



INDRAPRASTHA GAS LIMITED
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TENDER DOCUMENT NO.IGL/ET2/CP/CC18197
RATE CONTRACT FOR SUPPLY OF GAS DETECTOR AND FLAME DETECTOR FOR COMPRESSOR PACKAGES

REPLY TO BIDDERS QUERIES

Sr No.	Section	Page No.	Tender Clause	Bidder Query	IGL Remarks
1	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	63	Flame detectorType: UV and IR Detector	UV-2 x IR for detection of Hydrocarbon and certain non-Hydrocarbon flames like (Hydrogen, Silane, Hydrazine, etc. when special dual-pass IR sensor is used.	* Tender Condition prevail
2	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	62	Field of View120° cone of vision (or) Better.	Field of View under the Flame Detector We would like clarification on whether it is mandatory to provide a UV and IR type flame detector with a 120-degree cone of vision.For this specific field of view, we can offer a Triple IR type flame detector model. However, for the UV and IR type, we have a model available that uses a UV/Dual IR/VIS spectrum but offers a 90-degree cone of vision.	* Tender Condition prevail
3	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	6(clause 3.2)	Material shall be delivered within 12 weeks at IGL stores located in Delhi, UP, Haryana and Rajasthan from the date of issue of Purchase Order.	Generally, an HC detector comes with either aConsidering ongoing shortage of Electronic subcomponents worldwide which has affected the manufacturing/lead time for the materials resulting in delayed deliveries. Bidder requests M/s. IGL to kindly accept delivery period as 16 weeks from the date of issue of Purchase Order.	* Tender Condition prevail
4	Tender_CC18197/ SECTION V/ SCOPE OF WORK/ SPECIFICATION SHEET FOR GAS DETECTORS	61(clause 10)	Status Indicator: LED indication along with real time display of %LEL.	The IR HC Gas Detector has integral Tri-Color LED indication for normal, Alarm & fault conditions which eliminates the need of separate Display for showing % LEL. Bidder requests M/s IGL to kindly accept the Detector with Tri-color LED Indication or LED indication along with real time display of %LEL.	* Tender Condition prevail
5	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	62	Design (4 Channel Double compensated having heated optics design/ IR with self heated optics design).	Generally, an HC detector comes with either a single IR source with multibeam, heated optics, or two IR sources with multibeam, heated optics. The two-IR source detector has always been better. Please confirm the preferred type.	* Tender Condition prevail
6	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	61	Accessories Required The detector shall be supplied with suitable Sunshade/ Deluge protection, Strom baffle, Weather protection, Dust barrier, Gassing Cap, etc as applicable protection against dust particles. 2 No's Cable Glands(3/4" Double compression)	Required MOC to be mentioned	* Tender Condition prevail
7	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	62	Calibration Device	Calibration cap only will required and we can supply 01no. against each lot or against 25sets of Gas Detectors.	* Tender Condition prevail

8	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	62	Response Time: Less than 3 seconds	As per FM6320 testing and performance approval, the response time may vary based on the fuel and the distance. Hence, kindly accept the response time based on FM approvals (say 8–10 seconds for methane). Fuel Distance – ft. (m) Response Time (s) n-Heptane 90 (27) 6.0 n-Heptane 60 (18) < 3.0 Methanol 40 (12) 12.0 Methane 80 (24) < 10.0 Propane 60 (18) < 7.0 Butane 55 (17) < 6.0 Ethane 60 (18) < 3.0 Hydrogen 60 (18) < 3.0	* Tender Condition prevail
9	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ DURATION OF CONTRACT	63	UV/IR Sensor and Transmitter's MOC: Housing: UV/IR Sensor Housing with LED Display and Relay Unit, in anodized Aluminum with powder coated finish only from OEM with prior approval from IGL (Explosion proof enclosure).	Instead of Aluminium, SS316 shall be acceptable too. Please confirm	* Tender Condition prevail
10	TECHNICAL SPECIFICATIONS SHEET FOR FLAME DETECTORS	Page 63 of 87	Flame Detecor Specification Clause No. 16 : Complete Approvals (Sensor, Transmitter and Terminal box / Junction Box) CCOE/ PESO,CSA, FM, ATEX, HART Registered, and AMS Aware Class 1, Div 1, groups B, C, and D (-40°C to +65°C),Type 4X, Exd IIC ,T5	We understand that the approval is required for complete instrument including sensor transmitter and terminal box	* Tender Condition prevail
11	TECHNICAL SPECIFICATIONS SHEET FOR FLAME DETECTORS	Page 63 of 87	Flame Detecor Specification Clause No. 17: SIL2	We understand SIL 2 certificate is required aalong with SFF test reports from Exida/TUV or equivalent . Also the SIL 2 certificate must be valid with other specification asked in the tender such as field of view and response time	* Tender Condition prevail
12	TECHNICAL SPECIFICATIONS SHEET FOR FLAME DETECTORS	Page 62 of 87	Flame Detecor Specification Clause 3 : Field of View 120° cone of vision (or) Better along with clause 5 : reponse time of 3 second	As per our understainga 120 Deg Field of View is required with measurement distance of 50 feet (15.2m) distance for a 1 sq. ft (0.092m2)heptane fire with 3 sec response time. IGL to can larify the standard vendor need to follow for defininhg Field of view such EN240 or FM3260 . Also as per understanding it is not possible to offer SIL2 certified instrument which measure 1sq ft of heptane fire at 50 feet within 3 second response time so request you to consider Field of View of 90 deg horizontal as well vertical	* Tender Condition prevail
13	Flame detectorType:		UV and IR Detector	UV-2 x IR for detection of Hydrocarbon and certain non-Hydrocarbon flames like (Hydrogen, Silane, Hydrazine, etc. when special dual-pass IR sensor is used.	* Tender Condition prevail
14	Sensitivity		Approved Performance Specification-50 feet (15.2m) distance for a 1 sq. ft (0.092m2)heptane fire.	1sq foot gasoline fire at 50 feet/15m in 1 second.Hydrogen plume flame 20 inches at 25 feet/7.5m in 3 seconds.Methane plume flame 30 inch at 35 feet/10m in 1 second. See attached list for third party FM tested fuels.Note.: Above mention ranges are evaluated and certified by FM.See attached list for third party FM testedfuels	* Tender Condition prevail
15	Response Time:		Less than 3 seconds	Comply, typical 1-3 sec	* Tender Condition prevail
16	Maximum supply current:		400 mA during COPM only	Auto and manual test 250 mA	* Tender Condition prevail
17	Typical current:		80 to 150 mA Depends on relays ETC	Standby: 90mA, Alarm: 110mA	* Tender Condition prevail
18	Output signals:-		4-20mA, Relay, HART or RS485	4-20mA (Hard wire output will be provided), RelayHART communication not applicable being a standalone safety deviceRS485 MODBUS is available	* Tender Condition prevail
19	Complete Approvals (Sensor, Transmitter and Terminal box /		CCOE/ PESO,CSA, FM, ATEX, HART Registered, and AMS Aware	CCOE/PESO, CSA, FM, ATEX, IECEX, SIL2, EMC, LVD, CSFM	* Tender Condition prevail
20	Ingress Protection		IP66/67, NEMA 4	IP66, NEMA4	* Tender Condition prevail
21	Reliability		IEC 61508	Not Applicable	* Tender Condition prevail

22	Accessories Required		Mounting: SS Roof mounted or wall mounted. For threaded type detectors suitable termination box (approved for use inside hazardous area) shall be provided. The detector shall be supplied with suitable accessories etc as applicable for installation 2 No's Cable Glands(3/4" Double compression)	Noted. Termination connections are inside the detectors. Suitable cable glands will be provided	* Tender Condition prevail
23	Software (soft and Hard Form)		Software or additional device, cables required for calibration or troubleshooting of instrument shall be supplied free of cost with instrument.	No calibration Required	* Tender Condition prevail
24	Tender_CC18197/ SECTION I/ INVITATION FOR BID (IFB)/ BID SECURITY	10	PSUs and firms registered as Micro/Small Enterprise with MSME or NSIC are exempted from furnishing Earnest Money Deposit (EMD) / Bid Security, (subject to their enclosing a copy of latest and valid registration certificate for the tendered products/services) with their bid.	Bidder requests M/s. IGL to kindly confirm whether EMD exemption is applicable to MSME registered authorized distributor / dealers. If not, please provide the EMD Bank Guarantee format same is not available in tender document.	Please refer clause 11.5 of ITB. Bid Bond format given at Annexure - III of Section VII Forms & Formats at page 85 of tender document.
25	Tender_CC18197/ SECTION III/ GENERAL CONDITIONS OF CONTRACT (GCC) / GUARANTEE / WARRANTY	35	This warranty shall remain valid for at least twelve (12) months from the date of successful commissioning of individual equipment or eighteen (18) months after the date of last shipment whichever is earlier or as specified under the Special Conditions of Contract.	We understand that CPBG is valid for 90 days beyond the guarantee/ warranty period i.e. twelve (12) months from the date of successful commissioning of individual equipment or eighteen (18) months after the date of last shipment whichever is earlier or as specified under the Special Conditions of Contract.	Bidder understanding is correct.
	Tender_CC18197/ SECTION IV/ SPECIAL CONDITIONS OF CONTRACT (SCC)/ CONTRACT CUM EQUIPMENT PERFORMANCE BANK GUARANTEE	53	The Contract Performance Bank Guarantee should initially be kept valid for 90 days beyond the guarantee / warranty period.	Bidder requests M/s. IGL to confirm the same.	

Note:

1. Please note that only the clarifications of the queries received from the bidder's are replied in this corrigendum, under reply to bidder's Query. In case, if any discrepancies is observed between the tender document and the clarification stated above, the tender condition shall prevails for those cases.
2. All other terms & conditions of tender document remain unaltered.
3. Bidders are requested to visit IGL website / IGL's tendering website <https://igl.ewizard.in> regularly for further announcement
4. Please submit the signed and stamped copy of this corrigendum along with your offer.