

Reply of Prebid Queries : NIT- TPCODL/P&S/1000007382 /2025-26 (01 Year RC for supply of 630KVA , 11KV Compact S/s)

Sl. No.	Clause No	Tender Clause details	Details of deviation with justifications	TPCODL Response
1	1. SCOPE	This specification covers technical requirement of design, engineering, manufacture, testing at manufacturing work, painting, packing, forwarding, supply,unloading at store and performance of Package type substation comprising an enclosure containing high voltage switchgear, transformer, low voltage switch gear.	OK. Noted. However, we request to keep unloading in our scope since we will not have contacts and expertise in nuloading at site location.	Query not clear. Unloading is in the scope of bidder
2	2. APPLICABLE STANDARDS	Applicable Standards	Reference standards followed shall be as per latest version of IEC standards	Noted
3	3. CLIMATIC CONDITIONS OF THE INSTALLATION:	Maximum Relative Humidity 100%	We understand that 100% Humidity seems to be somewhat theoretical. We shall be offering our standard product that is suitable for outdoor type environment	Noted. Please provide the humidity value for which the offered CSS is designed during Detailed Engineering.
4	4.0 GENERAL TECHNICAL REQUIREMENTS	Temperature rise for any accessible part of the enclosure Maximum permissible temperature shall not exceed 70 deg C at an ambient temperature not exceeding 40 deg C Maximum permissible temperature shall not exceed 70 deg C at an ambient temperature not exceeding 40 deg C	Kindly note that the offered CSS is an outdoor type of product where-in the accesible parts which are outside exposed to external heat shall be heated viz. External lock, handle,etc. While parts inside CSS that are accessible shall be insulated and shall be covered.	Noted.However,Maximum permissible temperature shall not exceed 70 deg C at an ambient temperature of 40deg C for any accesible part of the Enclosure.
5	5.1 Enclosure	The Enclosure shall be made of minimum 2-3 mm thick GI sheet with a base of 3 mm (min), tropicalised to meet Indian weather condition	Outdoor type enclosure having construction of Galvanised Sheet Steel having 2mm thickness for Non-load bearing & 2 mm for Load bearing partition sheets & Door with HRCA 4 mm base frame and Top of enclosure shall be 1.5mm as per our type tested product design. And we can provide upto 2mm.	Accepted as per type tested design
6	5.1 Enclosure	Heavy duty hinges shall be provided for each door such that they are not visible from outside and hence not removable	Kindly note that hinges and other mechanical supporting structure shall be as per our type tested design.	Accepted as per type tested design
7	5.1 Enclosure	Dehumidifier and Space heater with hygro-thermostat shall be provided in both cable compartment.	The Dehumidifier and space heater shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear	Dehumidifier and space heater with Thermostat shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear
8	5.1.1. Earthing	As per Specifications Clause No. 5.3.6, 65x10GI Earthing stp is required.	As per Specifications Clause No. 5.3.6, 65x10GI Earthing stp is required; However, 50x6mm GI earthing is sufficient as per type tested design and therefore we are offering 50x6mm GI Earthing only.	This shall be as per Tendered specifications, i.e The provision for earthing connection shall be provided for 50X6 Cu or 65x10 mm GI strip
9	5.1.3 Galvanization	5.1.3 Galvanization	Galvanization shall be done for the base frame of the outdoor enclosure and outdoor type enclosure construction shall be made up of Galvanized sheet steel	Noted

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10	5.1.3 Galvanization	However, high tensile steel nuts, bolts and spring washers shall be electrogalvanized to service condition four.	As per our standard type tested design, suitable hardware shall be offered	Noted. Please provide the material and size details of Hardware items for which the offered type tested CSS is designed during Detailed Engineering.
11	5.2.4 - General Details 5.2.9 - General Details	The RMU shall be designed to be tamper proof to prevent access to all live parts during operation without the use of special tools All panel covers shall be provided with anti-vandal screw bolts so that opening of panel covers is only possible with special tools, which shall be provided by the Bidder as mandatory spare/tool.	Shall be as ABB standard design	Noted.
12	5.2 HV compartment	Dehumidifier and space heater with hygro-thermostat for RMU compartment and transformer compartment shall be provided	The Dehumidifier and space heater shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear	Dehumidifier and space heater with Thermostat shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear
13	5.2.2. General Details	The mimic board shall be provided with IP2X degree of protection for Indoor RMUs and protection for Outdoor RMUs shall be minimum IP 54(Main door closed). Cable compartment shall be IP54.	Since offered RMU is indoor type suitable for CSS application, IP54 requirement for outer enclosure door shall not be applicable. Offered CSS, HT and LT compartment shall be IP54 while the Transformer compartment shall be IP23	Noted. Please confirm the IP rating of RMU enclosure during detailed enclosure.
14	5.2.7 (Earthing)	Earthing of RMU	Earthing shall be as per ABB type tested design .We will provide 120sqmm Cu Busbar for Earthing.	Earthing shall be as per Tendered specifications
15	5.1.2 (Paint)	The enclosure of the RMU shall be painted with shade light Grey, i.e. RAL 7032.	PAINT SHADE: RMU FRONT COVER/CABLE COVER : RAL7035	Noted
16	5.1.2 (HV Compartment)	Dehumidifier and space heater with hygro-thermostat for RMU compartment	Dehumidifier and space heater with hygro-thermostat for RMU compartment will not be provided since there is no Air insulated panel requirement in RMU (it's a complete SF6 insulated secondary GIS)	Dehumidifier and space heater with Thermostat shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear
17	5.2.11 Remote Control of the RMU:	Preferred communication protocol for FRTU shall IEC-60870-5-104.	FRTU shall not be in our scope. Kindly confirm.	FRTU is not in the scope of supply, however future connection with FRTU provision to be provided.
18	5.2.13 (General details)	The main bus bar current density shall be less than 2.7A/sq.mm.	The Dimension of the Main Busbar inside SF6 insulated RMU is as per type tested design & the Current density ~3.5A/sqmm	Accepted as per type tested design

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19	5.2.8 (VPIS)	The auxiliary contacts in VPIS shall be wired for electrical interlock of cable presence indicator and operation of earth switch in RMU incomer cable compartment of LBS.	VPIS Considered with Scada Contact for Remote status indication. However, there is no electrical interlock between cable Live condition and operation of earth switch in RMU incomer cable compartment of LBS	This shall be as per tender specifications.
20	5.2.5 (Circuit Breaker For Transformer / Local Feeder Control)	The shunt trip coil shall be of 230V AC	Shunt trip coil provided for 24V DC	Noted and accepted.
21	RMU Power Supply	Power Supply Battery and charger of suitable size and rating required. Preferably 2x12V ,26 AH battery.	26AH Battery & 7.5 Amps Charger is considered	Noted. However,10A charger is preferred.
22	5.3 DISTRIBUTION TRANSFORMER	5.3 DISTRIBUTION TRANSFORMER	Shall be offered as per Transformer Vendors standard design.	Vendor's Design should comply the tender specifications with valid type test reports.Type tests are mentioned in Cl.7.1
23	5.3 DISTRIBUTION TRANSFORMER	7.2.2 Partial discharge measurement	Partial discharge is not required as per IS/IEC below 72KV Class so shall not be conducted	Noted
24	5.4 LV COMPARTMENT	The Framework shall be covered from the front with GI sheet of thickness not less than 2 mm.	Framework of the LT panel shall be fabricated using CRCA sheet steel using 1.5/2mm thickness , instead of GI sheet of overall 2m	This will be accepted with valid Type tested design
25	5.4.1 ACB & MCCB with Busbar	The ACBs shall be mechanical operated fixed type 3 Pole with shunt trip coil without any microprocessor protection release. Ashida make (A22F) relay to be provided for tripping the breaker with Overcurrent & earth fault protection. Spare ACB contacts for shunt trip should be provided	Kindly note that offered ACB and MCCBs are of ABB make and shall have inbuilt LSIG protection. Thus, there shall be no requirement for external relay	Noted and accepted.
26	5.4.1 ACB & MCCB with Busbar	The minimum clearance between phase to phase shall be 25 mm and between phase to earth 20mm.	The minimum clearance between phase to phase shall be 25 mm and between phase to earth 19mm.	Noted
27	5.4.1 ACB & MCCB with Busbar	3 nos dual core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), Core 1: 0.5s CI, Core 2: 5P20, 15 VA, to be used for MFM. 3 nos single core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), 0.5s, 15 VA, to be used for Energy metering. 1 no single core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), 5P20, 15 VA, to be used for neutral unbalance protection	Kindly note that the VA burden depending upon the CT ratio shall be finalized depending upon the space availability inside the CSS LV compartment	Noted. Detailed calculations to be submitted in case of any change from th tender requirement.

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28	6.0 Name & Marking Plate	Approved Makes: TMC, ABB, PVJ, Nucon, Cahors	Kindly note that we shall be proposing our ABB approved make of transformer which may not be in TPCODL approved make list. However, we shall submit relevant type test reports for the vendor.	Type test reports of recommended makes are to be submitted along with bid. Any other make with valid type test reports as per this specification may be accepted after verification of type test reports and design. TPCODL reserves right for rejection of proposed make of transformer in case of any document shortfall. Type test of Transformers are mentioned in cl.7.1
29	7.1. TYPE TEST CERTIFICATES:	7.1. TYPE TEST CERTIFICATES: 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/ TPSODL/ TPNODL/ TPWODL.	CSS Type tests are beyond 5 years, since there has been no design change in the offered CSS, the same Type test reports shall be applicable.	Certificate stating "No change in design from the type tested design " to be submitted on letter head along with the bid.
30	7.3 TYPE TESTS	viii) EMC compatibility tests	Type test report of EMC compatibility test is not conducted, since it is not mandatory as per IEC 62271-202	Noted
31	7.3 TYPE TESTS	1. Temperature Rise Test (on one unit of every lot offered for inspection for each rating). 2. At least 10% transformer of the offered lot (minimum of one) shall be subjected to all the tests mentioned under the section Routine Test Clause 7.2.2 in presence of TPCODL representative at the place of manufacture before dispatch without any extra charges.	Kindly note that we shall submit Temperature rise type test report of transformer. If still conduction of Temperature rise type test is required, the same shall be done only on one of the Transformer out of complete quantity instead of one transformer from each lot. Kindly confirm. Complete set of routine tests at transformer factory shall be done and witness only on one of the transformer out of complete quantity instead of one transformer from each lot in presence of TPCODL representatives. Kindly confirm. TPCODL representative charges of Travel, Accommodation and other expenses shall not be in our scope	Inspection shall be carried out as per TPCODL approved QAP.
32	7.3 TYPE TESTS	In the event of any discrepancy in the test reports, i.e. any test report not acceptable or any/all type tests (including additional type tests, if any) not carried out, same shall be carried out without any cost implication to TPCODL .	Kindly note that we shall submit type test reports of the CSS. Any discrepancy on the same shall be first discussed and closed. Since we shall be submitting 'No design change' declaration, re-conduction of any type test shall not be envisaged	Noted. In case of any type test report discrepancy or non mutual agreement during tender evaluation bid shall be liable for rejection.
33	19. Guaranteed Technical Requirement	13.e. CT wiring : 4 sqmm	Kindly note that the CT wiring shall be 4 sqmm	Noted

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34	19. Guaranteed Technical Requirement	43. Doors. Hinged Main doors shall be provided for outdoor type RMU. The hinges for the doors need to be riveted and shall not have any access from outside. Bolted shall not be acceptable.	The hinges and doors etc design shall be as per our type tested design only.	Noted
35	Annexure-4	IO List	Kindly confirm whether the H.C. mentioned in the IO list means Harting contacts. Harting contacts shall be as per our standard offering	This shall be as per tender specifications.
36	General point	We shall carry out Routine Test as per our Quality Assurance Plan (QAP). QAP shall furnished at the time of detailed engineering drawing .	Routine test shall be carried as per ABB standard QAP document.	TPCODL standard QAP shall be followed. This shall be finalised during tender evaluation
37	General point	Available Type test reports will be provided. No fresh Type tests will be provided.	Available Type test reports will be provided. No fresh Type tests will be provided.	Noted. Incase of any type test report discrepancy or non mutual agreement during tender evaluation bid shall be liable for rejection.
38	General point	We are proposed following list make as below for in our CSS RMU - ABB Oil Type Transformer - 630kVA (Powerstar/Nucon/PVJ/Eq.) LV Switchgear - L&T/C&S/Siemens/ABB/Eq. (ACB, LV product) All other Product - from Siemens approved vendor.	OK noted. Type Tests shall be submitted during detailed engineering	Type tests shall be submitted along with Bid submission
39	Busbars - SLD / Specifications	As per Specifications Clause No. 5.4.1, Al Busbars of 1600A is mentioned; However, Single Line diagram shows Copper Busbar for LT	We have considered Al Busbars in line with Tender Specifications.	Aluminium busbar is accepted.

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Sr. No.	Detailed Reference to TPCODL Tender Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
1	2	3	4	5
1	TPCODL / P&S/1000007382/25-26	Bids shall remain valid for 180 days from the due date of submission of the bid.	Bids shall remain valid for 60 days from the due date of submission of the bid.	shall be as per tender specification
2	TPCODL / P&S/1000007382/25-26	Prices shall be on FOR Basis, inclusive of Transit Insurance/ Packing & Forwarding charges and shall be inclusive of unloading & stacking at DISCOM site / store locations.	We request to keep unloading in our scope since we will not have contacts and expertise in nuloading at site location.	shall be as per tender specification
4	TPCODL / P&S/1000007382/25-26	GENERAL CONDITIONS OF CONTRACT SUPPLY ORDERS	GCC shall be as per agreed commercial closure vide Tender No. TPCODL/CCG/23-24/030 & subsequent RC No. 4600001529	Deviation of GCC are as per Annexure- A enclosed here after. All other Terms and Conditions shall be as per SCC and GCC as mentioned in Tender document.
5	Additional Mandatory clause	<u>Integrity Provision & Trade Control</u>	The Parties shall comply, and shall ensure that their employees, directors, officers, affiliates and third parties engaged in any manner in relation to the Agreement to comply, with all applicable laws (including anti-bribery and anti-corruption laws, human rights, and sanctions and trade control laws and regulations. The Buyer further represents that it will not directly or indirectly sell, export, re-export, release, transmit or otherwise transfer any items received from ABB to any Restricted Parties, or parties that operate, or whose end use will be, in Russia, Belarus, or in a jurisdiction/region subject to comprehensive sanctions by the United States, European Union, or Switzerland. Restricted Parties refers to entities on a government list (incl. EU, Switzerland, and US) subject to blocking or asset freezes, or other trade or financial restrictions. Sanctions extend to entities that are directly or indirectly owned 50% or more, in the aggregate or individually, or controlled, by a Restricted Party. Any violation of this clause shall constitute a material breach of the Agreement and, in addition to any other remedies under the law and/or this Agreement, non-infringing Party shall be entitled to unilaterally terminate this Agreement with immediate effect and without liability for any claim, losses or damages whatsoever related to the termination.	shall be as per tender specification

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1	Approved Make	1	Approved make list of equipment	Acceptance of other make then list published by you	We are manufacturer of CSS enclosure, RMU & transformers having fully type tested design and we will supply LT equipment as per your approved make list.	Valid Type test reports (as mentioned in Tendered specifications) and performance feedbacks are to be submitted along with bid documents .
2	Approved Make	1	Approved make list of transformers	Are ABB & Raychem manufacturing small Rating of Oil Filled Distribution Transformer as per BIS & IS 1180 guideline		Bidders are free to propose alternate makes other than makes specified in Tendered specifications subject to submission of valid type test reports (as mentioned in Tendered specifications).
3	3.9 Type Tests (if applicable)	9 of 28	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.	In case of any type test not available within 5 years, Can bidder get chance to conduct type test after award of order and submit the same before supply of materials to TPCODL	Based on BIS guideline & IS 1180, Short Circuit Test not mandatory for 250 KVA & above rating, so mostly transformer manufacturing is not conducting short circuit test on each & every rating, if bidder have higher rating Short Circuit test report as per IS similarity clause, whether It is acceptable or not.	Type test reports are to be submitted as per Cl.7.1 of technical specifications.
4	7.4 Guarantee Period	12 of 28	36 months from the date of commissioning or 48 months from the date of last supplies made under the contract, whichever is earlier,	36 months from the date of commissioning or 48 months from the date of dispatch of individual CSS, whichever is earlier		This shall be as per Cl.11 of Tender specifications
5	5.3 NIT	45	The transformer shall be suitable for service with fluctuations in supply voltage upto plus 12.5% to minus 12.5%.	Kindly confirm voltage fluctuations & tapping range	As per IS 1180/IS 2026, Voltage fluctuation is allowable up to $\pm 10\%$ only	Shall be as per Tender specifications
6	5.3.1	45 CORE	The successful bidder is required to submit the following documents with regard to the procurement of core material: - a) Invoice of supplier b) Mill's test certificate c) Packing list d) Bill of landing e) Bill of entry certificate by custom f) Description of material, electrical analysis, physical inspection certificate for surface defects, thickness and width of the material	Whether document should be manufacturer name or we can submit of our sub-vendor/Supplier name.	We are not directly procure CRGO/Importing CRGO. We are sourcing CRGO in cut lamination shape from various processor we can submit proper document about CRGO material.	This shall be as per tender specifications clause
7	5.3.3	47	Losses (Reference: Energy Conservation Building Code)	Kindly confirm, Energy Conservation Building Code or IS 1180	Oil Filled Transformer losses as per IS 1180 & BIS guideline	Noted. Value of losses shall be as per tender specifications 5.3.3

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8	5.3.5	48	Taps	Kindly confirm tapping range & type of tapping	As per specification, tapping requirement is tap links, which is basically used in Dry type transformer, Kindly confirm	Rotary/Ring type tap changing mechanism to be mounted on side of the transformer in such way that could be easily operated in smooth way. II. Tap changing shall be carried out by means of an externally operated self-position switch and when the transformer is in de-energised condition. III. The taps shall be provided in HV winding and each tap change shall result in voltage variation of 2.5%. IV. Switch position no.1 shall correspond to the maximum plus tapping (i.e.+5%) and position no.7 shall correspond to minimum tapping (i.e.-10%).Tap no. 3 to be considered as principal tap position. VI. Provision shall be made for locking the tapping switch handle in position. Suitable plate shall be fixed for tap changing switch to know the position number of tap.
9	5.3.8	48	Accessories: Pressure release device(PRD)	Can we provide PRV instead of PRD		Noted.However,5.3.13 needs to be complied.
10	5.3.13		Fittings: 22. SPD	Kindly elaborate	we are not aware of it	Surge protection device.
11	General	General	Type Test - Short Circuit Requirement	Based on BIS guideline & IS 1180, Short Circuit Test not mandatory for 250 KVA & above rating	so mostly transformer manufacturing is not conducting short circuit test on each & every rating, if bidder have higher rating Short Circuit test report as per IS similarity clause, whether It is acceptable or not. If it is mandatory requirement then whether Bidder will be allowed to conduct Short Circuit test after award of order & before supply of materials at your site or not.	Type test reports are to be submitted as per Cl.7.1 of technical specifications.
12	4.0	34	IAC-AB as per IEC 62271-202 (20KA for 1sec)	We have done internal arc test as per IAC-AB, 21kA/1s as per IEC Clause number 7.102		Type tests shall be reviewed during technical evaluation.
13	5.1	35	ENCLOSURE-The Enclosure shall be made of minimum 2-3 mm thick GI sheet with a base of 3 mm (min),	Enclosure shall be 2.0mm thickness, Gland plates & cable compartment thickness shall be 3.0mm, Base shall be ISMC Channel 100x50mm.		Material shall be as per tender specifications, Thickness shall be accepted as per type test reports
14	5.1	35	HV and LV compartment shall be accessible on the side of substation through doors with key lock and nitrile rubber seal.	We will give confirmation on nitrile rubber seal		Query not clear. This shall be finalised during technical evaluation
15	5.1	35	Transformer shall be accessible from both sides of enclosure	One side door & other side Bolting cover.		Shall be accepted after reviewing type tested design
16	5.1	35	Dehumidifier and Space heater with hygro-thermostat shall be provided in both cable compartment	Space Heater only provided.		Not accepted.Dehumidifier and space heater with Hygro thermostat are mandatorily required

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17	5.1.1	36	The diameter of stud shall be at least 12mm	Earthing should be done by Busbar only.		Noted. However, for external earthing Studs are required . Those studs are to be provided so that external earthing can be done at site.
18	5.2.13	38	The main bus bar current density shall be less than 2.7A/sq.mm	We will provide as per our standard type tested design.		Current density value to be specified.
19	5.2.15	38	The vacuum interrupter shall withstand 10-7 milli-bar Vacuum Pressure	We will provide as per our standard type tested design.		Documents of vaccum interrupter manufacturing to be provided for verification during Technical evaluation along with valid type test reports. Value of vaccum pressure to be mentioned in type test reports.
20	5.2.4	39	The position indicator shall provide positive contact indication in accordance with IEC 60265-1.	As per IEC-62271-102/103		Noted
21	5.5.16	40	The shunt trip coil shall be of 230V AC & wired up on TB	Shunt trip coil shall be of 24V DC.		Noted
22	5.5.17	40	There shall be Conformal Coating on relay PCB	We will give confirmation on Conformal coating on relay shortly.		Please confirm during technical evaluation
23	5.6.10	41	The cable cover door shall be pad lockable and shall be Tamper and Arc proof.	Interlock with earth switch instead of Pad Lock.		The cable compartment doors shall have interlocks such that doors can be opened only with earth switch in closed position
24	5.10.6	44	The process of fixing the FPI shall be fixed on the wall of the incomer LBS cable compartment along with pictorial view	FPI Shall be mounting on LVC Door of RMU, Its sensor mounted inside LBS Incomer cable compartment.		Shall be finalised druing detailed engineering
25	5.4.1	50	ACB termination shall be with tinned copper or tinned aluminium Bus Bar. Wherever required bimetallic washer to be provided if bare copper terminal is provided.	Sleeved Aluminium Busbars will be provided (The Busbars shall be Aluminium with Sleeves against requirement of Tinned Aluminium. Also in the SLD, the BB are mentioned as CU. However since AL is also mentioned)		Aluminium busbar from DTR to ACB shall be sleeved. Joints and termination points shall be tin coated.
26	5.4.1	51	Ashida make (A22F) relay to be provided for tripping the breaker with Overcurrent & earth fault protection.	L&T Make High Speed IDMT numerical Relay will be provided instead of Ashida.		Ashida- ADR241S-AM-760-09-01-28-01-00-10 is required.
27	RMU	60	3Way - 1CB & 2 LBS	Requirement of RMU with metering or not? Please confirm.		HT metering is not required. However, LT CT metering kindly go through cl.5.4.1
28	RMU	61	Rated Short time Making capacity	52.5kAp		This shall be as per tender specifications.
29	RMU	62	Tank material and grade of SS 304 and welding	We provide J4 Grade instead of SS 304		Shall be as per Tender specifications
30	RMU	63	Design of RMU shall be tamper & arc proof. Anti vandal screws shall be provided. Cable covers shall be pad lockable. All live parts and internal parts etc. shall be covered with anti theft covers	Cable cover will be interlock with Earth switch & all switched are pad lock.		The cable compartment doors shall have interlocks such that doors can be opened only with earth switch in closed position
31	5.2.11	44	Remote Control of the RMU	We will share the FRTU, IO Related points shortly.		This shall be as per tender specifications.
32	Annexure-4	78	IO List	Kindly confirm the IO requirement is 48 DI & 12 DO as per the list...?		refer Annexure 4 of tender specifications for details.

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1	d2a162bf52d2455d94218b78e1a15baf	32 of 206	1.0	1. SCOPE This specification covers technical requirement of design, engineering, manufacture, testing at manufacturing work, painting, packing, forwarding, supply, unloading at store and performance of Package type substation comprising an enclosure containing high voltage switchgear, transformer, low voltage switch gear.	Supply of 11kV CSS shall be as per Clarifications / Deviations listed below and enclosed Scope of Supply (BOQ/BOM). CSS Unloading, Installation, Erection, Testing and Commissioning is not in our scope. However, we will depute our engineer at site for supervision activities of ETC on chargeable basis, if needed Supervision charges will be furnished separately. External Cables, lugs and cable glands, Earthing & plinth are not considered in our scope.	Supply, transportation & Unloading of CSS will be in the scope of BA During Installation and commissioning of CSS, 1 manday will be in the scope of BA. If any extra mandays required that will be on chargeable basis. Bidder to quote separately.
2	d2a162bf52d2455d94218b78e1a15baf	32 of 206	2.0	2.0 APPLICABLE STANDARDS	Our CSS refers following standard, we are not confirming any other standard, IEC 62271 – 200 A.C. metal-enclosed switchgear and control gear for rated voltages above 1 kV and up to and including 52 kV IEC 62271-1 Common clauses for high-voltage switchgear and control gear standards IEC 62271-202 High Voltage / Low Voltage prefabricated substation IEC 62271 -100 High-voltage alternating current circuit-breakers IEC 60071 – 1 Insulation co-ordination for equipment in three-phase systems above 1 kV IEC 60529 Degree of protection provided by enclosures (IP-code) IEC 62271 – 102 Alternating current disconnectors (isolators) and earthing switches IEC 60282 – 1 Current limiting fuses IEC 61243-5 Working under voltage - Voltage detectors – Part 5: Voltage detection systems IEC 60044 -1 Current transformer IEC 60044 -2 Voltage transformers IEC 62265 –2 : 1988 H.V. Switches (Load Breaker Switch) IS11171-for Dry type transformer	Noted but as the Distribution Transformer is Oil Immersed instead of Dry type Please Refer IS 1180 : Oil immersed distribution transformer upto and including 2500 kVA
3	d2a162bf52d2455d94218b78e1a15baf	8 of 206	2.1	2.1 Price Variation Clause: The prices shall remain FIRM during the entire Year of contract period.	To comply with the tender, we need to maintain price validity for 210 days. After receiving the Rate Contract (RC), we must hold the set price for One year while awaiting the firm Purchase Order (PO). This results in holding a firm price for 575 days (575 days for the 1 year plus 210 days for tender validity), which is challenging without a price variation clause. Other Tata Power utilities mitigate this risk by including a price variation clause or by providing firm quantity inquiries. Therefore, we request the customer to accept a price variation clause in the tender or provide firm quantity commitments.	Tender clause prevails

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4	d2a162bf52d2455d94218b78e1a15baf	11 of 206	3.9		The offered Product is completely type tested as per standard IEC 62271-200. Available Type test reports will be provided during drawing approval. CSS Type test are beyond 5 years. Transformer available Type test shall furnished (equal or higher rating or conventional transformer type test) CSS Type test Summary attached for your reference. No fresh Type tests will be provided.	COMPLETE valid type test reports shall be submitted along with Bid documents. Type tests shall be evaluated based on CEA guidelines. Type test shall be issued from CPRI/ERDA/Any other laboratory recommended by IEC. Incase of any valid type test report is not available during technical evaluation, the same shall be conducted by the bidder and furnished as per tender specifications without any implications to TPCODL. "No change in design from the type tested design " on letter head to be submitted along with the bid.
6	d2a162bf52d2455d94218b78e1a15baf	34 of 206	4.0	3.9 Type Tests (if applicable) 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.	Internal arc rating / classification - 21KA/1 sec-A-FLR (with pressure release downwards) for RMU & enclosure is tested for IAC-AB.	Accepted
8	d2a162bf52d2455d94218b78e1a15baf	35 of 206	5.0	The Enclosure shall be made of minimum 2-3 mm thick GI sheet with a base of 3 mm (min), tropicalised to meet Indian weather condition. The base of the enclosure shall ensure rigidity for easy transport and installation. The Structure of the substation should be provided with additional supporting beams capable of supporting the gross weight of all the equipments. The roof of the substation compartments shall be designed to support adequate loads with a minimum clearance of 300 mm provided up to the top of any component installed inside the substation.	Our offering shall be in line with our Type tested design of CSS. Wherein, we have offered Outdoor 2mm thick GI sheet enclosure for the load bearing members mounted on PU Painted ISMC channel base frame 100x50x4mm and without heat dissipation. LV enclosure will be CRCA .	Accepted as per type tested design
9	d2a162bf52d2455d94218b78e1a15baf	35 of 206	5.1	There shall be no bolting arrangement on the doors and sides (periphery) so as to avoid access of dust and water inside. This would also ensure that the unit is well protected from outside nuisance owing to its being located in crowded and outdoor areas. The doors shall have provision of pad locked to ensure theft prone locking arrangement.	Trafo compartment shall have Bolted Covers . Padlocking arrangement shall be provided, however the Lock shall be in scope of customer.	Noted
10	d2a162bf52d2455d94218b78e1a15baf	35 of 206	5.1	Suitable for lifting package type substation should be provided.	As per standard design, the package substation can be lifted from the base frame.	Noted

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11	d2a162bf52d2455d94218b78e1a15baf	36 of 206	5.1.1	All metallic components of substation shall be earthed to a common earth conductor of size 50X6 tinned Cu or 65x10 mm GI strip running all along the periphery of package substation.	As per our standard design Earthing Busbar within CSS - 50x6 mm GI strip	This shall be as per Tendered specifications, i.e The provision for earthing connection shall be provided for 50X6 Cu or 65x10 mm GI strip
12	d2a162bf52d2455d94218b78e1a15baf	36 of 206	5.1.2	PAINT	We are offering our standard product paint shade as per below. Paint shade: Pure Polyester Powder coated RAL 7032 for CSS except roof ; RAL 5021 for roof.	Noted
13	d2a162bf52d2455d94218b78e1a15baf	36 of 206	5.1.3	GALVANIZING	GI sheet shall be used as per our Product standard design. GI 275	Noted
	d2a162bf52d2455d94218b78e1a15baf	37 of 206	5.2	Dehumidifier and space heater with hygro-thermostat for RMU compartment and transformer compartment shall be provided.	We will provide space heater & thermostat in CSS.	The Dehumidifier and space heater with thermostat shall be mounted inside RMU compartment outside of RMU switchgear and LV compartment outside of LV switchgear
15	d2a162bf52d2455d94218b78e1a15baf	37 of 206	5.2.1	5.2.1 The mimic board shall be provided with IP2X degree of protection for Indoor RMUs and protection for Outdoor RMUs shall be minimum IP 54(Main door closed). Cable compartment shall be IP54.	Our offered Enclosure for RMU with Degree of protection : IP3X with 2MM Sheet Thickness	Accepted as per type tested design
	d2a162bf52d2455d94218b78e1a15baf	38 of 206	5.2.10	The default design of cable compartment for TPCODL shall be suitable for 3Cx400 sq.mm cables in feeder compartments & in the breaker compartment 11kV of suitable cable size.	We are offering RMU suitable for 1 R X 3C X300 Sq.mm cable connection for incoming & outgoing connection of RMU.	Cable sizes shall be as per Tender specifications
16	d2a162bf52d2455d94218b78e1a15baf	40 of 206	5.5.17	5.5.17 Protection relay: ☐ Electronic self-powered target latched by battery or capacitive unit. ☐ There shall be Conformal Coating on relay PCB . The preferable make of relay is Ashida (ADR 241S), make relay.	we are offering self powered relay (50/51/50N/51N) as product standard. due to space limitation we are not offering other relay in our scope. Offering relay will be Schneider make relay for Conformal coating we will confirm after vendor confirmation.	Query is not clear. The make and model of Relay is already mentioned in the tender specifications
17	d2a162bf52d2455d94218b78e1a15baf	41 of 206	5.2.7	Earthing:	Shall be provide as per type tested design.	Erathing shall be as per tender specifications
	d2a162bf52d2455d94218b78e1a15baf	42 of 206	5.2.8	Voltage indicator lamps and phase comparators	We will provide VDIS.	Noted
	d2a162bf52d2455d94218b78e1a15baf	44 of 206	5.2.11	Remote Control of the RMU:	Please confirm the requirement of FRTU is in bidder scope or customer scope.	FRTU is not in the sclope of supply, however future connection with FRTU provision to be provided.
18	d2a162bf52d2455d94218b78e1a15baf	44 of 206	5.2.12	5.2.12 Paint All paint shall be applied on clean dry surfaces under suitable atmospheric conditions by seven tank process and powder coating. The overall paint thickness shall not be less than 70 microns. The paint shall not scale off or crinkle or be removed by abrasion during normal handling. The enclosure of the RMU shall be painted with shade light Grey, i.e. RAL 7032. If any damage observed after delivery same need to be touch-up painted after delivery at site.	RMU paint shall be RAL7035 instead of RAL 7032 Thickness: 100 microns +/- 25 Micron Standard	Noted.

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19	d2a162bf52d2455d94218b78e1a15baf	45 of 206	5.3	DISTRIBUTION TRANSFORMER:	Shall be offered as per Transformer Vendors standard design.	Vendor's Design should comply the tender specifications with valid type test reports.Type tests are mentioned in Cl.7.1
20	d2a162bf52d2455d94218b78e1a15baf	48 of 206	5.3.6	The provision for earthing connection shall be provided for 50X6 Cu or 65x10 mm GI strip. The bolts shall be located on the lower side of the transformer and be of M12 size for Body earthing. LV neutral bushing provided shall be used for neutral earthing.	As per our standard design Earthing Busbar within CSS - 50x6 mm GI strip	The provision for earthing connection shall be provided for 50X6 Cu or 65x10 mm GI strip.
22	d2a162bf52d2455d94218b78e1a15baf	49 of 206 51 of 206	5.3.12 5.4.1	Transformer Neutral Current Transformer -Accuracy class 5P20 3 nos dual core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), Core 1: 0.5 CL, Core 2: 5P20, 15 VA, to be used for MFM. 3 nos single core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), 0.5, 15 VA, to be used for Energy metering. 1 no single core CT 1000/5A(630 kVA) & 1600A/5A(1000 kVA), 5P20, 15 VA, to be used for neutral unbalance protection	Accuracy class for LT CT is 5P10 We are offering 1000/5A, CL-0.5, 15VA- 3 Nos. 1000/5A, CL-PS, 15VA- 1 Nos. (1 for REF) suitable rating & VA Burden for 630kVA CSS.	Tender specifications shall prevail. For CT burden : Detailed calculations to be submitted in case of any change from th tender requirement.
23		48 of 206	5.4	The framework shall be covered from the front with GI sheet of thickness not less than 2mm.	Framework of the LT panel shall be fabricated using CRCA sheet steel using 1.5/2mm thickness , instead of GI sheet of overall 2mm thickness.	This will be accepted with valid Type tested design
25	d2a162bf52d2455d94218b78e1a15baf	58 of 206	17.0	SPARES, ACCESSORIES, AND TOOLS	We have not considered spares, accessories & tools for any equipment.	Mandatory spare list to be submitted for the same and necessary tools like Operating handles and others if necessary shall be provided with Equipment without any cost implications to TPCODL.
27	d2a162bf52d2455d94218b78e1a15baf	84 of 206	5.0	5.0 PRICES/RATES/TAXES	Unloading at site or stores; delivery to stores/site & cost of documentation etc. shall not be in suppliers scope.	in bidder scope
28	d2a162bf52d2455d94218b78e1a15baf	86 of 206	9.0	9.0 STATUTORY COMPLIANCE	Obtaining Govt. approval/EI Approval /Statutory approval Certificates shall be in Customer scope.	All Statutory approval Certificates till delivery of equipment will be in bidder scope.
29	d2a162bf52d2455d94218b78e1a15baf	91 of 206	12.2	12.2 Right to Rejection on Receipt Goods/Material/Equipment delivered in condition physically damaged & incomplete as a product ordered, or not packed and transported as per the terms and conditions of the contract is liable to be rejected. Such item shall be lifted back by Associates within 15 days from receipt of rejection note from TPCODL and have to supply back the material within next 30 days or within the timeframe mutually decided by Associate and TPCODL.	Goods/Material/Equipment delivered in condition physical damaged & incomplete as a product ordered, or not packed and transported as per the terms and conditions of the contract is liable to be rejected. Rejection note for such rejected material shall be issued by TPCODL within 15 days from the date of receipt of material at site. Such item shall be lifted back by Associates within 15 days from receipt of rejection note from TPCODL and have to supply back the material within next 30 days or within the timeframe mutually decided by Associate and TPCODL.	Tender clause prevails

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30	d2a162bf52d2455d94218b78e1a15baf	92 of 206	13.3	13.3 Failure in Guarantee Period (GP) If during the Warranty/ Guarantee period some parts of the supplies are replaced owing to the defects/ damages under the Warranty, the Warranty period for such replaced parts shall be until the expiry of twelve months from the date of such replacement or renewal or until the end of original Guarantee period, whichever is later.	No separate extended warrantee shall be provided for replaced parts.	Tender clause prevails
31	d2a162bf52d2455d94218b78e1a15baf	93 of 206	13.3	In case the Associate is not able to rectify/ replace the faulty equipment/ material within the stipulated timelines as mentioned above, penalty shall be levied as per the Liquidated Damages clause mentioned in this document. The penalty amount shall be recovered from the payment due to the vendor or by encashment of the SPBG as the case may be.	Said clause shall be removed. LD/penalty on account of warrantee failure shall not be in acceptable to us.	Tender clause prevails
32	d2a162bf52d2455d94218b78e1a15baf	93 of 206	13.6	13.6 Latent Defect Hidden defects in manufacturing or design of the product supplied and which could not be identified by the tests conducted but later manifested during operation of the equipment are termed as latent defects. Associates shall further be responsible for 'free replacement' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Company.	Only design defects shall be considered in latent defects. If manufacturing defects are included in the same then there is no change in normal warrantee & latent defect warrantee.	Tender clause prevails
33	d2a162bf52d2455d94218b78e1a15baf	95 of 206	17.0	17.0 INTELLECTUAL PROPERTY RIGHTS	Any intellectual property developed or acquired by Associate during course of contract shall be owned by Associate. TPCODL will such rights as granted by Associate in intellectual property so developed.	intellectual property rights will be as per tender documents
34	d2a162bf52d2455d94218b78e1a15baf	96 of 206	20.0	20.0 FORCE MAJEURE	safety measures against covid, quarantine restrictions shall be force majeure events.	noted
35	d2a162bf52d2455d94218b78e1a15baf	100 of 206	22.3	22.3 Termination for Convenience of TPCODL TPCODL at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Associate. TPCODL shall pay the Associate for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Associate to that effect.	In case of termination for convenience of TPCODL, Associate shall also be paid for the cost of work in progress along with supplies/services rendered until date of termination.	it will be as per GCC page no 22/43 , clause (b)
37				General point	Offered RMU is 12KV, Indoor, Non Extensible, RMU (as per BOQ/BOM) with bottom explosion (for internal arc fault).	Noted
38	Termination Kit	35 of 206	5.1	Termination bolts and boots for RMU shall be supplied by bidder.	HT Cable Termination Kit (For incoming cable feeder) is not in our scope. However interconnection from VCB to Transformer is considered in our scope. (Applicable only for CSS)	Noted
39	Routine Test			General point	We shall carry out Routine Test as per our Quality Assurance Plan (QAP). QAP shall furnished at the time of detailed engineering drawing .	TPCODL QAP shall be followed. Same shall be provided during Technical evaluation

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40	Type Test			General point	Available Type test reports will be provided. No fresh Type tests will be provided.	Noted. Incase of any type test report discrepancy or non mutual agreement during tender evaluation bid shall be liable for rejection.
41	Warranty			General point	We shall provide warranty of 36 months from the date of commissioning or 48 months from date the date of supply, whichever is earlier.	This shall be as per Cl.11 of Tendered Specifications
42	Civil works			General point	Civil work is not in the scope of Siemens and quoted prices are exclusive of civil work. However, if required, CSS Civil foundation drawing shall be provided by us.	Noted. Civil Foundation drawing shall be submitted for approval during detailed engineering.
43	List of Make			General point	We are proposed following list make as below for in our CSS RMU - Siemens Dry Type Transformer - 630kVA (ECS/TMC/Raychem/Powerstar/PVJ/Eq.) LV Switchgear - L&T/C&S/Siemens/ABB/Eq. (ACB,LV product) All other Product - from Siemens approved vendor.	Tender specification shall prevail. Incase of any other make apart from Tendered specifications, valid type test reports as per TS and performance feedback, to be submitted. Incase of any document shortfall, TPCODL reserves right to reject the proposed make.
44				General point	Boughtout makes shall be finalized by Siemens, out of the makes proposed in the BOQ	Same shall be mentioned in Detailed BOM of drawing. Incase of any discrepancy, Bidder to adhere to recommendation from TPCODL on any specific make.