

REPLIES/ CLARIFICATION TO Prebid Technical Queries NCTPP (2 x 490 MW) DADRI STAGE-II(FGD SYSTEM PACKAGE)		
S.No.	Clarification / Comments	BHEL Reply
1	The quantity of multi criteria detector stated in the Annexure-12 of PY51354 (which is 400+10=410 nos) is not matching with quantity stated in the Annexure-4 of PY51354 (shown as 250 nos).So please confirm which quantity shall we consider in our offer.	Please consider the quantities as per annexure 4. However, updated annexure 12 is attached along with pre bid replies.
2	The item 'Heat detector' & 'Beam detector' is present in Annexure-4 of PY51354 (in SI No - 7.0 & 8.0) whereas this two detectors are not present in the Annexure-12 of PY51354.So please confirm us shall we consider this items within our scope of work.	Please consider the quantities as per annexure 4. However, updated annexure 12 is attached along with pre bid replies.
3	Against SI No - 9.4 of Annexure - 2 of PY-51534 of Deluge valve data sheet it is stated that 'Isolation Valve at upstream and downstream of deluge valve shall be provided'. Please confirm us shall we consider the rates of 'isolation valves' in the unit rate of 'Deluge valve' since the item isolation valve is present in the Price Schedule / BOQ as separate item.	Isolation valve is already taken care in the BOQ. Bidder shall not combine isolation valve unit rate in deluge valve unit rate. Bidder to quote as per BOQ line items.
4	Against SI No - 9.9 of Annexure - 2 of PY-51534 of Deluge valve data sheet it is stated that 'Housing shall be provided for DV and its accessories'. Since DV housing is a part of civil works the scope of "DV housing' should be excluded from our scope of work. Please confirm.	Bidder understanding is correct.
5	Please note that since 5000 Mtr LHS cable is present in your BOQ, separate monitor module should be present for zoning of LHS cable. But the item 'monitor module' is not present in the BOQ. Please clarify.	Noted. Please find the upadted Annexure-4 (Rev-01).

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S.No.	Spec. Ref. Cl. No.	Description	Clarification / Comments	BHEL Reply
1	PY51354 Page 6 of 15 Clause No:4.2	Plot plan	As per specification,Annexure-14 not enclosed with the tender document. Please provide the same	Noted. Same is enclosed with the replies
2	Annexure-11 Schematic diagram of Fire Detection and Alarm system D.No:PY-FL-1-M103-8316-01-Rev 00	Existing Fire alarm Panel	1) Provide the Existing FAP make & Model. Also confirm the location of this FAP to consider the Cable quantity. 2) Confirm us location of Control Module in Third Loop which is interfaced with the existing FAP.	The interface with existing fire alarm panel shall be through potential free contacts. Hence, the make of the existing fire alarm panels is not required for interfacing. Cable quantity for interfacing new panel with existing panel is already indicated in annexure 4 of tender specification. However, it may be noted that Main fire alarm panel (existing panel) is located in main control room of TG building. The same is already indicated in the Schematic diagram of Fire Detection and Alarm system. The control modules required for interfacing with main fire alarm panel are located in FGD control room.
3	Specification PY51354 Page 8 of 15 Clause No:8.4	Redundant Power Supply	Since the Existing FAP make & model is not available in the Tender document, we can quote the FAP's Power Supply as per OEM standard only. Hence please Confirm Redundant Power supply requirement in Fire Alarm Panel. However, FAP shall offer with 2 X 100% battery backup to ensure the Power supplies in the FAP.	Existing FAP make and model doesn't have any impact on power supply. Hence bidder need not match with existing make. Bidder to quote as per tender specification.
4	Specification CS-6130/0330-109-9 Annexure 13A , Clause No:5.16.00 Page 13 of 18	LHS Cable	Confirm the MOC of LHS Cable in Cable Galleries(PVC braided or SS Braided), as SS braided mentioned for Conveyors	MOC of LHS cables shall be:- 1) for conveyors :- PVC insulated with SS braiding 2) for cable trays :- PVC insulated
5	Annexure-4 of PY51354, Page 1 of 4, SL.No-8	TAC Approval	1)Please note that TAC approval is issued for the FDA system engineering. Since Engineering is not in Bidder scope, TAC approval is not applicable in Bidder scope. 2)List out the necessary documentation required for TAC approval for bidding purpose.	1) Noted. 2) All the required documents were identified in the MDL (annexure 10). However, any product specific documents if required shall be furnished by bidder during detailed engineering.
6	Annexure-4 of PY51354, Page 1 of 4 ,SL.No-12	Software License valid for Life time	As per Specification & BOQ, we have considered Software license for PC only (as per BOQ SL.No-05). However, Please confirm the graphics software requirement for FAP enable to bidding the same.	FDA graphics software along with PC software shall be included in bidder scope. All these softwares shall have licences valid for Life time

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Sl No.	Clause No:-	Description as per specification	Queries by bidders	Reply by Client/ Consultant
A	General and Mechanical			
1	Annexure-3	BOQ for Water Based Fire Protection System	Prices quoted by us are based on the quantities furnished in the BOQ. Variation in quantities, if any, will be adjusted on Unit Rate Basis.	Noted.
2	Annexure-4	BOQ for Fire Detection and Alarm System	Prices quoted by us are based on the quantities furnished in the BOQ. Variation in quantities, if any, will be adjusted on Unit Rate Basis.	Noted.
3	Annexure-5	BOQ for Portable Fire Extinguishers	Prices quoted by us are based on the quantities furnished in the BOQ. Variation in quantities, if any, will be adjusted on Unit Rate Basis.	Noted.
4	Annexure-6	List of Special Tools and Tackles	Prices quoted by us are based on the quantities furnished in the BOQ. Variation in quantities, if any, will be adjusted on Unit Rate Basis.	Noted.
5	Annexure-3	BOQ for Water Based Fire Protection System		
		Quantity of various type of valves have been mentioned in the BOQ	We request BHEL to confirm that cost of companion flanges, nuts, bolts and gaskets will be included in the cost of valves OR it will be payable extra as mentioned in the BOQ.	Please note that cost of companion flanges, nuts, bolts and gaskets shall be excluded from cost of gate valves as mentioned in BOQ.
B	Fire Detection and Alarm system			
1	Document PY51354, clause no 8.4, page no 8 of 15	One set of 24V DC redundant power supply system comprising of 2 x 100% chargers and 1 x 100% batteries shall be provided for fire alarm panel. The batteries for fire alarm system shall be sealed maintenance free lead acid type	As per this clause redundant Power supply system is indicated however as per Annexure-11, Schematic diagram for Fire Alarm & detection system only 1 set of 24 V DC power supply system comprising 2 x 100 % charger with 1 x 100 % SMF battery indicated. Kindly clarify.	Bidder to proceed as per cl. No. 8.4, pg. 8 of 15 of contract specification PY51354.
2	Document PY51354, clause no 8.3, page no 8 of 15	Purchaser shall provide the power supplies for FDA system as per scope markings indicated in Annexure – 11 of this specification. Further conditioning & distribution within Fire alarm Panels & HMIs shall be in bidder scope. Bidder to consider Power supply unit with battery along with spike arrester cum distribution board for extending power supply to PC (CPU, Monitor) & Printer.	We request to provide UPS Power supply to each bidder supplied Fire Alarm panel and Repeater panel.	Only normal power supplies as indicated in the Schematic diagram of Fire Detection and Alarm system (PY-FL-1-M103-8316-01-Rev 00) shall be provided by BHEL.

3	Annexure-11, Schematic diagram for Fire Alarm & detection system	Existing Fire Alarm Panel (NTPC Scope)	We understand control cable indicated in drawing for interfacing bidder supplied Fire Alarm Panel to Existing Fire Alarm Panel (NTPC Scope) through Control Modules are covered in Bill of material -Fire Detection & Alarm System, Annexure-4 for PY51354 S. No 23. Also confirm that additional hardware in the existing NTPC panel will not be in our scope.	Bidder understanding is correct.
4	Bill of material -Fire Detection & Alarm System, Annexure-4 of PY51354 , S. no 6,7 and 8		1-Quantity indicated for Multisensor detector with base at S. No 6 is 250 however as per Annexure-12 for PY51354 S. No 1 & 2 total 410 Quantity is mentioned. Kindly clarify. 2-Quantity indicated for Heat detector with standard base is 6 No however as per Annexure- 12 for PY51354 there is no Heat detector. Please clarify. 3- Quantity indicated for Beam detector with standard base is 6 No however as per Annexure- 12 for PY51354 there is no Beam detector. Please clarify.	Please consider the quantities as per annexure 4. However, updated annexure 12 is attached along with pre bid replies..
5	Bill of material -Fire Detection & Alarm System, Annexure-4 of PY51354 , S. no 1 and 25		Please provide technical specification for items indicated in respective clause to estimate Price.	Fire Alarm Panel (Sl. No. 1 of Annexure-4, PY51354) - Tehnical requirements are listed in Annexure 13. Bidder to note that as per cl. 4.2 and note 3 of cl.. No. 9 of tender specification, engineering and networking of panels, networking of PC with fire alarm panel etc. is in bidder scope. Accordingly bidder shall decide the type of fiber optic cable. However, for additional information Fiber Optic Cable ((Sl. No. 1 of Annexure-4, PY51354) - technical requirements are attached along with pre bid replies.
6	Annexure-8 of PY 51354 (Sub-vendor List)		Please provide approved vendors for below items as same is not mentioned in respective clause- 1- Deluge Valve local control Panel 2- Control & Power cable 3- Instrument fittings 4- Cable Gland 5- LHS cable 6- Fibre optic cable	1) Refer sl. No. 16 of annexure 8 for vendor list of Deluge Valve local control Panel 2) Refer cable & gland vendor list attached along with pre bid replies. 3) 4) Refer cable & gland vendor list attached along with pre bid replies.. 5) Any make meeting the technical requirements as mentioned in the specification is acceptable subject to submission of valid PTR documents. 6) Refer cable & gland vendor list attached along with pre bid replies.