

REPLY TO TECHNICAL AND COMMERCIAL PRE-BID QUERY
Tender No TPSODL/OT/2021-22/011
Package Name Rate Contract for Supply and installation of Numerical Relays

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	Annexure II-Technical Specification	Enclosure protection shall be IP54 from front and IP 20 from rear	IP52	At presetty all Existing Relay installed at outdoor Panels only . So Specification need to be met.
2	Annexure II-Technical Specification	Fascia: The fascia of the IED should have a clear and bright LCD display where SLD can be seen clearly of the respective bay	No mimic display. We have a small LCD display for to view relay seetings and parameters	Fascia has to be LCD display, LCD display shold have clearly showing the feeder related electrical Parameter respective bay .
3	Annexure II-Technical Specification	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.	THD not available	ok.
4	Annexure II-Technical Specification	The sampling frequency should not be less than 32 samples/ cycle.	24 samples/cycle	ok
5	Annexure II-Technical Specification	There should be feature for digital/ binary input sensing delay in the relay which can be adjusted through the software and relay fascia.	Fixed delay 10ms when filter on	ok
6	Annexure II-Technical Specification	IED SNMP shall be made available in each IED.	Not Available	ok Agreed . But Relay Should be SCADA Compatible and 2 number rear port RJ45.PRP and latest redundant technology.
7	Annexure II-Technical Specification	Web HMI should be made available in the relay so that relay can be accessed from remote from computer browser.	Not Available	HMI or through Laptop installed system Software shall be suitable for down load the all setting and D.R and Event .Relay Should be Scada Compatible with RJ45.The same shall be interfaced to micro SCADA through RJ45 (PRP). PRP and latest redundant technology .
8	Annexure II-Technical Specification	600 Events	512 events	ok
9	Annexure II-Technical Specification	Virtual simulation of all kinds of protection functions (while relay is online and working and in service)	Not Available	ok.
10	Annexure II-Technical Specification	Relay should be reboot from the relay key and through software also	Not Available	When the relay Configuration and programming load to relay through software , relay reboot , during reboot condition relay any protection should not maloperated.
11	Annexure II-Technical Specification	Device to have minimum 3 level of security with user ID and password protection to access device from configuration, parameterization, accessibility, 61850 configuration & event or oscillography downloading Software restart facility for the device	Device to have minimum 4 level [Viewer, Operator, Engineer, Administrator] of security with user ID and password protection to access device from configuration, parameterization, accessibility, 61850 configuration & event or oscillography downloading Software restart facility for the device	ok .

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response												
12	Annexure II-Technical Specification	The relays provided should comply with Indian or international standards of cyber security like NERC CIP / BDEW / IEEE 1686 or equivalent for cyber security to provide protection against unauthorized disclosure, transfer, modification, or destruction of information and/or information systems, whether accidental or intentional.	The relays provided should be in line with the international standards of NERC CIP/ BDEW / IEEE 1686 or equivalent for cyber security to provide protection against unauthorized disclosure, transfer, modification, or destruction of information and/or information systems, whether accidental or intentional. The relay should have Role Based Access Control for proper authentication and Security Event log based on Syslog.	ok.												
13	Section: General Construction of IED (PDF page -24 of 156) 4.2	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 proposd 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	OK. Relay required Protection Core PS/5P10 Class.												
14	Section: General Construction of IED (PDF page -29 of 156) 4.2	Web HMI should be made available in the relay so that relay can be accessed from remote from computer browser.	Our proposd 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	HMI or through Laptop installed system Software shall be suitable for down load the all setting and D.R and Event .Relay Should be Scada Compatible.												
15	Section: General Construction of IED (PDF page -34 of 156) 4.2	Forcing of all kinds of protection functions & Transient play back facilities in the IED software. Transient play back facilities in the IED software. Virtual simulation of all kinds of protection functions (while relay is online and working and in service)	In our proposed relay O/P contacted can be forced for testing purpose. Trnsient playback can be performed in any suitable type of test kit like Omicron CMC 356 etc.	Ok .												
16	Section: General Construction of IED (PDF page -26 of 156) 4.2	<table><tr><th>Voltage Level</th><th colspan="2">Conventional Substation</th></tr><tr><td></td><th>BCPU</th><th>PU</th></tr><tr><td>11kV</td><td>BI-20 BO-10</td><td>BI-20 BO-10</td></tr><tr><td>33kV</td><td>BI-24 BO-12</td><td>BI-16 BO-10</td></tr></table>	Voltage Level	Conventional Substation			BCPU	PU	11kV	BI-20 BO-10	BI-20 BO-10	33kV	BI-24 BO-12	BI-16 BO-10	Please confirm requirement of BI & BO of relays in tender .. In page number 27 of 156 requirement is Binary Input-24 & Binary Output-12.	As per Specification. BI and BO required for SCADA Application. Which is consider other equipment like Isolator/earth switch/Transformer Trouble will be interface with relay BI/BO as per Scheme.
Voltage Level	Conventional Substation															
	BCPU	PU														
11kV	BI-20 BO-10	BI-20 BO-10														
33kV	BI-24 BO-12	BI-16 BO-10														
17	Section: General Construction of IED (PDF page -29 of 156) 4.2	Forcing of all kinds of protection functions	In our proposed relay O/P contacted can be forced for testing purpose. Testing of protection function can be performed in any suitable type of test kit like Omicron CMC 356 etc.	Ok.												
18	Section: General Construction of IED (PDF page -35 of 156) 4.2	Being new installation or retrofitting activity there should be always presence of OEM engineer though OEM or any party may put in third party for the said job.	Please confirm list of station where all 110 relays need to be retrofit with qty wise and dimentions of blanking plates with colour code need to supplied during retrofitting.	110 number of relay retrofit to TPSODL PSS in all 6 Circle . city/Berhampur/Aska/Rayagada/Jaipore/Bhanjanagar .												
19	Section: Fibre Optic Cable (PDF page -35 of 156) 4.3	Between Control Room and Switchyard/Switchgear Room: 4 Core, 62.5/125µm Multi-mode, Loose tube, Jelly filled, Armoured Fiber Optic Cable Within Control Room: 2 Core, 62.5/125µm Multi-mode Fiber Optic Patch Chord.	Please confirm supply and laying of fiber optics cable is in scope of bidder. if yes please share length of cable consider per station	4 Core, 62.5/125µm Multi-mode fibre Optic cable not in BA Scope.												

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
20	Section: CAT – VI 4.4 (PDF page -35 of 156)	4 Pairs, 23 AWG Solid Bare Copper Conductor, PE Insulation, Unshielded Twisted Pair (UTP) with separator and PVC Outer Jacket It should be designed to the ANSI/TIA-568-C.2 ISO / IEC 11801 Category 6 requirements and transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet).	Please confirm supply and laying of CAT-VI cable is in scope of bidder if yes please share length of cable consider per station & total mtr of cable to be supplied in this project.	CAT-VI cable supply and lying is not B.A Scope.
21	Section: Guarantee/Warranty Details clause no. 8 (PDF page -41 of 156)	In the event any defect is found by the Company up to a period of 84 months from the date of commissioning supplier all be liable to undertake to replace/rectify such defects at his own costs within the mutually agreed timeframe, and to the entire satisfaction of the Company, failing which the Company will be at liberty to get it replaced/rectified at supplier's risks and costs and recover Any such expenses plus the Company's own charges (@ 20% of expenses incurred), from the supplier or from the "Security cum Performance Deposit" as the case may be.	Our Supplied Numerical Relay will have Guranantee/warrantee of max 5 years from date of supply. Supply of cable etc(if applicable) will have standard warranty period as per 3rd Party Manufacturer standard. Please accept the same.	As per Spec Guarantee / Warranty Required.
22	Section: Scope I, Page 20 of 156	Sl no The scope of this specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading of IEDs and all other items & tools required for protection of 33Kv and 11kV power system as mentioned in the specification, at site/stores complete with all accessories including supply, installation, testing and commissioning of efficient and trouble free protection system.	Our scope is limited to supply of Siemens Make Numerical relay & Retrofit, testing commissioning of Siemens make relay. Unloading, storing of relay is not in our scope. Kindly confirm.	Unloading Storing of relay TPSODL Scope. Remaining Removal of Existing Relay or Faulty Relay From Existing panel. 2) Bidder make Necessary Cutout or modified Existing relay Cutout as per B.A Supply Relay , Realy fixing , Control Wiring / CT, PT Wiring up to relay , Testing and commissioning , Relay Contact trip checking up to C.B in B.A scope.

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
23	Section: ITC Anneure-I, Page 14 of 156	Installation, testing & commissioning	Our Installation, testing & commissioning of work will be limited to as follows : Dismantling of existing equipment and the associated wirings, Mounting of new supplied SIEMENS relay, Supply & installation of Blanking plates, All wirings related to relay retrofit & scheme development, Preparation of Drawing including as build drawing in Autocad/equivalent, relay settings as per TPSODL data, supply of Loose wiring materials, TB , Ferruling etc. required to complete the retrofitting job, testing of relay during commissioning with secondary injection kit, boarding, Lodging & Travelling charges of our engineers/authorised vendors engineers. Any wiring outside the control/feeder panel or interpanel wiring, supply of cable glands etc is not in our scope. Kindly confirm.	Any wiring outside the control/feeder panel or interpanel wiring not in B.A Scope. But Retrofit related any wiring it is in B.A Scope.
24	Section: Training 11(PDF page -41 of 156)	The successful Bidder all provide training for relay configuration with goose messaging at supplier's works/ users location - 4 persons 3 days minimum to Engineers before dispatch. Venue of the training all be Bidders works or TPSODL Office and same all be finalized by TPSODL at the time of project closure/completion of SAT. The training all cover Engineering configuration of the IED, IED setting calculations, uploading/downloading, secondary injection testing on computerized IED testing kit, checking of DC logic etc. No extra charges all be payable for training However, lodging/boarding/transportation	Please confirm training of TPSODL engineer for 4 persons 3 days is at site or at bidder's place .	At Site training Required .
25	Section: Spares, Accessories and Tools Clause no.15, page-43 of 156	Bidder all conform to the following guideline to mitigate failure. To provide immediate support in case of failure of IED. The Bidder all always maintain 2 Nos. of IEDs as spare at their India office/ TPSODL office. • Bidder all report to site within 48 hours of receipt of reporting of the failure occurrence. • Bidder all provide replacement of the	We will not be able to keep additional 02 nos spare at Siemens office/TPSODL office for this project. It is always recommended to buy the additional spare separately from manufacturer based on need to avoid additional commercial loading.	B.A supply relay,during retrofit job if suppose to faulty occurred immediately Changed with new relay as per TPSODL Specification.It may be helpful for to avoid unavailability of feeder.
26		• Bidder all report to site within 48 hours of receipt of reporting of the failure occurrence. • Bidder all provide replacement of the faulty IEDs within 7 days after confirmation of the fact that the IED can't be repaired at site.	We will provide online support within 48 working hours of receipt of reporting of the failure occurrence. If problem has not solved after online support, then Manpower will be deputed within 7 working days. However, deputaion of manpower depends on local lockdown/Pandemic etc. In case of manufacturing defect, faulty relay will be repaired during warranty period within 30 days of receipt of relay by Siemens. Faulty Relay will be replaced only when it is beyond repairing within our warranty period & due to manufacturing defect .Kindly confirm.	As per specification its required.In case of Lockdown / Pandemic situation little bit we can give relaxation to B.A .But Normal situation BA should follow the Specification.
27	Section: Special Conditions of Contract Clause no.7.1, page 14 of 156	Delivery period shall be 60 days from date of receipt of release order / CAT-A issuance whichever is later.	Delivery will be 14-16 weeks from date of receipt of release order / CAT-A issuance whichever is later.	As per Specification it is required.

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
28	Section: Price Schedule Clause no.1.6.3, page 7 of 156	Price Bid as per the Price Schedule mentioned in ANNEXURE-I	Price bid schedule is missing in the document. Requesting you to please provide the same.	
29	Section: General Construction of IED (PDF page -26 of 156) 4.2	There should be minimum 4 power contacts to handle high current rating applications. The current rating of the power contacts to be provided by the bidder. Programming of outputs can be done freely both from software and relay fascia	All contact is with offered relays carry contact rating of 30 A for .2 sec and 5 A Carry continuously	Ok . Higher Current Rating its acceptable.
30	Payment Terms	100% payment shall be released on delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of Tata Power Company Limited to Invoice Desk and same shall be paid within 45 days from the date of receipt of material and quality clearance at TPSODL's end. 100% payment shall be released within 45 days from the date of ITC with the submission of certified invoices / bills. EIC shall certify the invoices / bills	Request you to make the supply payment within 30 days from the receipt of the materials . For ITC within 30 days from the completion of ITC	no change
31	Liquidated Damages	Liquidated damages @1% of the total executed contract value per week or part thereof, for the period of delay in integrated completion, subject to maximum 10% of the value of the contract	LD @ 0.5 % per week to Max 5% on the undelivered Portion. Please confirm	Yes
32	Cancellation		Cancellation should be either mutual consent of both parties. Please confirm	As per terms and conditions of tender