

Tender No TPCODL/P&S/100000215/22-23

Project Name Rate contract for Supply, Installation, Testing and Commissioning of 33KV/11KV Power System Control & Relay Panel

Sr. No.	Detailed Reference to TPnODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Reply
1	2	3	4	
1	1.7.d / QR / Pg. 14 / Pg. 8	In case the bidder is a panel manufacturer, bidder shall arrange for factory evaluation/ predispatch inspection/ routine and acceptance tests at OEM works,	Please elaborate the requirement in detail	For outsourced products panel manufacturer need to arrange for factory evaluation/ predispatch inspection/ routine and acceptance tests in arrangement with OEM of the outsourced products.
2	7.1.6 Delivery Schedule / Pg. 14 Drawing Submission and Approval / Pg. 15	Delivery period for supply of material shall be approx. 120 days from manufacturing clearance given by TPnODL. BA shall submit the GTP/ drawing within 2 weeks days from PO	We request for delivery period to be 20 weeks from manufacturing clearance and GTP/Drawing submission from 4 weeks from PO	Delivery period shall be not more than 120 days from date of manufacturing clearance from TPCODL. GTP/Drawing to be submitted within 2 week from date of receipt of RO.
3	1.0 / Scope / Pg. 23 Price Schedule	Price Schedule -- Supply of CRPs TS - Scope includes SITC	We understand scope includes Supply only for CRPs as per the price schedule. Any kind of site services are excluded from bidders' scope. Please confirm.	The Tender is not only for supply but for testing, commissioning also Commissioning means integration with existing SCADA.
4	General	simplex type control and relay panels, with mimic & annunciation panel for 33kV system as per TPnODL specifications ENG-EHV-105 & ENG-EHV-106	We understand that panels will be supplied with BCPUs so there is no requirement of mimic & annunciation on Panels. Please confirm.	Only BCPU is required. Transformer CRP will include additional differential protection relay
5	ENG-EHV- / CRP TS / 16.0 Ethernet Switches	v)Supply of 1 Nos. of Industrial Grade Ethernet Switch with 12 port	We understand there is no requirement of Ethernet Switches in this tender, hence mentioned clause is not applicable. Please confirm.	Not required
6	Annexure 1 - Price Schedule - supply Item 2	CR Panel for TFR Protection for 33KV VCB,	We understand the requirement is for supply of 33kV HV side protection & control only under this line item. Please confirm.	For complete detail, PI refer revised specification "Specification for 33 & 11KV Substation Protection System", "Protection for 11kV/33kV Power Transformer"
7	ENG-EHV- / CRP TS / 2.0 Applicable Standards - 8, 9, 10, 11 ENG-EHV- / Relay TS / 2.0 Applicable Standards - 12, 13, 14, 15	IEC61850-9-2, Merging Units, Digital Interface for Instrument Transformers, PTP/IEEE1588 etc	Standards mentioned under these clauses pertains to Process Bus Solutions. We understand process bus solution is not a requirement for this tender hence mentioned standards are not applicable. Please confirm.	Not required
8	ENG-EHV- / CRP TS / 4.2/4.3 Fiber Optic Cables / CAT 6 Cables ENG-EHV- / Relay TS / 4.3/4.4 Fiber Optic Cables / CAT 6 Cables	Fiber Optic Cables and CAT 6 Cables	Since this a loose CRP tender, supplying unquantified communication cables is not possible. Please exclude from the scope of work.	Not required

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9	ENG-EHV- / CRP TS / 5.12 Energy Meters	Energy Meters and integration with software	We understand there is not requirement of Energy Meters in PSS CRPs and accordingly there is no needs for any sort of integration. The mentioned clause is not applicable. Please confirm.	MFM to be supplied. The protocol will be modbus rtu
10	ENG-EHV- / CRP TS / 5.4 Panel Internal Wiring	Suitable contactor arrangement to be made in 33 KV line incomer panel/ 11 KV incomer panel so that in case of station DC failure the power pack driven by PT circuit powers up the relay and tripping circuits and keeps protection in service.	We understand requirement is to provide suitable contactor arrangement to take power from Power Pack. Supply of power pack is not in bidder's scope. Please confirm.	Not required for CRP
11	ENG-EHV- / CRP TS / 11.0 Warranty ENG-EHV- / Relay TS / 8.0 Warranty	In the event any defect is found by the Company up to a period of 60 months from the date of commissioning In the event any defect is found by the Company up to a period of 84 months from the date of commissioning	We are proposing warranty of 60 months from commissioning or 66 months from supply whichever is earlier against manufacturing defects. Please accept.	As per specification.
12	ENG-EHV- / CRP TS / 16.0 Spares ENG-EHV- / Relay TS / 15.0 Spares	16.0 Spares, Accessories and Tools:- 16.0 Spares, Accessories and Tools:-	As this is loose CRP tender, so any kind of additional spares not mentioned in price schedule are not applicable. Please confirm.	20% spare as per specification for everything, this includes spares of TB, lamp, mcb etc except control cable.
13	Revised Spec CRP / 4.2 (PDF page -6 of 31)	The display should have minimum 4 pages to cater sequential values (positive, negative and zero) of voltages and current along with other important displayable parameters like total harmonic distortion of electrical parameters..	Our proposed relay shall support only harmonic measurement for Voltage and current through disturbance recorder which can be triggered manually. Pls note that, THD shall not be measured in DR, since this is Power quality requirement which needs CT input from Metering core as per general recommendation , but relays works from Protection core (PS class/5P10).please confirm	THD is not required in DR.
14	Revised Spec CRP / SNMP: (PDF page -9 of 31)	Web HMI should be made available in the relay so that relay can be accessed from remote from computer browser.	Our proposed relay will be offered with license free software which can be used in any PC which is connected in the network to communicate to Relay using IP address.in this way it meets the requirement of web based HMI	As per specification.
15	Revised Spec CRP / Diagnosis capability of IED: (PDF page -7 of 31)	Forcing of all kinds of protection functions	In our proposed relay O/P contacted can be forced for testing purpose.	OK

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16	Revised Spec CRP / Oscillography: (PDF page -7 of 31)	Transient play back facilities in the IED software	Trnsient playback can be performed in any suitable type of test kit like Omicron CMC 356 etc.	we are talking about this facility only in IED software and not any simulation of comtrade file in relay through secondary injection kit, please comply
17	Revised Spec CRP / 4.4.6: (PDF page -12 of 31)	Automatic power factor controller module embedded in the IED for auto switching of breaker shall take into consideration the bus voltage & pf. 11KV I/C current Input to the Neutral current unbalance IED shall be from CT installed on the connection between two star points of the capacitor bank.	Please confirm wheether separate Automatic power factor controller module will be accepted.	Not required
18	Revised Spec CRP / 4.4.xii: (PDF page -14 of 31)	The data from DR function shall be available in IEEE/COMTRADE format and shall be compatible with the dynamic IED test system being supplied under this Contract.	We understand that this project is for supplying loose CRPs only, and any type of Relay Test System is not applicable in this project. Please confirm.	Not required
19	Protection IED Specification Pg No. 15 of 30	Device order code of 11kV IEDs (BCPUs & PUs) must have same order codes irrespective of panel types for better IEC61850 project management and one to one replacement. For 11kV panels both BCPU and PU order code will be the same. Device order code of 33kV BCPUs must have same order code for better IEC 61850 project management and one to one replacement.	Ordering code shall be same for offered BCPU IED relay for both 11kV & 33kV CRP, however PU IED transformer differential ordering code shall be different for 33kV Transformer protection panel, Pls confirm	Obviously transformer differential relay order code will be different from any other IED
20	Protection IED Specification Pg No. 27 of 30	Spares, Accessories and Tools	Exact Spare relays quantity is not cleared, kindly clarify	tender specific 20%
21	-		Annunciator, Mimic, Semaphore requirement not specified. Please confirm whether same is required or not, if required please provide details of same.	Not required
22	-		Please specify the communication protocol for energy meter.	Only MFM is required on modbus RTU
23	-		Whether Differential Relay is to be provided or not for Transformer protection panel. Pls confirm	For transformer panel only we need transformer differential proteciton relay, mentioned in spec also
24	-		Kindly provide the details for Ammeter, Voltmeter	Not required
25	-		Kindly confirm the overall dimension of Panel (Height x Width x Depth)	2300X800X800 Approx (mm)