



REPLY TO BIDDER'S PRE-BID QUERIES

RATE CONTRACT FOR SUPPLY, INSTALLATION, COMMISSIONING AND AMC FOR 5 YEARS OF FIELD REGULATING STATIONS (FRS)

VCS Ref No. VCS/NOIDA/C&P/13823/11-R0

Owner -Indraprastha Gas Ltd.
 Consultant - VCS Quality Services Pvt Ltd.
 Pre-bid meeting held on 18.08.2017
 Date: 28.08.2017

TENDER NO: IGL/ND/C&P/EP14502

Sl. No.	Vol. No.	Tender Page No.	Clause No /Description	Bidder's Query/Clarification	IGL/VCS Reply
Commercial					
1	I	57 of 87	Clause No. 13.0 of SCC : Terms of Payment	Please confirm payment terms as 90% within 30 days of receipt of material and documents by IGL and 10% against commissioning of FRS. In case commissioning is not done within 2 month from the date of receipt of material at IGL Stores/Site, 10% payment shall be released against relevant Invoice.	Tender Condition shall prevail
2	I	7 of 87	Clause No. 4.1 of IFB: Delivery Period	As most of the components like Meter and Regulator, delivery is 12 to 14 weeks weeks, we request to accept the delivery period of 16 to 18 weeks.	Tender Condition shall prevail
3	I	58 of 87	Clause No. 20.0 of SCC : PRICE REDUCTION SCHEDULE	Pl. confirm the PRS clause will be applicable on undelivered items only.	Tender Condition shall prevail
4	I	65 of 87	Clause E and I of SCC: E) Penalty Schedule: I) Break down penalty	These are too heavy penalties and you are requested to review and relax on amount indicated.	Tender Condition shall prevail
5	I		SOR	There is confusion in SOR for AMC Services : Unit Column Says: Per FRS per Month Qty says : 48 /168 nos. Pl clarify the above , and provide a revised SOR.	Refer Note of SOR which states that "Note: Qty. in Col.4 as mentioned in AMC Services indicates multiplication of 12 months and qty. of FRS units." For Example: Qty. for Sr. No. A.1 (FRS, Flow Capacity - 9000 SCMh) is 4 nos. Therefore, Qty. for 1st year AMC will be 12 x 4=48 nos. Similarly Qty. for Sr. No. A.2 is 14 x 12=168 nos.
Technical					
1	II	258 to 272	Attachment B Approved Vendor List	We understand that additional vendors based on the PTR are also acceptable as many reputed vendors are missing form the list provided. Please confirm.	Any Vendor(s) apart from mentioned in the list are acceptable subject to approval by Owner/Owner representative based on past track record. Also, for the Vendor of items not covered in the list, but required for supply, Bidder to take approval from Owner/Owner representative for the same.
2	II	10 to 11	Clause. A of MR Erection and Commissioning	We understand that only supervision of Erection is in the scope of bidder and not the Erection..	Bidder understanding is correct.
3	II	-	Certification	we understand that 3.1 Certification is required for FRS. Please confirm.	EN 10204 Type 3.1 certification is required.
4	II	93	Clause. 6.0 Solar Power System rating	Please recheck and confirm the rating required as 1 KW rating mentioned is on higher side.	Solar power rating shall be 200 Watts (90W+10% efficiency=100W + 100% redundancy for future expansion). However, Bidder to finalize power rating based on actual requirements during detail engineering.
5	II	32	Clause. 6.19 Automatic Set point adjustment	Pl. confirm the automatic set point adjustment system required or not ?	Required.Tender Condition shall prevail.
6	II	32	Clause. 7.1 Filtration System - In to Out	Normally all the dry gas filters are out to in type. Pl. accept out to IN type filter elements.	Confirmed. Please refer Clause 2, GTS for FRS, Page no. 100/272.



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7	II	257	Flow computer	Pl. confirm single flow computer will be utilized for two stream of RPD meter.	Confirmed. Tender Condition shall prevail.
8	II	43	Clause. 19.2.17 Velocity	Pl. accept 20 M/s for unfiltered ga and 30 M/S for filtered gas as per PNGRB requirement.	Tender Condition shall prevail.
9	II	220	RPD Flow Meter Data sheet - table -1	pl. confirm the Flange to Flange distance mentioned is indicative only. EN 12480 accept different F to F distance and most widely used for G400 is 271 mm. Pl. accept. OR we can provide the spacer to meet the requirement of 450 mm , pl. accept.	Confirmed. Tender Condition shall prevail.
10	II	220	RPD meter Data sheet material of construction	Pl. confirm ductile iron as per PNGRB Is not acceptable as body material.	Bidder to note that RPD meter MOC shall be Aluminium or equivalent as mentioned in RPD datasheet, Page no-220/272.
11	II	215	PSV Data sheet material of construction	Pl. accept WCB in place of A351CF8M , most CGD including GAIL using the same.	Tender Condition shall prevail.
12	II	-	Inspection requirement	Pl. confirm inspection requirement is as per EN 10204 3.1	EN 10204 Type 3.1 certification is required.
13	II	-	MATERIAL CERTIFICATES	We understand that all mechanical pressurised parts required in skid package shall be EN 10204 - 3.1 certified. Kindly confirm, our understanding is correct.	EN 10204 Type 3.1 certification is required.
14	II	34 OF 272	Clause 7.8 Canopy: The thickness shall be minimum 16 SWG (1.6 mm) SS-304 Material.	Canopy shall be constructed with MS sheets with the minimum gauge thickness of 16. This will help to reduce cost of skid. Kindly confirm.	Tender Condition shall prevail.
15	II	215 OF 272	Point: 19 Pressure safety valve Datasheet, Body and Bonnet MOC: A351 CF8M	With respect to PMS, all pipe, fitting, flanges, isolation valves have MOC as CS. Kindly accept body MOC as A216 Gr. WCB for Body & bonnet MOC for Pressure safety valve.	Tender Condition shall prevail.
16	II	217 OF 272	Point: 4 Pressure gauge - Case material - cast aluminium	Please note that SS304 is standard available case material for PG. Case is unwetted part, but aluminium cases are obsolete. Kindly accept.	Tender Condition shall prevail.
17	II	217 OF 272	Point: 5 Pressure gauge - Bezel ring: screwed type	Bayonet type bezel ring of pressure gauge will be provided. Kindly accept.	Confirmed.
18	II	244 OF 272	End Connection : BW for ball valve of size 2" & above -A/G	Kindly accept Flanged end connection for ball valve sizes 2" & above. This is standard manufacturing range for all valve manufactures.	Confirmed. Bidder to refer Piping Specification, Page no. 194/272.
19	II	244,246 OF 272	Seat : TRUNNION MOUNTEDDOUBLE BLOCK AND BLEED for ball valve of size 2" & above -A/G	For 300# ball valve - TMBV for size 6" & above. for 150# ball valve- TMBV for size 8" & above.Kinldy confirm	All ball valves 2" and above shall be TMBV.
20	II	244,246 OF 272	Operation: Wrench below 4", Gear for 4" & above	For 300# valve Gear operated - size 6" & above. For 150# Gear operated - size 8" & above.Kinldy confirm	Shall be as per PMS.
21	II	244 OF 272	PUPS for BW end ball valve.	Kindly accept Flanged end valves for 2" & above for 150# & 300#, instead of butt welded valve. For butt welded valve it is very difficult to weld pipe due to soft seat material. At the time of welding due to high temperature soft seat may damage & it result will passing of ball valves. So kindly accept flanged end ball valve for sizes 2" & above insted of butt welding.	Refer Tech. Response to S.No.18 of this document.
22	II	--	Non Return valve datasheet	We have not found datasheet for non return valve shown at outlet of skid. Kindly provide the same.	Bidder to refer Piping Specification, Page no. 194/272.
23	II	256 & 257 OF 272	Isolation valve shown for Pressure guage. For pressure transmitter at inlet of skid & across meterign station, isolation valve not shown	We understand that, ½" isolation valve to be provided for Pressure guage as well as pressure transmitter for isolation purpose. Kindly confirm, our understanding is correct.	Bidder understanding is correct.



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24	II	256 & 257 OF 272	Creep relief valve shown at inlet of Filter	We recommend to install Pressure safety valve across filter instead of installing creep relief valve at inlet of filter. Kindly confirm.	Confirmed.
25	II	256 & 257 OF 272	--	We recommend to provide vent line with isolation ball valve across filter & after creep relief valve across pressure regulation station. Further vent line shall have combination of 1 no. of ball valve & 1 no. of globe valve as per note-4 of P&ID. Kindly confirm, our understanding is correct.	Bidder understanding is correct. Bidder to note that P&ID provided in tender document is typical.
26	II	256 & 257 OF 272	Flame arrest with QOEC	We shall connect outlet line of creep relief valve & pressure safety valve on common vent header with flame arrestor at terminating point. Further vent line which shall be provided at across filter & at outlet of pressure regulation station shall be connected to common vent header with flame arrestor at terminating point. Flame arrestors shall be installed outside of canopy. QOEC shall not be required. Kindly accept.	Tender Condition shall prevail.
27	II	256 & 257 OF 272	Isolation valve with rupture disc shown on branch at outlet of skid outside canopy.	We recommend to install isolation valve without rupture disc inside canopy instead of outside the canopy. Further, outlet of this line shall be connected to vent line header provide for vent line provided across filter & outlet of PRS. Kindly accept.	Bidder to note that P&ID provided in tender document is typical.
28	II	256 & 257 OF 272	Inlet isolation valve shown at inlet of skid	Inlet skid isolation valve & skid outlet flange shall be outside the canopy. Kindly confirm, our understanding is correct.	Tender Condition shall prevail.
29	II	256 & 257 OF 272	Filter orientation	Filter orientation shall be horizontal type. Further filter shall be provided with devit arm only. Kindly confirm, our understanding is correct.	Bidder understanding is correct.
30	II	256 & 257 OF 272	Size of isolation ball valve size for PG, PT & Sensing line of PCV, SSV.	Kindly confirm valve size to be considered for isolation ball valve size for PG, PT & Sensing line of PCV, SSV.	Bidder to refer Clause no. 12.9 PTS for FRS, Page no. 37/272.
31	II	256 & 257 OF 272	Small Isolation valve end connection	Kindly accept 800# socket weld with 100 mm pups ball valve for sizes 1/2", 3/4", 1 1/2" .	Shall be as per PMS.
32	II	--	Filter datasheet CORE SS316	Kindly accept core material Carbon steel filter element. CS material is standard manufacturing for any filter element manufactures.	Tender Condition shall prevail.
33	II	194 & 200 OF 272	1/2" - 11/2"- 600# PMS- 1C1 & 3C1	Kindly accept 800# valve with 100 mm extention pups. This is standard manufacturing range for all valve manufactures.	Shall be as per PMS.
34	II	32 OF 272	Filtration shall be 'In to Out' type	As per P & ID filter orientation is horizontal. In horizontal case filter element shall be "OUT to IN ". Normally all element manufactures manufacture Element "OUT to IN" type only. Kindly accept OUT to IN type element.	Confirmed. Please refer Clause 2, GTS for FRS, Page no. 100/272.
35	II	210 of 272	Charpy test for Pressure regulation & Slam shut off valve	Kindly confirm charpy test shall be conducted only for Pressure regulating valves @ 0 deg cls. Kindly confirm	Bidder understanding is correct.
36	II	256 & 257 OF 272	NOTE-11 Vendor to freeze flange to flange distance across RPD flow meter as 450 mm in both streams.	We understand that RPD meter shall be in bidder scope. Further different RPD meters vendor may have different flange to flange distance. Thus note-11 shown in P&ID shall not be applicable. Kindly confirm our understanding is correct.	Flange to Flange distance mentioned is indicative only
37	II	256 & 257 OF 272	FLOW COMPUTER	We understand that, 2 nos. of RPD meter are to be connected to 1 no. of field mounted flow computer for per skid. Kindly confirm our understanding is correct.	Bidder understanding is correct.



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38	II	93 OF 272	SOLAR POWER SYTEM - 1KW, 1 no per skid	As per appendix 5, there is a requirement of backup of 30 no sun days. To cater this requirement, a solar panel of around 90W is sufficient alongwith a battery of 150AH to 200AH. This solar panel shall work on 12VDC and shall be certified for hazardous area. 1KW solar panel as given in specs having voltage levels of 48VDC are not certified for hazardous area installation. Please confirm that size of solar panel and battery shall be as per power consumption calculation for 30 no sun days.	Bidder to note that battery backup shall be for 72 hours. Refer Clause 9.9, PTS- Solar Power System, Page no. 94/272. Solar power rating shall be 200 Watts (90W+10% efficiency=100W + 100% redundancy for future expansion). However, Bidder to finalize power rating based on actual requirements during detail engineering.
39	II	Page 12 of 272	VOLUME – II OF II/4.0 INSPECTION Inspection shall be performed by a designated Third Party Inspection Agency and/or IGL/VCS delegate as set out and specified in the codes and particular documents forming this material requisition.	Please confirm scope of TPIA. Please confirm that TPI will be arranged by IGL and charges will be in IGL scope. If it is in bidder's scope please provide approved TPI list & clarify regarding charges.	Bidder to hire Third Party Inspection Agency (TPIA) for carrying out the inspection at Bidder's works as per approved ITP. TPIA charges shall be borne by Bidder. Approved TPIA are Lloyd Register/ TUV - NORD/ DNV/ ABS/ VINCOTTE/ BV.
40	II	Page 243 of 272 to Page 247 of 272	VOLUME – II OF II/BALL VALVES DS END CONNECTION-2"& above - BW & Below 2" - FLANGED (RF)	As per PMS End Connection for 2" & Above is Flanged End.Which is generally used for such application.Please confirm Below 2" - generally socket weld end connection with A105 MOC Valves used for such application.Please confirm the acceptance for the same.	Bidder to refer Piping Specification, Page no. 194/272.
41	II	Page 243 of 272 to Page 247 of 272	VOLUME – II OF II/BALL VALVES DS TRUNNION MOUNTED DOUBLE BLOCK AND BLEED-2"& above	Please confirm that TRUNNION MOUNTED valve shall be applicable as below: a) For 600#: 2" & above b) For 300#: Upto 4" Floating ball valves & above 4" Trunion mounted. c) For 150#: Upto 8" Floating ball valves & above 8" Trunion mounted.	Refer Tech. Response to S.No.19 of this document.
42	II	Page 248 of 272 to Page 250 of 272	VOLUME – II OF II/GLOBE VALVES DS Ball & Globe Valve end connections & Body material	As per the standard practice in all CGDs & earlier tender of IGL, please confirm acceptance for following. A) For below 2" Ball & Globe valve socket weld end connection and Body Material A105. B) For 2" and above Flanged end connection and Body material A216 Gr. WCB	Bidder to refer Piping Specification, Page no. 194/272.
43	II	Page 215 of 272	VOLUME – II OF II/PRESSURE SAFETY VALVE DS Body and Bonnet- A351 CF8M	Please allow & accept standard body material ASTM A 216 Gr. WCB. For A351 CF8m delivery period shall be much long (16 weeks and more).	Refer Tech. Response to S.No.15 of this document.
44	II	Page 259 of 272 to Page 272 of 272	VOLUME – II OF II/LIST OF APPROVED VENDORS Valve Make	Considering FRS delivery requirement of 13 weeks, you are requested to include Shayberg make for ball valves which is EIL approved.	Refer Tech. Response to S.No.1 of this document.
45	II		VOLUME – II OF II DPG/DPS for filters	We understand that diffrential pressuer switch will be used for filters instead of DPT.Please confirm our understanding is correct or not please clarify. Also datasheet for the same may please be provided.	Refer P&ID 256/272 of tender document.



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46	II		VOLUME – II OF II Filter make	Rockwin make-Filters in India. These are approved and supplied in bulk quantity at various CGDs. Hence, we request you to please include Rockwin name as approved vendor for supply of Filter.	Refer Tech. Response to S.No.1 of this document.
47	II		VOLUME – II OF II Flow Computer Data Sheet	Please confirm to following, # Calculation accuracy shall be better than +/- 0.05% of FS including linearity, hysteresis, repeatability. # Accuracy for analog inputs to be minimum 0.1% and for analog out puts accuracy shall be minimum 0.1%.	Bidder to refer Flow Computer Specification, Page no. 229-231/272.
48	II		VOLUME – II OF II Solar Power System	Solar power 1 KW is too over estimated. Request you to please review and confirm acceptance for 60 Watts solar panel.	Refer Tech. Response to S.No.4 of this document.
49	II	Page 33 of 272	VOLUME – II OF II/7.3 Metering System All the meters shall be dry air calibrated. The calibration facility shall be accredited by NABL standard or equivalent.	We understand that calibration certificate alone of master meter is not acceptable. The required RPD Meters has to be calibrated at accelerated NABL calibration (not for testing) Laboratory. Please confirm	Confirmed.
50	II	6.23	Companion flange with gasket, nut and bolts for the skid inlet shall be in the scope of vendor complying with tender specifications. All flange joints bolts & nuts shall be SS-304.	we understood that only companion flanges nut bolts shall be SS-304. else all other inside canopy flange nut bolts shall be of ASTM A 193 B 7, HEXAGONAL NUTS ASTM A194 GR 2H. As per PMS.	Bidder understanding is correct.
51	II	7.8	Vendor shall provide suitable weatherproof cabinet for the FRS Station. The thickness shall be minimum 16 SWG (1.6 mm) SS-304 Material. Structural for canopy shall be Mild Steel with Aluminum Epoxy Painted.	Skid canopy material shall be minimum 16 SWG (1.6 mm) thick CRCA sheet with Epoxy painted.	Tender Condition shall prevail.
52	II	Page 111 3.2	The metering stream (flow meter, flow straightner impulse tubing of Pressure transmitter, thermo- well) shall be completely insulated to ensure an even heat transfer throughout the meter run when subjected to ambient environment.	RPD meter do not require flow straightner, impulse tubing & upstream/downstream spools as per manufacturer's recommendation. Hence, insulation of metering steam don't require. Please confirm.	Confirmed.
53	II		PMS	Please accept SW ball/globe valves for below 2" with pup piece.	Refer Tech. Response to S.No.18 of this document.
54	II		Cartridge filters	Kindly accept Emerson (Fisher Filters) with Sunway make filter elements. As Emerson Already supplied FRS to IGL Before with Emerson make filters.	Refer Tech. Response to S.No.1 of this document.
55	II		Enclosures for Instruments	As skid is inside canopy so separate enclosure for instrument is not required.	Bidder understanding is correct.
56	II	Ball valve	As per datasheet of Ball valve 3.2 certification required and as per tender QAP of ball valve 3.1 certification required	We shall follow EN 10204 3.1 certification for ball valve as per tender QAP	EN 10204 Type 3.1 certification is required.
57	II	Paint coating DFT for ball & globe valve	As per datasheet of ball valve and globe valve final DFT required is 300 micron	We shall follow Painting DFT for all valves as per manufacturer painting standard (vendor approval list of tender for valves)	Tender Condition shall prevail.
58	II	Canopy	As per PI&D all skid shall be inside canopy and material spec of canopy mention in tender is SS-304 and thickness of sheet shall be 1.6mm(16SWG) and 5 % ventilation	we required conformation regarding the sheet material ie SS-304 with thickness 1.6mm	Tender Condition shall prevail.
59	II	Radiography for PCV & SSV	As per datasheet of PCV & SSV RT required and as per tender QAP RT not required	We shall follow as per tender QAP for PCV & SSV.	Please refer PCV & SSV datasheets for radiography test requirements.



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60	II	13823-CD-IC-SP-031 2.2.3 (Page 3 of 23)	Approval certificate from Chief Controller of Explosives (CCOE) is mandatory for all electronic/ electrical instruments/equipment to be installed in India, irrespective of country of origin.	1. Please take note certain import items (Solar Panel, SSV Limit Switches, etc) will come only with other certificates like ATEX/CSA/FM/etc. For those products CCOE certification might not be available as CCOE is applicable only for India. Please confirm your acceptance as the alternate certificates also complying with the hazardous area requirements and similar to CCOE. 2. Also as per our understanding, CCOE certification is applicable only for Ex equipment. Please confirm.	Tender Condition shall prevail.
61	II	13823-CD-IC-SP-031 6.7 (Page 6 of 23)	All tubing within the skid shall be SS316. However the supply of tube fittings shall be from single vendor throughout the skids	1. As per Pilot Operated Self Actuated Pressure Control Valves Data Sheet and Slam Shut Valve Data Sheet, SS304 tubing shall be used. Kindly confirm the material of tubing is SS304 or SS316. 2. Also confirm whether SS304 Tube Fittings are acceptable.	Tubing and tube fittings MOC shall be SS316.
62	II	13823-CD-IC-SP-031 6.11 (Page 6 of 23)	All the cables used for inter-skid cabling shall be IS (Intrinsic safe) type (Blue). Quad cable shall be used for connection between RTD and Temperature transmitter.	As per section 8 (Electrical Requirements) of this specification 13823-CD-IC-SP-031 , "the material will be installed in hazardous area zone 1 and classified as EExd IIA/IIB T3." Hence all the instruments shall be Non-IS type and the cables shall be of Non-IS cables (i.e Black or grey). Please confirm.	Tender Condition shall prevail.
63	II	13823-CD-IC-SP-031 6.14 (Page 6 of 23)	Contractor shall furnish material test certificate, Hydrostatic test certificate, certificates of radiography for all line mounted instruments on the skid, Certificates from statutory body for hazardous area approval for all electrical items mounted on the skid, Calibration certificates, certificates for the conformity to the standards to be submitted, and all other certificates mentioned in individual general specification	As per our understanding, all off-line instruments like PG, DPG, TG, PT, TT, etc shall be provided with certificate of conformity and calibration certificates only. Please confirm.	Confirmed.
64	II	13823-CD-IC-SP-031 6.17 (Page 7 of 23)	The relief valve should be installed and provided with test connections in the impulse pipe work in such a Way as to enable them to be set up and tested in-situ.	Kindly clarify this requirement.	Tender Condition shall prevail.
65	II	13823-CD-IC-SP-031 6.18 (Page 7 of 23)	All required accessories such as filter, regulator, lubricator, etc, if required, for safe and proper operation of SOV shall be in the scope of contractor. It is not shown in the P&ID.	Kindly advise what is "SOV" stands for.	Refer P&ID 256/272 of tender document.
66	II	13823-CD-IC-SP-031 7.2 (Page 8 of 23)	The material of construction shall be as specified in related PTS.	As per our understanding, we need to comply as per Data Sheet. Please confirm.	Confirmed.
67	II	13823-CD-IC-SP-031 7.2 (Page 8 of 23)	All the internals / wetted parts shall be SS316. All tubing & tube fittings within the skid shall be SS316.	1. As per Pilot Operated Self Actuated Pressure Control Valves Data Sheet and Slam Shut Valve Data Sheet, SS304 tubing shall be used. Kindly confirm the material of tubing and fitting is SS304 or SS316.	Refer Tech. Response to S.No.61 of this document.
68	II	13823-CD-IC-SP-031 12.7 (Page 11 of 23)	In hazardous areas, intrinsically safe instrumentation shall be provided.	As per section 8 (Electrical Requirements) of this specification 13823-CD-IC-SP-031 , "the material will be installed in hazardous area zone 1 and classified as EExd IIA/IIB T3." Hence all the instruments shall be EExd IIA/IIB T3 certified. Please confirm.	Refer Tech. Response to S.No.62 of this document.
69	II	13823-CD-IC-SP-031 12. 11 (Page 13 of 23)	Surge protection device shall be provided with the transmitter to protect the instruments from lightning or any kind of hazardous surge	As the skid is installed inside canopy no surge protection is required for transmitters as lightning will not fall on transmitter directly. Please confirm.	Tender Condition shall prevail.



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70	II	13823-CD-IC-SP-031 22.1.2. (Page 21 of 23)	Different types of signals shall be segregated into separate junction boxes: Analogue signals, RTD signals, Thermocouple signals, logic signals/Digital Signals Solenoid valves, Power supply.	As all the field signals (PT, RTD, Pulse Inputs, Limit Switches) are connected to Flow Computer only, Single Junction box shall be sufficient. Please confirm.	Tender Condition shall prevail.
71	II	13823-CD-IC-DC-001	PTS – D.C. DISTRIBUTION BOARD	1. Kindly confirm whether the Distribution Board in our scope of supply. 2. Please note, if we need to supply Distribution Board then we need to design based on our Power requirements (i.e 12 VDC). Please confirm. 3. Also confirm whether the Distribution Board shall be suitable for safe area or hazardous area.	Confirmed. DB shall be suitable for safe area installation.
72	II	13823-CD-IC-SS-031	PTS – SOLAR POWER SYSTEM	Kindly confirm whether the Solar Power System in our scope of supply.	Tender Condition shall prevail.
73	II	13823-CD-IC-SS-031	PTS – SOLAR POWER SYSTEM	If Solar Power System in our scope of supply, please confirm whether the Solar Panel is safe area panel or Hazardous Area Panel (Class 1, Div 1/2 certified or Zone 2 certified).	Solar panel shall be suitable for safe area installation.
74	II	13823-CD-IC-SS-031 8.0 Page 2 of 2	Battery shall be Ni - Cd Battery, Fiber Plate type	If Solar Power System in our scope of supply, please confirm whether Lead Acid Battery or other type Batteries are acceptable	Tender Condition shall prevail.
75	II	13823-CD-IC-SS-031 9.0 Page 2 of 2	Nominal system voltage : 48V	Please note our Flow Computer operating voltage is 12 VDC. If Solar Power System in our scope of supply, we shall design the Solar Power System suitable to our power requirement (i.e 12 VDC Batteries). Please confirm.	Bidder understanding is correct.
76	II	13823-CD-PR-DR-001-03 & 13823-CD-PR-DR-001-04	As per P&ID, both filter inlet and regulator outlet have been provided with CRV.	As per our understanding all these four CRVs shall be sized for 1% flow rate. Please confirm.	Confirmed.
77	II	Approved Vendor List	Filter	Emerosn Fisher Filter are already accepted by IGL in previous FRS. Kindly accept same for this FRS also	Refer Tech. Response to S.No.1 of this document.
78	II	Approved Vendor List	PSV and CRV	By Sebim Valve India Pvt Ltd we understand it is Weir BDK, Hubli. Please clarify our understanding	Refer Tech. Response to S.No.1 of this document.
79	II	Approved Vendor List	PSV and CRV	Fainger Leser PSV and CRV are approved by EIL and many other CGD. Kindly accept their PSV and CRV for this FRS	Refer Tech. Response to S.No.1 of this document.
80	II	Approved Vendor List	Ball, Globe & Check Valve	Hawa Valve, Hubli Ball, Globe & Check Valves are approved in previous IGL FRS. Kindly accept same for this FRS	Refer Tech. Response to S.No.1 of this document.
81	II	Approved Vendor List	Ball Valve	M/s Shayburg Ball Valve are approved by EIL and MECON. Kindly accept same for this FRS. PTR Attached	Refer Tech. Response to S.No.1 of this document.
82	II	Approved Vendor List	RPD Meter	Raychem Make RPD meter are W & M approved and accepted by Gail, Gail Gas, Mecon, SGL etc. Kindly accept same in this FRS	Refer Tech. Response to S.No.1 of this document.
83	II	Pages 17 - 25 of 272	Tender Document Volume – II OF II	--	Shall be deemed null and void.