



**REPLY TO BIDDER'S PRE-BID QUERIES**  
**BID DOCUMENT FOR PROCUREMENT OF FIRE AND GAS SYSTEM**  
**Tender No : AGCL/BD/PMC-GHT/F&G/2020/20 DATED 28/02/2020**



**COMMERCIAL QUERIES**

Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	VCS Reply
1	4.2 - Delivery	09 of 91	For Supply- 3 (Three) months from the date of FOI. For Installation- 3 (Three) months	Mentioned Delivery is very less. Request you to accept as below : For Supply- 5 (Five) months from the date of FOI. For Installation- 5 (Five) months	Tender Condition will prevail.
2	7.4 – Tender Fee	10 of 91	Tender Fee	Please confirm MSME & NSIC Unit are exempted for same as per virtue of same.	Bidders understanding is correct. Refer clause No. 9.1.5 IFB - Volume I of II of tender document.
3	8.1.1 – BEC	11 of 91	The bidder shall be a regular manufacturer of Fire & Gas System.	Please confirm bid submitted by Authorized Supplier / Trading House / Sole Selling Agent / Distributor of a Manufacturer shall also be acceptable.	Refer BEC. Tender conditions will prevail.
4	8.1.4.2 iv)	11 of 91	One manufacturer can quote only through one marketing Organization and a marketing Organization shall offer product of only one manufacturer.	We understood OEM for same items shall be of single manufacturer. Please clarify this clause.	Bidder's understanding is correct.
5	9.0 – EMD	13 of 91	EMD / Bid Security	We being system integrator and authorized distributor of various OEM's. Our organization registered under MSME & NSIC for above items. Please confirm we are exempted to pay tender fee and Bid security amount. Valid Certificate attached for your ready reference.	Refer Clause 9.1.5 and Clause No- 9.2.7 of IFB (Commercial volume I of II). Bidders which are registered as Micro / Small Companies / Industries under MSME act 2006 or registered as N.S.I.C shall be exempted from submission of Tender Processing Fee & EMD/Bid Security. Such bidders must furnish valid document i.e. valid on the date of bid submission date along with bid to avail the exemption.
6	21 – Payment terms	53 of 91	Payment shall be released within 30 days after receipt of relevant documents complete in all respects.	Request you to share alternate payment terms for MSME Bidders.	Payment terms shall be as per the tender conditions.
7	26.4 – PRS	55 of 91	The remaining supplies which are completed beyond the attract price reduction schedule @ ½ % per week of delay or part thereof of the delayed delivery value maximum upto 5% of the total order value. contractual delivery shall attract price reduction schedule @ ½ % per week of delay or part thereof of the delayed delivery value maximum upto 5% of the total order value.	Request you to accept "PRS @ ½ % per week of delay or part thereof of the delayed delivery value maximum upto 5% of the undelivered value only"	Tender conditions shall prevail.
8	7.0- PAYMENT TERMS	65 of 91	50% against successful Factory Acceptance Testing (FAT), receipt and acceptance at site, submission of invoice in triplicate, indemnity bond of the contract value and following documents:.....  20% value shall be paid pro-rata on completion of Erection at individual station and on submission Certification for completion of Erection, issued by Purchaser/ Engineer – In -Charge / representative at site.  20% value shall be paid on successful Site Acceptance Testing, Trial run, overall commissioning and on submission of Certification for completion of successful SAT, Trial, overall commissioning issued by Engineer – in -Charge / representative at site.  10% of supply value on completion of all works including final acceptance, Handing over and submission of Certification for completion of all works including final acceptance, All documents as specified in tender document; Submission of "As built drawing/ documents" and handing over issued by Purchaser/Consultant/ / Engineer – In -Charge (EIC) / representative at site.	<b>Supply :</b> 10% advance against ABG along with PO 70% of supply portion shall be paid against satisfactory proof of receipt of material at site after satisfactory inspection by owner/consultant representative on submission of mentioned documents: a) Signed invoice b) packing list c) Country of origin certificate d) Original LR copy/Airway bill/bill of lading/GR e) Inspection note f) Dispatch clearance g) Material received certificate	Tender Condition will prevail.
9	7.0 - Details of Bid Documents	10 of 91		Requested for extension upto 15th April.1430 HRS. IST.	Bid due date of submission is being extended till 26.03.2020 till 1430 Hrs. Refer Corrigendum#1 attached .
10	3.1 Details Of Fire Gas System-	7 of 91	The above quantities are indicative and for evaluation purpose only. Purchaser reserve the right to increase or decrease the quantity at the time of award.	Please confirm whether the quantity mentioned is the minimum quantity to be supplied or the same will as per actual detail design engineering. Also confirm whether the excess quantity required during detail engineering will be paid extra.	The rate quoted by the bidder shall remain firm and fixed. Payment shall be made for actual quantity ordered and executed.

**TECHNICAL QUERIES**

Sr. No.	Tender Clause No. / Annexures	Page No	Clause No	Subject	Bidders Comments / Queries	VCS Reply
1	-	4		SCOPE OF SUPPLY 'PART-B: Fire Alarm Control Panel	Please share the drawing for the following area  1) control building at Nambor, Khoraghat, Uriumghat, Golaghat, Numalighar, Thoramukh, Hamiramukh and SV stations(2 Nos.)  2) Golaghat Sub-Control Room;  Please also confirm whether networking between all fire fire alarm panel located at different location is required or not.  if required, please specify the communication type as all the control rooms are not located nearer to each other.	1) The details shall be provided to successful bidder. However may vendor to consider the size of control room as 6.5 m X 4.5 m X 3 m.  2) The details shall be provided to successful bidder. However may vendor to consider the size of control room as 6.5 m X 4.5 m X 3 m.  Networking between all FACP is not required.

2	-	4.3	Fire Alarm Control Panel	Unless otherwise specified, FACP shall have mimic to display geographical location of fire. Mimic shall form an integral part of the FACP and shall be located at the top of the panel. When separate mimic panel is specified, it shall either be provided for each zone on mimic panel for display of fire alarm. Mimic panel shall be powered by FACP. Mimic made out of plastic sticker shall not be acceptable.	There shall be LCD/LED display on Fire Alarm Panel. No separate Mimic panel is required for FAP. Kindly confirm.	Noted.
3	-	4.4	Integration With Various Plant Systems	For micro processor based system the system architecture and all the activities shall be same as specified above, and the system shall have following as a minimum: e. Dual redundant work station / MMI (Engineering Work Station + Operator's WorkStation);	HMI required to be supplied or not? If Yes, then place of installation of the HMI & size of the monitor.	HMI is not in bidder's scope.
4	-	1009-00-IN-DR-5001	Control System Architecture	48-CORE Single Mode OFC	Please confirm whether the 48 core single mode OFC shown as networking cable between various station shall be in our scope or not.	OFC is not in Bidder's scope.
5	-	-	LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS (VCS-VL-001)	GAS DETECTION SYSTEM	We request to include Gasensor Technology PTE Ltd. as an approved vendor for Gas Detection System.	Bidder to note that at this point of time Gasensor Technology PTE Ltd. Shall not be included in approved vendor. However, if bidder is awarded with the contract, then they shall provide the document of the instruments taken from Gasensor Technology PTE Ltd. and if the instrument document is not upto the criteria then the Bidder has to go with the Vendor list attached with th Technical tender.
6	-	-	General	-	Cable trays for Power & Control shall be made available for laying of fire alarm & F&G cabling. Kindly confirm.	Bidder's understanding is correct. Cable trays for cable laying shall be in Bidder's scope.
7	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg 5 of 12	4.0	F&G system shall consist of Dual 32-bit CPU, Minimum 32 Mbyte SDRAM (Extendable),	Since PLC based F&G system is required, so memory of the offered CPU shall be NVRAM type.	Accepted.
8	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg 5 of 12	4.0	F&G cabinet (9 nos.) shall be standalone floor mounted, dimensions 800x800x2200 mm (WxDxH)	As per standard design dimension shall be 1200 x 800 x 2100 (WxDxH) with 100 mm base frame	Accepted.
9	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg 5 of 12	4.0	F&G system at each location shall interface with proposed new RTU at terminals through secure and redundant communication link;	The requirement of RTU is not clear. Kindly elaborate. Please confirm that RTU supply is not in the scope of the vendor.	RTU shall not be in Bidder's scope.
10	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg no 7 of 12	4.0	Vendor to facilitate one number of International visits of 2 Nos. client personnel and 1 Nos. PMC/Consultant personnel for FAT or Training sessions or to visit Manufacturer parent company of the SCADA/RTU system for a week.	FAT shall happen in India Factory. Also the tro & fro and lodging boarding expenses of people travelling from customers side shall be borne by the customer.	Noted. However bidder to facilitate the international visit as per the tender for training sessions, OEM part companies, etc., which shall be included in quotation.
11	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg 11 of 12	8.0	Preparation for shipment and packing will be subject to inspection and rejection by Company's / Contractor's inspectors	Once the system is cleared for dispatch the same shall be dispatched with the necessary packing. The packing for the same shall not be inspected.	Tender conditions shall prevail.
12	1009-00-IN-MR-5004 Material Requisition for F&G System	Pg 11 of 12	8.0	Equipment and materials shall be protected to withstand ocean transit and extended period of storage at the jobsite for a minimum period of 18 months. Equipment shall be protected to safeguard against all adverse environments, such as: humidity, moisture, rain, dust, dirt, sand, mud, salt air, salt spray, and sea water.	Storage at site will be in customers scope	Storage shall not be in bidder's scope. However the equipment protection shall be provided by Bidder as per the clause no 8.0, pageno. 13 of 236 mentioned in technical tender.
13	1009-00-IN-SOW-5004 Scope of Work for F&G System	Pg 8 of 13	5.1	I/O redundancy of 25% is to be maintained.	Kindly elaborate the requirement. Please inform us the redundant IO count.	As per the tender 25% spare philosophy shall be maintained by the bidder of total I/O count. Please refer attached I/O list doc. no.: in technical tender.

14	1009-00-IN-SOW-5004 Scope of Work for F&G System	Pg 8 of 13	5.1	F&G cabinet shall be SIL 3 rated, IP 54.	As per standard design IP42 panels shall be considered.	Bidder to consider F&G cabinet with ventilation arrangement, if it is so, IP 42 is accepted.
15	STANDARD SPECIFICATION FOR JUNCTION BOXES AND CABLE GLANDS	Pg no 6 of 10	5.1	Pneumatic Junction Boxes	Not applicable. Please confirm that Pneumatic Junction Boxes supply is not in the scope of the vendor.	Provided specification doc. No.: VPC-SPC-5311 is general specification of junction boxes for all types. However, bidder to provide field junction box for the F&G system.
16	JUNCTION BOX AND CABINET STANDARD DRAWING	-	-	GENERAL ARRANGEMENT JUNCTION BOX	Kindly confirm the Type of JB required i.e for Pair Cable or Core Cable.	Bidder to consider F&G Junction boxes for Analog and digital signals seperately. However pair type JB shall be provided for MCP, Beacon, Hooter and Core / Traid type JB shall be provided for detectors such as Open path and Point type Gas dtectors etc.,
17	JUNCTION BOX AND CABINET STANDARD DRAWING	-	-	JUNCTION BOX INSTALLATION DETAIL	Kindly confirm the installation type with qty as the corresponding accessories shall be considered accordingly	Bidder to refer typical junction box drawing no. VPC-SD-IN-032 attached in technical tender and the quantity shall be as per SOR.
18	System architecture	-	-	NMS workstation at Golaghat Sub Control Room	Please confirm that NMS workstation supply is not in the scope of the vendor.	NMS workstation is not in Bidder's scope. Provided System architecture with this tender is over all architecture of the N-G-N Pipeline, However tender no. is limited to F&G System including Gas detectors, Terminal F&G cabinets, F&G PLC, FACP and necessary accessories etc.,
19	System architecture	-	-	Leak Detection system at Golaghat Sub Control Room	Please confirm that Leak Detection system supply is not in the scope of the vendor.	Leak Detection system supply is not in Bidder's scope. Provided System architecture with this tender is over all architecture of the N-G-N Pipeline, However tender no. is limited to F&G System including Gas detectors, Terminal F&G cabinets, F&G PLC, FACP and necessary accessories etc.,
20	System Architecture Notes	Pg 169 of 236		SCADA architecture requirement	Please provide a system architecture of the SCADA requirement.	SCADA is not in Bidder's scope. Provided System architecture with this tender is over all architecture of the N-G-N Pipeline, However tender no. is limited to F&G System including Gas detectors, Terminal F&G cabinets, F&G PLC, FACP and necessary accessories etc.,
21	System Architecture Notes	Pg 169 of 236		Use of Server based architecture and using existing server as backup server at Dulajjan Master Control Room	Please provide a system architecture of the SCADA requirement. Kindly elaborate the requirement as we have workstation based architecture.	Provided System architecture with this tender is over all architecture of the N-G-N Pipeline, However tender no. is limited to F&G System including Gas detectors, Terminal F&G cabinets, F&G PLC, FACP and necessary accessories etc.,
22	System Architecture Notes	Pg 169 of 236	10 & 11	RTU communication requiremet	Kindly clarify the requirement of RTU? Please inform the protocol of communication and the amount of data to be transmitted.	All data from F&G shall be interfaced to RTU through soft link, which consists of LEL %, each detector data, high/ low signal, system healthiness etc.
23	System Architecture Notes	-	13	Exsiting server	Please confirm that supply of any hardware and software in the existing system is not in the scope of vendor. Any communication with the existing system will be mutual responsibility between client and vendor. Please provide the details also is any data exchange required with the same.	Terminal F&G system shall be integrated with new proposed terminal RTU is in bidder's scope. For that required hardware and software shall be in bidder's scope.
24	System architecture	-	-	Fibre Optic cable & respective accessories with terminatoinis	Please elaborate scope of the same as it is not mentioned in BOM, but shown in architecture.	Fibre optic cable is not in bidder's scope.

26	Part-A -F&G 1. Hardware	7 of 236	-	<input type="checkbox"/> SIL3 Rated system <input type="checkbox"/> F&G Cabinet (09nos) & 02nos at SV stations. <input type="checkbox"/> F&G system at each location shall interface with proposed new RTU at terminals through secure and redundant communication link	<input type="checkbox"/> Please confirm only PLC & its related modules will be SIL3 certified. Accessories & other communication module shall be as per Industrial standards supplied to M/s. GAIL & other PSU's. <input type="checkbox"/> Please clarify nos. of floor standing panel to be supplied. <input type="checkbox"/> Integration at RTU end will in M/s. AGCL scope.	1. Accepted. 2. Bidder to consider 9 nos. of floor standing panel for F&G system in terminals including 2 SV stations as per the scope of supply to be supplied. 3. F&G system integration with RTU shall be in AGCL scope. However, required hardware and software shall be in bidder's scope.
27	Part-B -FACP 1. Hardware	8 of 236	-	<input type="checkbox"/> Certification <input type="checkbox"/> Nos. of Panel. <input type="checkbox"/> Redundant communication	<input type="checkbox"/> Certification not mentioned. Please confirm SIL Certification also applicable for FACP like F&G system. <input type="checkbox"/> Please clarify nos. of floor standing panel to be supplied. <input type="checkbox"/> Redundant communication shall be achieve by Redundant CPU. Please confirm Redundant CPU is mandatory or non-mandatory.	1. FACP panel shall be SIL 2 certified. 2. Bidder to consider 10 nos. of floor standing panel for FACP to be supplied. 3. Bidder to consider redundant communication link for integration of FACP to F&G system.
28	Part - C - CAMC	9 of 236	-	Vendor to facilitate one number of International visits of 2 Nos. client personnel and 1 Nos. PMC/Consultant personnel for FAT or Training.	International visit not applicable as we FAT & inspection will be carried out in India only.	Noted. However bidder to facilitate the international visit as per the tender for training sessions, OEM part companies, etc., which shall be included in quotation.
29	FACP	25 of 236	-	FO patch chords for connectivity to the other vendor package equipments	Please clarify FO cable & its laying will be in M/s. AGCL scope. Also Integration of Other equipments' will be in M/s. AGCL scope.	Fibre optic cable and its laying is not in bidder's scope.
30	Datasheet Gas Detector	30 of 236	-	SIL3 Certification	As per Industrial standard SIL2 Certified Detectors are widely accepted. Please confirm for SIL2 certificate by third party will also be acceptable.	Accepted.
31	Datasheet OPD	31 of 236	-	<input type="checkbox"/> SIL3 Certification <input type="checkbox"/> Alignment kit	<input type="checkbox"/> As per Industrial standard SIL2 Certified Detectors are widely accepted. Please confirm for SIL2 certificate by third party will also be acceptable. <input type="checkbox"/> Please confirm only 01set of Alignment is suffice to supply for 14nos. of OPD set.	1. Accepted. 2. Bidder to consider 3 nos. of Alignment kit to be supplied.
32	Datasheet Beacon	32 of 236	-	<input type="checkbox"/> SIL3 Certification <input type="checkbox"/> Xenon <input type="checkbox"/> MOC SS316	<input type="checkbox"/> Please confirm Non SIL or SIL1/SIL2 will be also be acceptable. <input type="checkbox"/> Please confirm Joules. <input type="checkbox"/> Please confirm Instead of SS316 die cast aluminum / GRP will also be acceptable.	1. SIL 2 is accepted. 2. Bidder to consider 21 joules for Xenon Beacon. 3. Bidder shall consider minimum LM6 Aluminium.
33	Datasheet Hooter	33 of 236	-	<input type="checkbox"/> SIL3 Certification <input type="checkbox"/> MOC SS316	<input type="checkbox"/> Please confirm Non SIL or SIL1/SIL2 will be also be acceptable. <input type="checkbox"/> Please confirm Instead of SS316 die cast aluminum / GRP will also be acceptable.	1. SIL 2 is accepted. 2. Bidder shall consider minimum cast Aluminim alloy
34	Datasheet MSD	35 of 236	-	<input type="checkbox"/> Certification – UL 268 <input type="checkbox"/> Enclosure Protection Exd, IP67	<input type="checkbox"/> Other certification like EN53/LPCB will also be acceptable. <input type="checkbox"/> M/s. AGCL to look into it and clarify non-exd / intrinsically safe Detectors to be accepted. Also IP67 is very higher Protection for MSD.	1. Certification shall be as per NFPA, EN or equivalent standard by UL/ FM/ BASEEFA/ eq. 2. Multi-sensor detector should be explosion proof.
35	Others Standard Specifications	-	-	<input type="checkbox"/> Datasheet of FACP <input type="checkbox"/> Other items <input type="checkbox"/> Accessories <input type="checkbox"/> Certification of FACP	<input type="checkbox"/> Please send Datasheet for compliance. <input type="checkbox"/> Please confirm no Repeater Panel, Fire Suppression System in SOW. <input type="checkbox"/> No F&G Testing kit to be supply to M/s. AGCL. <input type="checkbox"/> VDS / SIL Certification approved FACP shall also be acceptable.	1. FACP specifications is already mentioned in the technical tender. However, successful bidder has to submit the datasheet of FACP for approval. 2. Repeater panel is not required. However, Golaghat sub-control room shall consists of clean agent system and same shall be integrated and interfaced with respective F&G system and FACP system which is in bidder's scope. 3. F&G testing kit is not required to be supplied. 4. Bidder to provide SIL 2 certification for FACP.
36	<b>BOQ</b>					
37	PART A F&G	-	-	Cables	Please confirm mentioned quantity is final. Also share quantity for Cable Tray, conduit, trenching & laying of cables quantity.	Quantities mentioned in technical tender are tentative. Final quantities may vary as per the site conditions. However, successful bidder shall verify as per the site conditions.
38	PART B FACP	-	-	Cables	Cables & other items quantity are not mentioned. Please clarify.	Design and engineering of FACP and its required accessories shall be in bidder's scope of work.
39	-	-	-	BOQ	BOQ should be modify for Supply & services of F&G and FA system separately.	Tender conditions shall prevail.
40	Document No.: 1009-00- IN-DS-5004 Datasheet - POINT GAS DETECTOR	30 of 236	20	Response time - T50 < 3 Seconds	Our point type detector having T50 ≤ 4.3 s. Kindly accept	Tender conditions shall prevail.

41	Document No.: 1009-00-IN-DS-5004 Datasheet - POINT GAS DETECTOR	30 of 236	21	Accuracy - ± 2%	Kindly accept point type detector with ±5 % LEL accuracy	Point type detector accuracy shall be ± 3% LEL or better.
42	Document No.: 1009-00-IN-DS-5004 Datasheet - POINT GAS DETECTOR	30 of 236	24	SIL Certification - SIL 3	Please note that there are NO detectors are available in SIL3 rating. - Our Point type detector is SIL2 rated & same shall be integrated with SIL3 PLC	Accepted.
43	Document No.: 1009-00-IN-DS-5004 Datasheet - POINT GAS DETECTOR	30 of 236	26	Linearity - <5% FSD	Linearity is not applicable for point type detector	Tender conditions shall prevail.
44	Document No.: 1009-00-IN-DS-5004 Datasheet - POINT GAS DETECTOR	30 of 236	34	Mounting Accessories - Swivel Mounting bracket to suit 2" Pole	For Point type detector Swivel mounting is not required. We will provide fixed type mounting kit with each detector	Accepted.
45	Document No.: 1009-00-IN-DS-5004 Datasheet - OPEN PATH GAS DETECTOR	31 of 236	17	Accuracy ± 3% of FS	+/- 5% of full scale or +/-10% of reading whichever is greater	Tender conditions shall prevail.
46	Document No.: 1009-00-IN-DS-5004 Datasheet - OPEN PATH GAS DETECTOR	31 of 236	23	SIL Certification - SIL 3	Please note that there are NO Open Path detectors are available in SIL3 rating. - Our Open Path Detector is SIL2 certified and same shall be integrated with SIL3 PLC	Accepted.
47	Document No.: 1009-00-IN-DS-5004 Datasheet - BEACON	32 of 236	10	Type - Xenon Discharge Lamp	Please note that Xenon lamp affects on human eyes because, hence we request you to accept LED type Beacon	Tender conditions shall prevail.
48	Document No.: 1009-00-IN-DS-5004 Datasheet - BEACON	32 of 236	15	Enclosure Material - SS316	Please note that Beacon are available in Aluminium. Kindly accept	Bidder shall consider minimum LM6 Aluminium.
49	Document No.: 1009-00-IN-DS-5004 Datasheet - BEACON	32 of 236	16	Enclosure Protection - Ex'd, IP 67	Please note that Beacon are available in IP66. Kindly accept	Tender conditions shall prevail.
50	Document No.: 1009-00-IN-DS-5004 Datasheet - BEACON	32 of 236	19	SIL Certification - SIL 3	Please note that there are NO Beacon are available in SIL3 rating. - Non SIL rated Beacon shall be integrated with SIL3 PLC	Accepted.
51	Document No.: 1009-00-IN-DS-5004 Datasheet - HORN	33 of 236	14	Enclosure Material - SS316	Please note that Hooter are available in Aluminium. Kindly accept	Bidder shall consider minimum LM6 Aluminium.
52	Document No.: 1009-00-IN-DS-5004 Datasheet - HORN	33 of 236	15	Enclosure Protection - Ex'd, IP 67	Please note that Hooter are available in IP66. Kindly accept	Tender conditions shall prevail.
53	Document No.: 1009-00-IN-DS-5004 Datasheet - HORN	33 of 236	18	SIL Certification - SIL 3	Please note that there are NO Horn (Hooter) are available in SIL3 rating. - Non SIL rated Horn (Hooter) shall be integrated with SIL3 PLC	Accepted.
54	Document No.: 1009-00-IN-DS-5004 Datasheet - MANUAL ALARM CALL POINT	34 of 236	18	Enclosure Protection - Ex'd, IP 67	Please note that MCP are available in IP66. Kindly accept	Tender conditions shall prevail.
55	1009-00-IN-MR-5004	169/236	-	FACP Architecture	Kindly confirm my understanding All FACP Panel shall be standalone , There is no interconnectivity bw FACP Panel.	Bidder's understanding is correct.However, terminal control room FACP shall be integrated with respective terminal F&G panels.
56	1009-00-IN-MR-5004	148/236 , Clause - 5.1.4	-	F&G Cause and Effect	FACP (Smoke+Heat),MCP, and Hooter signals shall be integrated with F&G system only not with SCADA . As in cause and effect it shows with scada as well . However in case and effect notes and control system architecture it has mentioned with only F&G System . Please clarify	Bidder's understanding is correct however FACP signal shall be integrated with respective terminal RTU through F&G system, and F&G and FACP signals shall be reflected in SCADA system.
57	1009-00-IN-MR-5004	104/236 , Clause 4.4	-	Integration With Various Plant Systems	As understood from RFQ all 10 panels are standalone panel so kindly clarify interfacing philosophy of FACP with Third party systems ( Public alarm announcement,Paging and plant intercom system,Fire suppression system. etc) will be through Main panel (4 Loop Addressable located inside control building at Golaghat Sub-Control) else with all.	Golaghat sub-control room shall consists of clean agent system and same shall be integrated and interfaced with respective F&G system and FACP system which is in bidder's scope.
58	1009-00-IN-MR-5004	24/236 , Clause 7.2	-	Fire Alarm Control Panel (FACP) Supply and installation of software with license etc., complete with system configuration and programming	FACP comes with loaded Software . Panel Configuration/ Programming shall be done through FACP.	Bidder's understanding is correct.
59	1009-00-IN-MR-5004	10/236 , Clause - 4.1.2	-	Fire Alarm Control Panel (FACP)	Under FACP - F&G Systems have described , kindly correct same.	Noted. Bidder to consider Clause no. - 4.1.2 for FACP system.
60	1009-00-IN-MR-5004	70/236 , Clause - 5.1	-	Fire Detectors shall be designed to detect one or more of three characteristics of fire, smoke, heat or radiation (flame).	Fire Detectors shall be designed to detect one or more of two characteristics of fire, smoke or heat not for flame . Kindly allow for Heat or Smoke.	Bidder to consider Gas detectors such as, Point type and Open type for process area. However, terminal control room shall be provided with Multi sensor(Smoke + Heat type).

61	1009-00-IN-MR-5004	35/236	-	Multi Sensor (SMOKE + HEAT) Principle- Ionization + Photoelectric	Multi Sensor (SMOKE + HEAT) shall be based on Photoelectric effect , kindly allow Detector principle with Photoelectric effect.	Accepted. Bidder to ensure that principle of operation of the detector may not effect the accuracy and reliability.
62	1009-00-IN-MR-5004	35/236	-	Multi Sensor (SMOKE + HEAT) Certification- UL 268 certified	As per RFQ In FACP Redundancy at processor and Power supply level required. Same can achieve through Vds certified systems. Hence allow to consider Vds certified system rather than UL Certified.	Tender conditions shall prevail.
63	1009-00-IN-MR-5004	71/236 , Clause - 5.1.1	-	Optical Flame Detectors	Optical Flame detectors shall be connected with F&G Panel.	Optical Flame Detectors is not applicable.
64	1009-00-IN-MR-5004	74/236 , Clause - 5.1.4	-	Linear Heat Sensing Cable	Please share the quantity to be considered per location.	Linear Heat Sensing Cable is not applicable.
65	1009-00-IN-MR-5004	76/236 , Clause - 5.1.4	-	High Sensitivity Smoke Detection System (HSSD)	High Sensitivity Smoke Detection System (HSSD) is not part of supply scope under FACP Package , please confirm.	Bidder's understanding is correct.
66	1009-00-IN-MR-5004	-	-	Dual redundant communication port;	Dual redundant communication port can be achieved through Network switch.	Bidder to consider Dual redundant communication port in F&G and FACP system.
67	1009-00-IN-MR-5004	106/236 , Clause - 4.7	-	Ionization smoke detector shall be solid state type, working on ionization principle and shall preferably be of dual chamber and dual source type.	kindly allow Detector principle with Photoelectric effect.	Accepted. Bidder to ensure that principle of operation of the detector may not effect the accuracy and reliability.
68	1009-00-IN-MR-5004	184/236	-	Approved Vendor	We are offering Honeywell make FACP, please confirm	Accepted
69	1009-00-IN-MR-5004	General	-	Fiber cable	We understand FO cables are not in our scope.	Bidder's understanding is correct.
70	1009-00-IN-MR-5004	7 of 236	-	Material Requisition for F&G System	We observed difference "Open path detector quantity in " Material Requisition for F&G System" and "I/O LIST (F&G SYSTEM)", please clarify	Bidder to quote as per the SOR and quantity deviation (if any) shall be taken care at the time of award.
71	1009-00-IN-DS-5004	31 of 236	-	OPEN PATH GAS DETECTOR	Please provide the range of open path gas detectors	Bidder to refer the open path gas detector datasheet no 1009-00-IN-DS-5004 in the technical tender document.
72		General	-	Communication	We understand SIL 3 FGS system to be provided in each location, they would be communicating to Main server place in Golaghat sub control room. Operator workstation are talking to main server, please confirm whether our understanding is correct.	Bidder's understanding is correct.
73		General	-	Installation & Commissioning	Honeywell understand installation & Commissioning is not honeywell scope. Only Supervision of I&C is under honeywell scope. Please clarify	Supply, installation, commissioning and testing of F&G system and FACP system along with its CAMC is in bidder's scope.
74		-	-	For Point Type Gas Detector:	SIL3 certification is required in the specs, however a single Instrument can have maximum SIL rating of SIL2, which we comply and provide. Kindly confirm.	Accepted.
75		-	-	For Open Path Type Gas Detector:	SIL3 certification is required in the specs, however a single Instrument can have maximum SIL rating of SIL2, which we comply and provide. Kindly confirm.	Accepted.
76		-	-	-	In case of Horn, Beacon & MCP, ATEX certificate along with PESO is mentioned in the required specs. There is only one vendor MEDC who meets this requirement. Whereas mentioned MOC in the required specs is SS316, where has MEDC only provides MCP, Beacon & MCP in GRP Housing. So kindly confirm for GRP Housing for MCP, Horn & Beacon.	Tender conditions shall prevail.
77		-	-	-	Sound level available with the supplier is max 122db@1 mtr. Kindly confirm for the same.	Tender conditions shall prevail.