy is required or not.	Yes, the installation of a canopy is required, Please refer for Tender Documents
17	Technical		Filter & Filter Element Make	We are approved in all CGD & supplying i.e approved in BPCL, IOAGPL, MNGL, Gail, Gail gas, NECGD, Torrent Gas, Megha all other CGD company etc. However, we request you to kindly accept our make filter. Filter PTR Enclosed	In addition to approved vendor list, if valve and filter is to be procured from some other party, then approval is to be taken from EIC on submission of requisite documents such as, previous track record of supply of subject material to reputed Hydrocarbon company (GAIL/HPCL/BPCL/IOCL/PSU-JV/CGD etc)
18	Technical		Tube Fittings make- Arya Engg	As per Vendor list of Tube fittings Swagelok/ Parker. Kindly note due to this supply it will increases delivery lead time & also impact project cost. Kindly accept Arya Engg Make for tube fittings also approved in all CGD's.	Tender Condition Prevail
19	Technical		In BOM Vendor list	As per BOM in vendor column is mention repute make, we understand we can go with other reputed supplier other make as mention vendor list. Please confirm.	Wherever an approved vendor list is mentioned, the bidder shall follow it
20	Technical		Filter datasheet – 300#	In filter datasheet, rating is mention 300#. As per process parameter max 6 barg, we can go with 150# rating. Kindly provide us acceptances	Please consider the 150# also
21	Technical		RPD meter installation scope	RPD meter is in M/S AGL scope, kindly confirm RPD meter shall be install by M/s AGL. We have to supply with spool. Kindly confirm.	Refer reply given in Point 10
22	Technical		Approval Request for Filter Make	We request your approval for R S Instrumentation and Services make Filter for the subject tender/work. Please find attached the PTR (Pre-Qualification / Technical Review document) for your kind review and approval.	Refer reply given in Point 17
23	4.0 Delivery period	12 of 115	Delivery period from date of each delivery order : 8 weeks	We request you to kindly consider a minimum delivery period of 12 weeks from the date of issuance of each Purchase Order (PO). Most bought-out items have a lead time of 8–10 weeks, and an additional 2–4 weeks are required for assembly, testing, inspection, and final delivery.	Tender Condition Prevail
24	Technical		Clarification Required – QAP Valve Testing Witness	With reference to the tender, we request you to kindly confirm whether valve testing as per QAP shall be witnessed by the client / TPI agency.	As per approved QAP Clauses, TPI will reveir or witness in consultation with Client/OEM
25	Technical		Clarification Required – Sizing as per P&ID	With reference to the tender documents, we request you to kindly confirm whether the equipment sizing shall be strictly as per the provided P&ID.	Equipment sizing shall be strictly in accordance with the P&ID.
26	Technical		Clarification on Free Issue Material (FIM)	Kindly confirm the list of Free Issue Materials (FIM) as per the applicable Bill of Materials (BOM) Please confirm the mode of issuance of FIM — whether the same shall be collected by the bidder from AGL store or will be delivered to the bidder's premises	RPD meter, NRV, conical strainer, and RO are considered free-issue materials. The bidder shall provide the spool for the meter and NRV. However, if a specific requirement arises, AGL will arrange to deliver the meter to the bidder's warehouse

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Sr no.	Clause no.	Page No.	Description	Bidder's Query	AGL Reply
27	Technical		Clarification Required – Scope of TPI	kindly confirm whether Third Party Inspection (TPI) is in the scope of the bidder or the client. If TPI is in the bidder's scope, we request you to kindly provide the approved list of TPI agencies applicable for this project.	Third Party Inspection shall be in the bidder's scope. All PNGRB-approved TPIAs may be referred to for this purpose
28	Technical	49 of 115	Filter - AVL	Kindly approve rockwin make filters for this project, we are U-stamped facility & a approved supplier of GAIL and are regularly supplying filters for GAIL Project, HPCL, ADANI etc. We have supplied MRS to Avantika Gas with our own make filter. PTR enclosed.	Refer reply given in Point 17
29	Technical	59 of 115	Bill Of Material : RPD & EVC, NRV, RO, Conical strainer	We understand that RPD,EVC ,conical strainer, restricted orifice, NRV shall be a free issue by customer. Kindly confirm.	Yes, the bidder's understanding is correct.
30	Technical		Tender P&ID	We understand that bidder has to follow the MRS line size as mentioned in tender P&ID. Kindly confirm.	Yes, the bidder's understanding is correct. The bidder shall follow the line sizes as per the attached annexures. Example: 2" Skid: Pipeline size is 2" 3" Skid: Pipeline size is 3" 4" Skid: Pipeline size is 4"
31	Technical	49 of 115	Ball Valve - AVL	We request to approved GM Engineering make ball valves for this project. GM is a approved vendor of GAIL, HPCL, ADANI etc. We are regularly supplying GM make ball valves to GAIL in our skids.	Please follow the approved vendor list mentioned in tender
32	Technical		SS fittings - AVL	We request you to approve comfit make SS fittings. Comfit is a approved vendor in all the CGDs.	Tender Condition Prevail
33	Technical	42 of 115	Process parameters	Kindly confirm the process parameters e.g. flowrate , operating pressure for filter sizing. in P&ID operating pressure is different from value given on Pg. 42.	Please follow the below-mentioned criteria for filter design and selection: 2" Skid: Meter size up to G65 3" Skid: Meter sizes G100 and G160 4" Skid: Meter sizes G250 and G400 Maximum operating pressure: 5.5 bar
34	Technical		Delivery period	We request to increase the delivery period to 16 weeks.	Tender Condition Prevail
35	Section IV Technical Specification	49	Dry Gas Filter	kindly Consider CPL make filter as well. We have provided CPL make filter to BPCL in the latest PRS skid. We have provided to other private customers as well.	Refer reply given in Point 17
36	Section IV Technical Specification	41	Skid Rated Flowrate	As per this clause , we need to refer SOR for flowrate. But flowrate of each skid is not mentioned in the SOR . Kindly specify the flowrate.	Refer reply given in Point 33
37	Section IV Technical Specification	41 & 45	2 & Pipe fitting work last point	In Scope of supply on page 41 in point 2 , it is mentioned that the companion flanges shall be in AGL scope whereas on page 44 , it is mentioned that inlet and outlet flanges to be provided by bidder. Kindly clarify the scope	The bidder shall provide the required flanges
38	Section IV Technical Specification	56-61	BOM & PID	In Bill of Materials Ball valves Qty mentioned is 2/4 whereas per PID Ball valves qty is different. Kindly clarify	Please refer the P&ID
39	Section IV Technical Specification	59-61 & 43	BOM & 19	As per BOM, NRV shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed with NRV . Kindly clarify the scope whether NRV is free issue supply.	Refer reply given in Point 26
40	Section IV Technical Specification	59-61 & 43	BOM & 19	As per BOM, Conical strainer shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with strainer . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26

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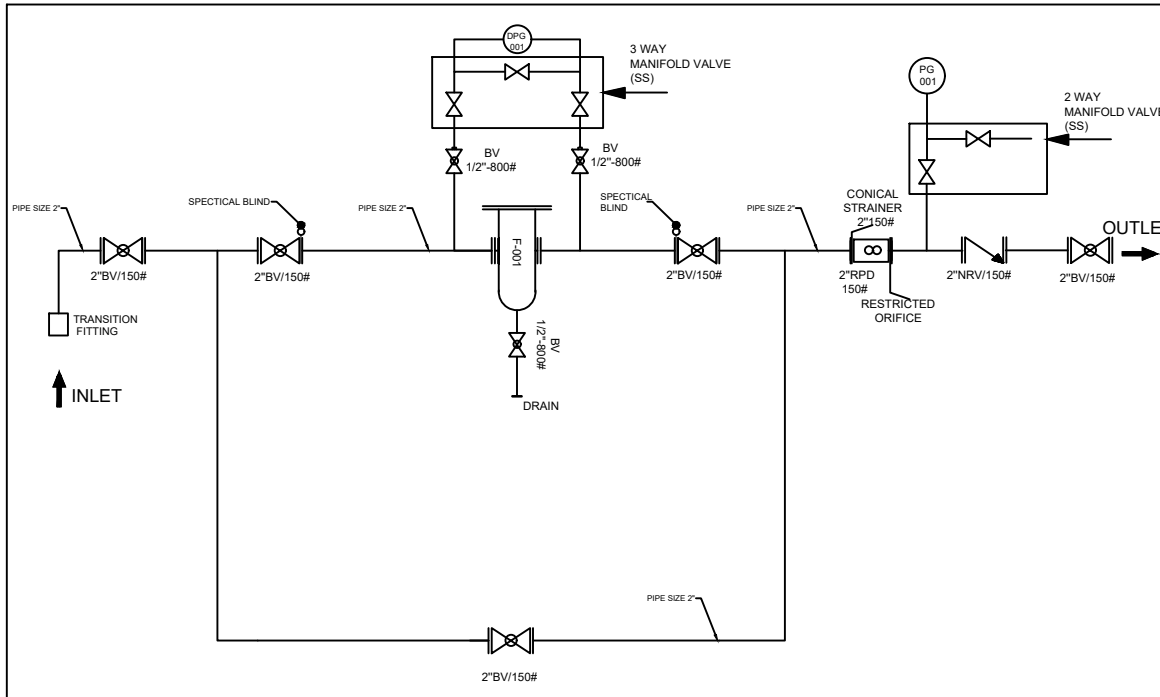
Sr no.	Clause no.	Page No.	Description	Bidder's Query	AGL Reply
41	Section IV Technical Specification	59-61 & 43	BOM & 19	As per BOM, RPD Meter shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with RPD Meter . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26
42	Section IV Technical Specification	59-61 & 43	BOM & 19	As per BOM, Restriction orifice shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with Orifice . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26
43	Section IV Technical Specification	59-61 & 49	BOM & 49	As per BOM, Ball valves makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Bidder has to follow the approved vendor list or PTC
44	Section IV Technical Specification	59-61 & 49	BOM & 49	As per BOM, Filter makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Refer reply given in Point 17
45	Section IV Technical Specification	59-61 & 49	BOM & 49	As per BOM, Transition fitting makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Approved Vender list or PTC
46	Section IV Technical Specification	59-61 & 49	BOM & 49	As per BOM, Piping fitting makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Approved Vender list or PTC
47	Section IV Technical Specification	51 & 52	Filter Datsheet	Since the skid operating pressure is low i.e 5.5 Barg and Design pressure is 7 Barg . Whereas cartridge filter datasheet attached is of 300 # rating . Whereas skid rating is 150 # and 150 # rating filter would suffice the purpose. Also flange size mentioned for 3" skid is 8 "and also drain , vent connection mention in 4 " skid is 10" which may be incorrect . Kindly clarify	Please note that the cartridge filter rating is 150#
48	Section IV Technical Specification			For 2"x150# skid , Filter datasheet is not available in the tender . Kindly issue the same.	Please refer to the attached datasheet. Kindly note that the attached datasheet is for reference only; the bidder must obtain approval prior to the commencement of production.
49	General			We understand that transportation,insurance and handling expenses from AGL Dhanuka store to respective site will be in Avantika Scope	Yes, the bidder's understanding is correct. Transportation from the AGL Dhanuka store to the AGL site is within AGL's scope
50	Section III	39	PBG	Since we are in Micro category under MSE . We request you to kindly consider only 5 % PBG instead of 10%	Tender Condition Prevail
51	Section IV Technical Specification	49	Dry Gas Filter	kindly Consider CPL make filter as well. We have provided CPL make filter to BPCL in the lastest PRS skid. We have provided to other private customers as well.	Refer reply given in Point 17
52	Section IV Technical Specification	41	Skid Rated Flowrate	As per this clause , we need to refer SOR for flowrate. But flowrate of each skid is not mentioned in the SOR . Kindly specify the flowrate.	Refer reply given in Point 33
53	Scope of Supply & Pipe work	41 & 45	2 & Pipe fitting work last point	In Scope of supply on page 41 in point 2 , it is mentioned that the companion flanges shall be in AGL scope whereas on page 44 , it is mentioned that inlet and outlet flanges to be provided by bidder. Kindly clarify the scope	The bidder shall provide the required flanges
54	Bill of Materials and PID	56-61	BOM & PID	In Bill of Materials Ball valves Qty mentioned is 2/4 whereas per PID Ball valves qty is different. Kindly clarify	Please refer the P&ID
55	Bill of Materials & Technical Requirement	59-61 & 43	BOM & 19	As per BOM, NRV shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed with NRV . Kindly clarify the scope whether NRV is free issue supply.	Refer reply given in Point 26

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Sr no.	Clause no.	Page No.	Description	Bidder's Query	AGL Reply
56	Bill of Materials & Technical Requirement	59-61 & 43	BOM & 19	As per BOM, Conical strainer shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with strainer . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26
57	Bill of Materials & Technical Requirement	59-61 & 43	BOM & 19	As per BOM, RPD Meter shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with RPD Meter . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26
58	Bill of Materials & Technical Requirement	59-61 & 43	BOM & 19	As per BOM, Restriction orifice shall be free issue by AGL whereas as per clause 19 of page 43 Metering skid shall be duly installed along with Orifice . Kindly clarify the scope whether Conical is free issue supply.	Refer reply given in Point 26
59	Bill of Materials & List of Bought out	59-61 & 49	BOM & 49	As per BOM, Ball valves makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Bidder has to follow the approved vendor list for valves
60	Bill of Materials & List of Bought out	59-61 & 49	BOM & 49	As per BOM, Filter makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Refer reply given in Point 17
61	Bill of Materials & List of Bought out	59-61 & 49	BOM & 49	As per BOM, Transition fitting makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Refer reply given in Point 43
62	Bill of Materials & List of Bought out	59-61 & 49	BOM & 49	As per BOM, Piping fitting makes are mentioned as "Reputed" whereas in List of Vendors on page 49 some approved vendors are mentioned. Kindly clarify whether we have to follow Vendors list on page 49 or we can recommend from our side.	Refer reply given in Point 43
63	Datasheet for Cartridge filter	51 & 52	Filter Datsheet	Since the skid operating pressure is low i.e 5.5 Barg and Design pressure is 7 Barg . Whereas cartridge filter datasheet attached is of 300 # rating . Whereas skid rating is 150 # and 150 # rating filter would suffice the purpose. Also flange size mentioned for 3" skid is 8 "and also drain , vent connection mention in 4 " skid is 10" which may be incorrect . Kindly clarify	Please note that the cartridge filter rating is 150#
64	Datasheet for Cartridge filter		Filter Datsheet	For 2"x150# skid , Filter datasheet is not available in the tender . Kindly issue the same.	Please refer to the attached datasheet. Kindly note that the attached datasheet is for reference only; the bidder must obtain approval prior to the commencement of production.
65	Transportation			We understand that transportation, insurance and handling expenses from AGL Dhanuka store to respective site will be in Avantika Scope	Yes, the bidder's understanding is correct. Transportation from the AGL Dhanuka store to the AGL site is within AGL's scope
66	PBG	39	PBG	Since we are in Micro category under MSE . We request you to kindly consider only 5 % PBG instead of 10%	Tender Condition Prevail



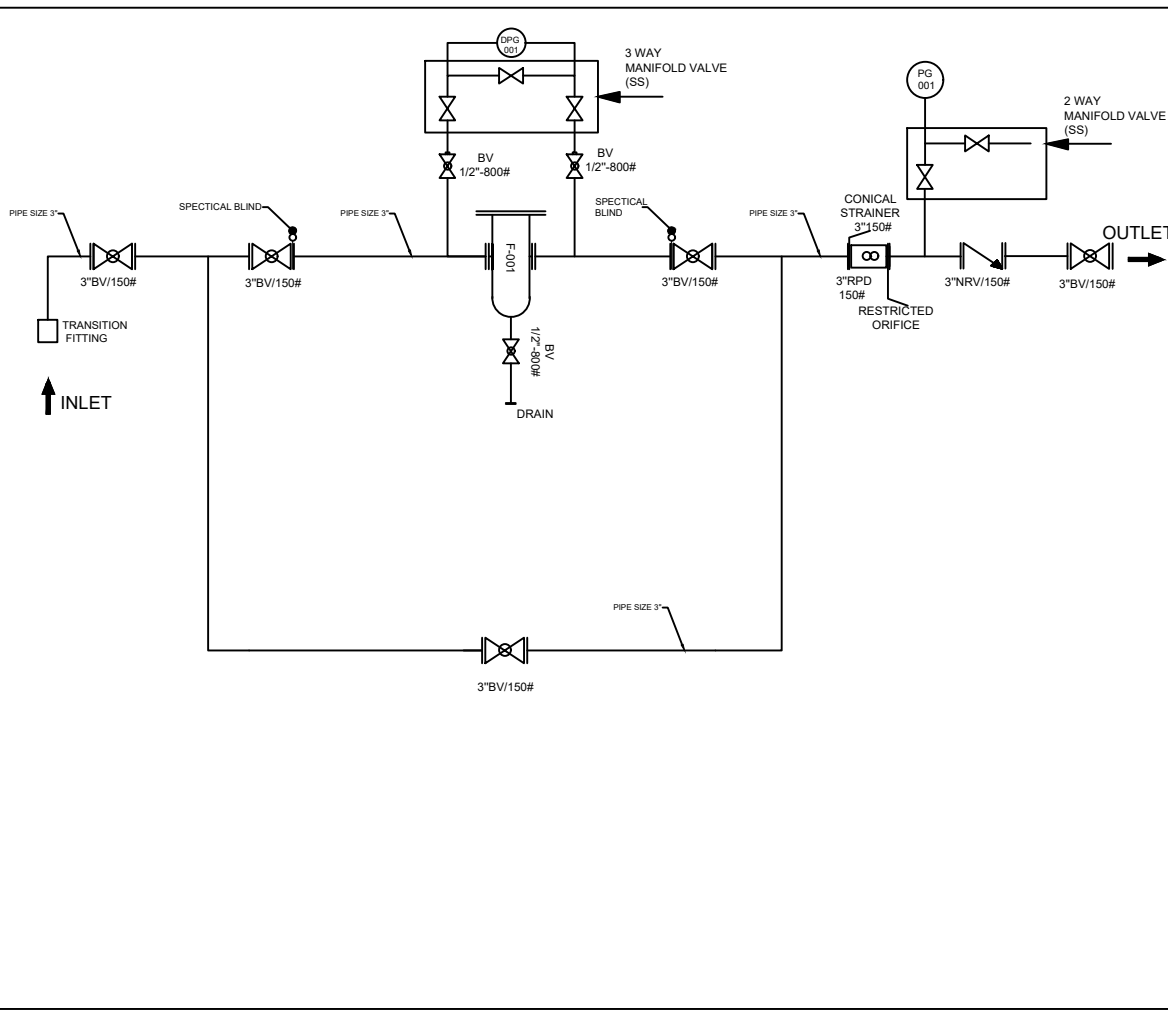
PROCESS DATA		
SERVICE	NATURAL GAS	
METER RATING	G10-G65	
INLET PRESSURE	1 TO 5.5 Bar g	
OUTLET PRESSURE	1 TO 5.5 Bar g	
DESIGN PRESSURE	19 Bar g	
WORKING TEMPERATURE	0 to 50 °C	
DESIGN TEMPERATURE	0 to 65 °C	

LEGEND	DESCRIPTION	QTY.
	BALL VALVE (FE)-2" 150#	05
	TRANSITION FITTING	01
	CHECK VALVE (NRV)	FREE ISSUE
	RPD METER WITH EVC INCLUDING CONICAL STRAINER ORIFICE PLATE	FREE ISSUE
	PRESSURE GAUGE	01
	DIFFERENTIAL PRESSURE GAUGE	01
	FILTER (5 MICRON)	01
	SPECTACLE BLIND	02
	SPIRAL WOUND GASKET SS316	-
	2" WNRF 150#	-
	2 WAY MANIFOLD SS	01
	BALL VALVE (BV)-1/2" 800#	03
	3 WAY MANIFOLD SS	01

NOTE :-

- ALL FLANGE JOINT HAS SPIRAL WOUND GASKET (SS316) 150# AND ADDITIONALLY 2 NOS OF SPIRAL WOUND GASKET REQUIRED WITH EACH SKID
- ALL FLANGES ARE WNRF TYPE.

M/s AAVANTIKA GAS LIMITED		
TYPICAL DRAWING FOR PIPE LINE CONSTRUCTION		
PROJECT NAME: TYPICAL DRAWING METERING SKID		
TITL: P&ID FOR METERING SKID 2" FILTER WITH BY PASS		
SCALE	SHEET	DRAWING NO.
NTS	1 OF 1	REV 02



PROCESS DATA	
SERVICE	NATURAL GAS
METER RATING	G100-G160
INLET PRESSURE	1 TO 5.5 Bar g
OUTLET PRESSURE	1 TO 5.5 Bar g
DESIGN PRESSURE	19 Bar g
WORKING TEMPERATURE	0 to 50 °C
DESIGN TEMPERATURE	0 to 65 °C

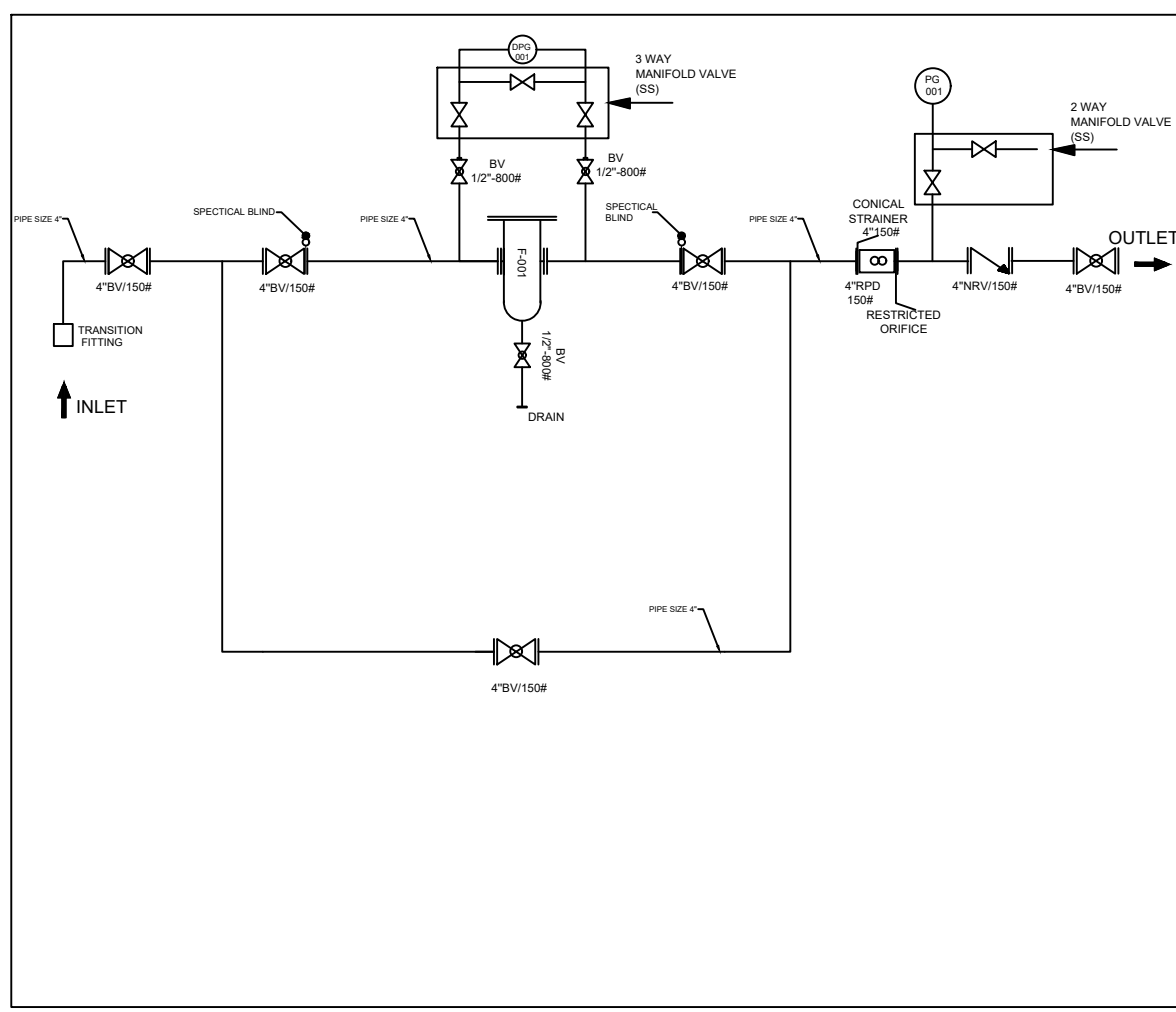
LEGEND	DESCRIPTION	QTY.
	BALL VALVE (FE)-3" 150#	05
	TRANSITION FITTING	01
	CHECK VALVE (NRV)	FREE ISSUE
	RPD METER WITH EVC INCLUDING CONICAL STRAINER ORIFICE PLATE	FREE ISSUE
	PRESSURE GAUGE	01
	DIFFERENTIAL PRESSURE GAUGE	01
	FILTER (5 MICRON)	01
	SPECTACLE BLIND	02
	SPIRAL WOUND GASKET SS316	-
	3" WNRF 150#	-
	2 WAY MANIFOLD SS	01
	BALL VALVE (BV)-1/2" 800#	03
	3 WAY MANIFOLD SS	01

NOTE :-

- ALL FLANGE JOINT HAS SPIRAL WOUND GASKET (SS316) 150# AND ADDITIONALLY 2 NO'S OF SPIRAL WOUND GASKET REQUIRED WITH EACH SKID
- ALL FLANGES ARE WNRF TYPE.

M/s AAVANTIKA GAS LIMITED		
TYPICAL DRAWING FOR PIPE LINE CONSTRUCTION		
PROJECT NAME: TYPICAL DRAWING METERING SKID		
TITL: P&ID FOR METERING SKID 3" FILTER WITH BY PASS		
SCALE	SHEET	DRAWING NO.
NTS	1 OF 1	

REV 00



PROCESS DATA	
SERVICE	NATURAL GAS
METER RATING	G250-G400
INLET PRESSURE	0 TO 5.5 Bar g
OUTLET PRESSURE	0 TO 5.5 Bar g
DESIGN PRESSURE	19 Bar g
WORKING TEMPERATURE	0 to 50 °C
DESIGN TEMPERATURE	0 to 65 °C

LEGEND	DESCRIPTION	QTY.
	BALL VALVE (FE)-4" 150#	05
	TRANSITION FITTING	01
	CHECK VALVE (NRV)	FREE ISSUE
	RPD METER WITH EVC INCLUDING CONICAL STRAINER ORIFICE PLATE	FREE ISSUE
	PRESSURE GAUGE	01
	DIFFERENTIAL PRESSURE GAUGE	01
	FILTER (5 MICRON)	01
	SPECTACLE BLIND	02
	SPIRAL WOUND GASKET SS316	-
	4" WNRF 150#	-
	2 WAY MANIFOLD SS	01
	BALL VALVE (BV)-1/2" 800#	03
	3 WAY MANIFOLD SS	01

NOTE :-

- ALL FLANGE JOINT HAS SPIRAL WOUND GASKET (SS316) 150# AND ADDITIONALLY 2 NO'S OF SPIRAL WOUND GASKET REQUIRED WITH EACH SKID
- ALL FLANGES ARE WNRF TYPE.

TYPICAL DRAWING FOR PIPE LINE CONSTRUCTION		
PROJECT NAME: TYPICAL DRAWING METERING SKID		
TOTAL: P&ID FOR METERING SKID 4" FILTER WITH BY PASS		
SCALE	SHEET	DRAWING NO.
NTS	1 OF 1	REV 01

Dry Gas Cartridge Filter – Data Sheet - 2"

1. General Information

Sr No	Parameter	Specification
1	Equipment	Dry Gas Cartridge Filter
2	Service	Natural Gas
3	Line Size	2 inch
4	Pressure Class	ANSI 150#
5	Filter Type	Replaceable Cartridge Type
6	Installation	Vertical/Horizontal
7	Design Code	ASME Sec VIII / ASME B31.3/ Any Other applicable relevant Standard

2. Design Conditions

Sr No	Parameter	Value
1	Design Pressure	19 bar (approx. 285 psi)
2	Operating Pressure	1-5.5 Bar
3	Design Temperature	Vendor to Specify
4	Operating Temperature	Up to 50°C
5	Hydrostatic Test Pressure	1.5 × Design Pressure

3. Process Information

Sr No	Parameter	Typical Value
1	Gas Type	Natural Gas
2	Meter Size	up to G65
3	Filtration Rating/Capacity	≤5 micron
4	Allowable Pressure Drop	0.1 – 0.5 bar
5	Corrosion Allowance	3.00 mm

4. Mechanical Construction

Sr No	Parameter	Specification
1	Body Material	Carbon Steel ASTM A106 / A216 WCB
3	Cover Type	Quick Opening / Bolted
4	Gasket Material	SS304 / SS316 Spiral Wound Gasket
5	Internal Surface	Shot Blasted / Painted
6	External Coating	Epoxy Paint

5. Cartridge Details

Sr No	Parameter	Specification
1	Cartridge Type	Gas Filter Cartridge
2	Cartridge Material	Borosilicate Glass Fiber/ Microfiber Glass/Fiber Glass
3	No. of Cartridges	1
4	Filtration Efficiency	98% (minimum)

6. Nozzle Connections

Sr No	Connection	Size
1	Gas Inlet	2" - ANSI 150#
2	Gas Outlet	2" - ANSI 150#
3	Drain	1/2" NPT
4	Vent	1/2" NPT

Dry Gas Cartridge Filter – Data Sheet - 3"

1. General Information		
Sr No	Parameter	Specification
1	Equipment	Dry Gas Cartridge Filter
2	Service	Natural Gas
3	Line Size	3 inch
4	Pressure Class	ANSI 150#
5	Filter Type	Replaceable Cartridge Type
6	Installation	Vertical/Horizontal
7	Design Code	ASME Sec VIII / ASME B31.3/ Any Other applicable relevant Standard
2. Design Conditions		
Sr No	Parameter	Value
1	Design Pressure	19 bar (approx. 285 psi)
2	Operating Pressure	1-5.5 Bar
3	Design Temperature	Vendor to Specify
4	Operating Temperature	Up to 50°C
5	Hydrostatic Test Pressure	1.5 × Design Pressure
3. Process Information		
Sr No	Parameter	Typical Value
1	Gas Type	Natural Gas
2	Meter Size	G100 & G160
3	Filtration Rating/Capacity	≤5 micron
4	Allowable Pressure Drop	0.1 – 0.5 bar
5	Corrosion Allowance	3.00 mm
4. Mechanical Construction		
Sr No	Parameter	Specification
1	Body Material	Carbon Steel ASTM A106 / A216 WCB
3	Cover Type	Quick Opening / Bolted
4	Gasket Material	SS304 / SS316 Spiral Wound Gasket
5	Internal Surface	Shot Blasted / Painted
6	External Coating	Epoxy Paint
5. Cartridge Details		
Sr No	Parameter	Specification
1	Cartridge Type	Gas Filter Cartridge
2	Cartridge Material	Borosilicate Glass Fiber/ Microfiber Glass/Fiber Glass
3	No. of Cartridges	1
4	Filtration Efficiency	98% (minimum)
6. Nozzle Connections		
Sr No	Connection	Size
1	Gas Inlet	3" - ANSI 150#
2	Gas Outlet	3" - ANSI 150#
3	Drain	1/2" NPT
4	Vent	1/2" NPT

Dry Gas Cartridge Filter – Data Sheet

1. General Information

Sr No	Parameter	Specification
1	Equipment	Dry Gas Cartridge Filter
2	Service	Natural Gas
3	Line Size	4 inch
4	Pressure Class	ANSI 150#
5	Filter Type	Replaceable Cartridge Type
6	Installation	Vertical/Horizontal
7	Design Code	ASME Sec VIII / ASME B31.3/ Any Other applicable relevant Standard

2. Design Conditions

Sr No	Parameter	Value
1	Design Pressure	19 bar (approx. 285 psi)
2	Operating Pressure	1-5.5 Bar
3	Design Temperature	Vendor to Specify
4	Operating Temperature	Up to 50°C
5	Hydrostatic Test Pressure	1.5 × Design Pressure

3. Process Information

Sr No	Parameter	Typical Value
1	Gas Type	Natural Gas
2	Meter Size	G250 & G400
3	Filtration Rating/Capacity	≤5 micron
4	Allowable Pressure Drop	0.1 – 0.5 bar
5	Corrosion Allowance	3.00 mm

4. Mechanical Construction

Sr No	Parameter	Specification
1	Body Material	Carbon Steel ASTM A106 / A216 WCB
3	Cover Type	Quick Opening / Bolted
4	Gasket Material	SS304 / SS316 Spiral Wound Gasket
5	Internal Surface	Shot Blasted / Painted
6	External Coating	Epoxy Paint

5. Cartridge Details

Sr No	Parameter	Specification
1	Cartridge Type	Gas Filter Cartridge
2	Cartridge Material	Borosilicate Glass Fiber/ Microfiber Glass/Fiber Glass
3	No. of Cartridges	1
4	Filtration Efficiency	98% (minimum)

6. Nozzle Connections

Sr No	Connection	Size
1	Gas Inlet	4" - ANSI 150#
2	Gas Outlet	4" - ANSI 150#
3	Drain	1/2" NPT
4	Vent	1/2" NPT