

FORMAT B.1**Format for Technical Pre-Bid Queries**

Tender No **TPSODL/OT/2022-23/153**
Rate Contract for Supply and
Package Name **Installation of Control and**
Relay Panel

Bidder :

Note : The said format to be used only for Technical Pre-Bid Query. Any Commercial Query has to be strictly in Format B2 Format for Commercial Pre-Bid Query and sent separately
Format to be used for query regarding Technical Pre-Qualification Requirement, Safety Pre-Qualification Requirement, Technical Set of Documnt
Pre-Bid Query has to be sent in editable Excel file fomart only
Pre-Bid Query has to be sent through e-mail in TPSODL E-Tender System

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	1.3 of Technical specification	Cat-6/RJ45/Fiber Optic cables (Double Run) from CR panels till Ethernet Switch in GI Flexible Conduit. Loop cables among Ethernet switches installed in 66/33/11 KV Bays and the Ethernet Switches installed in RTU Panel.	Kindly confirm whether the same will be in our scope	Not in the scope of Bidder
2	1.7 of Technical specification	1.5 & 2.5 Sq mm LV power and control cable for AC/DC power supply requirement for each CRP inside control room from AC/DC distribution board shall be in bidder's scope. Bidder to ensure that dual source with manual changeover facility shall be provided for DC as well as for AC power supply.	Wiring with-in CRP only will be in our scope	Inter Panel Wiring, Outside cable laying & termination are in the scope of bidders(Outside Cable required will be supplied by us)
3	1.10 of Technical specification	Point to point as well as configuration logic testing from links to relay as well as from relay to RTU, network Switches and SCADA is in the bidder's scope.	Testing shall be as per Supplier's MQP/FAT Procedure.	As per TPSODL's Procedure
4	4.11 of Technical specification	S. No. Make 1 Rittal India 2 Pyrotech Electronics 3 Valrack cabinets	We will provide our make Enclosure, please accept the same	OK Accepted subject to compliance of our tender specification.
5	Scope of work ITC for CRP- Installation Testing & Commissioning of CRP, Page No- 91	Including transportation (Vehicle, Manpower, Suitable Tools and Taggles) and Shifting carefully with safely 33KV ,11KV CRP Panel and Control Cable drum (Type of Panel 800mm*800mm Dual and 600mm*800mm Single feeder) 19C* 2.5mm,10C*2.5mm,7C*2.5mm,6C*2.5mm,4C*2.5,2C*2.5 sqmm, 4C* 4 sqmm from store to PSS or outside of the Control room of PSS Shift CRP panel to Inside Control Room with suitable Manpower and tools and tackles.	Please furnish the detail of cable type and sizes panel wise. However Instalation for same will be in our scope. Detail Bill of material is required for estimation.	Please refer separate Cable Schedule
6	Scope of work ITC for CRP- Installation Testing & Commissioning of CRP, Page No- 91	Where ever fabrication and modification Require for Installation of CRP Panel include in this Scope of Work.	Fabrication and modification of CRP shall be strictly as per approved drawings only, hence further any fabrication and modification not applicable.	Ok, Noted
7	Scope of work ITC for CRP- Installation Testing & Commissioning of CRP, Page No- 91	Panels shall then be properly aligned, Cables shall enter with double compression glands, codified,lugged, and dressed.	Please furnish the panel wise cable gland type and sizes. Detail Bill of material is required for estimation.	Please refer separate Cable Schedule
8	Scope of work ITC for CRP- EARTHING OF 11 KV & 33KV CRP PANEL:	Laying of Earth Flat for earthing of 33KV , 11KV CRP equipment's by means of M.S strip 50x6mm for Control Panel and 50x3 for SCADA earthing connecting to Pipe type earthing as per TPSODL norms. Joints will be welded with high quality arc welding. Grounding of panel at two different locations by 50x6mm flat shall be provided.	Detail Bill of material panelwise or sub station wise is required for estimation.	Separate Earth Pit shall be constructed near by control room & All CRP panel's Earthing will be connected to it. Earthing material will be provided by TPSODL.

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9	Scope of work ITC for CRP- CABLE TRAY SYSTEM INSTALLATION		Please furnish the panel wise type, size and length of cable tray. Detail Bill of material is required for estimation.	Maximum length from CRP to equipment is 150Mtr.
10	Scope of work ITC for CRP-CABLE LAYING AND TERMINATION		Please furnish the panel wise cable type & termination detail. Detail Bill of material is required for estimation.	Please refer separate Cable Schedule
1	7.1. Special Conditions of Contract / Refer pdf sh.no: 14 of 219	<p>1. Delivery period shall be within 60 days from the issuance of RO/ GTP Approval (whichever is later). The Installation and commissioning shall be completed within 5 months from the date of issuance of order and within 5 days from the date of issuance of notice to proceed.</p> <p>2. BA shall submit GTP / Drawing within 2 weeks from issuance of rate contract. In case BA does not get necessary approvals for issuance of CAT-A within mentioned / mutually agreed timelines then TPSODL reserve the right to cancel issued rate contract / release order and also reserve the right to forfeit EMD / PBG.</p> <p>3. Within 30 days of Rate Contract issuance by TPSODL, it is the responsibility of BA to get manufacturing clearance and CAT-A issued from TPSODL. In case BA does not get necessary approvals for issuance of CAT-A within mentioned timelines, then TPSODL reserve the right to cancel issued rate contract / release order and also reserve the right to forfeit EMD / PBG.</p>	<p>1. Based on the present market scenario, we request for delivery period to be 20 weeks from manufacturing clearance</p> <p>2. Installation and commissioning can be started only after getting site readiness from customer. The timeline mentioned by Customer need to be discussed and modified.</p> <p>2. GTP/Drawing submission by 4-6 weeks from clear inputs form customer.</p>	<p>1. Based on the market feedback, the delivery period is revised to 16 Weeks from the date of issuance of order or GTP approval which ever is later.</p> <p>2. The installation and commissioning shall be completed within 7 months from the issuance of order and shall complete within 5 days from the date of issuance of site clearance/Notice to proceed.</p> <p>3. Tender term remains unchanged.</p>
2	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 27 of 219	The scope of this specification covers all the Technical Requirements of Design, Engineering, Manufacturing, testing at manufacturer's works, packing, forwarding, supply and unloading at site/stores complete with all accessories including, installation, testing and commissioning of Control & Relay panels at various sites of TPSODL.	We request you to exclude unloading of panels from bidder's scope. We shall supply the Panels at any central store of TPSODL. From central store to respective site will be under TPSODL scope for transport, loading & unloading at site	Technical Specifications to be Complied
3	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 27 of 219	Installation, testing and commissioning of new Control and Relay panel with complete wiring of relay from CT, PT and DC aux power requirement, extending power supply with proper cable carrier system inside control room with cabling and wiring including proper dressing of wiring.	Since this a loose CRP tender. So, Supplying, Laying & Termination of unquantified control & power cables, cable carrier & related activities is not possible. Please exclude from the scope of work.	Technical Specifications to be Complied
4	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 27 of 219	Earthing copper bus bar shall be provide inside each CRP which is extended upto the station earthing pit by the bidder.	Panel will be provided with earthing bar, however as this a loose CRP tender extending earthing to station earthing pit with unquantified metal strips/wires is not possible. Please exclude from scope of work.	Technical Specifications to be Complied
5	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 27 of 219	9. Point to point as well as configuration logic testing from equipment end terminals to CRP end terminals is in the bidder's scope.	Our Scope is limited to Supply as per tender specification. Same is not in Bidders scope. Kindly confirm	Technical Specifications to be Complied

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7	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 28 of 219	Any Miscellaneous accessories required for Commissioning.	As this is a big tender with multiple stations involved, the miscellaneous activities which might arise at site must be specified in order to consider the materials accordingly. Without any quantification the requirement of items would be difficult to be considered.	OK, Noted
8	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 28 of 219	Cat-6/RJ45/Fiber Optic cables (Double Run) from CR panels till Ethernet Switch in GI Flexible Conduit. Loop cables among Ethernet switches installed in 66/33/11 KV Bays and the Ethernet Switches installed in RTU Panel.	We understand that the same is not part of this tender scope.	Not in the scope of Bidder
9	ENG-EHV-CRP(Rev.0)/1.0/Scope of Work / Refer pdf sh.no: 28 of 219	In case of space constraint in the panel vendor need to supply and mount an additional box for installation of relay.	Please clarify what of box would be required for installation of relays? As our scope is to supply pre-wired panel with IEDs, so understand this clause is not applicable. Kindly confirm.	OK, Noted
10	ENG-EHV-CRP(Rev.0)/4.3.1/Energy meter(MFM) / Refer pdf sh.no: 33 of 219	Supply and Integration of Energy Meters with Software for centralized meter data reading shall be in supplier's scope. Supplied Software shall have independent for meter make or OEM to retrieving the meter data	Since this a loose CRP tender, supplying, configuring and sort of centralized meter data reading software/system shall not be in bidder's scope. Please confirm	Technical Specifications to be Complied
11	ENG-EHV-CRP(Rev.0)/4.3.9/General Construction-CRP/ Refer pdf sh.no: 41 of 219	Panel shall be having dimensions equal to 800mm x 800mm x 2000m of W x D x H	This clause is in contradiction with the sizes mentioned in the price bid schedule. Price Bid Schedule shall prevail over TS as per preference order of documents. Kindly confirm.	Panel shall be having dimensions equal to <input type="checkbox"/> For Dual Feeder 800mm x 800mm x 2000m of W x D x H . <input type="checkbox"/> For Single Feeder 600mm x 800mm x 2000m of W x D x H
12	ENG-EHV-CRP(Rev.0)/General Construction-CRP/	- Wires shall be vermin proof. Minimum size of conductor shall be 2.5 sq. mm in general, but for CT & VT circuits it shall be 4 sq.mm. - All CT & PT circuits: minimum of 4 sq. mm copper. AC/DC Power Supply Circuits: 4 sq. mm Copper. All other circuits: minimum of 2.5 sq. mm Copper.	We recommend to use 1.5sqmm for control and 2.5 sqmm for CT / VT and power circuit as these sizes are more than sufficient. Please confirm.	All wiring shall be with 1100 V grade, single core, PVC insulated stranded copper conductor. Wires shall be vermin proof. Minimum size of conductor shall be 1.5 sq. mm in general, but for CT & VT circuits it shall be 2.5 sq.mm. CT VT wiring will be colored as per standard sign color configuration including neutral and neutral CT wiring. Rest wiring will be in grey color and earthing will be done by green colored control cable
13	CRP TS / 4.8 Control Switches CRP TS / 4.9 Indication Lamps	The control switch of breaker and isolator shall be of spring return to neutral type. Indication Lamps	We understand that panels will be supplied with BCPUs. Bay SLD can be viewed in the BCPU and the necessary alarm and trip signals can be masked to BCPU LED. Hence there is no requirement of control switches, indication lamps, mimic & annunciation on Panels. Which would also ease the maintenance & operation works. Please confirm.	Technical Specifications to be Complied, however mimic is not requirede.
14	CRP TS / 4.14 Warranty	In the event any defect is found by the Company up to a period of 60 months from the date of commissioning supplier shall be liable to undertake to replace/rectify such defects	Since this is a loose CRP order we request warranty clause to specified as "60 months from the date of supply of CRP against manufacturing defects" Please accept.	Tender Specification to be complied.

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15	CRP TS / 8.1 Service SLA	Vendor shall conform in a signed SLA	This AMC is not part of the scope of work, so SLA shall not be applicable. Please confirm.	SLA not applicable.
16	CRP TS / 8.1 Delivery Terms/ Period of contract:	The supply of material shall be completed within 60 days from the date of award, subject to availability of clearance provided by TPSODL. The work of CRP installation & commissioning of supplied Relay of substation, shall be done within 5 days per substation. The site / substation clearance / equipment outage requirement for above activities shall be provided by TPSODL engineer in charge. Overall contract period shall be 5 months from the date of issuance of Work Order.	We request for delivery period to be 20 weeks from manufacturing clearance and GTP/Drawing submission from 4 weeks from RC/LOA. Commissioning shall be completed as mutual agreement during execution stage depending on site readiness Overall contract period shall be at least 12 months depending on site readiness and availability of electronics components. Please confirm.	1. Based on the market feedback, the delivery period is revised to 16 Weeks from the date of issuance of order or GTP approval which ever is later. 2. The installation and commissioning shall be completed within 7 months from the issuance of order and shall complete within 5 days from the date of issuance of site clearance/Notice to proceed. 3. Tender term remains unchanged.
17	CRP TS / 8.2 Spares:	Spares	We understand that the items listed out in the Annexeure-I LOT A (For CRP Only) are the materials which needs to be supplied from the CRP perspective. Any spares is not applicable	Spares are not required
18	CRP TS / 4.3.5/ Point No 14	14) Rear ports shall be redundant with RSTP/PTP requirement for client server Communication.	We understand that there is a typographical error and it should be RSTP/PRP instead of PTP. Since it is stating about the rear port communication.	RSTP & PRP are required
20	CRP TS / 4.3.5/ Point No 18	Downloading/ uploading file from any relay ports shall not change its 61850 engineering and device engineering.	We understand it is applicable for Downloading & uploading for protection related file only (Setting, configuration etc). Please confirm.	OK, Noted
19	CRP TS / 1.0/ Point No 9	Testing includes primary injection and secondary injection (having three phase double Source arrangement) and also all testing equipment would be provided by Vendor.	We shall offer 2ndry injection only during testing & commissioning (if applicable).There is no separate line item for ITC activity.Pls clarify	Technical Specifications to be Complied
20	CRP TS / 1.0/ Point No 12	Submission of As-built drawing within 15 days after successful completion of the respective Sub Station job.	Drawing submission by 406 weeks from clewr inputs	4 weeks
21	CRP TS / 4.2/ Point No 6	6. Contact multiplication relays (CMR) of reputed make of 24V/48V DC shall be used.	Kindly specify the requirement of contact multiplication relays. Since BCPUI is being offered all the status from the primary equipments would be directly routed to the BCPUI. TPSODL to ensure the availability of contacts from the primary equipments.	contact multiplication relays shall be required for closing & tripping operation of breaker.
22	CRP TS / 4.18	Spares for Project job 20% spare material required for every item like TNC switch and other switches, indicating lamps, terminal blocks and any other auxiliary relays, if used.	Since all the required items are already being supplied as part of the panel. We understand that this 20% spare requirement is on the total project. It would be considerable if the quantification of the spares is done.	Spares are not required
23	CRP TS / 4.3.6	2) Separate Sensitive Earth Fault/High Impedance Restricted EarthFault/Stand by earth fault Protection Coil Required in the Relay.	We understand that separate coil is required to achieve any one of the mentioned functions.	OK, Noted
24	Scope of work ITC for CRP/ENG-EHV-ITC for CRP(Rev0)		As there is no separate line items for Site activities,so the same must be quantified & discussed.Kindly exclude these site work as transportation,unloading, cabling,cable Tray work,earthing & other civil activities	Technical Specifications to be Complied. Corrigendum to be checked.