CORRIGENDUM-2

Ref: TPCODL/P&S/86/2020-21/Corrigendum/002

Dated: 23rd September 2020

Sub: Corrigendum-2 to Open tender number TPCODL/P&S/86/2020-21 for Rate Contract for Supply, installation, testing & commissioning (SITC) of addressable type fire detection and alarm system in 100nos of sub stations under Bhubaneswar, Cuttack and Puri circle of TPCODL

With reference to above the bidder are intimated to note the following intimations:

I. **TPCODL is sharing replies to Pre-Bid queries (Annexure-A) raised by all the bidders seeking clarification before the deadline date as mentioned in Event Calendar of Tender Document No. TPCODL/P&S/86/2020-21**

II. **It is here by intimated to all prospective bidders that TPCODL has decided to amend the Payment Terms for Tender No. TPCODL/P&S/86/2020-21. The details of such change is as follow:**

Tender No.	**Work Description**	**Existing entry towards Qualification Criteria -As per clause no. 7.1 (Terms of Payment) of above tender.**	**May be read as**
TPCODL/P&S/86/2020-21	**Rate Contract for Supply, installation, testing & commissioning (SITC) of addressable type fire detection and alarm system in 100 nos. of sub stations under Bhubaneswar, Cuttack and Puri circle of TPCODL**	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 10 sub stations, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 5 sub stations or on completion of complete order as per RO if it is less than 5 Substation, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects

Note:

I. All other terms and conditions of the above tender will remain same

By Order
Chief-Procurement & Store, TPCODL

ANNEXURE-A-REPLIES TO PRE-BID QUERIES

Sr. No.	Detailed Reference to Tata Power Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	TPCODL/P&S/86/2021 Cl: 7.1 Page: 14/173	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 10 sub stations, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects.	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 5 (five) substations, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 30 days of the receipt of the invoices complete in all respect. The requirement in this clause "complete in all respects" may please be clarified with respect to the process / documentation requirement. Further it may please be confirmed that the orders placed under the Rate Contract may be minimum for 5 substations to ensure a block of 5 substations are always available for installation and invoicing.	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 5 sub stations or on completion of complete order as per RO if it is less than 5 Substation, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects. Complete in all respect means the following: 1) Successful commissioning of the FDAS along with the integration of the same with existing SCADA (if applicable) 2) Successful commissioning means that the system can be kept operational fully after final testing of the system at site and the drawings/manuals/operating instructions/design reports related to that substation are handed over to TPCODL

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				engineer. Also the FDA system handing over report is to be signed jointly by TPCODL Engineer and bidder's representative.
2	TPCODL/P&S/86/2021 Cl: 7.2 Page: 14/173	The relevant drawings and layout plan need to be designed and submitted within two weeks of receipt of firm Rate Contract by the successful bidder to TPCODL for approval. In case, re-submission of drawings is required on request of TPCODL, same needs to be submitted back to TPCODL within 5 days of such request.	Noted & Confirmed subject to receipt of all input documents and drawings required for making layout and doing design work. TPCODL is requested to made the inputs available along with contract. This will include CAD format base drawings of the civil layout and reflected ceiling plans (if such reflected ceilings exist) as well as key plans of the substation plot with cable routing layout indicated therein.	After award of the contract, bidder is requested to conduct site visit and prepare sample schematic drawings (as most of the substations have similar layout) for the approval from TPCODL.
3	TPCODL/P&S/86/2021 Annex I, SL: 1 Page: 18/173	SITC of Main Fire ALARM Control Panel (Ul /FM /Ulc/Vds Approved)	Bidder understood that the Fire Alarm Panel for all the substations shall be of a single loop type.	Confirmed. Number of loops in the panel shall be 1 and the loop should be capable of handling at least 50 devices (combination of detectors, manual call points, control modules, monitor)
	TPCODL/P&S/86/2021: Technical Specs Cl: 5.6.2 Page: 54/173	Number of loops in the panel shall be 1		
4	TPCODL/P&S/86/2021: Technical Specs Cl: 4.1.6 Page: 50/173	The installing contractor shall contract with a single supplier for fire alarm equipment, engineering, programming, inspection and test and shall be	"UL Listing Certificate" will not be applicable for Vds approved FDA components.	The system shall have complete certification from a single entity.

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		capable of providing a "UL Listing Certificate" for the complete system.		
5	TPCODL/P&S/86/2021: Technical Specs Cl: 5.5.3 Page: 51/173	Exchanging Detectors: It shall be possible to exchange the detectors without needing to reprogram the control unit or powering off the Systems.	(a) Powering off the panel is not required to exchange the detectors. (b) To exchange with same type of detector, reprogramming of the control unit is not required.	Accepted. Exchange of the detectors with same type should not require to reprogram the control unit or powering off the Systems.
6	ANNEXURE I SCHEDULE FOR ITEMS 2 PAGE NO 19	SITC OF MAIN CONTROL PANEL HARD WARE REDUNDANCY WITH FULL FUNCTIONALITY	WHAT DOES IT MEAN AND SAME IS NOT BEEN GIVEN IN THE SPECIFICATION PAGE NO 53 / FIRE ALARM CONTROL PANEL 5.6.1 (Which spec we have to adhere)	Redundant fire alarm panel is not required. However, Bidder to adhere as per the specification required for redundancy.
7	Page 14 of 173 of tender document clause 7.1 SCC	Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 10 sub stations, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects.	Please amend payment terms on prorate basis and payment terms should be 80% against delivery and 20% against handover. Of each substations.	Not acceptable. Payment shall be made after completion of the installation work at site and acceptance by TPCODL for at least 5 sub stations or on completion of complete order as per RO if it is less than 5 Substation, BA shall submit the certified bills / invoices to the concerned department. Payment shall be released within 45 days of the receipt of the invoices complete in all respects

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8	Page 14 of 173 of tender document clause 7.3 Delivery timelines	Delivery of equipment	Please confirm what will be delivery location, whether materials required in one lot for all location or substation wise. As per payment terms we suggest delivery will be as per availability with 80% payment against delivery. Please confirm	The Tender is for Rate contract valid for one year. The Rate Contract does not create any commitment on part of TPCODL for the tendered quantity. Release Orders shall be placed against this Rate Contract as per the actual requirement based on stock position and utilization trend Bidders may use our sub-station locations for storage of their materials. However, TPCODL is not responsible for the security of the materials. Security of the materials is solely in bidder's scope. Bidder can decide delivery as suited to them (without hampering the commissioning schedule)
9	Page 14 of 173 of tender document clause 7.3 Delivery timelines	Delivery timelines	Please share substation wise schedule if available	We have planned to execute this Tender in this financial year, that is, before 31st March 2021. After the award of contract, Bidder has to prepare a schedule and deploy multiple teams (if reqd) to achieve the target.
10	Page 50 of 173 of tender document clause 5.2 SYSTEM DESCRIPTION AND OPERATION	Temperature Range: 0 to 50°C for detectors, control panel, electronics, MCP, sounder, cables etc.	As per UL guidelines thermal sensor should have an alarm temperature 14-25 °C higher than normal operating temperature. Thermal sensor activates at a temperature of 57°C, hence normal	Confirmed

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			working temperature should be 38°C. Please amend the clause to 38 °C.	
11	Page 50 of 173 of tender document clause 5.2 SYSTEM DESCRIPTION AND OPERATION	service life of 30 years.	Please amend service life to 10 years as this is normal life any safety equipment	Confirmed
12	Page 52 of 173 of tender document clause 5.5.6 GENERAL FEATURES OF FIRE ALARM SYSTEM (FAS)	MCPs shall have LED indication which	As per UL/NFPA guidelines there is no mandate of MCP's LED indication. This is OEM specific feature, Please remove this specification.	Confirmed
13	Page 52 of 173 of tender document clause 5.5.11 Reporting	The software running on the Fire Alarm PC shall be capable of producing alarm reports, diagnostic check reports, fault occurrence reports, layout graphics of the individual detectors, routing and location, especially when there is any alarm or occurrence of fault.	This clause is not applicable as reporting software is not part of BoQ	Graphics software is not required. The status of fire alarm panels and the detectors shall be accessible from SCADA (meeting requirements of the specification)
14	Page 55 of 173 of tender document clause 5.6 FIRE ALARM CONTROL PANEL	The fire alarm control panel shall include a PC interface for full programming of the fire alarm system. A security lock	Our system can be connected to PC through Ethernet for programming and Our panel password protected , hence dongle is not required.	Confirmed

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		(DONGLE) to be provided by the supplier to ensure that programming is done / altered by only authorized personnel		
15	Page 55 of 173 of tender document clause 5.6 FIRE ALARM CONTROL PANEL	Either inbuilt or external printer shall be provided to print the events.	Printer is not part of BOQ , please remove this specification	External printer is not part of BoQ
16	Page 57 of 173 of tender document clause 5.7 INTELLIGENT ADDRESSABLE FIRE DETECTORS	Operating Temperature: -20 deg C to 50 deg C	As per UL guidelines thermal sensor should have an alarm temperature 14-25 °C higher than normal operating temperature. Thermal sensor activate at a temperature of 57°C , hence normal working temperature should be 38°C. Please amend the clause to 38 °C.	Confirmed
17	Page 57 of 173 of tender document clause 5.7 INTELLIGENT ADDRESSABLE FIRE DETECTORS	All detectors shall also have an integral short circuit isolator, which in the event of a single cable fault will isol devices on the loop operationally.	As per UL/NFPA guidelines after every 15-20 addressable devices isolator is required, inbuilt isolator is not mandatory. We will provide normal Multicriteria detector. However we will place MCP, CM,MM with inbuilt isolator which can fulfill as per NFPA guidelines. Please clarify.	Confirmed
18	Page 58 of 173 of tender document clause 5.7	The detectors shall have built-in short circuit isolators.	As per NFPA guidelines after every 20 addressable devices isolator is required,	Confirmed

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	INTELLIGENT ADDRESSABLE FIRE DETECTORS		inbuilt isolator is not mandatory. We will provide normal Multicriteria detector. However we will place MCP, CM,MM with inbuilt isolator which can fulfill as per NFPA guidelines. Please clarify.	
19	Page 58 of 173 of tender document clause 5.9 ADDRESSABLE MANUAL CALL POINTS	outdoor mounting should be of IP65 rating.	Please confirm how many qty will be outdoor type for MCP.	MCPs are only of indoor type.
20	Page 59 of 173 of tender document clause 5.7 INTELLIGENT ADDRESSABLE FIRE DETECTORS	Response temperature 79 -88 deg C @ 1 deg C/min	As per UL guidelines response temperature should be at 57 °C (fixed type) or at 8 °C per minutes (rate of rise) for Multicriteria /heat detector. 79-88 is higher temperature which is unsafe for environment condition mentioned. Please clarify	Confirmed
21	Page 53 of 173 of tender document clause 5.5.17 Ethernet connectivity	Panel should have provision for Ethernet connectivity for connecting to PC based Fire Alarm management system.	For the requirement mentioned for 100 substations we recommend hard integration with SCADA through NO/NC contacts during alarm condition as Panel capacity is 10-12 devices per substation. Also BoQ does not calls for Fire Alarm software. Please clarify whether we can quote panel	Bidder to adhere to the specification for Data exchange with SCADA System i.e intelligent controller for data exchange. The panel must provide MODBUS/ RS485 port for integration with SCADA In addition to alarm reporting following features are also required: 1. Provision shall be made for resting the

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			with NO/NC output for integration with SCADA .	Alarms/Hooter, The Auxiliary contact for Manual Reset and SCADA Reset shall be independent. 2. Remote configuration and booting of the controller from SCADA system.
22	Page 54 of 173 of tender document clause 5.6 FIRE ALARM CONTROL PANEL	Intelligent controller shall be considered for data exchange with SCADA System. The controller shall support MODBUS (Serial) protocol and RS485 port for communication with Substation RTU. The cable requirement for communication with Substation RTU, laying, termination, and necessary support for configuration and testing with SCADA System will be in the scope of the bidder. The proposed system shall support all the specified zone considered in the scheme for SCADA reporting. Controller shall have	For the requirement mentioned for 100 substations we recommend hard integration with SCADA through NO/NC contacts during alarm condition as Panel capacity is 10-12 devices per substation. Also BoQ does not calls for Fire Alarm software. Please amend clause to RS-485 is optional. Please clarify whether we can quote panel with NO/NC output for integration with SCADA .	Bidder to adhere to the specification for Data exchange with SCADA System i.e intelligent controller for data exchange. The panel must provide MODBUS/ RS485 port for integration with SCADA In addition to alarm reporting following features are also required: 1. Provision shall be made for resting the Alarms/Hooter, The Auxiliary contact for Manual Reset and SCADA Reset shall be independent. 2. Remote configuration and booting of the controller from SCADA system. In addition bidder shall consider the scope as mentioned in the specification for SCADA integration, configuration, testing and handing over.

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		adequate internal health monitoring features for reporting to SCADA System.		
23	Page 54 of 173 of tender document clause 5.6 FIRE ALARM CONTROL PANEL	Main fire Alarm panel shall have floor mounting with IP55 Enclosure.	As the panel is going to be use in indoor environment , hence please amend clause to IP55/NEMA 1 enclosure.	IP55 is mandatory
24	Page 54 of 173 of tender document clause 5.6 FIRE ALARM CONTROL PANEL	The FACP display shall have minimum of 4 line x 40 character alpha numeric LCD type (160 characters). All alarm, fault and status monitoring of all the devices should be possible from the fire alarm panel display.	Size of display varies OEM to OEM. We suggest this specification should be as per OEM but size should be such that it can be used easily. Like 7-line X 26 character may be acceptable. By using this panel user won't feel any difference w.r.t mentioned specification. Please clarify.	Confirmed
25	Page 19 of 173 of tender document Annexure-I	The panel should be modular, decentralized, with CPU /master control unit, loop cards, relay and interface card by means of duplicated electronics means hardware redundancy with full functionality.	We recommend to amend clause The panel should be modular, decentralized, with CPU /master control unit, loop cards, relay and two circuits for connecting loop cable. There will be two class B circuits in fire panel. In case of failure of one another can be used.	Redundant fire alarm panel is not required. Bidder to adhere as per the specification required for redundancy.