

Tata Power Northern Odisha Distribution Limited, Balasore

Pre-Bid Query Resonse NIT-021, 33kV RMU

SN	Document Reference	Page Ref	Clause Ref	Requirement as per Tender	Ammdment Proposed	Justification	TPNODL Remarks
1			1.1	Scope of work		Our Scope is limited to design, manufacture, testing at manufacturer's works, packing, forwarding, & supply of SF6 gas Insulated RMU as per given specification, clarification / deviation listed below. All works related to unloading of material at site / store, storage of material at site, moving at site, RMU "erection, testing and commissioning" is excluded from our scope. However, we can depute our engineer at site for supervision activities on per diem rate if required. External Cables, lugs and cable glands are not considered in our scope.	Loading and unloading will be in bidders scope as specified in scope. Installation, testing, and commissioning under the supervision of OEM representative is accepted.
2			3.9, 8.0	The type tests specified in TPNODL 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 TPNODL.		Kindly note, some of the test reports may be older than 5 years. However, there is no change as far as tested design is concerned. Also, as per latest guidelines from CEA, type test validity shall be for 10 years. Moreover, IEC does not specify about conducting repeat tests after specific durations unless there is change in design. In this view, we do not envisage any fresh type testing. However, we shall submit type test reports for type tests carried out on similar product.	Ok but there should not be any change in design.
3			7.1,7.3	Delivery period shall be 10-12 weeks from the approval of GTPs and drawings. BA needs to submit drawings within 10 Days from award.		Delivery shall be commencing from 22-24 weeks from drawing approval and shall be discuss mutually depending on no of qty deliverable in various lots, Drawings shall be submitted within 3 weeks from the date of PO. Drawings shall be approved within 1 week from the date of submission..	Need to comply as per specification.
4			7.1	Ratings of RMUs will be informed in RO.		We have considered that rating of RMU shall be 33kV,630A,25kA/1Sec. Please confirm the same	SC rating is 25kA/3Sec
5			3.0	a) Max. ambient temperature : 50 deg. C		Please note that the design ambient temperature considered is 40 Deg C. All ratings are designed as per this ambient condition. Above ambient of 40 Deg C, suitable derations shall apply. Product is suitable to be used at max 50Deg C ambient.	Need to comply as per specification.
6			4.0	Min Gas Pressure 0.05 Bar G		Min recommended gas pressure for safe operations shall be 1.3 Bar at 20 deg C	ok
7			4.0	Lightning Impulse Withstand voltage 145kVP Power Frequency Withstand voltage 50kV rms		Lightning Impulse Withstand voltage 170kVP Power Frequency Withstand voltage 70kV rms	ok
8			4.0,19.0	Rated cable Charging interrupting Current of Incomer Load Break Switch : 25kA		Rated cable charging interrupting current of Incomer Load Break Switch shall be 50 A	OK, cable charging interrupting current is 50A
9			4.0	Temperature Rise Maximum permissible temperature for bus bar shall not be 90 Deg C, as per IEC 6094 And IEC 62271.		Permissible temperature rise at 40 °C for Busbars shall be 65 K (105°C)	Need to comply as per specification.
10			4.0	Functional Requirements: This specification covers 33kV Ring Main Unit (RMU) of following functions A) 4 Function Non Extensible/ Extensible Network Ring Main Unit comprising of: 4 Nos. 630A Incomer Load Break Disconnecter Switches 2 Nos. Electronic Fault Passage Indicator per RMU B) 4 Function Non Extensible/ Extensible Local Transformer Control Ring Main Unit comprising of: 2 Nos. 630A Incomer Load Break Disconnecter Switches 2 Nos. 630A Local transformer Control SF6/Vacuum Feeder Circuit Breakers with self powered O/C + E/F relays & Shunt tripping coil 2 Nos. Electronic Fault Passage Indicator per RMU C) 3 Function Non Extensible/ Extensible Network Ring Main Unit comprising of: 3 Nos. 630A Incomer Load Break Disconnecter Switches 2 No. Electronic Fault Passage Indicator per RMU D) 3 Function Non-Extensible/ Extensible Local Transformer Control Ring Main Unit comprising of: 2 Nos. 630A Incomer Load Break Disconnecter Switches 1No. 630A Local transformer Control SF6/Vacuum Feeder Circuit Breakers with self powered O/C + E/F relays & Shunt tripping coil 2 Nos. Electronic Fault Passage Indicator per RMU		Kindly confirm for this tender which functional requirement needs to be offer	i) For 3 way operation- 2LBS + 1 BREAKER ii) For 4 way operation - 2LBS + 2 BREAKER

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11			4.0	RMU should be designed in such a way that if required in future, motors can be provided for remote operation		Please confirm whether we have to provide manual operated load break switch and breaker?	Ok provide manual operated load break and breaker.
12			4.0	All RMUs envisaged are extensible type only and extensible on both the sides of the RMU.		Kindly confirm whether RMU requirement is for Indoor or Outdoor application. We can offer extensible type RMU for Indoor application and Non extensible type RMU for outdoor application	All outdoor application required.
13			4.0	Cable terminal should be easily accessible externally for IR test.		Please note that as per relevant standards and considering the safety of the operator, access to cable test bushing for testing purpose is possible only after the respective feeder is EARTHED. Remove the cable compartment cover and test the cables via probes. However, disconnection of cable terminations, cable joints and terminal protectors from cable bushings are not required. Access to live test terminals after opening the cover located at the front fascia (without earthing) may lead to accidents and is dangerous from operator safety point of view. Hence, we do not provide live test terminals in the front fascia.	After opening the cable door cable test terminals should be accessible and earth switch can be disconnected.
14			5.1.1	The RMU shall be designed so that the position of the different devices is visible to the operator on the front of the switchboard and operations are visible as well.		The position of the power contacts and earthing contacts shall be clearly visible on the front of the RMU with the help of mechanical MIMIC with position indicators which shows the ON-OFF-EARTH position of the 3 position switch & VCB ON & VCB OFF.	ok
15			5.1.3	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		Requirement is not clear please elaborate	LBS & CB shall be motorised for remote controlling with push button operation. But earth switch shall be manually operated.
16			5.1.4	Three toroid transformers incorporated in the transformer tee-off bushings,		Protection CT's shall be provided. There is no toroidal window CT for Earth fault protection. The normal Earth fault protection is provided by the R, Y, B CTs input to the Relay. Also we understood that there is no requirement of metering CT and meters. Please confirm the same	OK
17			5.1.4	A "fast-on" test receptacle for protection testing (with or without CB tripping)		Requirement is not clear please elaborate	Trial tripping in test mode fuction in relay
18			5.1.4	The terminal protectors to be supplied with the RMU by the vendor along with the cable termination bolt for termination 185 Sq. mm 22kV 1C cable or 33kV 3C 400 Sq. mm cable in breaker & 400 Sq. mm 33kV 3 C for isolator compartment.		Currently we have considered 1RX3CX400sqmm Cable size for both LBS & VCB. Pls confirm the same. Also note trifurcation shall be outside RMU.	Need to comply as per specification.
19			5.1.11	The FPI should be communicable FPI so that the status will be available on DAS.		FPI shall have potential free output contacts (1NO & 1NC) which shall be wiredout upto terminals for SCADA or DAS. Further connection shall not be in our scope.	2 NO, 2 NC required
20			5.1.11	Provision for relay testing and FPI testing without taking outage of FPI and relay to be made available.		Requirement is not clear please elaborate	Test button is required and Trial tripping in test mode fuction in relay
21			5.1.12	Signal requirement for field RTU (which shall be mounted near RTU) is attached (refer Annexure-1). The bidder shall quote the cost of field RTU (FRTU) separately with all technical details for acquisition of the signal as described in Annexure-1.		Please confirm whether FRTU Panel, FRTU, Modem, & inetrfacing devices shall be in whose scope.	These are non-motorised RMU
22			5.1.12	The bidder shall quote the unit price for supply and fitting of the motor into the line switches and circuit breakers at a later date.		We understood that there is a requirement of manual operated load break switch and breaker. Please confirm the same	ok
23			6.0	RMU which need to be used for outdoor application should be having enclosure specified with IP55 degree of protection in accordance with recommendation of IEC 529. Type test certificates for test conducted earlier on similar equipments shall be furnished.		Kindly confirm whether RMU requirement is for Indoor or Outdoor application. We can offer extensible type RMU for Indoor application and Non extensible type RMU for outdoor application. For outdoor application degree of protection shall be IP 54 and IP3X for indoor application as per our type tested design	Need to comply as per specification.
24			6.0	NAME PLATE & MARKING Name plates shall be suitably embossed with "PO no. with date" "PROPERTY OFTPNODL" & "CODE NUMBER" along with the following information.		We understood that CODE NUMBER shall be provided by TPNODL. Please confirm	Will be provided during GTP approval

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25			19.0	RMU Category 3 Way - Extensible right side 3 Way - Non-Extensible 4 Way - Extensible right side 4 Way - Non-Extensible		Kindly confirm for this tender which functional requirement needs to be offer	i) For 3 way operation- 2LBS + 1 BREAKER ii) For 4 way operation - 2LBS + 2 BREAKER
26			19.0	RMU Application - Indoor		Kindly confirm whether RMU requirement is for Indoor or Outdoor application. We can offer extensible type RMU for Indoor application and Non extensible type RMU for outdoor application. For outdoor application degree of protection shall be IP 54 and IP3X for indoor application as per our type tested design	All outdoor application required.
27			19.0	SF6 Gas leakage Detector 1 per 25 RMUs Subject to Minimum One Number		We will consider 1 No. gas leak detector as there is requirement of total 20 Nos. RMU. Please confirm	OK
28			19.0	Degree Of Protection The RMU metal parts shall be greater than 2.0 mm thickness high tensile steel which must be shot blasted, spray galvanised with minimum thickness of 30 micron and subsequently powder coated. The overall Paint thickness shall be not less than 70 microns.		Material and thickness of the enclosure (gas vessel) : Stainless-steel sheets - ≥ 2.0 mm thick; Material designation: Stainless steel Material and thickness of the enclosure (Outer) : CRCA - 2.0 mm thick; Material designation: CRCA Treatment Process shall be 7 tank Powder coating. Paint layer thickness shall be 100 microns +/- 25 Micron Standard	ok
29			19.0	Power frequency withstand 28kVrms		Power Frequency Withstand voltage 70kV rms	OK
30			19.0	SF6 tank design : Sealed pressure system by Laser welding so that no refilling of gas is required for 30 years.		Sealed pressure system by robotic/TIG welding.	Robotic welding can be considered
31			19.0	Moving contacts of earthing switch shall be visible in closed position thru transparent covers		The position of the power contacts and earthing contacts shall be clearly visible on the front of the RMU with the help of mechanical MIMIC with position indicators which shows the ON-OFF-EARTH position of the 3 position switch & VCB ON & VCB OFF.	OK
32			19.0	Fitting of motor at site shall be possible & shall have mechanical interlock.		We understood that there is a requirement of manual operated load break switch and breaker. Please confirm the same. Also elaborate requirement of mechanical interlock	Presently manual operated required.
33			19.0	Make of Relay SEG-WIP1 or Schneider-VIP 300 or REJ 603 or any other as per Purchasers Approval.		We request you to accept Siemens make 7SR45 self Powered Relay having protections (50,51,50N,51N) with RS 485 communication port. Please confirm the same.	ok
34			19.0	Testing of cable-without opening the doors.		Please note that as per relevant standards and considering the safety of the operator, access to cable test bushing for testing purpose is possible only after the respective feeder is EARTHED. Remove the cable compartment cover and test the cables via probes. However, disconnection of cable terminations, cable joints and terminal protectors from cable bushings are not required. Access to live test terminals after opening the cover located at the front fascia (without earthing) may lead to accidents and is dangerous from operator safety point of view. Hence, we do not provide live test terminals in the front fascia.	After opening the cable door cable test terminals should be accessible and earth switch can be disconnected.
35			19.0	Cable covers shall be pad lockable.		The cable cover compartment shall be interlocked with earth switch. The cable compartment cover can only be removed if the feeder is earthed.	ok
36			19.0	Hinged doors shall be provided. the hinges for the doors need to be riveted and shall not have any access from outside. Bolted hinges shall not be acceptable.		The cable cover compartment shall be interlocked with earth switch. The cable compartment cover can only be removed if the feeder is earthed.	ok.
37			19.0	Earth fault passage indicator One Per RMU with as a part of RMU		We have considered only earth fault indicator. Please confirm	Phase & earth FPI for all LBS required.
38			19.0	Paint TPNODL Blue PANTON E 2727C		The paint shade for the RMU shall be light grey "RAL7035".	ok

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39			19.0	54.1 Internal Arc Test Not older than 5 years from the date of opening of Bid 54.2 Temp Rise Test Not older than 5 years from the date of opening of Bid 54.3 STC Test Not older than 5 years from the date of opening of Bid 54.4 Lightning Impulse withstand Not older than 5 years from the date of opening of Bid 54.5 Power frequency withstand Not older than 5 years from the date of opening of Bid 54.6 IP Protection Not older than 5 years from the date of opening of Bid		Kindly note, some of the test reports may be older than 5 years. However, there is no change as far as tested design is concerned. Also, as per latest guidelines from CEA, type test validity shall be for 10 years. Moreover, IEC does not specify about conducting repeat tests after specific durations unless there is change in design. In this view, we do not envisage any fresh type testing. However, we shall submit type test reports for type tests carried out on similar product.	Ok but there should not be any change in design.
40			19.0	55 Availability of Spares Assurance by bidder for 25 Years		We request you to provide spares list.	It should cover all the electrical and mechanical spares which are repairable/ replaceble during the course of RMU in service.
41			19.0	Additional IOs :- RMU switch Control Command Earth Sw. 1 Status Input Earth Sw. 2 Status Input FPI Reset FRTU Local/Remote Position FRTU Door Open FRTU Battery Charger Faulty FRTU Switchgear Supply Off FRTU Aux Supply Off FRTU Fault Relay operation CB OFF status CB ON status CB ON/OFF Command		1) Please confirm whether FRTU Panel, FRTU, Modem, & inetrfacing devices shall be in whose scope. 2) We treat the same as Local /Remote Indication 3) Local/Remote switch shall be mounted on RMU panel (Not FRTU). We have considered L/R switch common for one RMU 4) Please ealborate the requirement & scope of battery charger. Who will be responsible for provide AC and DC auxiliary supply at site. 5) Please elaborate FRTU Switchgear Supply Off, FRTU Aux Supply Off & FRTU Fault 6) We treat the same as O/C+E/F relay operated. Please confirm	FRTU need not to be considered. However, all LBS, VCB, control, comand status to be wired till TB for future SCADA intgration.
42			19.0	Warranty		As per clause no. 19.0 (Point no. 50) We have considered 36 Months from the date of commissioning or 48 months from the date of last supplies, whichever is earlier. Please confirm	Guarantee period will be 48 months from the date of commisioning or 60 months from the date of delivery of final lot of supplied made, which ever is earlier.
43	3.0 Climate conditions of the Installation			Operating Temperature		RMU shall be capable of operating normally -25 Deg. C to +40 Deg. C Temperature range.	ok. Shall be as per IEC
44	3.0 Climate conditions of the Installation			Air Temperature		Offered RMU tested at ambient temperature of 40 °C as per IEC. However, Offered RMU is suitable for 50 Deg. C but with suitable derating i.e. 570A.	ok. Shall be as per IEC
45	4.0 General Technical Requirement			Internal Arc		Pl. confirm Internal Arc requirement i.e. 20KA/1 Sec. or 25KA/1 Sec.	Need to comply as per specification.
46	4.0 General Technical Requirement			Extensible		At present we have considered Non - Extensible RMUs. Please clarify if requirement is Extensible RMU.	Non-extensible required

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47	4.0 General Technical Requirement			Space Heaters		Not Required	ok
48	4.0 General Technical Requirement			IR Test		IR Test shall be possible during Off condition only.	OK
49	5.1.2 Earthing Of the Maint Circuit			Provision for connecting the earth strip		We shall provide Copper strip and the size shall be 25X4 sufficient for STC requirement as per tender requirement.	ok
50	5.1.3 Paint			RAL 7032		We will provide RAL 9003 paint shade for RMUs & Outdoor Enclosure with RAL 7032 paint shade in case of OD RMU requirement.	OD RAL 7032 is ok.
51	5.1.4. "Feeder and Local Transformer Control circuit-breaker" feeders			ok		Protection CT AC. CL. Shall be depends upon TF rating. Please confirm exact TF ratings to select CT ratio. Offered Self Powered Relay Settings for O/C & E/F Protections shall be as per Manufacturer's standard practice. Further Relay is having Trip LED Indication hence we are not providing separate flag for the same.	ok.CTR 400-200/1-1
52	5.1.4. "Feeder and Local Transformer Control circuit-breaker" feeders			Cable Size		RMU cable chamber is suitable to termination 1 No. X 3C X 400 Sq. mm cable for Isolator & Breaker Feeder.	ok
53	5.1.7 Voltage indicator and phase comparators			Phase Comparators		Please confirm the requirement of phase comparators with each RMU.	Four nos of phase comparatr per lot
54	5.5 Remote Control of the RMUs			Spare NO & NC Contacts		Not applicable because at present we have offered RMUs are Manual type & as per this clause supply and fitting of the motor into the line switches and circuit breakers at a later date. Please clarify if RMU to be required with Motorised mechanism.	Motorised mechnism is required. 3 NO & 3 NC required for SCADA compatibility
55	5.1.12 Remote Control of the RMUs			Harting Plug		We have considered one common Harting Plug for all four Functions for SCADA singals and same shall be installed or mounted in LV chamber on left hand side of one CB Function due to space constrain in LV chamber instead of providing separate Harting Plug for each function.	ok
56	5.1.12 Remote Control of the RMUs			Aux. Contact for Low Gas Pressure		We will provide one change over contact for Manometer instead of Auxiliary Contact.	ok
57	7.0 Tests			4. Temperature rise test 5. Internal Arc withstand test		Both tests are part of Type Tests & same can't be performed during Routine Test.	ok
58	8.0 Type Tests					Please note that we have all Type Test Reports of 33 kV RMUs (Type FLUSARC) & same are type tested as per IEC standards but not within 5 years period. Further we have not changed anything in design parameters of 33KV RMUs, hence we have not conducted any new / repetitive type test against this tender. Request you to accept the same.	Ok but there should not be any change in design.

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59	17.0 Spares, Accessories & Special Tools / gauges			GAS leak indicator		We have not considered gas leak indicator in our offer since as per GTP 1 No. per 25 RMUs however tender Qty. Request you to confirm the requirement for the same.	OK
60	GTP - Min Gas Pressure			0.05 BarG		0.2 bar	ok
61	Annexure-I Price Schedule			RMU Installation		At present we have considered RMU suitable for Indoor application. Please clarify in case of Outdoor installation.	All outdoor application required.
62	Annexure-I Price Schedule			RMU Configurations		We have considered RMU configurations as below : SUPPLY OF 33kV 4 WAY RMU - 2 Nos. of LBS + 2 Nos. of VCB SUPPLY OF 33kV 3 WAY RMU - 2 Nos. of LBS + 1 No. of VCB Please clarify in case of any other RMU configuration.	i) For 3 way operation- 2LBS + 1 BREAKER ii) For 4 way operation - 2LBS + 2 BREAKER
63	Pg. No 6 of 137 1.4.4 Mandatory documents required along with the Bid			Drawing, Type Test details along with a sample of each item as specified at Annexure I (as applicable)		Drawing, Type Test Report will be submitted. However, submission of sample item is not possible	Ok
64	Pg. No 7 of 137 1.7 Qualificatio n Criteria			The bidder should procure equipment & services from the Manufacturers Approved /authorized by TPNODL.		We are the manufacturer of the tender item. Kindly share TPNODL approved list of service provider.	ok. But relay shall be as per our requirement
65	Pg. No 10 of 137 3.1 Bid Submission Signing of Bid Documents			The bid must contain the name, residence and place of business of the person or persons making the bid and must be signed and sealed by the Bidder with his usual signature.		Considering current situation we are adapting minimum paper transicion. In view of which, please allow us to sign the documents through digital signature format other then hard copy signature.	Ok, Considering the conditions, ARIBA accepting the same
66	Pg. No 11of 137 3.3 Price Bid			The bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total price with taxes, duties & freight up to destination at various sites of TPC. The all-inclusive prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during the execution of the supply work, breakup of price constituents.		As per clause 3.3 Price bid and Annexure - I, Note - 4. The unit Ex-Work price should be inclusive of Freight & Insurance. We request to amended the Price Bid with separate coloum for Freight & Insurance. Also, share the store address where desired delivery is required. It will help us to calculate the unloading, Freight, & Insurance amount, considering continuously increase in the fuel cost.	As per tender only, TPNODL Main Store, Balia, Balasore
67	Pg. No 12 of 137 3.9 Type Test 8.0 Type Test Certificate			The type tests specified in TPC 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 TPC		As per Central Electricity Authority guideline the validity of type test for medium voltage switchgear is for 10 years, attached copy for your referemnce. Furthermore, we confirm that there is no change in offered design.	Ok but there should not be any change in design.
68	Pg. No 12 of 137 4.2 Technical Bid Opening			The technical bid of the bidders who have furnished the requisite EMD will be opened, one by one. The salient particulars of the techno commercial bid will be read out at the sole discretion of TPNODL.		Will the result of Technical bid opening share on TPNODL website	As per TPNODL decision & conditions
69	Pg. No 13 of 137 5.0 Award Decision			TPNODL reserves all the rights to award the contract to one or more bidders so as to meet the requirement or nullify the award decision without assigning any reason thereof.		What will be the ratio quantity of L1 bidder against other bidder.	Since this is a rate contract so RO will be issued as per the requirement. However if need further value enhancement in the RC vendor acceptance will be taken.

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70	Pg. No 14 of 137 7.1 Special Conditions of Contract			Within 15 days of Rate Contract issuance by TPNODL, it is the responsibility of BA to get manufacturing clearance and CAT-A issued from TPNODL. In case BA does not get necessary approvals for issuance of CAT-A within mentioned timelines, then TPNODL reserve the right to cancel issued rate contract / release order and also reserve the right to forfeit EMD / PBG.		We will submit the detailed engineering drawing within 15 working days after issue of Purchase order for approval. However, manufacturing clearance & drawing approval is depend on TPNODL & its approval should not effect forfeit EMD / PBG.	Successful bidder shall submit the drawing within 7 days from date of issuance of RC. Further, bidder shall submit the clarification within 3 days from date of query raised by technical team-TPNODL regarding drawing approval. In case, there will be delay on account of these timelines on BA part, same shall be considered in total delivery period.
71	Pg. No 14 of 137 7.1 Special Conditions of Contract			Delivery period shall be 10-12 weeks from the approval of GTPs and drawings. BA needs to submit drawings within 10 Days from award.		Delivery period shall be 12-14 weeks from the approval of GTPs and drawings. BA needs to submit drawings within 10 Working Days from award.	Need to comply as per specification.
72	Pg. No 14 of 137 7.5 Payment Terms			On delivery of the materials in good condition and certification of acceptance by certified official		What are the condition for issuing certification of acceptance by certified official	Materials received at site/store in good condition after unloading.
73	Pg. No 17 of 137 Annexure - I			Description		As per technical specification pg 124/137 Functional requirement, which varaint of 4 way & 3 way is required.	i) For 3 way operation- 2LBS + 1 BREAKER ii) For 4 way operation - 2LBS + 2 BREAKER
74	Pg. No 17 of 137 Annexure - I			Note: The quantity mentioned above is for evaluation purpose only and may vary during the execution. Release Orders against this Rate Contract shall be issued by TPNODL as per actual requirement		What will be the qty variation +/- 10% or different	it will be RC of fixed quantity
75	Pg. No 17 of 137 Annexure - I			Note: Delivery of material shall be in Odisha and same shall be mentioned in respective release order.		Kindly share store address, this will help to consider Freight amount	As per TPNODL decision & conditions
76	Pg. No 19 of 137 Annexure - IV			1c. Inclusive of Excise Duty 1d. Sales tax applicable at concessional rate 1e. Octroi payable extra		Please note that Excise Duty, Sales Tax, are replace by GST. Octroi is not applicable. Kinldy change accordigly and issue amended Annexure - IV	As per Tender Only
77	Pg. No 20 of 137 Annexure - V			17. Credit rating/ Solvency certificate		We are sharing audit balance sheet and Turnover Certificate in that case is it mandatory to submit Solvency certifiacte or exemption is allow	CA Certified Solvency Certificate will be applicable only, exemption is not available now.
78	Pg. No 52-73 of 137			Anneure B- D Annexure - E & subsequeent Section A-E & Annexure - G-H Annexure VIII - X		Is to be submitted after award of contract Optional NA	Discuss in the financial Evaluation
79	Pg. No 124 of 137 T.S.RMU 4.0 General Technical Requirement			Power Frequency Withstand voltage: 50kVrms		As per IEC 62271-1 Power Frequency Withstand voltage: 70kVrms for 33kV system	ok
80	Pg. No 124 of 137 T.S.RMU 4.0 General Technical Requirement			Rated Short Circuit Making Current: 50kA		As per IEC Rated Short Circuit Making Current: 62.5kA for short circuit of 25kA	ok

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81	Pg. No 124 of 137 T.S.RMU 4.0 General Technical Requirement			Functional Requirements		Kindly confirm which 4 Way & 3 Way combination is required as per Annexure - I	i) For 3 way operation- 2LBS + 1 BREAKER ii) For 4 way operation - 2LBS + 2 BREAKER
82	Pg. No 125 of 137 T.S.RMU 4.0 General Technical Requirement			If required in future, motors can be provided for remote operation		Kindly confirm LBS & CB both are manual for 4 Way & 3 Way	Both are manual operated
83	Pg. No 125 of 137 T.S.RMU 4.0 General Technical Requirement			Space heaters to be provided in each cable compartment.		Cable termination are of touch proof designed. Hence, space heater are not required for cable compartment.	ok
84	Pg. No 125 of 137 T.S.RMU 4.0 General Technical Requirement			Cable terminal should be easily accessible externally for IR test.		Kindly confirm requirement of cable & test facility without opening cable box thorough external bushing	After opening the cable door cable test terminals should be accessible and earth switch can be disconnected.
85	Pg. No 126 of 137 T.S.RMU 5.1.4. "Feeder and Local Transformer Control circuit-breaker" feeders			The CTs of 5P20 Class shall be employed		Considering the requirement of space heater in cable box & compactness of unit. The CTs of 5P10 class can be employed.	Need to comply as per specification.
86	Pg. No 126 of 137 T.S.RMU 5.1.4. "Feeder and Local Transformer Control circuit-breaker" feeders			The transformer ratings which are to be controlled by the breaker are as follows: 400kVA to 2000kVA.		Kindly confirm type of CTs required Tape Wound or Resin Cast, Single core or double core. Is metering CTs is required? & if yes, then in which verticle LBS or CB or both. Also, share any approved make or allow as per manufacturer standard.	Resin Cast CT required. Two cores required (metering & protection)

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Pre-Bid Query Resonse NIT-021, 33kV RMU

SN	Document Reference	Page Ref	Clause Ref	Requirement as per Tender	Ammdement Proposed	Justification	TPNODL Remarks
87	Pg. No 126 of 137 T.S.RMU 5.1.4. "Feeder and Local Transformer Control circuit-breaker" feeders			The terminal protectors to be supplied with the RMU by the vendor along with the cable termination bolt for termination 185 Sq. mm 22kV 1C cable or 33kV 3C 400 Sq. mm cable in breaker & 400 Sq. mm 33kV 3 C for isolator compartment.		For 33kV, Touch proof cable termination is required. Kindly confirm is this in bidder scope or in buyer scope. Also, share any approved make or allow as per manufacturer standard.	Need to comply as per specification.
88	Pg. No 126 of 137 T.S.RMU 5.1.5.RMU bushings and Cable terminations			Note: Supply of Cable terminations is not considered to be part of RMU.		Kindly confirm, supplying of cable termination/ cable protector boots is in bidder scope or in buyer scope.	Cable terminations not in bidder scope.
89	Pg. No 128 of 137 T.S.RMU 5.1.12.Remote control of the RMUs			The RMUs shall be provided with arrangements for remote monitoring the position of Line switches and o/g breaker modules. There should be harting plug arrangement for individual Isolator as well as breaker motor connections, which will be fitted on the RMU body itself. Also the PCB of motor should be covered by anti tracking agent. This will reduce commissioning time as well as corrosion of contacts, lose connection And insure 100% operation of motor. There should be relay with timer instead of only relay, which is used in the latching circuit.		Kindly confirm LBS & CB both are manual for 4 Way & 3 Way	Both are manual operated
90	Pg. No 128 of 137 T.S.RMU 5.1.12.Remote control of the RMUs			Signal requirement for field RTU (which shall be mounted near RTU) is attached (refer Annexure-1). The bidder shall quote the cost of field RTU (FRTU) separately with all technical details for acquisition of the signal as described in Annexure-1. The bidder shall quote the unit price for supply and fitting of the motor into the line switches and circuit breakers at a later date.		Kindly clarify, Scope of supply of RTU is inclusive of tender or exclusive. Also, share make of RTU. Kindly connfirm, RMU is motorized or manual.	RTU is exlusive of tender. RMU is manual
91	Pg. No 128 of 137 T.S.RMU 6.0 RMU Enclosure			RMU which need to be used for outdoor application should be having enclosure specified with IP55 degree of protection in accordance with recommendation of IEC 529.		Kindly allow is per manufacturer Type tested designed for outdoor application.	Need to comply as per specification.
92	Pg. No 128 of 137 T.S.RMU 5.1.13. Paint			The enclosure shall be painted with shade RAL 7035. Sufficient quantity of touch-up paint shall be furnished for application at site.		Kindly allow is per manufacturer Standard.	ok

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93	Pg. No 128 of 137 T.S.RMU 7.0 Tests			<p>All the tests shall be witnessed by the purchaser/his authorized representative.</p> <p>Following tests shall be necessarily conducted on the equipment and its components in addition to others specified in the IS/IEC.</p> <ol style="list-style-type: none"> 1. Dimensional and visual check 2. Mechanical operation test and checking of interlocks 3. Dielectric test on main and control circuits 4. Temperature rise test 5. Internal Arc withstand test 6. Degree of protection test 7. Test to check the capability of main and earthing circuits subjected to rated peak and short time withstand current 8. Stability Test on the self powered electronic relay 9. Contact Resistance Measurement (CRM), Hi Pot Test with Leakage current Test 10. Trial Tripping of the main circuit from the relay. 		<p>To & Fro travelling charges, accomadation, local & any accidental expenses is in TPNODL scope.</p> <p>Kindly allow equiment testing as per manufacturer routine testing before dispatch</p>	<p>To & Fro any testing inspection related expenses is in TPNODL scope.</p>
94	Pg. No 130 of 137 T.S.RMU 11.0 Guarantee			<p>In the event any defect found by the purchaser up to a period of at least 48 months from the date of commissioning or 60 months from the date of last supplied made under the contract whichever is later,</p> <p>Bidder 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 Purchaser.</p>		<p>Kindly clarify Guarantee period, as per Special condition of contract Clause no 7.4 Guarantee/Warranty Period of the supplied material shall be of 18Months from the date of supply of material at TPNODL</p> <p>Any guarantee beyond guarantee period is not acceptable</p>	<p>Guarantee period will be 48 months from the date of commisioning or 60 months from the date of delivery of final lot of supplied made, which ever is earlier.</p>
95	Pg. No 132 of 137 T.S.RMU 19.0 GTP			<p>2. RMU Application: Indoor</p>		<p>Kindly confirm RMU Application: Indoor or Outdoor</p>	<p>All outdoor application required.</p>
96	Pg. No 133 of 137 T.S.RMU 19.0 GTP			<p>33. Make of Relay SEG-WIP1 or Schneider-VIP 300 or REJ603 or any other as per Purchasers Approval.</p>		<p>Kindly also add Ashida & C&S make in approved list for relay</p>	<p>C&S not acceptable. Ashida is ok.</p>
97	Pg. No 134 of 137 T.S.RMU 19.0 GTP			<p>41.3 Height: Minimum 1200mm above GL</p>		<p>Kindly allow as per manufacturer Type Tested Designed.</p>	<p>Minimum height to be compiled</p>
98	Pg. No 134 of 137 T.S.RMU 19.0 GTP			<p>42. Earth fault passage indicator: One Per RMU with as a part of RMU</p>		<p>Kindly clarify requirment is for Earth fault indiactor covering earth fault only or Fault passage indicator covering overcurrent & earthfault.</p> <p>Also, as per Technical Specification 4.0 Funtional requirment it is mentioned 2 FPI for LBS.</p>	<p>Covering overcurrent and earthfault</p>
99	Pg. No 134 of 137 T.S.RMU 19.0 GTP			<p>47. Current Transformer</p>		<p>Kindly share CTs ratio. Also, clarify no metering CTs is required for LBS or in CB.</p>	<p>400-200/1-1A. No metering is required for LBS.</p>
100	Pg. No 135 of 137 T.S.RMU 19.0 GTP			<p>53. Paint: TPNODL Blue PANTON E 2727C</p>		<p>Kindly allow as per manufacturer standard pratice.</p>	<p>ok, MIMIC can be kept E 2727C</p>
101	Pg. No 53 of 162 Annexure - B			<p>In accordance with the terms of the said contract, "the Vendor" agreed to furnish you with an irrevocable, unconditional and acceptable bank guarantee for 3% of the value of contract and to be valid till the end of Guarantee period plus one month towards "Contract cum Equipment performance".</p>		<p>The Clause no. 7.1 Special Conditions of Contract specifies a PBG requirement of 5%, kindly clarify</p>	<p>5% PBG is required</p>