

PRE BID CLARIFICATIONS FOR TPCODL TENDER - NIT No.: TPCODL/ P&S/100000296/ 2022-23

Sr. No	Clause ref.	Requirement as per Tender	Amendment proposed	TPCODL Reply
1	20	Min Gas pressure 0.05 Bar G	Minimum functional level of insulation Pme 130 kPa (1.3 bar)	Noted.
2	23	leakage detection 1 per 5 PSS subject to minimum one number	Supply of leakage detector is not in scope	Shall be as per Tender Specifications
3	29	Paint Dark gray as per BS381C	Paint Shade shall be RAL 7035	Accepted
4	30	Cable termination kit In scope of Bidder	Supply of cable termination kit is not in scope	Shall be as per Tender Specifications
5	53	Circuit Breakers: Preferably SF6 type	Circuit breakers Arc interruption is Vacuum & insulation is SF6	Accepted.
6	54	cable test rod shall be provided	Supply of cable test rod is not in scope	Shall be as per Tender Specifications
7	5.2.1	outer body shall be made of GI sheet steel, minimum 2mm thick	Outer body shall be made of CRCA 2mm	Accepted.
8	5.2.1 iii	The RMU body shall be earthed with 50x6 sq.mm GI strip	RMU earthing bar is made of copper with 120 sq.mm.	Accepted.
9	5.2.1 iv	Mechanical interlocking systems shall prevent access to the operating shaft to avoid all operator errors such as closing the earth switch when cable is charged.	Deviation. shall not able to provide such mechanical interlocking	Mandatory Requirement. No deviation against this is accepted.
10	5.2.2	The position of the power contacts and earthing contacts shall be clearly visible on the front of the RMU	The position of the power contacts & earthing contacts shall be visible on mimic	Accepted.
11	5.2.3	include three toroid transformers incorporated in the transformer tee-off bushings	shall provide ring type LTCT's inside cable door of RMU	Accepted
12	5.2.3	All panel covers shall be provided with anti vandal screw bolts so that opening of panel covers is only possible with special tools, to be provided by the Bidder.	Other than operating handle no special tools required for RMU operations	Anti vandal screws are required to avoid theft. Hence Tender Clause to be followed.
13	5.2.3	The cable cover door should be pad lockable and should be Tamper and Arc proof.	The cable cover door shall be arc arc proof pad locking is not possible for arc proof doors	Accepted
14	5.2.6	Internal fault IAC- AB' as per IEC 62271-202	Internal arc proof for RMU shall be IAC-AFL 21KA-1sec	Accepted
15	5.2.9	The overall paint thickness shall not be less than 70 microns	Paint thickness shall be 60-80 microns	Technical specifications is minimum requirement.
16	5.2.9	The enclosure of the RMU shall be painted with PENTON E2727C	Paint Shade shall be RAL 7035	Accepted
17	1.7 (C)	The bidder should have successful Type Test Report (TTR) conducted from CPRI / ERDA/ International Accredited Laboratory and shall furnish the same as a part of the Technical Bid. The type tests should have been conducted on the equipment / material of the same design and rating or with higher rating. The type tests should have been conducted within 5 years prior to the date of bid opening. Time period for type test can be extended by another 5 years as a special case, if there is no change in design / material of construction (MOC).	The type tests are available within 10 years.	Noted.However, there shouldn't be any change in the type tested design and shall meet all the technical requirements of TPCODL specifications.
18	04:11	Minimum thickness of sheet a) Sides -2mm b) Base - 3mm	Tank shall be made up with SS304 & 2.5mm thickness. Request to kindly accept the same.	The referred tender clause states about the thickness of sheet used in outer enclosure and not SF6 Tank.
19	5.1(i)	The enclosure shall be made of minimum 2mm thick MS sheet steel with a base of 3 mm (min.), tropicalized to meet Indian weather conditions. The base of the enclosure shall ensure rigidity for easy transport and installation	Outdoor type enclosure having construction of Galvanized Sheet Steel of thickness 1.5/2mm for non-load bearing & load bearing portion members with 4mm ISMC base frame.	Accepted.
20	5.4	The Framework shall be covered from the front with GI sheet of thickness not less than 2 mm. such that no live part is accessible at any time during the operation or testing period.	LT panel shall be made up of CRCA sheet with 1.5/2mm thickness.	Accepted.
21	11	Bidder shall stand guarantee towards design, materials, workmanship & quality of process/manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract.	It shall be warranty instead of Guarantee.	Noted.

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22	5.3.9	All the bushings of the same voltage class, shall be interchangeable with plain shed as per IS 3347(Part-I) for LV and IS 8603(Part-I) for HV and shall be on side.	LV and HV termination shall be on top cover not on side wall.	Shall be as per technical specifications
23	5.3.19	Fittings	The following standard fittings shall be not be applicable i.e m,o,q,r & s.	Accepted
1	1.0 Event Information- 1.7 Qualification Criteria- C- Page No. 7	The bidder should have a successful Type Test Report (TTR) conducted from CPRI / ERDA/ International Accredited Laboratory and shall furnish the same as a part of the Technical Bid. The type tests should have been conducted on the equipment / material of the same design and rating or with higher rating. The type tests should have been conducted within 5 years prior to the date of bid opening. Time period for type test can be extended by another 5 years as a special case, if there is no change in design / material of construction	Please consider the validity of type test report as per CEA latest guidelines (Enclosed) i.e. 10 years.	Noted.However, there shouldn't be any change in the type tested design and shall meet all the technical requirements of TPCODL specifications.
2	SPECIFICATION FOR 630kVA COMPACT SUB-STATION- ENG-ELC-092- C. FOR TRANSFORMER Page No. 8/33	Rated voltage LV 433 V-250V	We have considered the rated voltage 433Vfor LV . please confirm	Rated LV Voltage =433 V
3	3.9	The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL	As per central Government Circular, switchgear Type test validity 10Years instead of 5 years.	Accepted
GENERAL TECHNICAL REQUIREMENTS:				
4	38	Make of Relay : Suitable numerical relay with necessary elements or any other as per Purchaser's approval (Make-as per TPCODL RMU specification)	We shall Considered Numerical Self Power relay DPX-V5. Please Confirm the model Number.	Shall be as per tender clause.
5	39	Flag indication on CB for Trip on fault :	We shall Provide LED Indication on the relay.	Accepted
6	42	SCADA Compatibility- • Remote operation of motor fitted with operating mechanism of LBS. • Remote operation of motor fitted with operating mechanism of circuit breakers (as per future requirements).	Please Confirm the RMU requirement Manual Or Motorized.	Motorized
7		C. FOR TRANSFORMER		
8	2	Application Outdoor - Outdoor	Transformer Shall be indoor Type and Hermeneutically sealed.	Accepted

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9	5.2.2 INCOMER LOAD BREAK SWITCH (LBS)	Load break switches shall be maintenance-free. The position of the power contacts and earthing contacts shall be clearly visible on the front of the RMU. The position indicator shall provide positive contact indication in accordance with IEC 60265-1. In addition, manufacturer shall prove reliability of indication in accordance with the standard. The switches shall be of the "increased operating frequency" in accordance with IEC 60265-1, They shall have at least 3 positions, pen disconnected, closed, and earthed, and will be constructed in such a way that natural interlocking prevents unauthorized operations. Earthing of the cable shall be either through a three position switch of a separate snap action type or Earth Switch having fault making capacity. The Mechanism shall be constructed in such a way that natural interlocking prevents nauthorized operations. The switches shall be fully mounted and inspected in the factory. Manual opening and closing will be driven by a fast-acting mechanism, independent of operator action. Each switch can be fitted with an electrical operating mechanism in an especially reserved location, without any modification of the operating mechanism and without de-energizing the RMU. The load break	Load Break Switch shall be Maintenance free The Position of Power Contact can not be visible from out side. It shall be visible only on Mimic Diagram.	Accepted
10	5.2.4 BUSHING AND CABLE TERMINATION	Each cable compartment shall be provided with three bushings of adequate sizes to terminate the incoming and outgoing cables. The bushing should be conveniently located for proper bend so as to allow easy working and termination of cables. The cable termination shall be done with HDPE cleats and by Heat shrinkable termination method so that adequate clearances are maintained between phases.	We shall Provide Meters clamp instead of HDP Clamp.	Shall be as per tender clause.
11	5.2.10 FAULT PASSAGE INDICATORS	iv) The Preferable make of relay are ASHIDA ELECTRONIC (Serial Number: ADR241S-AM-760- 09-01-28-01-00-10), Schneider (MICOM P-116), CGL-CG1-14 S (Mandatory with CGL RMU.) v) FPI: CSFPI-E-C-H-C6-P2-E1-3	Please accept DPX -V5 Catalogue. FPI Make C&S	Shall be as per tender clause.
12	7.1 ACCEPTANCE TESTS	i) Dimensional and visual check ii) Mechanical operation test and checking of interlocks iii) Dielectric test on main and control circuits iv) Temperature Rise test v) Internal Arc withstand test vi) Short-time and peak withstand currents	i) Dimensional and visual check - OK ii) Mechanical operation test and checking of interlocks - OK iii) Dielectric test on main and control circuits - Through Muggger iv) Temperature Rise test- Not Possible at factory, it Should be at Transformer Manufacture Place. v) Internal Arc withstand test- Provide Type Test vi) Short-time and peak withstand currents- RMU Type Test Provided	Accepted

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13	7.3 TYPE TESTS	i) Insulation tests for prefabricated substation ii) Temperature rise tests of the main components iii) Short-time and peak withstand currents iv) Functional tests to prove satisfactory operation of the assembly v) Degree of protection vi) Mechanical stress vii) Internal Arc tests viii) EMC compatibility tests ix) Sound level of prefabricated substation	i) Insulation tests for prefabricated substation - Please Clarify. ii) Temperature rise tests of the main components- Provided iii) Short-time and peak withstand currents- STC Provided iv) Functional tests to prove satisfactory operation of the assembly- Individual Test can Perform at our factory. v) Degree of protection- IP-54 & IP-34 vi) Mechanical stress- Not available. vii) Internal Arc tests- Provided viii) EMC compatibility tests- Not available. ix) Sound level of prefabricated substation-Not available.	All the type test report mentioned in Technical specification is required as per IEC 62271-202. EMC tests are applicable for Relays and other electronic Hardware. Manufacturer has to submit the authorization letter of OEM, shall manufacture the same type tested design of OEM and routine test report shall be authorized. Incase of unavailability of TTR as per TS, the bidder has to furnish the same without any extra cost , keeping aforesaid points in view.
14	8. TYPE TEST CERTIFICATE S	The Bidder shall furnish the type test certificates of the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPR/ERDA/Other Govt. Labs as per the relevant IS/IEC. Type tests should have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the test reports, i.e. any test report not acceptable, same shall be carried out without any cost implication to TPCODL	We shall Provide Schneider Type Test report. Any other special Test require it will change extra.	In such case Manufacturer has to submit the authorization letter of OEM, shall manufacture the same type tested design of OEM and routine test report shall be authorized. Incase of unavailability of TTR as per TS, the bidder has to furnish the same without any extra cost , keeping aforesaid points in view.
15	8.0 SECURITY CUM PERFORMANC E DEPOSIT	Associates shall submit within 15 days from the effective date of issue of PO/RC, Security Performance Bank Guarantee (SPBG) in the format as per Annexure B of this document from banks acceptable to TPCODL for: (a) 5% of the PO value if purchase order value is more than Rs 5 Crores. (b) 10% of the PO value if purchase order value is less than Rs 5 Crores. This shall remain valid till the end of the Guarantee Period of contract, plus one month. (c) 5% of the RC value in case of Rate Contract. This shall remain valid till the Guarantee period plus one month.	We shall Provide PBG for 2 Years after 3 years PBG shall extend up to the warranty period.	PBG value will be 5% of RC value with validity till warranty period.