		Tender No-TPSODL/OT/21-22/063		
		Package Name-Rate Contract for Supply of O/H Communicable FPI with Reply to Technical and Commercial Pre-Bid Queries		
Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	Page 4 of 17 : 4.5	Ingress Protection of enclosure - IP65 or better	What is the requirement of IP65? Attaching document why IP56 meets the requirment.	Specification to be complied
2	Page 4 of 17 : 4.8	Conformal coating - The relay PCB should have conformal coating	Why is conformal coating needed at an elevation in an open environment?	Specification to be complied
3	Page 4 of 17 point 5	9     Current setting Trigger value     100 A to 800 A steps of 100 A and Manually or Automatic Mode- Can be set on site remotely       10     Transient faults detection feature     This feature can be made On or Off, Manually and Remotely as per application site need.       11     Minimum fault current impulse filter time     60 to 300ms (To filter inrush current)       12     Beacon Flash Indication Duration (user settable)     30 min to 720 min in steps of 30 min - Manual and Remote Settable       13     Inrush transient restraint     2 sec       14     Auto-reset on restoration on supply     Should auto-reset after 30 seconds delay and within one min of supply restoration.	Minimum 2-3sec inrush restraint setting is advised. Why is the inrush restraint setting kept so low? Flashing Indication Duration and Pre-set Timer Reset are the same thing. Different values are	Specification to be complied
		15         30 min to 360 min in steps of 30 min - Manual and Remote Settable		
4	Page 4 of 17 :4.17	<ul> <li>Fault Indications : a. Bright Red Flesh Light ( LEDs) for Permanent Faults,</li> <li>b. Preferably Green LED for transient fault with different blinking rate</li> <li>c. Preferably Yellow LED for low battery indication</li> <li>Bidder to submit the offered equipment details of features for indication of above faults categories.</li> </ul>	Why are different color LED needed to signify different faults in case of communicable FPI? Type of fault and simultaneous alarm is generated at SCADA. Why is low battery indication needed on the FPI in case of communicable FPI? Low battery indication alarm is generated at SCADA.	Specification to be complied
5	Page 4 of 17 :4.20	Flash Period for permanent faults - 1 flash every 3 sec and/or Red flashing LED	Bright Red Flashing, flash period for permanent faults: (1 flash every 3 s (< 2 h) then 1 flash every 6 s)( Kindly accept)	Specification to be complied
6	Page 4 of 17 :4.23	Battery low indication - The FPI should have low battery indication Local and remote alert (Bidder to submit details of provision)	Why is low battery indication needed on the FPI in case of communicable FPI? Low battery indication alarm is generated at SCADA.	Specification to be complied
7	Page 4 of 17 :4.24	Internal Battery of FPI - Lithium Ion rechargeable battery (Shall recharge from line current)	Lithium battery has a long life duration and is easily replaceable. Why is rechargable battery required in OH FPI? Such a battery makes the FPI heavy and more difficult to operate.	Non rechargable battery may be considered however batter life shall be 10 years
8	Page 4 of 17 :4.25	Life of the Battery - More than 10 years	Lithium battery has a long life duration and is easily replaceable.	Specification to be complied
9 10	Page 5 of 17 :4.29 Page 5 of 17 :4.33	Suitability for Wind Resistance - For wind pressure 126kg/sq m up to an elevation of 10 mts FPI power up current - FPI should be power up with Minimum 20A line current & battery power shall be used only after fault	Wind resistance in km/hr is needed. OH FPI shall be supplied with Lithium battery which is easily replaceable and also has a long life duration.	Wind velocity: 300 km/hr Non rechargable battery may be considered however batter life shall be 10 years
11		<ol> <li>General Instruction -</li> <li>The Overhead Fault Passage Indicator shall locate the passage of faults on overhead lines. The FPI shall indicate transient faults and permanent faults on the O/H lines. The transient fault detection feature should have disable feature with manual as well as</li> <li>The Overhead Fault Passage Indicator shall operate on passing over of the absolute threshold current (user settable).</li> <li>Current peaks. caused by switching on power equipment like transformers etc. can</li> </ol>	Minimum 2-3sec inrush restraint setting is advised. Why is the inrush restraint setting kept so low?	

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No Page 0 01 17:5:0:1	<ol> <li>Current peaks, caused by switching on power equipment like transformers etc. can reach the operating point of FPI and may lead to a wrong evaluation, to avoid this, the incoming impulse must be filtered internally. Ny be indicated by FPI, if the current impulse lasted longer than the pre adjusted minimum impulse duration.</li> <li>This duration should be internal set as 60ms minimum or/and can be adjustable in range of 60 to 300ms based on equipment in network application.</li> <li>Side and up to the location of the fault. Such that the fault location shall be between the last flashing FPI and the next non-flashing FPI which is in standby mode.</li> </ol>	Remarks - Query / Clarification	TPSODL Response
12	Page 7 of 17 point 5.1	Trip current and Fault types - 5.1.3 The FPI shall detect and indicate phase to phase faults. In addition to this, the FPI shall also detect and differentiate between transient, temporary and permanent faults.	What is the difference between transient and temporary fault? There are two types of faults: permanent & temporary (transient) faults	OK Noted
13	Page 7of 17 :5.2	LED/Indication - 1. The FPI shall indicate faults by means of bright red LED for permanent faults so that the indication is clearly visible during night times and by means of a red luminous flag, so as to be clearly visible in the bright sunlight during day times. 2. Alternately it is preferred that FPI shall have different color light (LEDs) for permanent faults, transient fault and low battery indication. 3. Bidders to mention the options provided for various faults and indication purposes.	<ul> <li>Why are different color LED needed to signify different faults in case of communicable FPI?</li> <li>Type of fault and simultaneous alarm is generated at SCADA.</li> <li>Why is luminous flag needed along with LED in case of communicable OH FPI?</li> <li>Type of fault and simultaneous alarm is generated at SCADA.</li> <li>Also, the high intensity of LED is visible 360degress (Visibility angle) at any time during the day.</li> <li>Why is low battery indication needed on the FPI in case of communicable FPI?</li> <li>Low battery indication alarm is generated at SCADA.</li> </ul>	Specification to be complied
14	Page 7of 17 :5.4.2	Battery - The lithium battery provided inside the FPI shall be replaceable type, in case of battery failures. The Battery shall have a minimum indicating life of 10 years / 1000 hours.	OH FPI shall be supplied with Lithium battery which is easily replaceable and also has a long life duration.	OK Noted with battery life of 10 years
15		Remote Control Unit features -         (For communicable FPI)         5.6.1         The FPI shall be supplied along with suitable Remote Control Unit, having a LCD display, common for all the Overhead Fault Passage Indicator. The supplier shall supply one	Why is a Remote Control Unit needed in case of a communicanle OH FPI?	Specification to be complied

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	Page 8of 17 :5.6	<ul> <li>5.6.2 The FPI shall be equipped with remote Test and Reset features, so that the functionalities including status of battery and flag can be tested without removing the FPI from the line. The Remote Control Unit shall capable of performing the following operations: <ol> <li>Perform Test / Reset operations by standing below the FPIs</li> <li>View settings of various parameters of the FPI like trip current, response time, reset time, temporary fault indication status, transient fault indication status, auto-reclosure support status etc.</li> <li>Set various parameters of the FPI like trip current, response time, reset time, temporary fault indication status, transient fault indication status, auto-reclosure support status etc.</li> <li>View real-time value of the current flowing though the 11kV line on which a particular FPI is installed. This current shall be indicated in terms of Amps (A).</li> <li>Operating range for the Remote Control Unit shall be minimum 30m radius.</li> </ol> </li> <li>5.6.3 The settings for the FPI shall be settable at site, without dismounting the FPI from the line. Following parameters shall be settable at site.</li> <li>Trip Current <ul> <li>Response Time</li> <li>Response Time</li> <li>Response Time</li> <li>Response Time</li> <li>Turm On / Off indication for Transient Faults</li> <li>Turm On / Off auto-reclosure support function</li> </ul> </li> </ul>		
16	Page 9of 17 :5.7	Master station communication protocol - Support IEC -60870-5-104/MQTT for communicating with master station. Preferably support FTP protocol to transfer disturbance recorder to remote server. Simultaneously communication facility to field engineer for faster local restoration	Kindly elaborate	Both are two separate channels IEC-104 & MQTT
17		Communication - Controller must have at least one TCP/IP Ethernet port to for communication with master station over IEC-60870-5-104 & MQTT. No external protocol converter wiil be accepted.	It has 2 RS232 Port for communication to the master unit	Specification to be complied
18		Minimum No of TCP/IP Eather Port - 2 (Among them one must be engineering port)	We have 2 RS-232 port (Among them one is engineering port)( Kindly accept )	Specification to be complied
19		Cyber Security - User level authentication, Disabling the DNS, Disabling/enabling/configurable TCP/UDP port.	Kindly elaborate	Specification to be complied
20		Protection Features - Measurement event : 10000, System event 1000, Alarm event 1000, Normal event 5000	It has a capaity of 100 time stamped events	Specification to be complied
21	Page 11 of 17: 7.1	Type test -	All these Type Tests are not applicable to OH FPI. EFT (Electrical Fast Transient) Immunity and Surge Immunity Test are not applicable to OH FPI.	Type Test shall be required as per our specification/Relevent IEC standards
22		The FPI shall indicate faults by means of bright red LED for permanent faults so that the indication is clearly visible during night times and by means of a red luminous flag, so as to be clearly visible in the bright sunlight during day times. 2. Alternately it is preferred that FPI shall have different color light (LEDs) for permanent faults, transient fault and low battery indication.	The device has no Flag	Alternately it is preferred that FPI shall have different color light (LEDs) for permanent faults, transient fault and low battery indication.
23	Page 5: Point No 1.1		We understand that our scope will be limited to supply of - 11kV & 33KV O/H Communicable FPI, DCU and associated equippments only. Installation & comissioning of FPI, DCU & associated eqipments are not in our scope. Please confirm.	Installation of the FPI is not in the scope of bidder However Supervision of installation,testing, commissioning & Integration of complete eqipments is in scope of bidder
24	Page 13: Point No 7.1	Special Conditions of Contract: TENDER SAMPLE: Bidder has to demonstrate the complete integration of O/H FPI and DCU (up to SCADA) within 10 days of bid opening to Engineering Group.	We recommend to conduct the demo online. However in case onsite demo is required, we will try to do the same within best possible time. Please allow us atleast 20 days of time to conduct the same.	specification to be complied

<b>Sr. No.</b>	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No Page No 27, Point	Description as per Bid Document Wind velocity: 300 km/hr, 200 km/hr and 160 km/hr.	Remarks - Query / Clarification Since it's a O/H equipment, it is recommended	TPSODL Response
25	No 11		that offered product should be tested for heavy wind speed - Atleast 200 km/hr.	Specification to be complied
26	Page No 27, Point No 2	Application - Product shall be suitable for application on overhead lines of different size conductors and ABC	Our proposal is <b>Product shall be suitable for</b> <b>application on overhead lines of different size</b> <b>conductors of dia 5mm to 25mm.</b> Aerial bunch cables run together. It is not possible to mount one FPI on a phase cable of ABC	Product shall be suitable for application on overhead lines of 55-232 Sq mm size conductors and ABC
27	Page No 27, Point No 5	Ingress Protection of enclosure -IP65 or better	We assume that IP65 protection is required for O/H communicable unit only. Please confirm.	Applicable for complete set of equipment
28	page no.28, Specification of FPI for Overhead lines, clausno4, point no.17	Fault indications: a. Bright Red flash light (LEDs) for permanent faults, b. Preferably Green LED for transient fault with different blinking rate c. Preferably Yellow LED for low battery indication Bidder to submit the offered equipment details of features for indication of above faults categories.	We provided flashing patern on alarm LED (RED): Permanent = 1 flash; Transient = 2 flashes; Battery = 3 flashes. Please accept the same.	Specification to be complied
29	Page No 28, Point No 9	Current setting Trigger value: 100 A to 800 A steps of 100 A and Manually or Automatic Mode Can be set on site or remotely.	Our proposal - 75 A to 1500 A steps of 100 A and Manually Can be set on site or remotely. Wider setting range is suitable for most of the feeders. It is always recommended to have fixed setting (rather than automatic setting) based on fault setting of the patricular feeder as load current is always tends to vary over situation.	specification to be complied
30	Page No 28, Point No 11	Minimum fault current impulse filter time: 60 to 300 ms (To filter inrush current)	We assume this is response time. For us response time is $2 \pm 1$ cycle and not configurable	Specification to be complied
31	Page No 28, Point No 12	Beacon Flash Indication Duration (user settable): 30 min to 720 min in steps of 30 min. Manual/Site/Remote Settable	Our proposal - <b>120 min to 960 min in steps of 30</b> <b>min. Manual/Site/Remote Settable.</b> Settable longer blinking duration will be helpful for patroling team to identify the fault location. And also FSI have remote reset option in case the fault is idenified in SCADA control centre. Voltage based reset is also available to reset the device once the power is restored.	
32	Page No 28, Point No 13	Inrush transient restraint: 2 sec	It is recommended to have higher time setting to blocks the fault detection due to magnetization during the voltage restoration on the MV overhead line.	Specification to be complied
33	Page No 28, Point No 15	Pre-set Timer Reset: 30 min to 360 min in steps of 30 min – Manual/Site/Remote Settable	Our proposal - <b>120 min to 960 min in steps of 30</b> min. Manual/Site/Remote Settable.	Specification to be complied

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Sr. No.	Document. Please	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
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	No / Clause No /			
34	Page No Page No 28, Point	Fault Indications a. Bright Red flash light (LEDs) for permanent faults,		Creation to be complied
34		b. Preferably Green LED for transient fault with different blinking rate	Our proposal a. Bright Red flash light (LEDs) for permanent	Specification to be complied
		c. Preferably Yellow LED for low battery indication	faults,	
			b. Preferably Green LED or separate blinking	
			pattern for transient fault & low battery	
			Indication. Separate binking patterns	
			available for temporary faut, permanent fault anf	
			low batery. RED LEDs help to have longer	
			visibility. All these information are also sent to	
			SCADA.	
35	Page No 28, Point	Standard total flash duration: Min. 1000 Hrs under permanent fault operation	We request to consider 7.5 years of life with 1000	Specification to be complied
	No 22		hours of flashing.However, if Energy	
			Harvesting is active for over 30% of time(ie over	
			30% of time currents are above 60A), we would	
36	Page No 28, Point	Internal Battery of FPI: Lithium Ion rechargeable battery	be able to reach 10 years of life. We request to consider Lithium Ion non-	Non rechargable battery may be
00	No 24	Internal battery of FTT. Entran for reonargeuble battery	rechargeable battery. Rechargeable batteries are	considered however battery life
			normally used for high power drain devices.	shall be 10 years
			SICAM FSI is a low power drain device and with	
			non-rechargable battery we claim 7.5 years of life	
			with 1000 hours of flashing.	
37	Page 29: Point No	Integration with SCADA: The scope shall include integration of field device with Purchaser's SCADA System.	As an OEM, our scope will be limited to	Installation of the FPI is not in the
	46		programming of device & availability of signals	scope of bidder However
			over IEC 104.	Supervision of
				installation,testing, commissioning & Integration of
				complete eqipments is in scope
				of bidder
38	Page 29: Point No	Fixing on line conductor: Should be Easy to fix with hot stick	Details of the hot stick (Qty, length, kV level) not	BA shall submit the price for
	32		mentioned in the spec. Kindly confirm whether	Hotstick on company letter head
			supply of hot stick is vendor scope?	along with the bid. It will not be
			If it is vendor scope then our proposal is to	evaluated in the price bid.
			supply 12 nos telescopic Hotstick for entire	
			rate contact for each utility with following spec: 12meter, 125KV AC insulation. kindly confirm.	
			Tzineter, Tziny Ao Insulation. Kindly commu.	
39	Page No 29, Point	FPI power up current: FPI should be powered up with Minimum 20A line current & battery power shall be used	FSI is armed & ready to detect fault from 0 A. The	Specification to be complied
	No 33	only after fault	Energy Harvesting which star from 60A only	
			reduces the dependency of batteries. 7.5 years of	
			life with 1000 hours of flashing.However, if Energy	
			Harvesting is active for over 30% of time(ie over 30% of time currents are above 60A), we would be	
			able to reach 10 years of life.	
40	page no.29,	FPI power up current: FPI should be power up with	We assume FPI shall be available & ready to	Specification to be complied
		Minimum 20A line current & battery	detect fault as per fault parameterization with 20A	
		power shall be used only after fault	as minimum line current. Please confirm the same.	
	clausno4, point			
41	no.33 page no.29,	Inbuilt modem shall support all technology i.e. 2G, 3G, 4G & 4G LTE, etc.	Device should working properly with GPRS	Specification to be complied
	Communication Unit		(2G)/GSM connectivity as uplink communication to	eposition to be compiled
	devise interface,		control center on IEC104 would not require very	
	point no.33		large bandwidth	

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- 10	specify Document No / Clause No / Page No			
42	Page No 30, Point No 38	Line Loading data: FPI should transmit real time line loading (phase wise), fault data to Purchaser's SCADA System through in built 4G/MPLS modem over IEC60870-104 protocol and MQTT.	FPI should transmit fault data spontaneously and line loading (phase wise min, max, avg and inst for the selected wireless reporting time), <b>based on</b> <b>site selectable wireless reporting time</b> <b>configuration</b> to Purchaser's SCADA System. IT is recommended to transfer data periodically from FPI to DCU to save inernal battery of the FPI.	Specification to be complied
43	Page No 30, Point No 43	DCU Self-diagnostic Alerts DCU Door open alarm, Battery charger failure, LT Supply failure, Battery low alarm. (Local and on SCADA System)	We are prposing 03 alarms as below: 1. DCU Door open alarm, 2. Battery charger failure & Battery low alarm. 3. LT Supply failure, . PI confirm.	specification to be complied
44	page no.30, Specification of FPI for Overhead lines, clausno4, point no.45, Innstallation Supervision	The bidder shall provide installation supervision	Please clarrify for how many units / days are required for installation supervision.We prefer to have one time supervision for 3 to 4 days along with utility team.	2 Days Training & Batchesh will be decide as per requirement.
45	page no.30, Specification of FPI for Overhead lines, clausno4, point no.46, Integration with SCADA	The scope shall include integration of field device with Purchaser's SCADA System.	Please clarrify for how many units support required for integration supervision. We prefer to provide 10 sets of FPI randamoly selected feeders by utility. Please clarify more in details.	The scope shall include integration of field device with Purchaser's SCADA System for all the units
46	Page No 31, Point No 5.1.2	FPIs shall constantly monitor, measure the line current and evaluate the same. In case current exceeds a pre- set value, a fault has to be indicated. Alternatively, there shall also be an "Automatic Mode", in which the FPIs will get adapted to the service current.	FPIs shall constantly monitor, measure the line current and evaluate the same. In case current exceeds a pre-set value, a fault has to be indicated. It is always recommended to have fixed setting based on fault setting of the patricular feeder as load current is always tends to vary over situation. Any time sthe setting can be updated from remote.	
	Page No 31, Point No 5.1.3	The FPI shall detect and indicate phase to phase faults. In addition to this, the FPI shall also detect and differentiate between transient, temporary and permanent faults.	Assuming Considering transient fault & tempraray fault both are same.	Ok Noted
48	Page No 32, Point No 5.4.2	The lithium battery provided inside the FPI shall be replaceable type, in case of battery failures. The battery shall have a minimum indicating life of 10 years / 1000 hours.	We request to consider 7.5 years of life with 1000 hours of flashing.However, if Energy Harvesting is active for over 30% of time(ie over 30% of time currents are above 60A), we would be able to reach 10 years of life.	Specification to be complied
49	Page No 32, Point No 5.6.1	The FPI shall be supplied along with suitable Remote Control Unit, <b>having a LCD display</b> , common for all the Overhead Fault Passage Indicator. The supplier <b>shall supply one number of Remote Control Unit free of</b> <b>charge along with every 9 numbers of FPIs.</b>	Offered equipment supports WEB GUI feature to take care of programming & necessary supervisiom & monitoring features. Also through wifi facility in our proposed modem, local configuration is possible through standard smart phone device. However, supply of any smart phone is not in our scope.	Specification to be complied

Sr No	Detailed Reference to TPSODL Technical Document, Please	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
	specify Document No / Clause No / Page No		-	
	Page No 32, Point No 5.6.3	The settings for the FPI shall be settable at site, without dismounting the FPI from the line. Following parameters shall be settable at time. o Trip Current o Response Time o Reset Time o Turn On / Off indication for Transient Faults o Turn On / Off auto-reclosure support function	Our propose to consider following The settings for the FPI shall be settable at site, without dismounting the FPI from the line. o Trip Threshold Current settings o di/dt settings o In rush restriant settijngs o Turn On / Off auto-reclosure support function o Turn On / Off indication for Transient Faults o Enable/Disable different reset options o Reset time for timer based reset. Also response time for offered product is fixed. Kindly accept the same.	Specification to be complied
	Page No 32, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	Minimum No of TCP/IP Eathernet Port - 2, (Among them one must be engineering port)	For our device, same port can be used for communicating to control center on IEC 104 as well as engineering of the system using web GUI. Separate engineering port is not required. Please consider the same.	Separate engg port required 1) Engg port for local configuration & setting changes 2) COM PORT for continious communication to FEP server /SCADA
	Page No 33, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	Master station communication protocol - Preferably support FTP protocol to transfer disturbance recorder to remote server. Simultaneously communication facility to field engineer for faster local restoration	Offered device will be connected to O/H Fault passage indicator & periodical data & fault data collected from O/H unit will be transferred to control center on IEC 104. For field enginner, there will be option to send fault details over SMS. Please confirm	Specification to be complied
	Page No 33, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	<b>DATA Reporting</b> - Device should support periodic data reporting configurable from 2 second to 1 hr interval and spontaneous data as well	Offered device supports periodic data reporting. Time period is configurable. In case of any fault, fault related data will be transferred immediately. Please confirm	ОК
	Page No 33, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	Cyber Security - User level authentication, Disabling the DNS, Disabling/enabling/configurable TCP/UDP port,	Proposed device supports IPSEC & TLS for upward communication to control center on IEC 104. For short range communication it have AES256 based encryption. Please confirm	Specification to be complied
	Page No 33, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	Preferred modem make ARG-600 (ABB-2G/3G/4G LTE)	Please consider other make as well which will comply to technical spec.	VIOLA -ABB
	Page No 34, Point No 5.7 - GSM/GPRS COMMUNICATION INTERFACE	Measurement Event: System Event 1000, Alarm Event 1000, Normal Event 5000.	roposed device supports total 100 nos of events as per point no 5.9.2, page no 34	Specification to be complied as per clause no - 5.7 of tender specification
	Page No 34, Point No 5.8	This kit shall be composed of a PT or solar panel and rechargeable battery. It shall be provided with a cable of minimum length 3m for connection to the GSM/GPRS communication interface installed on the same pole.	We recommend PT over solar panel as average availability of sunlight may impact overall back up hours for GSM/GPRS communication interface.	Specification to be complied
	Page No 34, Point No 5.10	Communication with the control centre: DCU/DTU interface shall be ready to receive a call from the Control Centre.	We assume here "Call" means data access request from control centre.	ok

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Sr. NO.	Document. Please	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
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	Page No			
	Page No 34, Point	Equipment configuration and diagnostic shall be performed by connection of a laptop PC to the GSM/GPRS	as per point no 5.7 at page no 32, ethernet port is	Specification to be complied
	No 5.11	interface using the PC RS232 interface.	required as engineering port (Configuration port).	
			Please confirm	
		6.0 NAME PLATE & MARKING	We assume here name plate details are required	The DCU / DTU & DCU/DTU
	No 6.0		for DCU / DTU & DCU/DTU Box	Box shall be provided with
				legible name plate on box with
				minimum following information:
				Manufacturer name & address,
				Model No.
				PO number & date
				'Property of TPSODL,
				BERHAMPUR
				along with all technical
				Parameters
	Page No 34, Point	Type Test	Type test clearification is enclosed in the separate	Type test shall be as per tender
	No 7.1	The distance of the distance o	ANNEXURE-A	specification.
62	Page 38: Point No	Training The bidder shall arrange to provide the installation and operating	Kindly confirm No of days & batches for Product	2 Days Training & Batchesh will
	14	training at TPSODL, BERHAMPUR offices as and when required for better installation and usage of the product.	training, Installation & Commissioning training.	be decide as per requirement.
63	General Query 1	Drawings & location:	We assume that preparation of SLD & finalization	Ok Noted
03	General Query 1		of strategic location for installation, arranging	OK NOIED
			shutdown is not in our scope.	
64	General Query 2		ISP / Communication link provider: arrangement of	Ok Notod
04	General Query 2		communication link & associated accessories	OK NOLED
			(Static SIM, Leased line etc.) from ISP at various	
			locations along with control center is not in our	
			scope	
65	General Query 3		Site Survey: Kindly get us some data on the total	Details shall be provided after
			area that encompasses DCU/DTU installation	award of contract
			locations. Also provide us the details (height and	
			type of construction) of poles in use.	
66	General Query 4		Scope of Work: We understand supply of earthing	Ok Noted
	-		equipment is not in bidders scope. Please confirm.	
67	New		The O/H device shall be made of UV stabilized	The test shall be conducted as
	Recommendations 1		material and tests shall be conducted for exposure	
			to UV as per ASTM G155.	Relevant standard
68	New		Visibility of the LED indication shall be 50 m day	Visibility of the LED indication
	Recommendations 2		and 300m night	shall be min 150 meter in the
				day and 1.5 KM in the night
69	New		Kindly consider local content in the offered device	All government guidelines shall
	Recommendations 3		as per revised public procurement (Preference to	be followed
70	NI		make in India) order dated 16th September 2020.	Neted
70	New		The short range radio communication between the	Noted
	Recommendations 4		FPI and DTU shall be secured with AES128	
74	Now		encryption	May plagage consider MOD
	New Recommondations F		In outdoor enclosure box, whether surge protection	iviay please consider MCB
	Recommendations 5		is required ?. Also for PT secondary incoming circuit inside the box whether Fuse or MCB need	
			to be consider. As DCU will be fitted inside.	
			to be consider. As DCO will be fitted inside.	
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	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document 36 months from the date of commissioning or 42 months from the date of last supply made under the contract	Remarks - Query / Clarification	TPSODL Response
12		whichever is earlier	commissioning or 42 months from the date of supply of material whichever is earlier	commissioning or 42 months from the date of last supply made under the contract whichever is later
		DCU along-with complete accessories require at field end (Panel, router / modem, earthing accessories, cabling etc.) in line with Technical specifications	As this tender is supply of FPI only, therefore installation accessories like GI frames/Clamps, Conductor/Wire for PT connection, Earthing Accessories shall be excluded from the scope of the rate contract as these items can not be appropriately evaluated & pre-manufacturered in factory in absence of correct details of location for installation and type, shape & size of the poles for installation etc which are not provided by TPSODL.	Installation of the FPI is not in the scope of bidder However Supervision of installation,testing, commissioning & Integration of complete eqipments is in scope of bidder
74	Page no. 15,Schedule for Items, ANNEXURE I	Sr.         Description         Oty         UoM         Ext. Work (In Rs.)         St. Tin Rs.) (In Rs.)         Amount (In Rs.) (In Rs.)         Amount (In Rs.) (In Rs.)           1         11KV O/H Communicable FPI         1000         EA	1. Our proposed unit is bulit in RTU (DCU) with mounting device type. No additional PT is required, so that utility can save the PT cost + Mounting bracket cost, Modem cost, batteries manitainence cost, cables cost. In this regard, please confirm to submit as option-2 in price bid. Please confirm is that acceptable for utility ? 2. we strongly recommended to add colons for price break up for PT, Transportation. So that over all actual unit price of FPI will be known for utility for cost consideration. Please confirm the same.	Specification to be complied
	Specification of FPI for Overhead lines, clausno4, point no.17	Fault indications: a. Bright Red flash light (LEDs) for permanent faults, b. Preferably Green LED for transient fault with different blinking rate c. Preferably Yellow LED for low battery indication Bidder to submit the offered equipment details of features for indication of above faults categories.	We provided flashing patern on alarm LED (RED): Permanent = 1 flash; Transient = 2 flashes; Battery = 3 flashes. Is this acceptable?	Specification to be complied
		FPI power up current: FPI should be power up with Minimum 20A line current & battery power shall be used only after fault	All power components are used at the same time. Is this acceptable?	Specification to be complied

77	for Overhead lines, clausno4, point no.34, Data Transmission /	Description as per Bid Document         This package shall include,       a) Data Collector or Communication unit b)         Battery bank,       c) Solar panel or resin cast PT for auxiliary supply,         d) 4G/MPLS Modem for SCADA communication and the proposed modem shall be industrial grade and for the use of out of outdoor application.         e) Communication cables and supply cables         f) Installation hardware with GI material for all equipment         (Bidder to mention the package details along with Make and model of equipment)	Remarks - Query / Clarification Our RTU is fully integrated into one of the conductor mounted indicators, which would have no need for a pole mounted device. There is no additional requirement of Auxilary transformer, Solar panel, DCU, Cables etc for point no.d- 3G/UMTS and 2G GPRS sufficent? Is this acceptable?	TPSODL Response Specification to be complied/ SMS Shall also be generated in case of fault
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.39,Data Transmission Rate	Compatible to send data over 4G/MPLS modem connected to the Ethernet port of the FPI DCU.	Would 3G/UMTS and 2G GPRS suffice? Is this acceptable?	Specification to be complied
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.40, Data Transmission Rate	Data Transmission rate over Ethernet should be 10/100Mbps	its not applicable in our case as our FPI is built in RTU type. Please confirm.	Specification to be complied
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.41,Multi Master Reporting	One DCU (if required)/FPI should report at-least 6 master with single CASDU	is this to 6 masters at the same time or in a back- off strategy if ons cannot be reached?	Same time
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.43,DCU Self- diagnostic Alerts	DCU Door open alarm, Battery charger failure, LT Supply failure, Battery low alarm. (Local and on SCADA System)	Our RTU is fully integrated into one of the conductor mounted indicators, which would have no need for a pole mounted device. I/O indication can be done to SCADA but our RTU is built in type in FPI it self. Device removal indication can be configured	Specification to be complied
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.44, Communication unit battery back up	Battery (Along with charger) backup of 4 hrs should be provided for FPI DCU/DTU.	Its not applicable in our case as our FPI is built in RTU type. Please confirm.	Specification to complied
	page no.30, Specification of FPI for Overhead lines, clausno4, point no.45, Innstallation Supervision	The bidder shall provide installation supervision	Please clarrify for how many units / days are required for installation supervision.We prefer to have one time supervision for 3 to 4 days along with utility team.	Ok Noted

	Detailed Reference to TPSODL			
Sr. No.	Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
84	page no.30, Specification of FPI for Overhead lines, clausno4, point no.46, Integration with SCADA	The scope shall include integration of field device with Purchaser's SCADA System.	Please clarrify for how many units support required for integration supervision.We prefer to provide 10 sets of FPI randamoly selected feeders by utility. Please clarify more in details.	Complete support for integration
85	page no.37, Specification of FPI for Overhead lines, clausno13, tender sample	Bidders to submit one sample of FPI at TPSODL, BERHAMPUR for verification of all desired features. For communicable FPI- Bidders to provide all required equipment and demo of one communicable FPI unit data communication and integration testing and only successful bidder shall be qualified for further processing.	We are working with Tata power other project as pilot project. Same can be considered for sample. Due to covid situation we could not able to submit the sample, we can demonstrate on webcall, . Please confirm the same.	Kindly submit the feedback report for review
86	page no.37, Specification of FPI for Overhead lines, clausno14, training	The bidder shall arrange to provide the installation and operating training at TPSODL, BERHAMPUR offices as and when required for better installation and usage of the product.	Please clarrify for how many units / days are required for training.We prefer to have one timetraining for 3 to 4 days at utility training centre. Mobilisation of team under scope of utility. OEM will conduct the training.	2 Days Training & Batchesh will be decide as per requirement.
87		1.7.5 Indian companies in joint venture relationship with global OEM or authorized Indian channel partner/sales representative of global OEM are also eligible to bid if the qualification requirements stated above are met independently or in combination with the OEM. Authorization letter / certificate from the OEM to be submitted along with bid. Note: In case the bidder has a previous association with TPSODL/Tata Power group companies for similar products and services, the performance feedback for that bidder from TPSODL/ Tata Power group companies User Group shall only be considered irrespective of performance certificates issued by any third organization	We have supplied the Fault Path Indicator to the Primary Utility in our country and globally, for the past 5 years. We have also partnered with a local company for the tender, our channel partner has offered services (EPC contracts execution) to number of utilities in India for many years. Please confirm our financial experience will be considered for our partner to bid as primary bidder? we understood that the same clause applicable for 1.7.1, 1.7.2, 1.7.3 & 1.7.4. we will provide the exclusive manufacturing authorisation to our partner in utility given partner. will it be	Please refer tender QR including point no 1.7.5 to check the eligibility for participation. No chanage in QR
88	Page no. 15,Schedule for Items, ANNEXURE I	NIT No. 119 SODUJOT /23-22/063       Schedule of Items       Sr.     Description     Qt     UoM     Kork (In Rs.) A     GST B     Unit Price (In Rs.) (In Rs.)     Amount (In Rs.) (A*B)       1     11kV OH Communicable FPI     1680     EA     Image: Communicable FPI     1mage: Communicable FPI       2     Data Control Unit for 11kV     360     EA     Image: Communicable FPI     540     EA       3     33kV OH Communicable FPI     540     EA     Image: Communicable FPI     540     EA       4     Data Control Unit for 33kV     180     EA     Image: Communicable FPI     Image: Communicable FPI	As a part of Tata group policy for encouraging the new vendors who maintains Qulity & global standards, we request to consider the price offer for 25% Qty or 50% Qty of the schedule items & accordingly to submit the propostional % value of EMD. We strongly request to consider waiver offer EMD with submitting the undertaking letter.	No Change
89	no.6, Payment terms	On completion of supply of complete material - 70% of invoice amount shall be paid within three months from the date of receipt of verified invoice (s) at designated BIRD counter. On completion of installation – 10% of invoice amount shall be paid within one month from the date of receipt of verified invoice (s) at BIRD counter. On completion of charging - 20% of invoice amount shall be paid within one month from the date of receipt of verified invoice (s) at BIRD counter.	As utility procuring under rate contract for 1 year, we will not be known for payment mile stones of installation, commissioing acitivies. We request to accept as below terms. A. 80% payment from the date of delivery of the materials with in 45 days. b. 20% after completion 7months from the date of delivery materials.	No Change

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Sr. No.	Document. Please	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
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	Page No			
90	Page no.8 Clause	FIRST PART: "EMD" of Rs. 9,00,000 /- (Rupees Nine Lakh only) shall be submitted.	We are MSME registered vendor, many of the	Please refer GCC document for
	3.1 Bid Submission		utilites are considering MSME for EMD	relaxation for MSME vendor
			exemption or reduction of EMD in order to	
			support the small vendors & making the strong	
			competition. We request to consider the waiver	
			off EMD submission with self undertaking	
			letter submission for MSEM registered bidders,	
			or to reduce min of 50% BG to submit.	
			or to reduce min of 50% BG to submit.	
91	Page no.5, Clause	(e) Last date and time of receipt of Bids 08.11.2021 up to 17:00 Hour	We strongly request to consider for extending	Please refer the corrigendum
51	No.1.3 Calendar of		the tender minimum of 20 days In view of	regarding the same.
	Events		banking holidays by next week due to Diwali	regarding the same.
	LVCING		0,,,	
			festival, for making the proper bidding.	
92	Clause No : 1.7.1 ,	The Bidder should have an average annual turnover of Rs. 5 Crores in any of last three Financial Years out of	Our is a Group Company of M/s Rajesh Power and	Please refer tender OR point po
52	Page No : 06	FY 17-18,FY18-19, FY 19-20 and FY 20 - 21.	System Integrator of M/s Schneider Electric.	1.7.5 to check the eligibility for
	r age no . co		Accordingly We will submit our Balance Sheet and	
			Audited P & L Account.	participation
93	Clause No : 1.7.2 ,	The Bidder should have executed similar items either 100 % of the total tender value during last three years ;	As You are Aware Government DISCOMS are	
00	Page No : 06	or Single order of 50 % of the total tender value during last three years;or 2 orders of 30 % each of the total	biggest Users of Fault Passage	
	. ago no roo	tender value during last 3 years.Copy of work order /completion certificate to be submitted in this regard.	Indicator.However,because of Covid - 19	
			Pandemic, There were no big Tenders since Last	
			Two Years.We had executed The Order of Approx	No Change
			around 21 Crores from Gujarat Utilities from 2014	No Change
			to 2018.We request You to consider above and	
			allow us to Participate in the Bid.	
94		On Completion of Supply of Complete Material - 70 % of Invoice Amount shall be paid within One Month from	90 % Payment with 100 % Taxes through 45 days	
94	No : 18, Clause No	The date of receipt of The verified invoice (s) at TPSODL.	irrevocable LC negotiable against Original Proof of	
	;6 - Payment Terms	Completion of installation - 10 % of invoice amount shall be paid within one Month from the date of receipt of	dispatch, i.e. invoice, delivery Challan etc. Balance	
	,0 - I ayment Terms	verified invoice (s) at TPSODL. On completion of charging	10 % against installation or within 60 days from	No Change
		- 20 % of invoice amount shall be paid within one month from the date of receipt of verified invoice (s) at	Date of Dispatch whichever is earlier. LC to be	-
		TPSODL.	established Prior to dispatch.	
95	Clause No : 27 -	Insurance	Storage and Storage Insurance is not in Our	
90	Insurance, Page No		Scope. Only Transit Insurance will be to Our	The insurance as mentioned in
	: 28		Account.	GCC shall be applicable
96	. 20		Since the scope is for Supply only. We request you	
30		On completion of supply of complete material - 70% of invoice amount shall be paid within one month from	to make the payment terms as below :	
		the date of receipt of verified invoice (s) at TPSODL.	1) 80 % payment within 45 days on receipt of the	
	Payment Terms,	On completion of installation – 10% of invoice amount shall be paid within one month from the date of receipt	materials 2) Balance 20% shall be relerased	
	Clause no 6 page no-	of verified invoice (s) at TPSODL.		No Change
1	18		within 45 days on commissioning of the materials.	
		On completion of charging - 20% of invoice amount shall be paid within one month from the date of receipt of	If the commissioning is delayed beyong 60 days,	
		verified invoice (s) at TPSODL.	the same amount shall be released against submission of equivalent amount of BG	
97	Validity of the Pote	Rate Contract Validity mentioned is conflicting. Pg 16 mentions 2 years and pg. 16 mentions 1 year.		
97	Validity of the Rate Contract, Page 16,	Rate Contract varially mentioned is conflicting. Py to mentions 2 years and pg. To mentions 1 year.	We understand that validity of the Rate Contract will be for one year for this bid.	
1	Footnote of		win be for one year for this blu.	Rate Contract will be valid 2
1	Schedule of Items			Years.
	and Page 17 Cl. 1			

	Detailed Reference			
	to TPSODL			
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	specify Document			
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	Page No			
98	Pg. 18 Delivery		Drawing submission for first order shall be in 16	Revised Clause as under
	Schedule	later for 1st order/lot and for balance orders/lot material shall be delivered within 60 days from issue of release	weeks from drawing approval and subsequently 16	The material shall be delivered
			weeks from RO for further order. Drawing	within 90 days from issue of
		rate contracts.	submission in 4 weeks from receiving clear design	approved drawings or issue of
			inputs.	RO whichever is later for 1st
				order/lot and for balance
				orders/lot material shall be
				delivered within 80 days from
				issue of release order. The
				complete drawings as per
				technical specification shall be
				submitted within 7 days from
				receipt of rate contracts.