

REPLIES TO PRE BID QUERIES

PROJECT: 4 x 270 MW Manuguru

PACKAGE: Supply and Supervision of E&C for Inert Gas Extinguishing system

ENQUIRY NO. : T7B1Q93772

Sl. No.	Cl. No. of Tender Specification (PY51233, Rev 00)	Description	Bidder Queries	BHEL Replies
1	7, 7.1,VII		Please confirm if Main to standby is to automatic or manual only operation from panel by selector switch or both auto and manual.	Automatic and manual both as per Cl.7.1 and 9.1.6(iii)
2	7, 7.1,VIII		Here, it says both auto and manual. But is implied and not explicit in clause (7,7.1, VII) above.	Same as Sl. No. 1 above
3	7.9		First fill is supplied with main supplies. Any Gas Loss at site due to Temp/Storage is not covered in First fill and nor insurable.please confirm this.	Noted and confirm.
4	9.1.4		For AC/Ventilation tripping only potential free Contacts will be in our scope. All further cabling to the respective panel is in client scope. We recommend this delay to be 30 to 120 seconds as per client selection.	As per the clause, potential free contacts are not required.
5	9.1.4, ii		Here the main to standby is manual mode if 1st bank does not release. Normally second bank takes over as auto charge over if no signal of Gas Gone is received back to panel. Client to confirm . Manual release is also an option available but client to confirm <u>is Auto change over is required ?</u>	Automatic changeover is also required. Please refer cl. 9.1.6(iii).
6	9.1.4, iv		Installation nor civil is in vendor's scope. This Clause is not relevant. The cabling from FDA panel to gas release panel is not in scope as distance/location of FDA panle from Clean Agent Panel is not given.Please Confirm.	Noted. Please note that installation or civil works is in the scope of the bidder. Bidder may however, note that supervision of Erection & commissioning is in their scope. Bidder to note that the cabling from Gas release panel to all inert gas components/equipment like abort switches, manual release buttons, pre-discharge indicators and discharge indicators is in their scope. Bidder to also note that the cable between Fire Alarm panel and Gas Release panel is in bidder's scope. Bidder to also note that the location of Fire Aalrm panel is already indicated in drg. no: PE-DG-411-145-I401 (Refer sl.no. 6 of Common control room). In any case, for estimation purpose the cable distance between Fire Alarm panel and Gas Release panel to be considered as 100 mtrs.

7	10.1		TAC to extend of Inert GasSystem only is in scope. All other TAC requiremnt for plant and main FFS is not in our scope.	Noted. TAC approval of only Inert Gas extinguishing system is in the scope of the bidder.
8	10.13		All materials except pipes fittings and Gas Release Panel (conventional are local and from approved vendors). All Imports will be with OEM Certificate of Conformation and approval certificate only.(UL/FM/VDS/LPCB)	Noted.
9	11.4		Autocad drawing to be made available with Clear elevation and False floor above true ceiling area details.The pipe layout for routing to be approved before doing flow calculation.	Necessary drawings are already furnished as a part of annexures. AutoCAD drawings shall be made available during execution.
10	11.6		Please confrim all areas/ risks and cylinder room are in safe areas only. If any hazarderous areas please give details	Bidder may note that all risks and cylinder room are in safe area.
11			Bill of Material will be as per OEM approved system nomenlaterure. All enclosures in tender are indicative only.	BOM, datasheets & P&ID are subject to approval during execution.
12		Taxes and Duties	GST will be implicated from July 01, 2017. Kindly confirm the Taxes and Duties to be considered in line in GST.	The GST is applicable for the present tender and corrigendum will be issued separately.
13	Clause 2.7, page 3 of 46 of Technical Specification	Price Basis	Lump sum prices are quoted on the basis of tender specification and drawings. In case of any change in the tender specification and or drawings, prices will be adjusted accordingly.	Noted.
14	Clause 6.4, page 7 of 46 of Technical Specification	Cable, conduit and related erection hardware are included in Bidder's Scope of Supply.	We request BHEL to confirm the scope of cabling and location of Fire Alarm Panel supplied by others.	Bidder to note that the cabling from Gas release panel to all inert gas components/equipment like abort switches, manual release buttons, pre-discharge indicators and discharge indicators is in their scope. Bidder to also note that the cable between Fire Alarm panel and Gas Release panel is in bidder's scope. Bidder to also note that the location of Fire Aalrm panel is already indicated in drg. no: PE-DG-411-145-I401 (Refer sl.no. 6 of Common control room). In any case, for estimation purpose the cable distance between Fire Alarm panel and Gas Release panel to be considered as 100 mtrs.
15	Clause 6.10, page 7 of 46 of Technical Specification	Erection and Commissioning Spares are included in Bidder's Scope of Supply.	We request BHEL to provide the List of Erection and Commissioning Spares.	Erection & Commissioning spares shall be as per OEM/System designer's recommendations for successful erection & commissioning of the system at site.

16	Page 8 of 46 of Technical Specification	BOQ of Layout Drawing.	We clarify that this clause will be applicable for piping work only. Kindly confirm the same.	Bidder note that the margin of 10% over the total BOQ is applicable for both pipes and erection hardware including structural steel, fittings, brackets, U clamps, nuts & bolts, base plates, anchor fastners as per notes of Cl.6.
17	Clause 7.2 ,(ii), page 7 of 46 of Technical Specification.	The Design Pressure.....NFPA-2001	We request BHEL to confirm the Design Concentration will be suitable of Class A or Class- C Fire as per NFPA-2001.	Please refer Cl.9.1.1.(vii).
18	Vendor List	Vendor List attached with the specification does not include manufacturers for Inert Gas System.	Kindly provide name of manufacturers of Inert Gas System.	OEM for Inert gas extinguishing system components shall have UL/FM/Vds/LPCB approvals as per Cl.5.
19	Tender Drawings	Cross Section Drawings of various rooms to be protected with Inert Gas System are not available. The drawings are required to estimate volume of each room.	We request BHEL to provide the cross section drawings.	Necessary drawings are already part of the annexures(Drg. Nos: PE-DG-411-145-1401, PE-DG-411-100-M003, PE-DG-411-100-M004, PE-DG-411-100-M005 & PE-DG-411-100-M006) for your estimation.
20	Clause 9.1, page 18 of 46 of Technical Specification and Drg No PE-DG-411-145-1401.	We understand that Man Machine Interface (MMI) Room is same as Common Control Room indicated in the drawing.	We request BHEL to confirm the same.	Man Machine interface room is same as Common control room.
21	4.7.	The dimensions of the cylinder room (20m x 5m) for each inert gas extinguishing system is already finalized and cannot be changed now. Bidder to select the system (as per NFPA- 2001 guidelines) to which while meeting the intended requirement as per the specification and shall be properly housed in the inert gas cylinder room. Adequate space for Operation & Maintenance of cylinder shall also be considered while selecting the inert gas system.	Please specify the location	Please note that the location of cylinder room is already specified in the drawings furnished. Please refer drg. No: PE-DG-411-100-M003,R02 furnished with the annexures.
22	6	BIDDER'S SCOPE OF SUPPLY	Please provide the following : a) Dimension of each protected room (i.e. length x breadth x height) b) Sectional detail c) False ceiling detail d) A/c , ventilation layout e) Beam Layout	Dimensions and false ceiling details of the protected rooms are already available in the drawings furnished along with the annexures. AC ducting layout shall be made available during execution stage.
23	7.3	Pipes, Fittings & other Operating devices	Please provide the detail specification & type	The components shall be as per NFPA-2001.
24	7.3	Valves	Please provide the detail specification & type	The components shall be as per NFPA-2001.

26		Make List	Please provide the make list for following item : a) Inert Gas system 2) Gas release panel 3) Control cable 4) Power cable 5) Interface module 6) Pre discharge indicator 7) Discharge indicator	OEM for Inert gas extinguishing system components shall have UL/FM/Vds/LPCB approvals as per Cl.5. For other items makes shall be as per sub-vendor list furnished along with the annexures.
27		Wall opening for pipe as well as pressure relief vent	Please confirm that the same would be in the present scope	Bidder to note that the wall opening details for pipes and pressure relief vents shall be provided by them during execution stage. However, the provision for the same shall be made by BHEL.