

**CENTRALIZED CONTRACTS GROUP**

NIT No.: TPCODL/CCG/24-25/1000001919

**Corrigendum No. – I**

Dt.: 19-02-2025

**Tender Enquiry No- TPCODL / CCG / FY 24-25 /1000001919****Tender Subject** – 11 kV and 33kV Auto recloser for Supply and supervision under TPCODL, TPSODL, TPNODL and TPWODL.**Corrigendum Summary:****A] Clause 1.3: Revised Calendar of Event shall be as follows:**

Existing Clause	Proposed Clause
Due Date of Posting Consolidated replies to all the pre-bid queries as received – 10.02.2025, 18:00 Hours	Revised timeline 19.02.2025, 18:00 Hours
Due date and time of receipt of Bids – 18.02.2025, 17:00 Hours	Revised time line 28.02.2025, 17:00 Hours

**B] Annexure-I**

Revised price bid attached with pre-bid reply

NOTE : All Other Terms &amp; Conditions of the tender shall remain unchanged as per NIT document, GCCs and Pre-bid reply.

Approved By,

Sd/-

(Head – Centralized Contracts Group)

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
1	NIT/Second Part: Techno Commercial Bid Clause 5.1.2/12	The type tests specified in technical 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.	The type tests specified in Technical specifications have been carried out within ten years prior to the date of opening of technical bids and test reports will be submitted along with the bids. There has been no change in design of the product for last ten years, we kindly request the customer to accept our proposal for ten years as applicable internationally.			As per latest CEA Guidelines
2	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/4/30	Encloser Material: Bidder to provide details of housing material like grade of SS	Housing material is STS 304 STS is equivalent to SS			SS 304 with Powder Coated
3	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/4/33	b) Accuracy up to 630A ±0.5% c) Fault data 1000A & above accuracy class 5P10	Our proposal for accuracy class for CT is as below. (1) For metering: 0.5 % (2) For protection: 5P20 (The protection class 5P20 is better than 5P10)			Ok,Noted
4	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/5/34	Voltage sensor for metering and protection: Accuracy up to 12kV +-5%	Our proposal for RVD (Resistance voltage divider) accuracy is 1%			As per TS but Better accuracy class can be accepted
5	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/5/42	Auxiliary PT Details Type - Resin cast PT double pole Voltage ratio - 11kV/230V PT earthing shall be inside the AR control panel Burden - 100VA	Auxiliary PT Details Type - Resin cast PT double pole Voltage ratio - 11kV/230V PT earthing shall be done outside the AR control panel. Burden - 300VA We request the customer to accept our proposed VA.			Ok,Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
6	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/6/44	Controller Cabinet: Communication protocol- The controller should be supplied with IEC-60870-5-104 and MQTT. No other & proprietary protocol is accepted. MQTT via router is accepted.	Entec controller can support the protocol IEC-60870-5-104. Since MQTT is not a common protocol in distribution line networks. We request the customer to accept our proposal.			No deviation is accepted. Both the Controller & 4G Modem should have support of IEC 104 & MQTT.
7	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/7/44	Controller Cabinet: Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104 & MQTT.	ENTEC Controller Cabinet is equipped with at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104, not MQTT that is not common protocol. We Kindly request the customer to accept our proposal			Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104 & MQTT. Both the Controller & 4G Modem should have support of IEC 104 & MQTT.
8	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/7/44	Controller Cabinet: Support IEC - 60870-5-104 & MQTT for communicating with master station. Preferably support SFTP protocol to transfer disturbance record to remote server.	ENTEC Controller Cabinet Supports IEC - 60870-5-104 only for communicating with master station. Our controller uses FTP-SSL for transferring data instead of SFTP. We Kindly request the customer to accept our proposal			Support IEC - 60870-5-104 for communicating with minimum 5 independent master stations simulatenously
9	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/7/44	Controller Cabinet: Digital data should have higher priority than Analog data. The dead band shall be user configurable for reporting Analog data by exception shall be initially set to 1 % (in 1%) of full scale value.	The priority function is not applicable to ENTEC controller. Since our controller use separate buffer for each digital and analog signal, we don't apply any priority for any data. The priority is only applicable for the system which has only single buffer. In consideration that our controller has advance technology with dual buffer. We Kindly request the customer to accept our proposal.			Noted. Bidder to ensure that reporting of Digital data to SCADA masters on priority over analogue data.
10	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autocloser/Technical Specification 4. General Technical Requirement/7/44	Controller Cabinet: Multi-Master reporting- 2 masters with single CSADU. 5 Master via Modem.	Entec controller can support 2 masters with IEC 60870-5-104 protocol.			Support IEC - 60870-5-104 for communicating with minimum 5 independent master stations simulatenously. Kindly clarify the master reporting via modem??

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
11	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 4. General Technical Requirement/7/44	Controller Cabinet: Cyber security- User level authentication, Disabling the DNS, Disabling/enabling/configurable TCP/ UDP port, PT Failure, Charger Failure, Battery Failure/Door lock alarm integrated to Controller	<p>ENTEC proposal is as below: Multi User level authentication: We can provide 3 types of password and each password has different level of setting. Those are 1. Full access, 2. communication access, 3. log deletion function. Disabling the DNS: Our controller doesn't support DNS (Domain Name Server) since it is not applicable to the network. Disabling/enabling/configurable TCP/UDP port Our interface software for controller is developed based on TCP. It doesn't support UDP. And we don't provide disabling function of TCP port since it has to maintains the enabling status for security. Disabling/enabling/configurable PT Failure, Charger Failure, Battery Failure/Door lock alarm integrated to controller</p> <p>For the safe operation of controller, we don't provide "disabling function" for charger failure and battery failure. For controlling &amp; monitoring battery changing/battery voltage, the detecting function for their failure should be maintained. We Kindly request the customer to accept our proposal.</p>			Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
12	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 4. General Technical Requirement/7/44	Minimum Event Storage in internal memory of controller as below Measurement event : 10000 System event : 1000 Alarm event : 1000 Normal event : 5000	Our controller can provide event storage as below, allowing for higher storage than required  S/W Operation Recorder -last 5,000 events Fault Event Recorder -last 1,500 events Fault Waveform (60 cycles× 64 samples) -last 32 events System Event Recorder -last 5,000 events Setting Change Event Recorder -last 2,000 events Load & Energy Recorder - Average Load & Energy –last 8,640 events (Max 360 days) - Peak Load & Energy in every hour –last 8,640 events - Peak Load & Energy in every day –last 8,640 events Diagnostic Event Recorder -last 2,000 events PQM Detection Event Recorder -last 1,500 events Load Current Alarm Event Recorder -last 1,500 events  We Kidnly request the customer to accept our proposal.	To take confirmation all other DISCOMs		Noted but Kindly Clarify memory size and event per kB.
13	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 4. General Technical Requirement/8	5.1.7 (2) Control Panel Tank Material and grade of SS and welding - Should be of SS and non-corrosive, offered grade of SS to be mentioned. Minimum grade shall be SS304. The welding shall be corrosion free for useful life of equipment.	Housing material is STS 304 STS is equivalent to SS			Ok,Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
14	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 5. General Construction/9	5.2 Control Panel vi) Communication features to be provided by bidder a) on front panel-USB Port/Ethernet/RS485	Our proposed controller is equipped with USB B port on front part of relay and Ethernet*2/RS232*2/RS485 port on the side part of relay. We Kindly request the customer to accept our construction of controller.	To take confirmation all other DISCOMs		Remote RS485 port-The RS 485 must have the capability for multi-drop connectivity. d) Radio RS232 Port. The port must include RTS/CTS handshaking for direct connection to a radio & delayed message flow control.  Kindly clarify Ethernet ports and whether RS232 and RS485 are same or different ports?
15	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 5. General Construction/10	5.2 Control Panel vii) User interface provided by the bidder g) Switches to disable electronic close & trip operations shall be provided for safety.	ENTEC Relay has a CONTROL LOCK function. If CONTROL LOCK is on, all button in the relay are disabled. This a better solution which can provide the CONTROL LOCK function for safety.			Noted ,But Kindly clarify regarding SMS compartibility of this modem
16	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 7. Tests for Switchgear/11	7.1 Type Tests 5) Additional tests on auxiliary and control circuits 7) Making current capability	The following tests are not applicable for auto recloser as per IEC 62271-111 5) Additional tests on auxiliary and control circuits : N/A (The successful completion of the interrupting duty, mechanical endurance test and continues current test of the main circuit is considered adequate verification of the auxiliary and control circuits) 7) Making current capability (Rated short circuit breaking current test demonstrates this capability. Thus there is no separate test for this.)			For Point No 5 : It is Ok For Point No 7 : As per TS
17	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 7. Tests for Switchgear/11	7.2 Routine Tests d) Tightness test	The following test will not be included in routine test since we proposed solid insulated recloser. The below test is for gas insulated recloser. d) Tightness test We Kindly request the customer to accept our proposal.			As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
18	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 7. Tests for Switchgear/12	The Bidder shall furnish the type test certificates of same design as offered in bid for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA or International accredited Laboratory like KEEMA, KERI, PEHLA, CESI as per the relevant standards of IEC/IEEE. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	ENTEC will furnish the type test certificates of same design as offered in bid for the tests as mentioned above as per the corresponding standards. All the tests were conducted at CPRI/ERDA or International accredited Laboratory like KEEMA, KERI, PEHLA, CESI as per the relevant standards of IEC/IEEE. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 10 years from the date of opening the bid. There is no change in design of the product for last ten years. we kindly request the customer to accept our proposal for ten years as applicable internationally.			As per CEA Guidelines
19	Others	Quotation Model	We will offer auto recloser for sectionalizer as our recloser support sectionalizer function in accordance with IEC 62271-111 and the technical specification (ENG-HV-2017) specify the requirement for auto recloser in this tender.			As per TS
20	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Technical Specification 4. General Technical Requirement/45/61	Approved Make & Model Teltonika RUT 951 / ABB ARG 600 / Dynalog Dyna 2100	Teltonika RUT 951 does not support IEC 104 Protocol. Do ABB ARG 600 / Dynalog Dyna 2100 support IEX 104? Please clarify.	To take confirmation all other DISCOMs		Noted ,But Kindly clarify regarding SMS compatibility of this modem
21	NIT/Second Part: Techno Commercial Bid Clause 5.1.2/12	The type tests specified in technical 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.	The type tests specified in Technical specifications have been carried out within ten years prior to the date of opening of technical bids and test reports will be submitted along with the bids. There has been no change in design of the product for last ten years, we kindly request the customer to accept our proposal for ten years as applicable internationally.			As per CEA Guidelines

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22	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/36/2	Rated short time current withstand- 20kA for 3 Sec	Our proposal is for 16kA for 3 Sec			Noted
23	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/36/3	Rated short circuit Symmetrical breaking/ Interrupting current -20kA	Our proposal is for 16kA			Noted
24	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/36/5	Rated Short time Making capacity - 50kAp	Our proposal is for 40kAp			Noted
25	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/37/28	Encloser Material: Bidder to provide details of housing material like grade of SS	Housing material is STS 304 STS is equivalent to SS			SS 304 with Powder Coated
26	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/37/31	b) Accuracy up to 1200A $\pm 0.5\%$ c) Fault data 1000A & above accuracy class 5P10	Our proposal for accuracy class for CT is as below. (1) For metering: 0.5% (2) For protection: 5P20 (The protection class 5P20 is better than 5P10) We request the customer to accept our proposal.			Noted



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27	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/37/32	Voltage sensor for metering and protection: Accuracy up to 36kV +-5%	Our proposal for RVD (Resistance voltage divider) accuracy is 1%			As per TS
28	ENG-HV-2017 Technical Specification for 11kV Pole Mounted Autorecloser/Annexure II- Technical Specification 4. General Technical Requirement/37/40.a	Auxiliary PT Details Type - Resin cast PT double pole Voltage ratio - 33kV/230V PT earthing shall be inside the AR control panel Burden - 100VA	Auxiliary PT Details Type - Resin cast PT double pole Voltage ratio - 33kV/230V PT earthing shall be done outside the AR control panel. Burden - 300VA We request the customer to accept our proposed VA.			Noted
29	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	Controller Cabinet: Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104 & MQTT.	ENTEC Controller Cabinet is equipped with at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104, not MQTT that is not common protocol. We Kindly request the customer to accept our proposal			Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC- 60870-5-104 & MQTT. Both the Controller & 4G Modem should have support of IEC 104 & MQTT.
30	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	Controller Cabinet: Support IEC - 60870-5-104 & MQTT for communicating with master station. Preferably support SFTP protocol to transfer disturbance record to remote server.	ENTEC Controller Cabinet Supports IEC - 60870-5-104 only for communicating with master station. Our controller uses FTP-SSL for transferring data instead of SFTP. We Kindly request the customer to accept our proposal			Noted ;Kindly share the data sheet

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
31	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	Controller Cabinet: Digital data should have higher priority than Analog data. The dead band shall be user configurable for reporting Analog data by exception shall be initially set to 1 % (in 1%) of full scale value.	The priority function is not applicable to ENTEC controller. Since our controller use separate buffer for each digital and analog signal, we don't apply any priority for any data. The priority is only applicable for the system which has only single buffer. In consideration that our controller has advance technology with dual buffer. We Kindly request the customer to accept our proposal.			Noted. Bidder to ensure that reporting of Digital data to SCADA masters on priority over analogue data.
32	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	Controller Cabinet: Multi-Master reporting - 2 masters with single CSADU	Entec controller can support 2 masters with IEC 60870-5-104 protocol.	To take confirmation all other DISCOMs		1. No deviation is accepted. Bidder to consider the entire scope as per the RFP. 2. The controller should support Multi-Master reporting - 5 masters with single CSADU on IEC 104.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
33	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	<p>Controller Cabinet:            Cyber security- User level authentication, Disabling the DNS, Disabling/enabling/configurable TCP/ UDP port, PT Failure, Charger Failure, Battery Failure/Door lock alarm integrated to Controller</p>	<p>ENTEC proposal is as below:            Multi User level authentication:            We can provide 3 types of password and each password has different level of setting. Those are            1. Full access, 2. communication access, 3. log deletion function.            Disabling the DNS:            Our controller doesn't support DNS (Domain Name Server) since it is not applicable to the network.            Disabling/enabling/configurable TCP/UDP port            Our interface software for controller is developed based on TCP. It doesn't support UDP. And we don't provide disabling function of TCP port since it has to maintains the enabling status for security.            Disabling/enabling/configurable PT Failure, Charger Failure, Battery Failure/Door lock alarm integrated to controller</p> <p>For the safe operation of controller, we don't provide "disabling function" for charger failure and battery failure. For controlling &amp; monitoring battery changing/battery voltage, the detecting function for their failure should be maintained. We Kindly request the customer to accept our proposal.</p>	To take confirmation all other DISCOMs		Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
34	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/4 General Technical Requirement/39/42	Minimum Event Storage in internal memory of controller as below Measurement event : 10000 System event : 1000 Alarm event : 1000 Normal event : 5000	Entec controller can provide event storage as below, allowing for higher storage than required  S/W Operation Recorder -last 5,000 events Fault Event Recorder -last 1,500 events Fault Waveform (60 cycles× 64 samples) -last 32 events System Event Recorder -last 5,000 events Setting Change Event Recorder -last 2,000 events Load & Energy Recorder - Average Load & Energy –last 8,640 events (Max 360 days) - Peak Load & Energy in every hour –last 8,640 events - Peak Load & Energy in every day –last 8,640 events Diagnostic Event Recorder -last 2,000 events PQM Detection Event Recorder -last 1,500 events Load Current Alarm Event Recorder -last 1,500 events  We Kidnly request the customer to accept our proposal.			noted
35	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/General Construction Communication Features/40	5.1.7 (2) Control Panel Tank Material and grade of SS and welding - Should be of SS and non-corrosive, offered grade of SS to be mentioned. Minimum grade shall be SS304. The welding shall be corrosion free for useful life of equipment.	Tank material is STS 304 STS is equivalent to SS			SS 304 with Powder Coated

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
36	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/General Construction Communication Features/42	5.2 Control Panel vi) Communication features to be provided by bidder a) on front panel-USB Port/Ethernet/RS485	Our proposed controller is equipped with USB B port on front part of relay and Ethernet*2/RS232*2/RS485 port on the side part of relay. We Kindly request the customer to accept our construction of controller.			Remote RS485 port-The RS 485 must have the capability for multi-drop connectivity. d) Radio RS232 Port. The port must include RTS/CTS handshaking for direct connection to a radio & delayed message flow control. Kindly clarify Ethernet ports and whether RS232 and RS485 are same or different ports ??
37	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/General Construction User Interface/42	5.2 Control Panel vii) User interface provided by the bidder g) Switches to disable electronic close & trip operations shall be provided for safety.	ENTEC Relay has a CONTROL LOCK function. If CONTROL LOCK is on, all button in the relay are disabled. This a better solution which can provide the CONTROL LOCK function for safety.			noted
38	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/7 Tests/43	7.1 Type Tests 6) Additional tests on auxiliary and control circuits 8) Making current capability 15) Thermal runaway test	The following test are not applicable for auto recloser as per IEC 62271-111 6) Additional tests on auxiliary and control circuits : N/A (The successful completion of the interrupting duty, mechanical endurance test and continues current test of the main circuit is considered adequate verification of the auxiliary and control circuits) 8) Making current capability (Rated short circuit breaking current test demonstrates this capability. Thus there is no separate test for this.) 15) Thermal runaway test (This test is not required as other means is not specified for relevant test in accordance with IEC 62271-111) We Kindly request the customer to accept our proposal.			For Point No 8 #. Refer Cl 7.102 of IEC 62271-111 & IEEE37.60  For Point No 15 #Refer Cl 7.113 IEC 62271-111 & IEEE37.60

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39	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/7 Tests/44	7.2 Routine Tests d) Tightness Tests	The following test will not be included in routine test since we proposed solid insulated recloser. The below test is for gas insulated recloser. d) Tightness test We Kindly request the customer to accept our proposal.			As per TS
40	ENG-EHV-1047 Technical Specification for 33 kV 800A/16kA & 1200A/20kA Pole Mounted Auto recloser/8. Type Test Certificates/44	The Bidder shall furnish the type test certificates of same design as offered in bid for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA or International accredited Laboratory like KEEMA, KERI, PEHLA, CESI as per the relevant standards of IEC/IEEE. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	ENTEC will furnish the type test certificates of same design as offered in bid for the tests as mentioned above as per the corresponding standards. All the tests were conducted at CPRI/ERDA or International accredited Laboratory like KEEMA, KERI, PEHLA, CESI as per the relevant standards of IEC/IEEE. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 10 years from the date of opening the bid. There is no change in design of the product for last ten years. we Kindly request the customer to accept our proposal for ten years as applicable internationally.			Type Test validity : As per Latest CEA Guideline
41	Others	Quotation Model	We will offer auto recloser for sectionalizer as our recloser support secitionalizer function in accordance with IEC 62271-111 and the technical specification (ENG-HV-2017) specify the requirement for auto recloser in this tender.			As per TS
42	ENG-HV-2017 Technical Specification for 33kV Pole Mounted Autorecloser/Technical Specification 4. General Technical Requirement/43/39	Preferred modem make Robustel (Dynalog) Modem R2000L ABB Modem-ARG600 (4G)	Do the recommended modems support IEC 104 protocol? Do these modems support reporting to three masters in addition to the two supported by ENTEC Controller? Please clarify.			The Modem should be compatible with both IEC 104 as well as MQTT.
1	ENG-EHV-1047, Technical Specification of 33KV Auto Recloser 6.Marking/10	Warranty (48/60 Months)	It should be 48 Months from the date of Supply. We request the Customer to accept our proposal			As per TS

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2	ENG-EHV-1047, 13.1 Special Condition of Contract/6	80 % payment will be released within 45 days from date of receipt of materials at store /site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days. Any further delay in making the site available to Contractor beyond 90 days will lead to remittance of balance 20 % payment of Supply Part to BA on immediate basis for each such site. 20% retention terms apply site wise, individually, and not collectively for all the sites of the Purchase Order. Payment of 20% retained amount of an ITC completed site will not be withheld for pendency of ITC at any other site or sites. Pre-dispatch inspection, MDCC and LD shall be applicable as per GCC.	100% Payment will be released within 45 days from the date of receipt of materials at store /site. We request the Customer to accept our proposal.			NIT Terms will be prevailed
3	ENG-EHV-1047/Annexure I	Quantity difference between BOQ and tender Document	Kindly clarify with Exact quantity of Auto Recloser and Sectionalizer			Updated qty will be as per attached revised price bid
1	4 of 251	Work Description: One Year Rate Contract for Supply with supervision of 11 kV & 33 kV AR at TPCODL, TPNODL, TPWODL & TPSODL.	Whereas, in Clause No. 1.1, both auto reclosers and sectionalisers are listed. Please clarify, whether only auto reclosers are required or both auto reclosers and sectionalisers are required.			Both will be required as qty will be as per attached revised price bid
2	4 of 251	Bids are invited from interested Bidders to award Rate Contract (RC) for Procurement SITC of 11 kV and 33 kV Auto recloser and as mentioned below:	Whereas the Table in this clause as well as the table in ANNEXURE-I : PRICE SCHEDULE in Page 21 of 251, mention both auto reclosers and sectionalisers. Please clarify, whether only auto reclosers are required or both auto reclosers and sectionalisers are required.			Both will be required as qty will be as per attached revised price bid
3	4 of 251	Scope of work: 1. Supply with Supervision of AUTO RECLOSER 11KV	Please check the sum of individual qty. of each DISCOM. It adds up to 59, whereas the total qty. is mentioned as 49. Please clarify.			Updated qty will be as per attached revised price bid

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
4	4 of 251	Scope of work: 3. Supply with Supervision of AUTO RECLOSER 33 KV	Please check the sum of individual qty. of each DISCOM. It adds up to 28, whereas the total qty. is mentioned as 29. Please clarify.			Updated qty will be as per attached revised price bid
5	4 of 251	Scope of work:	The quantities are not matching with ANNEXURE-I : PRICE SCHEDULE in Page 21 of 251. Please clarify.			Updated qty will be as per attached revised price bid
6	4 of 251	2. Supply with Supervision of SECTIONALISER	Whereas Technical Specifications for 11kV Sectionalisers could not be found anywhere in the document. Please clarify.			It will be as per Specification no :- ENG-HV-2017.
7	4 of 251	4. Supply with Supervision of SECTIONALISER	Whereas Technical Specifications for 33kV Sectionalisers could not be found anywhere in the document. Please clarify.			It will be as per Specification no :- ENG-HV-1047.
8	7 of 251	The average annual turnover of the bidder shall be a minimum of Rs. 100.0 Crs for any three of the last three financial years.	The sentence needs review. 'for any three of the last three years' is not very meaningful. Should it not be 'The average annual turnover of the bidder shall be a minimum of Rs. 100.0 Crs for any <u>one</u> of the last three financial years.			NIT Terms will be prevailed
9	19 of 51	Payment Terms: For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days.	Whereas, vide Claus 6 in Page 76 of 251, it is mentioned that "TPCODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract". This is contradicting. Please clarify.			NIT Terms will be prevailed
10	19 of 51	Payment Terms: For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days.	Whereas, vide Claus 6 in Page 119 of 251, it is mentioned that "TPWODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract". This is contradicting. Please clarify.			NIT Terms will be prevailed



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
11	19 of 51	Payment Terms: For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days.	Whereas, vide Claus 6 in Page 164 of 251, it is mentioned that "TPNODL will make 100% payment within 45 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract". This is contradicting. Please clarify.			NIT Terms will be prevailed
12	19 of 51	Payment Terms: For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days.	Whereas, vide Claus 6 in Page 211 of 251, it is mentioned that "TPSODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract". This is contradicting. Please clarify.			NIT Terms will be prevailed
13	21 of 51	ANNEXURE-I : Price Schedule	Quantities indicated in this table do not match with the quantitie mentioned in Table in Clause 1.1 in Page 4 of 251. Please clarify.			Updated qty will be as per attcahed revised price bid
14	34 of 251	33kV,800A/16kA & 1200A/20kA Pole Mounted Auto recloser	Among the quantities of 33kV Auto Reclosers/Sectionalisers indicated in Page 4 of 251 & in Page 21 of 251, how many are 33kV, 800A, 16kA & how many are 33kV, 1200A, 20kA?			All will be 33kV, 800A, 16kA
15	34 of 251	IEC 62271-102 - HV switchgear and control gear-Alternating current disconnecter and earthing switches	Vide Clause 4 (39.a) in Page 37 of 251, the isolator is in DISCOM Scope of supply. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.			Isolator supply is not in Bidder's scope
16	34 of 251	IEC 62271-1 - Alternating-current circuit-brea	IEC 62271-1 is NOT the IEC Standard for Alternating-current circuit-breakers. It is the IEC Standard for High-voltage switchgear and controlgear –Common specifications. The IEC Standard for Alternating-current circuit-breakers is IEC 62271-100. Please clarify.			IEC 62271-1 : AC switchgear and controlgear IEC 62271-100 : HV switchgear and Controlgear IEC 62271-319 : Alternating Current Circuitbreakers

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation		CEG Response
17	34 of 251	IS 513 - Cold Rolled Low Carbon Steel Sheets and Strips	As per BIS Website, IS 513 is the Indian Standard for "Cold Reduced Carbon Steel Sheet and Strip". Please clarify.		Noted with Thanks
18	34 of 251	IEC 62262 - Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code)	As per the Specifications, no IK Code is specified anywhere for the tendered items. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.		Ik10
19	34 of 251	IEC 60060-3 - High-voltage test techniques - Part 3: Definitions and requirements for on-site testing	As per tender document, on-site testing is not in the scope of the bidder. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.		Ik10
20	34 of 251	IEC 61869-2 / IS 2705 - Current Transformers	As per BIS Website, IS 2705 is withdrawn. Please clarify.		Noted with Thanks
21	34 of 251	IEC 61869-3/ IS 3156 - Voltage Transformers	As per BIS Website, IS 3156 is withdrawn. Please clarify.		Noted with Thanks
22	34 of 251	IS 13573-2 - Cable accessories for extruded power cable for Working Voltages from 3.3 kV up to and including 33kV.	As per tender document, any cabling & cable termination is not in the scope of the bidder. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.		Noted
23	36 of 251	1200A/20kA & 800A/16kA	Among the quantities of 33kV Auto Reclosers/Sectionalisers indicated in Page 4 of 251 & in Page 21 of 251, how many are 33kV, 800A, 16kA & how many are 33kV, 1200A, 20kA?		All will be 33kV, 800A, 16kA
24	37 of 251	Connectors for Auto recloser: Bidders to provide suitable tinned copper connectors and shall be suitable up to single core 300sq.mm covered conductor.	Whereas, vide Clause 5.1.3 in Page 40 of 251, it is specified that "Stud type Connectors shall be provided with the Auto recloser unit for connecting the incoming and outgoing cables to the bushings". These are contradicting. Please clarify.		Stud type connectors shall be provided which is to be connected to Covered/Insulated(XLPE) conductor of respective voltage grade. However during detailed engineering , It is to be more clarified
25	39 of 251	The controller should be supplied with IEC104 protocol and proprietary protocol is not accepted.	There is no protocol called IEC104. It should be IEC 60870-5-104. Please clarify.		Noted
26	44 of 251	Auxiliary PT as per IS 3156	As per BIS Website, IS 3156 is withdrawn. Please clarify.		Noted
27	44 of 251	Auxiliary PT as per IS 3156	As per BIS Website, IS 3156 is withdrawn. Please clarify.		Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
28	56 of 251	IEC 62271-102 - HV switchgear and control gear-Alternating current disconnectors and earthing switches	Vide Clause 4 (41) in Page 59 of 251, the isolator is in DISCOM Scope of supply. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.			Isolator supply is not in Bidder's scope
29	56 of 251	IEC 62271-1 - Alternating-current circuit-breakers	IEC 62271-1 is NOT the IEC Standard for Alternating-current circuit-breakers. It is the IEC Standard for High-voltage switchgear and controlgear –Common specifications. The IEC Standard for Alternating-current circuit-breakers is IEC 62271-100. Please clarify.			Noted
30	56 of 251	IS 513 - Cold Rolled Low Carbon Steel Sheets	As per BIS Website, IS 513 is the Indian Standard for "Cold Reduced Carbon Steel Sheet and Strip". Please clarify.			Noted with Thanks
31	56 of 251	IEC 62262 - Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code)	As per the Specifications, no IK Code is specified anywhere for the tendered items. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.			Only IP Class as per TS to be considered
	56 of 251	IEC 60060-3 - High-voltage test techniques - Part 3: Definitions and requirements for on-site testing	As per tender document, on-site testing is not in the scope of the bidder. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.			For scope clarification , contact contract for the response .
33	56 of 251	IEC 61869-2 / IS 2705 - Current Transformers	As per BIS Website, IS 2705 is withdrawn. Please clarify.			Noted
34	56 of 251	IEC 61869-3/ IS 3156 - Voltage Transformers	As per BIS Website, IS 3156 is withdrawn. Please clarify.			Noted
35	56 of 251	IS 13573-2 - Cable accessories for extruded power cable for Working Voltages from 3.3 kV up to and including 33kV.	As per tender document, any cabling & cable termination is not in the scope of the bidder. If so, what is the significance of mentioning this standard as one of the applicable standards? Please clarify.	Ok		For scope clarification , contact contract for the response .
36	59 of 251	Connectors for Auto recloser: Bidders to provide suitable tinned copper connectors and shall be suitable up to single core 300sq.mm covered conductor.	Whereas, vide Clause 5.1.3 in Page 62 of 251, it is specified that "Stud type Connectors shall be provided with the Auto recloser unit for connecting the incoming and outgoing cables to the bushings". These are contradicting. Please clarify.			As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
37	60 of 251	Communication protocol - The controller should be supplied with IEC104 protocol and MQTT. No other & proprietary protocol is not accepted	There is no protocol called IEC104. It should be IEC 60870-5-104. Please clarify.	Ok		Noted
38	66 of 251	Isolator (Inspection at OEM factory can be conducted by TPCODL/TPNODL/TPSODL/TPWODL team)	Vide Clause 4 (41) in Page 59 of 251, the isolator is in DISCOM Scope of supply. If so, what is the significance of this clause in the specifications meant to be adhered by bidders?			Isolator supply is not in Bidder's scope
1	Specification No: ENG-EHV-1047, Page No. 36/251, Clause No.4 (Sr. No. 1 to 5)	Rated current: 1200/800A Rated STC: 20kA/16kA Rated short Ckt symmetrical breaking: 20kA Rated Load interrupting line current: 1200/800A Rated short time making current: 50/40KA	As per our understanding, both rated products are acceptable for the complete 33kV recloser requirement. Please confirm.			Yes
2	Specification No: ENG-EHV-1047, Page No. 36/251, Clause No.4 (Sr. No. 23)	Operating sequence/Duty : O-0.2s-CO-2s-CO-2s-CO (Duty cycle and the recloser delay time shall be programmable at site and remotely)	Request to accept Duty Cycle of O-0.2s-CO-2s-CO-5s-CO duty . However, Duty cycle and the recloser delay time shall be programmable at site and remotely. Duty cycle is tested as per IEC 62271-111			Noted
3	Specification No: ENG-EHV-1047, Page No. 38/251, Clause No.4 (Sr. No. 42) Specification No: ENG-EHV-1047, Page No. 60/251, Clause No.4 (Sr. No. 44)	The controller shall have battery having capacity of minimum 20 complete operations and 48Hrs of backup which shall be charged by a temperature compensated charging circuit, allowing the battery to charge at an optimal rate to extend battery life.	Normally VRLA C20 Battery is used which is suitable for 24 hrs back-up. Hence, request to consider 24hr backup			Noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
4	<p>Specification No: ENG-EHV-1047, Page No. 42/251, Clause No.5.2 (Sr. No. VI)</p> <p>Specification No: ENG-EHV-1047, Page No. 63/251, Clause No.5.2 (Sr. No. VI)</p>	<p>a) Remote On-OFF operation of recloser  b) On Front panel-RS232 Port/RJ485/Ethernet  c) Remote RJ485 port-The RJ 485 must have the capability for multi-drop connectivity.  d) Radio RS232 Port. The port must include RTS/CTS handshaking for direct connection to a radio &amp; delayed message flow control.  e) TCP/IP Ethernet Port- 2 nos. One must be engineering port  f) Data Transmission Rate of TCP/IP Ethernet Port- 10/100Mbps.  g) All ports shall be capable of simultaneous operation &amp; shall be optically isolated &amp; protected from surge.</p>	<p>Request to accept on point No. b,c,d,e &amp; f  a) Complied  b) USB will be provided on front which is better accessible than RS232 Port/RJ485/Ethernet  c) Ethernet will be provided as no RS485 compatible protocol is mentioned in the tender  d) Ethernet will be provided as Modems can be managed through Ethernet and RS232 connection is not required  e) One Ethernet Port will be provided as ports can be multiplexed through modem. Same port can be used for engineering  f) Complied  g) Complied</p>			<p>Remote RS485 port-The RS 485 must have the capability for multi-drop connectivity. d) Radio RS232 Port. The port must include RTS/CTS handshaking for direct connection to a radio &amp; delayed message flow control.</p>
5	<p>Specification No: ENG-EHV-1047, Page No. 43/251, Clause No.6 (Sr. No. o)</p>	<p>Warranty (48/60 months)</p>	<p>SMF battery is brought out item for any Autorecloser manufacturer. Battery companies do not provide a warranty beyond two years. As a result, it is challenging for us to offer warranty exceeding this period. Therefore, we request you to accept the product with 48/60-month warranty, excluding the battery</p>			<p>As per TS</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
1	Payment Terms	<p>Payment Terms: Price - Quoted Price will remain FIRM, F.O.R. Store / Site basis i.e. inclusive of all taxes, packing and forwarding, transport and transit insurance &amp; loading and unloading at respective Odisha Discom's TPNODL/ TPSODL Site.</p> <p>For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT.</p> <p>But the time capping in between supply and site availability to the contractor for ITC will be 90 days. Any further delay in making the site available to Contractor beyond 90 days will lead to remittance of balance 20 % payment of Supply Part to BA on immediate basis for each such site. 20% retention terms apply site wise, individually, and not collectively for all the sites of the Purchase Order. Payment of 20% retained amount of an ITC completed site will not be withheld for pendency of ITC at any other site or sites. Pre-dispatch inspection, MDCC and LD shall be applicable as per GCC.</p>	<p>As per our SOW for Supply and Supervision, we kindly request that 100% payment for the supply component be released upfront. Based on our past experience, the ICT process typically takes time—with only 5–6 units processed per month—making the retention of 20% of the payment unnecessary.</p> <p>We will be available during the ICT work to ensure smooth operations. If this support is not provided, you will not incur the PBG; however, the extended deduction of 20% is not acceptable. Alternatively, we propose releasing 90% of the payment for the supply upfront, with the remaining 10% to be paid per installation upon completion, rather than after RO completion.</p> <p>Please note that delays in work completion have been caused by issues such as site clearance, A1 notification, SCADA, network challenges, and shutdown delays.</p>			NIT Terms will be prevailed
2	4. General Technical Requirements	Pt. 28 Enclosure material (Bidder to provide details of housing material like grade of SS)	As we are aware of the environmental conditions in the Orissa region, we request that only stainless steel (SS) material be used for the breaker and the controller. Materials other than SS should be rejected. We have observed corrosion and damage on controllers made of other materials in similar climatic conditions. If you require photographic evidence, we can provide it.			SS-304 Material grade with Powder Coated atleast.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
		Pt. 29 To be provided by bidder. Manual tripping handle/ stick to be provided for operation suitable from standard operating height.	Change manual tripping to mechanical lockout. Manual tripping is dangerous, and in outdoor circuit breakers, it is in use. we provided the The Manual Trip Ring is made of stainless steel and is powder coated yellow. Less than 30kg of downwards force is required to operate the mechanism. When pulled down, the Recloser/Sectionalizer is prevented from operating. A 'Mechanical Lockout' is displayed on the panel to provide indication of the locked state. Pushing the Ring back into the operating position returns the recloser to normal mode.			As per TS
		Pt. 38 Surge Arrestor (Approved make- Raychem, Oblum, Elpro. (Bidder to mention offered make)	We also manufacturer for LA against your TS so request you to please consider Our Make (ELEKTROLITES Power) for the same. And already approved by TATA Power Orissa, we see the last tenders where our competitor deny to provide the LA to us.	Will check		TTR along with Performance certificate to be submitted
		Pt. 42 The controller should monitor battery voltage and provide alarm if the voltage falls below 21V and cut-off at 18 V	We use a 12 V, 26 Ah battery in our controller. The Battery Shutdown is based on the Battery capacity and this can be set in the controller.	TBD_ Automation		DC low voltage & Battery charger failure signal must be available in Controller which should be available for SCADA integration
		b) Accuracy up to 630A ±0.5% c) Fault data 1000A & above accuracy class 5P10	Three X Dual Core CT (one on each phase); Ratio: 2500:1; Protection Class Accuracy :5P10 for the entire current range; Sensor Accuracy +/-0.2 %	As per TS		AS per TS .(During detailed engineering,It is to be decided )

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
		Vendor to provide Make & model of proposed cellular Router. Preferred Make- Teltonika RUT950/ CMS- CS-INMDM-LAN/ABB ARG 600/Any other Reputed Make Note: Make will be finalised during detailed Engineering	We are proposing E214F00CS (Model) LANTRONIX to you, which is a Dual SIM Router/Model & rich in Industrial Protocol with Conversion. Please check with the engineering team. TPNODL is not considering Teltonika and we have proposed Lantronix. Please consider or working beacuse of for Automation Modem is main Equipment	TBD_ Automation		Approved Make & Model Teltonika RUT 951 / ABB ARG 600 / Dynalog Dyna 2100/Nomus /Lantronix/XNET. The Modem should act as gateway for connection between Controller & SCADA Masters on IEC104. Controller should support IEC - 60870-5-104 for communicating with minimum 5 independent master stations simulatenously. Should be SMS Compatible with additional DI & DO Options to be available in Modem
		Voltage senor for metering and protection: Accuracy up to 12kV +0.5%	Capacitive Voltage Sensors Embedded inside the Epoxy on each bushing Accuracy: +/-5 %	Check with GTP		As per TS
		Controller Cabinet: Communication protocol- The controller should be supplied with IEC-60870-5-104 and MQTT. No other and proprietary protocol is accepted	Our controller can support the protocol IEC-60870-5-104. MQTT will be available using our router/modem.	TBD_ Automation		No deviation is accepted. Both the Controller & 4G Modem should have support of IEC 104 & MQTT.(Should be SMS Compatible)
Sr. No		Controller Cabinet: The control cable shall have IP66/68 rated ingress protection easy plugin and plug out male & female plugs along with cable glands at both ends.	The Control cable with a harting connector (on tank side) and a military canon Connector are provided			During detailed engineering shall be confirmed



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
	Type Test	The type tests specified in TPCODL/TPNODL/TPSODL/TPWODL 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.	The type tests specified in TPCODL/TPNODL/TPSODL/TPWODL specifications should have been carried out within ten years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. There is no change in design of the product for last ten years, we request the customer to accept our proposal. We do not repeat type tests at our end as our product does not have any design issues. The product has already been type-tested as per IEC 62271-111 standards and the standards	As per CEA Guidelines		Validity as per CEA Guidelines
	Delivery Period		Request to give minimum 150-180 days delivery period from the date of drawing approval due to shortage of electronic components worldwide and many time shipment take time due to heavy traffic reasons.			NIT Terms will be prevailed
	Release Order		We request the immediate release of the complete quantity RO against the RC at the same time, rather than issuing partial ROs. The material is sourced from other countries, and each container carries 40-50 units at a time.			NIT Terms will be prevailed, RO Qty will be as per demand of respective discoms.
2		4	1.1 Scope of Work	Bids are invited from interested Bidders to award Rate Contract (RC) for Procurement SITC of 11 kV and 33 kV Auto recloser and as mentioned below	Kindly confirm that Integration, testing and commissioning is in bidder scope of work.	Scope will be supply with supervision of end to end activities, integration, testing and commissioning will be done in presence and guidance of bidder where manpower and equipment will under Discom's scope. If any spacial type of equipment is required like stimulator must be under bidder's scope.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
1		7 2.0 (B)(Financial Pre-Qualification Requirement)	The average annual turnover of the bidder shall be a minimum of Rs. 100.0 Crs for any three of the last three financial years. Copy of audited Balance Sheet and P&L Account to be submitted in this regard. (UDIN no is mandatory for balance sheet.)	The average annual turnover of the bidder should be 10Cr.		NIT Terms will be prevailed,
	3	44	8. Type tests certificates	All the tests shall be conducted at CPRI/ERDA or International accredited Laboratory like KEEMA, KERI, PEHLA, CESI as per the relevant standards of IEC/IEEE.	NABL Labs accredited Type test shall be acceptable	As per TS
	4	38	4. General Technical Requirements	40.a Auxiliary PT details	Kindly confirm the PT make	Preferable make NPT
	5	39	4. General Technical Requirements point 42. Controller cabinet	Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC 60870-5-104 & MQ	We understand that IEC-60870-5-104 protocol is standardized in Tata power therefore, MQTT is not required in controller cabinet	MQTT is Required
	6	39	4. General Technical Requirements	43. Modem/Router	Is Teltonika/xnet make modem acceptable ?	We don't have any issues with make , But all the Requirements as per TS to be fulfilled.
Sr. No	Clause ref.	Page no.	Requirement as per specification	Amendment proposed	Justification	
Contents of the enquiry						

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
1	1.1	4 of 251	<p>Scope of work : Bids are invited from interested Bidders to award Rate Contract (RC) for Procurement SITC of 11 kV and 33 kV Auto recloser</p>	<p>Scope of work : Bids are invited from interested Bidders to award Rate Contract (RC) for Procurement supply and supervision of 11 kV and 33 kV Auto recloser Our scope shall be of supply and supervsion of commissioning of 11kV and 33kV Auto reclosres only.</p>	<p>Our scope shall be of supply and supervsion of commissioning of 11kV and 33kV Auto reclosres only.</p>	<p>Scope will be supply with supervision of end to end activities, integration, testing and commissioning will be done in presence and guidance of bidder where manpower and equipment will under Discom's scope. If any spacial type of equipment is required like stimulator must be under bidder's scope.</p>
2	2.0	7 of 251	Technical Experience /Performance	<p>performance feedback of internal user group shall be considered against our past supply to TP Discoms</p>		<p>Performance certificate to be submitted by Bidder</p>
3	3.0	8 of 251	<p>Bidder has to mandatorily quote against each item of Schedule of Items [Annexure I]. Failing to do so, CCG may reject the bids.</p>	<p>Bidder has to mandatorily quote against applicable item of Schedule of Items [Annexure I]. Failing to do so, CCG may reject the bids.</p>	<p>We shall quote 11kV and 33kV Auto reclosres in place of sectionlizers</p>	<p>In will be as per attached TS.</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
4	3.1	9 of 251	Price Basis: Price will be fixed and firm during the contractual period.	Price Basis: Price will be Variable with base date of Feb-2025.	Looking into current uncertainty in global supply chain, since the prices needs to be kept valid for a period one year hence request TPCODL to consider variable prices with base date of June 2023 This will help bidders to offer most competitive rates.	NIT Terms will be prevailed
5	5.1.2	12 of 251	The type tests specified in technical specifications should have been carried out within five years (unless otherwise explicitly stated) 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 DISCOM	The type tests specified in technical specifications should have been carried out within five 15 years (unless otherwise explicitly stated) prior to the date of opening of technical bids and test reports are to be submitted along with the bids.	Type test reports conducted withing 15 years from the date of technical bid opening shall be acceptable. As there is no basic design change in offered product we don't envisage repetition of type tests.	Validity as per CEA Guidelines

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
6	13.1.3	19 of 251	Guarantee period shall be 60 months from the date of commissioning or 72 months from the date of last supplies made under the contract.	Warranty period shall be 60 months from the date of commissioning or 66 months from the date of supply whichever is earlier	Warranty shall be same as mentioned in technical annexure(page no.43,45 & 64)	As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
7	13.1.6	19 of 251	<p>Payment term :-For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC will be 90 days. Any further delay in making the site available to Contractor beyond 90 days will lead to remittance of balance 20 % payment of Supply Part to BA on immediate basis for each such site.20% retention terms apply site wise, individually, and not collectively for all the sites of the Purchase Order. Payment of 20% retained amount of an ITC completed site will not be withheld for pendency of ITC at any other site or sites. Pre-dispatch inspection, MDCC and LD shall be applicable as per GCC.</p>	<p>Payment term :- For Supply Part :- 80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC complete ICT will be 90 days. Any further delay in making the site available to Contractor completion of ICT beyond 90 days will lead to remittance of balance 20 % payment of Supply Part to BA on immediate basis</p>		NIT Terms will be prevailed
8	17.0	20 of 251	General Condition of Contract	<p>TPNODL/TPCODL/TPWODL/TPSODL are attached, please confirm which GCC to be referred.</p>		Respective Discom will follow respective GCC. Example :- Separate RC , RO along with respective GCC will be issued by reapective disocm's name.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
9	Annexure I; Price Schedule	21 of 251	Quantities mentioned above is for evaluation purpose only and not guaranteed. Quantities may change as per actual requirements.	Note viii : Quantities mentioned above is for evaluation purpose only and not guaranteed. Quantities may vary $\pm$ 10%.	Quantity variation should be limited to $\pm$ 10% only	NIT Terms will be prevailed
10	Annexure VII	27 of 251		GCC for TPNODL/TPCODL/TPWODL/TPSODL are attached separately, please confirm which GCC to be referred.		Respective Discom will follow respective GCC. Example :- Separate RC , RO along with respective GCC will be issued by reapective disocm's name.
Technical Specification for 33kV pole mounted autorecloser, ENG-EHV-1047						

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
11	1.0	34 of 251	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store of 33kV,800A/16kA & 1200A/20kA Pole Mounted Auto recloser complete with all accessories and necessary training for efficient and trouble-free performance.	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store of 33kV,800A/16kA & 1200A/16kA Pole Mounted Auto recloser complete with all accessories and necessary training for efficient and trouble-free performance.	<p>Unloading at site or stores shall not be in suppliers scope. We are assuming training means product know how and basic trouble shooting information only.</p> <p>Our standard product rating is 33kV, 1200A, 16KA only. and same shall be as per our type tested design</p> <p>This means supervision of erection &amp; commissioning shall not be in BA's scope.</p>	Unloading at stores will be under bidder's scope. If delivery will be taken at site, unloading at site will be also bidder's scope. Delivery location will be intimated before dispatch of the equipment.
12	3.1	35 of 251	Max. altitude above sea level : 1200m	Max. altitude above sea level : 1000m	33kV Autorecloser shall be suitable for altitude of 1000m only	Noted



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
13	3.15	35 of 251	Wind Pressure : 300km/hr	Wind Velocity : 180 km/hr	As per IS 875-3 (1987) appendix A the basic wind speed at 10 meter height (where autoecloser is getting mounted) for Bhubaneshwar is 50 meter per second.	As per TS
14	4.2 & 4.3	36 of 251	Rated short time current withstand : 20KA for 3 sec	Rated short time current withstand : 16KA for 3 sec	Our standard product rating is 33kV, 1200A, 16KA only.	As per TS
15	4.29	37 of 251	Manual tripping handle/ stick to be provided for operation suitable from standard operating height.		Provision for manual tripping (handle) shall be provided on HV cabinet, however stick required for the same shall not be in ABB's scope of supply.	As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
16	4.31	37 of 251	CT Accuracy : Upto 1200A±0.5%	CT shall be of fixed ratio of 600/1A with accuracy of 5P10	Since the CT's are used for protection purpose hence same shall have accuracy class of 5P10. Recloser CT are not meant for metering purpose. Our inbuilt CT of 600/1 A is suitable for detecting current (for protection) up to 1.2 Amp. Same shall be sufficient for said requirement.	As per TS to be provided
	4.42	38 of 251	The controller shall have battery having capacity of minimum 20 complete operations and 48Hrs of backup which shall be charged by a temperature compensated charging circuit, allowing the battery to charge at an optimal rate to extend battery life.	The controller shall have battery having capacity of minimum 10 complete operations and 24Hrs of backup	Battery backup of max. 24 Hrs can be provided.	Battery backup of max. 24 Hrs can be provided. The controller shall have battery having capacity of minimum 10 complete operations and 24Hrs of backup

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
17	4.42	38 of 251	Shielded Control cable for connection from pole top unit to controller cabinet should be provided with minimum length of 7 meter.	Shielded Control cable for connection from pole top unit to controller cabinet should be provided with minimum length of 6 meter.	Length of control cable shall be 6 meters.	Length of control cable shall be 7 meters.
18	4.42	39 of 251	Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104 & MQTT.	Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104.		No deviation is accepted. Both the Controller & 4G Modem should have support of IEC 104 & MQTT.
18	4.42	39 of 251	The controller should monitor battery voltage and provide alarm if the voltage falls below 21V and cut-off at 18 V	The controller should monitor battery voltage and provide indication if the voltage falls below 21V and cut-off at 18 V	Indication thorough programmable IED's on relay HMI or signal to SCADA shall be provided.	Indication thorough programmable IED's on relay HMI or signal to SCADA shall be provided. DC low voltage & Battery charger failure signal must be available in Controller which should be available for SCADA integration
19	4.42	39 of 251	Support IEC - 60870-5-104 & MQTT for communicating with master station. Shall also support SFTP protocol to transfer disturbance record to remote server.	Support IEC - 60870-5-104 for communicating with master station. Shall also support SFTP protocol to transfer disturbance record to remote server.		Both the Controller & 4G Modem should have support of IEC 104 & MQTT. Shall also support SFTP protocol to transfer disturbance record to remote server.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
20	4.42	39 of 251	Event storage in internal memory of controller as below:	Event storage in internal memory of controller shall be 1024 events.		Minimum Event Storage in internal memory of controller as below Measurement event : 10000 System event : 1000 Alarm event : 1000 Normal event : 5000
21	4.44	40 of 251	The bidder should provide necessary support for integration of field device with TPCODL SCADA/ADMS/DA	The bidder should provide necessary support for integration of field device with TPCODL SCADA/ADMS/DA. The support can be provided thorough remote or physical presence at site.	Remote support for integration shall also be accepted.	<p>1. No deviation is accepted. Bidder to consider the entire scope as per the RFP.</p> <p>2. Necessary configuration, SCADA integration &amp; testing of all the Auto Recloser with Modem at sites is in the scope of Bidder.</p> <p>3. Purchaser will only do the necessary configuration in the Control Centre SCADA and will extend support during remote testing.</p> <p>All equipments should be preconfigured and checked during FAT. Any changes required in field will be done by BA for final commissioning and integration with SCADA.</p> <p>Remote support for integration shall also be accepted.</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
22	5.2.ii	41 of 251	<p>Indicating LEDs shall be provided by the bidder:</p> <p>a)Open (Separate LED)  b)Close (Separate LED)  c)Over current pickup with phase &amp; ground indication  d) Lockout  c)Unit status  e)Two user programmable LEDs  f)Contact &amp; breaker health status  g)Battery &amp; battery charger health status</p>	<p>Indicating LEDs shall be provided by the bidder:</p> <p>a)Open (Separate LED)  b)Close (Separate LED)  c)Over current pickup with phase &amp; ground indication  d) Lockout  c) Unit status  e)Two user programmable LEDs  <del>f)Contact &amp; breaker health status</del>  g)Battery &amp; battery charger health status</p>	AR healthy indication shall be provided instead of contact and breaker health status.	<p>No deviation is accepted. Bidder to consider the entire scope as per the RFP.</p> <p>AR healthy indication shall be provided instead of contact and breaker health status.</p>
23	5.2.iii	41 of 251	<p>j) Minimum TMS settings for IDMT element shall be 0.01 for better relay co-ordination with upstream breaker.  K) The high set/definite time delay shall have minimum 20ms setting.</p>	<p>j) Minimum TMS settings for IDMT element shall be 0.05 for better relay co-ordination with upstream breaker.  K) The high set/definite time delay shall have minimum 40ms setting.</p>		As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
24	5.2.iv	41 of 251	<p>Following metering capabilities shall be provided by the bidder which shall be monitored from local &amp; remote (through SCADA):</p> <ul style="list-style-type: none"> <li>a. Current - phase and neutral</li> <li>b. Voltage - phase-phase and phase-neutral</li> <li>c. Kilowatts - single and three-phase</li> <li>d. Kilowatt-hours - single and three-phase</li> <li>e. Kilovars - single and three-phase</li> <li>f. Power factor</li> <li>g. Frequency</li> <li>g. Positive, negative and zero sequence current</li> <li>h. Positive, negative and zero sequence voltage</li> <li>a. Load profile, current, voltage and power</li> </ul>	<p>The below mentioned measurement options are available in the relay:-</p> <ul style="list-style-type: none"> <li>a. Three-phase current measurement</li> <li>b. Sequence current measurement</li> <li>c. Residual current measurement</li> <li>d. Three-phase voltage measurement</li> <li>e. Sequence voltage measurement</li> <li>f. Three-phase power and energy measurement</li> <li>g. Single-phase power and energy measurement</li> <li>h. Frequency measurement</li> <li>i. Load profile record</li> </ul>		As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
25	8	44 of 251	Type tests shall have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	Type tests shall have been conducted in certified Test laboratories during the period not exceeding 10 years from the date of opening the technical bid.	Type test reports conducted within 10 years from the date of technical bid opening shall be acceptable. This is inline with CEA guidelines	As per latest CEA guideline
26	11	45 of 251	In the event any defect is found by the TPCODL/TPNODL/TPSODL/TPWODL up to a period of at least 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract whichever is earlier.	In the event any defect is found by the TPCODL/TPNODL/TPSODL/TPWODL up to a period of at least 48 months from the date of commissioning or 60 months from the date of last supply made under the contract whichever is earlier.	The warrantee of equoment shall be linked with individual supply date instead of last supplies made under contract.	As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
27	11	45 of 251	<p>TPCODL/TPNODL/TPSODL/TPWODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL/TPNODL/TPSODL/TPWODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.</p>	<p>TPCODL/TPNODL/TPSODL/TPWODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses <del>plus the TPCODL/TPNODL/TPSODL/TPWODL's own charges (@ 20% of expenses incurred)</del>, from the Associate or from the "Security cum Performance Deposit" as the case may be.</p>	<p>Only actual incurred expenses shall be recovered.</p>	<p>OK. Accepted.</p>
28	11	46 of 251	<p>In case of GP failure, BA shall report at site within 48 hours from intimation and arrange for rectification of fault within a mutually agreed time.</p>	<p>In case of GP failure, BA shall respond to complaint within 48 hours from intimation and arrange for rectification of fault within a mutually agreed time.</p>		<p>As per TS</p>



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
29	14	46 of 251	<p>TPCODL/TPNODL/TPSODL/TPWODL Offices/Site as and when required for better installation and usage of product .It is preferred that the service engineer present during installation, shall arrange to provide the operation training to the staff during installation and inform about the critical points.</p>	<p>To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams during installation &amp; commissioning of 1<sup>st</sup> lot of supplied reclosers.</p>	<p>Traning shall be provided by service engineer visiting TPCODL/TPNODL/TPSODL/TPWODL for supervision of erection &amp; commissioning of supplied reclosers only.We are assuming traning means product know how and basic trouble shooting infomration only. Trainging can not be given as and when required.</p>	As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
30	15	46 of 251	To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams as and when required.	To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams during installation & commissioning of 1 <sup>st</sup> lot of supplied reclosers.	Traning shall be provided by service engineer visiting TPCODL/TPNODL/TPSODL/TPWODL for supervision of erection & commissioning of supplied reclosers only. Trainging can not be given as and when required.	As per TS
31	15	46 of 251	To ensure quality of installations bidder shall provide supervision support during impartation.		Please specify exact no of man days to be considered for supervision per reclosers.	Ideally 1 Man day per Equipment, if required skilled manpower may be asked to increase.
32	18	46 of 251	Bidder shall ensure availability of recommended spares for 15 years from the date of commissioning.	Bidder shall ensure availability of recommended spares for 10 years from the date of supply or commissioning, whichever is earlier.		Shall be as per technical specification
33	Annexure-I	48 of 251	GTP of Modem Cum Router:		Response from modem vendor Shall be provided shortly	GTP along with type test certificates must be provided as per GTP
Technical Specification for 11kV pole mounted autorecloser, ENG-HV-2017						

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
34	1.0	56 of 251	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store of 11kV Pole mounted Autorecloser complete with all accessories and necessary training for efficient and trouble free performance.	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store of 11kV Pole mounted Autorecloser complete with all accessories and necessary training for efficient and trouble free performance.	Unloading at site or stores shall not be in suppliers scope. We are assuming training means product know how and basic trouble shooting information only.  This means supervision of erection & commissioning shall not be in BA's scope.	Scope will be supply with supervision of end to end activities, integration, testing and commissioning will be done in presence and guidance of bidder where manpower and equipment will under Discom's scope. If any spacial type of equipment is required like stimulator must be under bidder's scope. Unloading at stores will be under bidder's scope. If delivery will be taken at site, unlaoding at site will be also bidder's scope. Delivery loaction will be initimated before dispatch of the equipment.
35	1.0	56 of 251	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store of 11kV Pole mounted Autorecloser complete with all accessories and necessary training for efficient and trouble free performance.		This means supervision of erection & commissioning shall not be in BA's scope.	Scope will be supply with supervision of end to end activities, integration, testing and commissioning will be done in presence and guidance of bidder where manpower and equipment will under Discom's scope. If any spacial type of equipment is required like stimulator must be under bidder's scope.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
36	3.16	57 of 251	Wind Pressure : 300km/hr	Wind Velocity : 180 km/hr	As per IS 875-3 (1987) appendix A the basic wind speed at 10 meter height (where autoecloser is getting mounted) for Bhubaneshwar is 50 meter per second.	Unloading at stores will be under bidder's scope. If delivery will be taken at site, unlaoding at site will be also bidder's scope. Delivery loaction will be initimated before dispatch of the equipment.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
37	4.25	58 of 251	Operating sequence O-0.5s-CO-10s-CO-10s-CO	Operating sequence shall be O-0.2s-CO-2s-CO-2s-CO	<p>Initial tripping mentioned in operating sequence in specification i.e. 0.5sec is higher than normal outdoor breaker i.e. 0.3 sec. Hence request you to change it to 0.2 sec instead of 0.5 sec this will help to have product tested with more stringent requirement. Also request to verify that the said auto reclosing duty has been proven by the type test reports of the bidders.</p>	Noted , However it should be programmable at site

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
38	4.34	59 of 251	CT Accuracy : 1-630A – +0.5%	CT accuracy shall be 5P10	Since the CT's are used for protection purpose hence same shall have accuracy class of 5P10. Recloser CT are not meant for metering purpose. Our inbuilt CT of 600/1 A is suitable for detecting current (for protection) up to 1.2 Amp. Same shall be sufficient for said requirement.	Noted
39	4.38	59 of 251	Mounting bracket for Autorecloser and Aux. PT		Please specify exact no of requirement for double pole & single pole mounting	During detailed engineering shall be confirmed
40	4.45	60 of 251	Shielded Control cable for connection from pole top unit to controller cabinet should be provided with minimum length of 7 meter.	Shielded Control cable for connection from pole top unit to controller cabinet should be provided with minimum length of 6 meter.	Length of control cable shall be 6 meters.	As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
41	4.45	60 of 251	<p>Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104 &amp; MQTT.</p> <p>The controller shall have battery having capacity of minimum 20 complete operations and 48Hrs of backup which shall be charged by a temperature compensated charging circuit, allowing the battery to charge at an optimal rate to extend battery life.</p>	<p>Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104.</p> <p>The controller shall have battery having capacity of minimum 10 complete operations and 24Hrs of backup</p>	<p>Battery backup of max. 24 Hrs can be provided.</p>	<p>Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC- 60870-5-104 &amp; MQTT. DC low voltage &amp; Battery charger failure signal must be available in Controller which should be available for SCADA integration.</p> <p>Battery backup of max. 24 Hrs can be provided. Max operation cycles done within backup to be mentioned</p>
42	4.45	61 of 251	<p>Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104 &amp; MQTT.</p> <p>The controller should monitor battery voltage and provide alarm if the voltage falls below 21V and cut-off at 18 V</p>	<p>Controller must have at least one TCP/IP Ethernet port to / for communication with master station over IEC-60870-5- 104.</p> <p>The controller should monitor battery voltage and provide indication if the voltage falls below 21V and cut-off at 18 V</p>	<p>Indication thorough programmable IED's on relay HMI or signal to SCADA shall be provided.</p>	<p>Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC- 60870-5-104 &amp; MQTT. DC low voltage &amp; Battery charger failure signal must be available in Controller which should be available for SCADA integration. Indication thorough programmable IED's on relay HMI or signal to SCADA shall be provided.</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
43	4.45	61 of 251	Support IEC - 60870-5-104 & MQTT for communicating with master station. Shall also support SFTP protocol to transfer disturbance record to remote server.	Support IEC - 60870-5-104 for communicating with master station. Shall also support SFTP protocol to transfer disturbance record to remote server.		Both the Controller & 4G Modem should have support of IEC 104 & MQTT. Shall also support SFTP protocol to transfer disturbance record to remote server.
44	4.45	61 of 251	Event storage in internal memory of controller as below:	Event storage in internal memory of controller shall be 1024 events.	As per TS	Minimum Event Storage in internal memory of controller as below Measurement event : 10000 System event : 1000 Alarm event : 1000 Normal event : 5000



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
45	4.47	61 of 251	The bidder should provide necessary support for integration of field device with TPCODL SCADA/ADMS/DA	The bidder should provide necessary support for integration of field device with TPCODL SCADA/ADMS/DA. The support can be provided thorough remote or physical presence at site.	Remote support for integration shall also be accepted.	<p>1. No deviation is accepted. Bidder to consider the entire scope as per the RFP.</p> <p>2. Necessary configuration, SCADA integration &amp; testing of all the Auto Recloser with Modem at sites is in the scope of Bidder.</p> <p>3. Purchaser will only do the necessary configuration in the Control Centre SCADA and will extend support during remote testing.</p> <p>Remote support for integration shall also be accepted.</p> <p>All equipments should be preconfigured and checked during FAT. Any changes required in field will be done by BA for final commissioning and integration with SCADA</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
46	5.2.ii	62 of 251	<p>Indicating LEDs shall be provided by the bidder:</p> <p>a)Open (Separate LED)  b)Close (Separate LED)  c)Over current pickup with phase &amp; ground indication  d) Lockout  c)Unit status  e)Two user programmable LEDs  f)Contact &amp; breaker health status  g)Battery &amp; battery charger health status</p>	<p>Indicating LEDs shall be provided by the bidder:</p> <p>a)Open (Separate LED)  b)Close (Separate LED)  c)Over current pickup with phase &amp; ground indication  d) Lockout  c) Unit status  e)Two user programmable LEDs  <del>f)Contact &amp; breaker health status</del>  g)Battery &amp; battery charger health status</p>	AR healthy indication shall be provided instead of contact and breaker health status.	<p>No deviation is accepted. Bidder to consider the entire scope as per the RFP.</p> <p>AR healthy indication shall be provided instead of contact and breaker health status.</p>
47	5.2.iii	62 of 251	<p>j) Minimum TMS settings for IDMT element shall be 0.01 for better relay co-ordination with upstream breaker.  K) The high set/definite time delay shall have minimum 20ms setting.</p>	<p>j) Minimum TMS settings for IDMT element shall be 0.05 for better relay co-ordination with upstream breaker.  K) The high set/definite time delay shall have minimum 40ms setting.</p>		As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
48	5.2.iv	63 of 251	<p>Following metering capabilities shall be provided by the bidder which shall be monitored from local &amp; remote (through SCADA):</p> <ul style="list-style-type: none"> <li>a. Current - phase and neutral</li> <li>b. Voltage - phase-phase and phase-neutral</li> <li>c. Kilowatts - single and three-phase</li> <li>d. Kilowatt-hours - single and three-phase</li> <li>e. Kilovars - single and three-phase</li> <li>f. Power factor</li> <li>g. Frequency</li> <li>g. Positive, negative and zero sequence current</li> <li>h. Positive, negative and zero sequence voltage</li> <li>a. Load profile, current, voltage and power</li> </ul>	<p>The below mentioned measurement options are available in the relay:-</p> <ul style="list-style-type: none"> <li>a. Three-phase current measurement</li> <li>b. Sequence current measurement</li> <li>c. Residual current measurement</li> <li>d. Three-phase voltage measurement</li> <li>e. Sequence voltage measurement</li> <li>f. Three-phase power and energy measurement</li> <li>g. Single-phase power and energy measurement</li> <li>h. Frequency measurement</li> <li>i. Load profile record</li> </ul>		As per TS

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
49	7.3.I.v	66 of 251	Isolator (Inspection at OEM factory can be conducted by TPCODL/TPNODL/TPSODL/TPWODL team)	Please remove said clause	As per clause 4.42, page no. 5 of 15 the isolator is in scope of TPNODL hence same shall not be supplied by associate.	As per clause 4.42, page no. 5 of 15 the isolator is in scope of TP Odisha , hence same shall not be supplied by associate.
50	8	66 of 251	Type tests shall have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	Type tests shall have been conducted in certified Test laboratories during the period not exceeding 15 years from the date of opening the bid.	Type test reports conducted withing 15 years from the date of technical bid opening shall be acceptable.	As per CEA Latest Guidelines
51	11	67 of 251	In the event any defect is found by the TPCODL/TPNODL/TPSODL/TPWODL up to a period of at least 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract whichever is earlier.	In the event any defect is found by the TPCODL/TPNODL/TPSODL/TPWODL up to a period of at least 48 months from the date of commissioning or 60 months from the date of <del>last supply made under the contract</del> whichever is earlier.	The warrantee of equoment shall be linked with individual supply date instead of last supplies made under contract.	Shall be as per technical specification

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
52	11	67 of 251	<p>TPCODL/TPNODL/TPSODL/TPWODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL/TPNODL/TPSODL/TPWODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.</p>	<p>TPCODL/TPNODL/TPSODL/TPWODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses <del>plus the TPCODL/TPNODL/TPSODL/TPWODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.</del></p>	<p>Only actual incurred expenses shall be recovered.</p>	<p>OK. Accepted.</p>
53	11	67 of 251	<p>In case of GP failure, BA shall report at site within 48 hours from intimation and arrange for rectification of fault within a mutually agreed time.</p>	<p>In case of GP failure, BA shall respond to complaint within 48 hours from intimation and arrange for rectification of fault within a mutually agreed time.</p>		<p>As per TS</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
54	14	68 of 251	To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams as and when required.	To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams during installation & commissioning of 1 <sup>st</sup> lot of supplied reclosers.	Traning shall be provided by service engineer visiting TPCODL/TPNODL/TPSODL/TPWODL for supervision of erection & commissioning of supplied reclosers only. Trainging can not be given as and when required.	As per TS
55	14	68 of 251	To ensure quality of installations bidder shall provide supervision support during impartation.		Please specify exact no of man days to be considered for supervision per reclosers.	Ideally 1 Man day per Equipment, if required skilled manpower may be asked to increase.
56	17	68 of 251	Bidder shall ensure availability of recommended spares for 15 years from the date of commissioning.	Bidder shall ensure availability of recommended spares for 10 years from the date of supply or commissioning, whichever is earlier.		Shall be as per technical specification
General conditions of contract - Composite orders						

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
57	4	75 of 251	Scope of work		Our scope shall be of supply and supervision of commissioning of 11kV and 33kV Auto reclosers only.	Scope will be supply with supervision of end to end activities, integration, testing and commissioning will be done in presence and guidance of bidder where manpower and equipment will under Discom's scope. If any spacial type of equipment is required like stimulator must be under bidder's scope.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
58	5.0	75 of 251	<p>Unless specified elsewhere in the contract document, the prices/rates are inclusive of cost of finished product for which MDCC will be issued by TPCODL, packaging and forwarding charges, freight and transit insurance charges covering loading at Associate's works, transportation to TPCODL store/site &amp; unloading &amp; delivery at TPCODL stores/TPCODL site, cost of documentation including all the relevant test certificates and other supportive documents to be furnished.</p>	<p>Unless specified elsewhere in the contract document, the prices/rates are inclusive of cost of finished product for which MDCC will be issued by TPCODL, packaging and forwarding charges, freight and transit insurance charges covering loading at Associate's works, transportation to TPCODL store/site &amp; unloading &amp; delivery at TPCODL stores/TPCODL site, cost of documentation including all the relevant test certificates and other supportive documents to be furnished.</p>	<p>Unloading at site shall not be in suppliers scope.</p>	<p>Tender terms shall prevail. It will be under supplier's scope.</p>



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
59	6	76 of 251	Terms of payment	<p>Payment term :-  For Supply Part :-  80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of invoice certification of complete ICT. But the time capping in between supply and site availability to the contractor for ITC complete ICT will be 90 days. Any further delay in making the site available to Contractor completion of ICT beyond 90 days will lead to remittance of balance 20 % payment of Supply Part to BA on immediate basis</p>	<p>Please clarify exact terms of payment since there are different terms mentioned on content of enquiry &amp; GCC.</p>	<p>Tender terms shall be prevailed.</p>

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
60	12.2	82 of 251	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.	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 provided said damage/incompleteness etc of product is conveyed to supplier within 7 working days from the date of receipt of material at site.	There should be some time line for communicating transit damages to supplier.	Okay Noted. More that that GCC caluses and teder stipulation will be implemneted.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
61	13.3	84 of 251	TPCODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.	TPCODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses <del>plus the TPCODL's own charges (@ 20% of expenses incurred)</del> , from the Associate or from the "Security cum Performance Deposit" as the case may be.	Only actual incurred expenses shall be recovered.	OK. Accepted.
62	13.3	84 of 251	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.	The warrantee period of replaced parts shall be same as that of original equipment.	No separate extended warrantee shall be provided for replaced parts.	OK. Accepted.
63	13.3	84 of 251	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 warantee failure shall not be in acceptable to us.	Tender terms shall be prevailed.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
64	13.6	84 of 251	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.	Hidden defects in <del>manufacturing or</del> 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.	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.	OK. Accepted.
65	14.0	84 of 251	For the purpose of calculating and applying LD, each delivery lot shall be considered separately. For delay of each week and part thereof, from the delivery schedule specified for the lot, 1% of the contract value corresponding to the undelivered quantity of the lot subject to a maximum of 10% of the total contract value of the subject lot	For the purpose of calculating and applying LD, each delivery lot shall be considered separately. For delay of each week and part thereof, from the delivery schedule specified for the lot, 0.5% of the contract value corresponding to the undelivered quantity of the lot subject to a maximum of 5% of the total contract value of the subject lot	The limit of LD shall be 0.5% per week upto maximum 5% of undelivered portion.	Tender terms shall be prevailed.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation		CEG Response
66	14.0	84 of 251	liquidated damages	<ul style="list-style-type: none"> <li>• LD shall be computed on the undelivered lot upto the max LD limit.</li> <li>• LD shall be exclusive remedy for delay and in full satisfaction. Under the contract, TPDDL shall first exhaust the LD max limit before resorting to any other remedy available under the contract.</li> </ul>	Tender terms shall be prevailed.
67	17.0	87 of 251	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.	Any intellectual property developed or acquired by Associate during course of contract shall be owned by Associate only. Otherwise tender terms will be prevailed.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation		CEG Response
68	18.0	87 of 251	Indemnity	The Associate assumes responsibility for and shall indemnify and save harmless the TPCODL from all liability, claims, costs, expenses, taxes and assessments including penalties, punitive damages, attorney's fees and court costs which are or may be required to be paid by the TPCODL and its officers, directors, employees, affiliates, agents, successors and assigns arising from any breach of the Associate's obligations under any local or national law or laws, or in respect to all salaries, wages or other	Referring to the practice in TP Odisha Disoms, the clause can be read as- The Associate assumes responsibility for and shall indemnify and save harmless the respective odisha discoms from all liability, claims, costs, expenses, taxes and assessments including penalties, punitive damages, attorney's fees and court costs which are or may be required to be paid by the respective odisha discoms and its officers, directors, employees, affiliates, agents, successors and assigns arising from any breach of the Associate's obligations under the Contract or for which the Associate has assumed responsibilities under the Contract including those imposed under any local or national law or laws, or in respect to all salaries, wages or other compensation for all persons employed by the Associate or his Sub Associates or suppliers in connection with the performance of any work covered by the Contract. However, other details regarding this clause shall remain same as mentioned in tender.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
69	19.0	87 of 251	Liability & limitations	Notwithstanding any provision to the contrary. Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's gross negligence, or willful misconduct		Referring to the practice in the clause can be read as - "Except for any specific monetary value liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's gross negligence, willful misconduct." Limitation of liability shall be 100% of contract value
70	20.0	87 of 251	FORCE MAJEURE	safety measures against covid, quarantine restrictions shall be force majeure events.		Tender terms shall prevail. Will be depending on respective odisha discom's discretion

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
71	22.3	91 of 251	Termination for convenience of TPCODL	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.		Referring to the earlier practice, the clause can be read as - "In case of termination for convenience of respective odisha discoms or cancellation of project, Associate shall also be paid for the cost of actual executed work for WIP project along with supplies/services rendered until date of termination. Certified invoices at site by respective discom's representative."
General						



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
72			Exclusion of Consequential Damages	Exclusion of Consequential Damages : Notwithstanding any other provision to the contrary, in no event shall ABB, its suppliers, sub-contractors, employees and Affiliates, be liable under this contract for any loss of profits, loss of use, loss of production, loss of contracts, loss of data or any indirect or other consequential losses/damages, whether in contract, warranty, tort, negligence, strict liability or caused otherwise.	knldy include the said clause.	It shall be same as agreed by respective odisha discoms (TPNODL / TPSODL) i.e. Except for any specific liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's negligence, willful misconduct or breach of contract. Limitation of liability shall be 100% of contract value

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
73			Liability limitation	Notwithstanding anything contained in this Contract/PO and/or any of its parts, it is agreed between the parties hereto that the aggregate cumulative liability of the ABB under this Contract/PO (regardless whether the claim is based upon tort, negligence or strict liability) resulting in any way from the performance or non-performance, all indemnities, liabilities, loss, damages, expenses, claims, direct damages risk purchase etc. shall not exceed 100% of the Contract value/PO value.	knldy include the said clause.	It shall be same as agreed by respective odisha discoms (TPNODL / TPSODL) i.e. Except for any specific liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's negligence, willful misconduct or breach of contract. Limitation of liability shall be 100% of contract value

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
74			Trade, Control and compliance	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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</li> </ul>	knldy include the said clause.	Contract to respond

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
75				<p>The parties are aware of the shortage of raw material, electronic components worldwide which is likely to last for the foreseeable future, as well as of market fluctuations in the availability and cost of other raw materials, commodities, other critical components, and transport capacities. Notwithstanding anything to the contrary in the contract/terms and conditions/purchase order, if after the date of ABB's proposal/offer or during the term of the performance of the contract/purchase</p>	<p>Looking into the current crisis going on with global supply chain request you to knldy include the said clause.</p>	<p>Contract to respond</p>
Technical Specification ENG-HV-1047 (33kV Pole Mounted Auto recloser)						
Sl. No.	Technical requirement	TPCODL/TPSODL/TPNODL/TPWODL Requirement	Compliance (Yes/No)	Remark	TPCODL's Reply	
1.0	Product Description					

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
1.1	Make & Model	Vendor to provide Make & model of proposed cellular Router. Preferred Make- Teltonika RUT950/ CMS- CS-INMDM-LAN/ABB ARG 600/Any other Reputed Make Note: Make will be finalized during detailed Engineering		Make: Dynalog Model: Dyna-2100		Noted
		Bidder to note that the Make and Model for 24V and 48V Application shall be of same OEM.	Yes			Noted
1.2	Life Cycle Details	Bidder to submit Life Cycle details of the Proposed Cellular Routers		It supports 291643.1998hrs.		Product life cycle report & MTBF report
2.0	Radio Interface					
2.1	Radio Interface	4G LTE, Fallback to 3G & 2G	Yes			noted
2.2	Data interface	Cat 4, Max Download 150 Mbps, Max Upload 50 Mbps	Yes	LTE-FDD: DL 150Mbps; UL 50Mbps LTE-TDD: DL 130Mbps; UL 30Mbps HSPA: DL 21Mbps; UL 5.76Mbps WCDMA: DL 384 Kbps; UL 384 Mbps Edge: DL 236.8Kbps; UL 236.8Kbps GPRS: DL 85.6Kbps; UL 85.6Kbps		noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation		CEG Response
2.3	Supported Frequency Band	1. Modem should support multiband connectivity with FDD 4G LTE & TDD 4G LTE 2. It should support Band 1,3,5,8 and Band 40 3. The offered cellular router should support and compatible to the data & Radio Interface of the Network of Public Mobile Service provider in ODISHA State	Yes	LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/ B41 WCDMA B1/B5/B8 GSM/EDGE B3/B8	noted
2.4	Radio Transmitter Power	Bidder to submit details of Radio Transmitter Power		Refer attachment	Kindly share the attachment
2.5	Receiver Sensitivity	Bidder to submit details of Receiver Channel Sensitivity		Refer attachment	Kindly share the attachment
2.6	Cellular Module / Chip	Bidder to submit details of Cellular Chip / Module used in the proposed Cellular Router along with Datasheet		Cellular chip is EC200A	noted
3.0	Operating Environment				
3.1	Operating Temperature	-20 C to +70 C	Yes		
3.2	Operating Humidity	5 % to 100 % (non-Condensing)	Yes	It support 5 to 95%	noted
3.3	Power Consumption	Bidder to submit details of Power Consumption during Idle and Max during Data Transmission	Yes	Idle:200mA@12V Data link:580mA(p eak)@12	noted
3.4	Storage /transport temperature	-40 C to +85 C	Yes		noted
3.5	MTBF	Bidder to submit MTBF details of Proposed Cellular Router	Yes	It supports 291643.1998hrs.	noted
3.6	Protection from Harsh Environmental Conditions	Bidder to submit design details such as Protective Paint /Conformal Coating of PCB, Use of high-grade electronic components to Protect from harsh environmental conditions (e.g., Saline conditions).	Yes	We shall be able to provide conformal coating PCB	noted
4.0	System Characteristics				

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
4.1	CPU	1. Bidder to submit Make & Technical details of CPU used in the proposed Cellular Router. 2. Arrange the technical data sheet of CPU. 3. Bidder to note that the CPU usage should not cross 40% load in typical Operating & Maintenance condition.	Yes	CPU: QCA9531		noted
4.2	RAM	1. Bidder to submit details of Memory type, Speed & Size in the proposed Cellular Router. 2. Usage of memory should not exceed 60 % in typical Operating & Maintenance condition	Yes	Flash: 32MB;		noted
4.3	Flash Storage	1. Bidder to submit details of Flash Storage Memory 2. Provision to store Configuration File, System & Event Logs	Yes	2.4MB logs store to NVM		noted
5.0	Mechanical Construction					
5.1	Dimension (W X H X D)	Bidder to submit Dimension details of the proposed Cellular Router (W X H X D)	Yes	127 x 82 x 30 mm		noted
5.2	Weight in Kg	Bidder to submit proposed Cellular Router Weight in Kg	Yes	350 g		noted
5.3	Housing	Aluminum Alloy having better heat dissipation & ruggedness – Preferred	Yes	It supports Metal casing		noted
5.4	Mounting	DIN rail Mounting with all mounting accessories	Yes			noted
5.5	Degree of Protection	IP 30	Yes			noted
6.0	Interface/Port Type					

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
6.1	Ethernet	1. Minimum 2 Nos. RJ45 Ethernet Port, Speed 10/100 Mbps Auto Negotiable with Status LED indication. 2. Port should be configurable as LAN /WAN as per site requirement	Yes			noted
6.2	Cellular Interface	1. Cellular Router should have dual SIM provision 2. Dual SIM for network redundancy / Backup. 3. Dual SIM operation ensures that the cellular connection is always available. It shall Automatically disconnect the 1st SIM card's low/weak cellular connection and shall reconnect to establish a stronger network using the 2nd SIM card.	Yes	It supports all mentioned features. For point 3. , SIM switching is done based on Ping detection server. Where we can define primary Ping detection server and secondary Ping detection server.		noted
6.3	Ethernet Cable	Bidder to provide Ethernet Cable (CAT 6), with minimum length of 1.5 M	Yes			noted
7.0	Software Features / Supported protocols					
7.1	Network Protocols	TCP/IP, UDP/IP, HTTP, ARP, DHCP, ICMP,SNMP, V1/V2 & V1, NTP, SSL/TLS	Yes			noted
7.2	Routing	Astatic Routing, RIP 1 & 2, OSPF V2 & V1	Yes	It support all mentioned features.		noted
7.3	VPN	Open VPN, IP Sec, L2TP, PPTP, GRE	Yes			noted
7.4	Alarm Message	Device shall have Alarm Notification on SNMP trap	Yes			noted



Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
7.5	Management /Monitoring	1. Cellular Router shall support Local / Remote Management through web HTMLS, SSHP & Telnet 4. 2. It shall support monitoring through System logs & SNMP version V1/V2 & V3. 3. Notification & Command shall be possible over SMS. 4. Firmware upgradation through Web,backup & restore of configuration shall be possible	Yes			noted
7.6	Operating System	Bidder to submit the details of Operating System with Version	Yes	we support ROS and upgrade the firmware version		noted
7.7	Application	Bidder to submit the details of Application & Package proposed and installed in Cellular Router	Yes	L2TP,PPTP,DMV PN,VRRP,QoS,SNMP,Language,Dyn amicRoute,Captive Portal,ModbusMas ter.		noted
7.8	AT Command Support	YES /NO	Yes			noted
7.9	Scheduled rebooting	Device should be capable to program Auto Rebooting as per configured schedule and time	Yes			noted
7.10	Watch dog feature	1. Router Shall have feature of tracking data connectivity status by periodic ping test and switchover on backup. 2. Cellular /WAN interface if tracking ping test fail	Yes			noted
7.11	Factory Reset	Provision of Resetting the device for Factory Configuration	Yes			noted
7.12	Diagnosis Feature	Device Shall support real time diagnostic such as Active Connection, Traffic on Interfaces	Yes			noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
8.0	Security					noted
8.1	Security	HTTPs, SSH, Authentication with RADIUS or TACACS +, Activate Cellular Interface with SMS, Ethernet 802.1X (EAP-PEAP/MsCHPv2 or EAP -TLS)	Yes			noted
8.2	Authentication	User Management (Local, RADIUS, TACACS +, Mixed)	Partial	Not support Mixed, others should be ok.		noted
8.3	State inspection firewall	Static Firewall IPv4 / IPv4 with Incoming and Forwarding rule set, DoS protection, IP / Port / Protocol filtering, NAT	Yes			noted
9.0	Antenna					noted
9.1	No Of Antenna	4G Cellular Router Shall be provided with two Antennas & Interfaces (MIMO). One is Primary Cellular Antenna & Second as Diversity Antenna (MIMO)	Yes			noted
9.2	Antenna Cable Length	Cable should have Low loss RF Cable with minimum length of 5 Meters	Yes			noted
9.3	Type of Antenna	Antenna Should be Omni directional	Yes			noted
9.4	Construction of Antenna	1. Shall be Steady, Good Quality Material, Water / Weatherproof having Adequate Gold Plate Connector compatible with Cellular Router Antenna Port. 2. With suitable Mounting Arrangement for Indoor installation	Yes			noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
9.5	Frequency Band, Impedance & Polarization	1. Bidder shall submit the details of Frequency Band. 2. Antenna should be compatible with offered device & network service provide with Frequency Band, Port Impedance & Radio Signal Polarization.	Yes	It supports 600~6000MHz, 50ohms impedance and vertical polarization.		noted
9.6	VSWR	Bidder shall submit the details of VSWR	Yes	It support <2		noted
9.7	Gain of antenna	Bidder shall submit the Gain details of Primary & Secondary Antenna	Yes	It support 5dbi gain for both primary and secondary		noted
10.0	Power Supply					
10.1	Power Supply	Input Power Supply range shall be stabilized 18 V – 72 V DC	Yes	It supports 9 ~ 36 VDC. But in case of power input needed is 18 to 72VDC, we can provide DC to DC power supply		noted
10.2	Connector Type	1. Router Should have preferable screw type firm connection. 2. It should have Reverse Polarity and Surge Protection	Yes	It supports reverse polarity protection and IEC 61000-4-5 (Surge) Level 3		noted
11.0	Status & diagnostics indicator					
11.1	LED indicator	Bidder to submit details of Status & Diagnostics Indicator. (Power- ON & OFF, ERR- Error Red, Signal, Network, SIM Status)	Partial	It supports 1 x RUN, 1 x MDM, 1 x WIFI, 3 x RSSI		noted
12.0	Certification: - IEC					
12.1	Electrostatic Discharge Immunity Test	IEC EN 41000-4-2	Yes			All certifications are mandatory
12.2	Radiated, Radio-frequency,	IEC EN 41000-4-1	No			All certifications are mandatory

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
	Electromagnetic Field Immunity Test	IEC EN 41000-4-1	No			All certifications are mandatory
12.3	Electrical Fast Transient / Burst Immunity test	IEC EN 41000-4-4	Yes			All certifications are mandatory
12.4	Surge Immunity Test	IEC EN 41000-4-5	Yes			All certifications are mandatory
12.5	Immunity to Conducted Disturbances, induced by Radio-Frequency fields	IEC EN 41000-4-4	Yes			All certifications are mandatory
12.6	Information Technology Equipment Safety	IEC 40950	No			All certifications are mandatory
12.7	Environmental Testing - Vibration (Sinusoidal)	IEC 40048-2-4	No			All certifications are mandatory
12.8	Environmental Testing - Shock	IEC 40048-2-27	No			All certifications are mandatory
12.9	Environmental Testing - Free Fall (withdrawn)	IEC 40048-2-12	No			All certifications are mandatory
12.10	Proof of Check	Bidder shall provide one number Cellular Router with Accessories along with technical offer for performance & Application Compatibility Check for period of minimum 15 days	Yes			noted
12.11	Country of Manufacturing	Bidder shall provide Country of Manufacturing details of the proposed Cellular Router		India		noted
12.12	Service Centre in India	Bidder shall provide details of Service Centre in India		Mumbai		noted

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation			CEG Response
12.13	Regulatory compliance	1. Bidder shall confirm that offered product is compiled & certified by all Indian Government Bodies related to Telecommunication/ Wireless Communication (WPC, DOT) to operate & use this product in India 2. Bidder shall submit the Compliance Certificate for the same	Yes			noted
12.14	Surge Protection / Electrical Isolation	It should be available on all Ethernet communication ports & Power Supply Input. Bidder shall share certification in this regard.	Yes	It support 1.5Kv of magnetic isolation protection for LAN ports.		noted
12.15	Information to Bidder	Cyclonic environment with wind velocity up to 250 kmph. Some of the regions where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for electronic equipment. Some places are in heavily industrial polluted areas. Therefore, all supplied material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere.	Yes			noted
13	Warranty	Minimum 5 Years Standard Warranty with patch management, OS upgradations support.	Yes			noted

**11 KV AR & 33 kV AR and sectionalizer**

Sl No.	Rating	UOM	QTY				Total	Rate (Rs)	Amount (Rs)	GST Amount (Rs)	Total with GST (Rs)
			TPCODL	TPNODL	TPSODL	TPWODL					
1	Rate contract for supply with supervision of 11KV auto recloser	Each	10	208	18	16	252				
2	Rate contract for supply with supervision of 11KV Sectionalizer	Each			35	48	83				
3	Rate contract for supply with supervision of 33 KV auto recloser	Each	8	4	7	10	29				
4	Rate contract for supply with supervision of 33 KV Sectionalizer	Each			13	30	43				

\* Mandatory to quote for all line items, otherwise bid will not be considered further

**NOTE:**

1) All rates are to be quoted on delivered basis at TPCODL Store -Cuttack or Bhubaneswar, TPWODL Store-Burla, Sambalpur, TPNODL Store- Sovarampur, Balia, Balasore, Odisha, and TPSODL Store- Berhampur, Odisha

(PAN TPWODL,TPSODL,TPCODL and TPNODL), should be inclusive of freight, insurance, loading & unloading, handling charges and any other charges which may be applicable.

2) The overall period of the rate contract/PO shall be for a period of 1 year. PO/ Release order shall be issued as per the requirement of TPNODL /TPSODL. Rates will remain firm and fixed during the rate contract/PO validity of 1 year.

3) The bids will be evaluated commercially at item wise lowest cost.

4) The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.

5) The bidder must fill each and every column of the above format. Mentioning "extra/inclusive" in any of the column may lead for rejection of the price bid.

6) No cutting/ overwriting in the prices is permissible.

7) Quantities mentioned above is for evaluation purpose only and not guaranteed. Quantities may change. as per actual requirements.

8) NIT will be splitted amongst multiple BAs.