BHEL's replies to Pre-Bid Queries on Inert Gas Extingusishing System

Project 2x250 M W BSEB Barauni

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Sl.No	Ref.Clause No.	Section	Page No	Tender requirement	Contradictory statement in the enquiry	Bidders Queries	Final Resolution
1	2.7			Bidders shall not be permitted for any claim for additional commercial implication on any account during the detail engineering stage		We would like to inform you that, incase of changes in dimensions of equipments / areas need to protected or its location or its quantity or any other if any, found to be during detail engineering stage in compare with the inputs provided by you at the tendering stage, it shall have the cost implication. Kindly consider our request and make an effort to conclude it at the pre-bid discussion	Not acceptable. Bidder to follow specification.
2	5.8			Bidder shall not entertained to claim extra cost or time to redesign, rework incase of any interference found to be with other facilities / structures during execution		We would like to inform you that, if any rework or redesign happens in case of interference with other facilities / structures during execution it shall have price implication.Kindly consider our request and make an effort to conclude it at the pre-bid discussion	Bidder to follow the specification.
3	5.8			If at any stage of work, any dismantling or modification or relocation of any facilities is required to be done by bidder		If at any stage of work, any dismantling or modification or relocation of any facilities is not acceptable and shall not considered in our scopr of work. Kindly consider our request and make an effort to conclude it at the pre-bid discussion	Bidder to follow the specification.
4	10			Gas cylinder storage room is located b/w col. No 11 & 12 in D-E bay		Please provide us the drawings indicating location of storage cylinders	Please see the drg, PE-DG-374-100-M002-R6_Main Plant eq Layout, where location of Gas Cylinder room is shown.
5	11.1.15			Operating devices and local control panels shall be provided for this system		Kindly clarify the point 'operating devices' and 'local panels', also clarify the fire detection & alarm system for this package is in our scope or not	Please follow 'Interface Diagram for various packages' for the scope matrix.
6				General		Kindly provide us the sectional drawings (showing the false floor, room void & ceiling void) of the rooms (CER, CR, PR etc.,) to be protected by inert gas system	Cross sectional drawing is not avaialble. However please not that, False Ceiling height inside the control room shall be considered as 3.00m from the FFL. False floor is not required for Control room
7						The room to be protected not had shown the floor void or ceiling void details.	Please refer the drg CCR & EER Room Layout_PE-DG-374-100-I401_01, where areas to be covered as indicated except Toliets.
8						Inergen Gas System / Co2 Gas Flooding System for Central Control Room. Inergen Gas System / Co2 Gas Flooding System for Equipment Control Room.	Bidder to follow the specification.
9	11.1.30 (IV)		36 of 125	All indication lamp shall be LED type with minimum size of10 mm		Our standard control panel zone modules are with 5 mm LED for better visibility zone identification. All other indicator LED will be 10 mm.	Bidder to follow the specification.
10	11.1.21		31 of 125	Properties of Agents used as Fire Extinguishing Agents indicates 2962 psig (200 Bar) system required, whereas 300 bar mentioned in Legend on Schematic of Inert Gas Extinguishing System Drawing provided along with tender		Please confirm 200 Bar or 300 Bar specified for operating pressure.	200 Bar is the operating pressure.
11				Electronic panels inside the EER rooms are energegized at less than 480 Volts		BHEL to confirm. Also if Power is cut-off in case of `Fire' to define class of fire.	Confirmed.
12	11.1.3		28 of 125	Considered separate zone of CCR (including Common Computer Room) & 2 EER rooms (including UPS room) for Unit # 8 & 9. Hence walls partition required from False Floor to True Ceiling between CCR & 2-EER Rooms		BHEL to confirm provision of partition (P/P Wall)	False floor is not available. Architectural darwing for opearting floor is attached for uor reference.
13			Annexure – I	Sub-Vendor List		The vendor list for Clean agent system is not available. We are providing clean agent system (INERTECH system) of Eurotech Fire protection, UK make. Kindly confirm.	Sub-vendor list canot approve at this time.
14	Sl. No.-4		page no:- 18 of 125	The inert gas release panel shall be accommodated in the same enclosure housing microprocessor based main fire alarm panel (supplied by others) envisaged to be located in main control room of power plant building or in the gas cylinder room.		The separate inert gas release panel will be provided. The same will not be accommodated in same enclosure of Main Fire alarm panel. Kindly confirm.	Please follow specification. Loaction shall be decided later.
15	Sl. No (e)			The discharge time period shall be such that the design concentration is achieved within 60 seconds. The flow calculations shall establish this criterion.		As NFPA 2001 latest Edition 2012, the discharge time is 120 seconds instead of 60 seconds. Kindly confirm.	Please follow specification.
16	Sl. No (f)			All cylinders shall be duly listed by UL / FM / VDS/ LPCB in addition to approval by CHIEF CONTROLLER OF EXPLOSIVES – INDIA.		The seamless cylinders will have PESO approval only as the same seamless cylinders are of Indian Origin. Kindly confirm.	Please follow specification.
17	Schematic of Inert Gas Extinguishing system			Capacity of seamless cylinder mentioned is 80L.		Can we provide larger capacity seamless cylinders to reduce installation space & no. of cylinders? Kindly confirm	Confirmed.
18	Clause no-11.1.21			The agent container charging pressure mentioned in Clause no-11.1.21 is 2900/2175 psig for IG 541 & 2962/2222 psig for IG 55 and it should be as per NFPA-2001 latest edition. The agent container charging pressure mentioned in Schematic of Inert Gas Extinguishing system is 300Bar.		The latest Edition of NFPA 2001 (Table 4.2.1.1.1(a)) recommends the agent charging pressure of 4503psi for IG 541, 4443psi for IG55. Kindly confirm.	Confirmed. 200 Bar is the operating pressure.
19	Clause no-11.1.28.2			Discharge nozzles shall conform to cl 4.2.5 of NFPA 2001 and shall be of brass and shall be FM/UL approved		The offered discharge nozzles will have LPCB approval as our offered "INERTECH" Inert gas system is LPCB approved. Kindly confirm.	Please follow specification.
20	Clause no-11.1.30 (d)			A control box /clean agent panel shall be provided for manual control at the exit doors of each risk area comprising of selector switches for selection of main/reserve and auto/manual push button for clean agent release.		The system with a control box /clean agent panel for manual control at the exit doors of each risk area comprising of selector at the exit doors of each risk area comprising of selector switches for selection of main/reserve and auto/manual push button for clean agent release is recommended for Individual system and not for Centralized system. Hence we will provide common gas release panel with same facility. Kindly confirm.	Please follow specification.