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Technical Specification for SITC of Remote operated motorized AB switch (400 A & 200 A) along with accessories in 11KV network

Doc no.: TPWODL/ENGG/SPEC/SITC/007/2026

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A1. INTRODUCTION:

TP Western Odisha Distribution Limited (TPWODL) is a joint venture between Tata Power and Government of Odisha. TPWODL serves a population of 88 lacs with a Customer Base of more than 21 lacs. It has a vast Distribution Area in western part of Odisha covering 48,373 sq. km across nine revenue districts of Odisha such as Bargarh, Bolangir, Deogarh, Jharsuguda, Kalahandi, Nuapada, Sambalpur, Sonepur and Sundergarh. It procures power from GRIDCO at 33kV at various supply points and maintains extensive 33kV, 11kV and LT overhead networks for distribution of electric supply over its entire area of operation for providing reliable power supply, along with prompt service to its consumers.

A2. INTENT OF SPECIFICATION:

TPWODL proposes to deploy 11kV motorized AB switches in the distribution network to enable remote operation, improved network automation, and enhanced reliability of power supply.

The specification covers the requirements for design, engineering, supply, installation, testing, and commissioning of motorized AB switches along with associated control and operating mechanisms. These switches shall be installed at suitable locations to facilitate quick isolation of faulty sections and faster restoration of supply through remote/manual operation.

The system is intended to reduce manual intervention, improve operational efficiency, and ensure safe, reliable, and efficient performance under prevailing site conditions in compliance with applicable standards and utility practices.

A3. SCOPE OF WORK:

The scope of work covers design, manufacturing, testing at manufacturer's works, inspection, packing, delivery, installation & commissioning of Remote operated 11 kV motorized AB switch (400 & 200 A) having 3 poles, single center break type gang operated, outdoor, horizontal mounting (Insulators Vertical) type complete with motorized as well as manual operating mechanism and as per relevant IS and IEC standards. Aforesaid item(s) shall include loading and unloading at anywhere in TPWODL service area.

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The motorized AB Switches offered shall have the capability of being integrated with TPWODL SCADA system using intelligent electronic devices (IED)/Controller. The equipment shall be self-powered through a voltage transformer, no external power source shall be required.

It is not intended to specify completely herein all the details of the design and construction of remote operated motorized Air Break Switches. However, AB Switches will confirm in all respects to high standards of engineering design and workmanship and shall be capable of performing in continuous commercial operation up to the guarantee period, in accordance with the specifications/drawings.

The remote operated motorized AB Switches offered shall be complete with all components necessary for their effective and trouble-free operation along with associated equipment etc. such components shall be deemed to be within the scope of supplier's supply, irrespective of whether those are specifically brought out in the specification and/or in order or not. Also, similar parts, particularly removable ones shall be inter-changeable.

The major scopes of motorized AB switch are as follows:

- a) SITC of 11kV motorized AB switches with operating mechanism suitable for remote as well as manual operation.
- b) SITC of Fault Passage Indicators (FPI) for fault detection with all accessories including Auxiliary PT for auxiliary control supply, Lightning Arresters (LA) for surge protection of equipment & control panel for motorized AB switch, FPI remote operation and integration with SCADA system along with battery and battery charger system for reliable DC power supply to control and operating mechanisms.
- c) SITC of complete earthing system including equipment earthing & structure earthing as per applicable standards.
- d) SITC of all mounting structures, clamps, connectors, hardware fittings and accessories required for installation of AB switch and associated equipment ensuring required clearances as per guidelines.
- e) Conducting all pre-commissioning and commissioning tests as mentioned in the technical specification and quality requirement.

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- 3.1 Adhering to all Quality norms as per the specifications.
- 3.2. Adhering to all Safety norms as per the specifications and TPWODL safety process.
- 3.3. Obtaining approval from Electrical Inspector and statutory bodies for the above scope of work if applicable.
- 3.4. Submission of final as built documents in soft and hard form to the owner.
- 3.5. Any other works for successful commissioning of the project is under the scope of Bidder.
- 3.6. All clearance / approvals / permissions from Govt authorities / related parties (including forest dept, local bodies, mining companies, Aviation etc.) and liasoning work is in the scope of the bidder. Resolution of ROW issues is in scope of the bidder in coordination with TPWODL Authorities if applicable.
- 3.7 Any enabling works, temporary structures such as site office, canteen, labour shed, cement / material shed, fencing, security, access/approach road, removal of all temporary arrangements including access road, etc., wherever applicable shall be under the scope of Bidder. No extra payment shall be made under this work to the Bidder.
- 3.8. Storage & security of entire Project materials is in bidder's scope
- 3.9. Bidder to comply with CEA regulations and technical specifications for design, engineering and execution of complete work.
- 3.10. Any other work for successful commissioning of the project is under the scope of Bidder.

3.18. SPECIAL NOTES TO BIDDERS:

- a) The above is only a brief scope of work which helps the bidder to understand the nature of works involved in this project. The bidder is advised to thoroughly refer to the above scope of work along with detailed technical specifications and tender purpose drawings before submitting the bid documents to the OWNER. In addition to this, BIDDER shall assume whatever is necessary for successful completion and commissioning of the project. Such assumptions must be clearly mentioned in the bid.
- b) Bidders are requested to carefully examine and understand the specifications and seek clarifications, if required, to ensure a clear understanding of the specification and requirement.

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- c) Bidders to confirm any Technical Deviations in the Technical deviation sheet only. Any deviations mentioned anywhere else in the bid submission will not be considered. Bidder shall also confirm on his letter head if he has not opted for any technical deviation. Bidder to note that after confirmation of no technical deviation, the bidder shall meet the requirements as per the bid documents during detailed engineering.
- d) All deviations from the specification including Quality requirements and Standard Quality Plan shall be clearly brought out in the respective schedule of deviations. Any discrepancy between the specification and the catalogues or the bid, if not clearly brought out in the specific requisite schedule, will not be considered as valid deviation.
- e) Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipment and/or needed for erection, completion and safe operation of the equipment as required by applicable codes though they may not have been specifically detailed in the Technical Specifications unless included in the list of exclusions. Materials and components not specifically stated in the specification, but which are necessary for commissioning and satisfactory operation of the switchyard/substation unless specifically excluded shall be deemed to be included in the scope of the specification and shall be supplied without any extra cost. All similar standard components/parts of similar standard equipment provided shall be inter-changeable with one another.

3.19. GENERAL REQUIREMENT:

- a) The Bidder shall submit the technical requirements, data and information as per the technical data sheets provided in bid documents.
- b) The Bidder shall furnish catalogues, engineering data, technical information, design documents, drawings etc., fully in conformity with the technical specification.
- c) It is recognized that the Bidder may have standardized on the use of certain components, materials, processes or procedures different from those specified herein. Alternate proposals offering similar equipment based on the

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manufacturer's standard practice will also be considered provided such proposals meet the specified designs, Standard Qualifying performance requirements and are acceptable to the Owner's. Unless brought out clearly, the Bidder shall be deemed to conform to this specification scrupulously.

- d) All deviations from the specification including Quality requirements and Standard Quality Plan shall be clearly brought out in the respective schedule of deviations. Any discrepancy between the specification and the catalogues or the bid, if not clearly brought out in the specific requisite schedule, will not be considered as valid deviation.
- e) Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipment and/or needed for erection, completion and safe operation of the equipment as required by applicable codes though they may not have been specifically detailed in the Technical Specifications unless included in the list of exclusions. Materials and components not specifically stated in the specification, but which are necessary for commissioning and satisfactory operation of the equipment unless specifically excluded shall be deemed to be included in the scope of the specification and shall be supplied without any extra cost. All similar standard components/parts of similar standard equipment provided, shall be interchangeable with one another.

3.20. SERVICES TO BE PERFORMED BY THE EQUIPMENT BEING FURNISHED:

- a) All equipment's shall also perform satisfactorily under various other electrical, electromechanical and meteorological conditions of the site of installation.
- b) All equipment shall be able to withstand all external and internal mechanical, thermal and electromechanical forces due to various factors like wind load, temperature variation, ice & snow, (wherever applicable) short circuit etc. for the equipment.
- c) The Bidder shall design terminal connectors of the equipment considering various forces that are required to withstand.
- d) To facilitate erection of equipment, all items to be assembled at site shall be

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“match marked”.

3.21. ENGINEERING DATA AND DRAWINGS:

- a) The engineering data shall be furnished by the Contractor in accordance with the Schedule for each set of equipment as specified in the Technical Specifications.
- b) Master Document List (MDL) & Project Execution Plan details shall be prepared by contractor and submitted for Owner approval.
- c) The pdf version of above drawings / documents shall be submitted during formal approval process. Editable copy of submitted drawings / documents (including Auto Cad format) shall be furnished as requested during drawing approval stage.
- d) It is responsibility of the Bidder to handover all project related drawings (final) in PDF version and Auto Cad formats.
- e) The Bidder shall submit 6 (six) sets of CAT – A/ as built approved drawings / design documents / data / test reports to the Owner.
- f) All drawings submitted by the Bidder including those submitted at the time of bid shall be with sufficient detail to indicate the type, size, arrangement, material description, Bill of Materials, weight of each component, break-up for packing and shipment, dimensions, internal & the external connections, fixing arrangement required and any other information specifically requested in the specifications.
- g) Each drawing submitted by the Bidder shall be clearly marked with the name of the Owner, the unit designation, the specifications title, the specification number and the name of the Project. If standard catalogue pages are submitted, the applicable items shall be indicated therein. All titles, noting, markings and writings on the drawing shall be in English. All the dimensions should be in metric units.
- h) Further work by the Bidder shall be in strict accordance with these drawings and no deviation shall be permitted without the written approval of the Owner, if so required.
- i) The review of these data by the Owner will cover only general conformance of the data to the specifications. This review by the Owner may not indicate a thorough review of all dimensions, quantities and details of the equipment,

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materials, any devices or items indicated, or the accuracy of the information submitted. This review and/or approval by the Owner shall not be considered by the Contractor, as limiting any of his responsibilities and liabilities for mistakes and deviations from the requirements, specified under these specifications and documents.

- j) All manufacturing and fabrication work relating to the equipment prior to the approval of the drawings shall be at the Bidders risk. The Bidder may make any changes in the design, which are necessary to make the equipment conform to the provisions and intent of the Contract and such changes will again be subject to approval by the Owner. Approval of Bidders drawing or work by the Owner shall not relieve the Bidder of any of his responsibilities and liabilities under the Contract.
- k) All engineering data submitted by the Bidder after the final process including review and approval by the Owner shall form part of the Contract Document and the entire works performed under these specifications shall be performed in strict conformity, unless otherwise expressly requested by the Owner in Writing.
- l) Such drawings/documents developed by the Contractor shall necessarily have sufficient detail to indicate the type, size, arrangement, dimensions, material description, Bill of Materials, weight of each component break-up for packing and shipment, fixing arrangement required, the dimensions required for installation and any other information specifically requested in the specifications.
- m) The following is the general list of the documents and drawings that are to be approved by the Owner based on the project requirements.
 - (i) Work Schedule (Master Network) Plan
 - (ii) GTP & GA drawings of equipment's as indicated in technical specification.
 - (iii) Earthing drawing/arrangement
 - (iv) SOP if applicable
 - (v) Line material drawings.
 - (vi) Type test report for the items.

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3.22. MATERIAL / WORKMANSHIP:

- a) Where the specification does not contain references to workmanship, equipment, materials and components of the covered equipment, it is essential that the same must be new, of highest grade of the best quality of their kind, conforming to best engineering practice and suitable for the purpose for which they are intended.
- b) In case where the equipment, materials or components are indicated in the specification as “similar” to any special standard, the Owner shall decide upon the question of similarity. When required by the specification or when required by the Owner the Bidder shall submit, for approval, all the information concerning the materials or components to be used in manufacture. Machinery, equipment, materials and components supplied, installed or used without such approval shall run the risk of subsequent rejection, it being understood that the cost as well as the time delay associated with the rejection shall be borne by the Contractor.
- c) The design of the Works should be such that installation, future expansions, replacements and general maintenance may be undertaken with a minimum of time and expenses. Each component shall be designed to be consistent with its duty and suitable factors of safety, subject to mutual agreements. All joints and fastenings shall be devised, constructed and documented so that the component parts shall be accurately positioned and restrained to fulfil their required function. In general, screw threads shall be standard metric threads. The use of other thread forms will only be permitted when prior approval has been obtained from the Owner.
- d) Whenever possible, all similar parts of the Works shall be made to gauge and shall also be made interchangeable with similar parts. All spare parts shall also be interchangeable and shall be made of the same materials and workmanship as the corresponding parts of the Equipment supplied under the Specification. Where feasible, common component units shall be employed in different pieces of equipment to minimize spare parts stocking requirements. All equipment of the same type and rating shall be physically and electrically interchangeable.
- e) All materials and equipment shall be installed in strict accordance with the manufacturer’s recommendation(s). Only first-class work in accordance with the

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best modern practices will be accepted. All factory assembled rotating machinery shall be checked for alignment and adjustments made as necessary to re-establish the manufacturer's limits suitable guards shall be provided for the protection of personnel on all exposed rotating and / or moving machine parts and shall be designed for easy installation and removal for maintenance purposes. The spare equipment(s) shall be installed at designated locations and tested for healthiness.

- f) All oil, grease and other consumables used in the Works/ Equipment shall be purchased in India unless the Bidder has any special requirement for the specific application of a type of oil or grease not available in India. In such is the case he shall declare in the proposal where such oil or grease is available. He shall help Owner in establishing equivalent Indian make and Indian Contractor. The same shall be applicable to other consumables too.

3.23. PROJECT SCHEDULE:

The complete scope should be completed within **Twelve (12) months** from the date of LOI/ PO. The bidder shall submit with the bid, a detailed Project Schedule covering Major milestone and activities.

A4. CLIMATIC CONDITIONS OF THE INSTALLATION:

4.1 Wind effects:

Tower shall be designed for reliability Level-I (50 Years, $K1 = 1.0$), Terrain category-I ($K2 = 1.0$) & Wind Zone-IV (47 m/s) Design wind pressure on towers, conductors, earth wire and insulator string in the range of 30.45 mt. And above 45 mt. Height shall be computed as per IS-802(Part/Sec-I) 1995 Bidder shall furnish the maximum wind pressure adopted in their design against each component mentioned above.

4.2 Design Temperatures:

The following temperature range for the power conductor and ground wires shall be adopted for the line design:

1	Minimum temperature:	0 deg. C
2	Everyday temperature of conductor	32 deg. C

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3	Maximum temperature of Conductor	85 deg. C
4	Maximum Earth wire Temperature	53 deg. C
5	Temperature for creep calculation	32 deg. C (for Conductor)

The above values are subject to the latest revision if any made in IS-802 (part-I/Sec-I) 1995.

4.3 Electrical Clearance:

- (i) All statutory electrical clearance of transmission lines w.r.t. ground, building, Structures, Power line crossings, Railway & Road crossings etc. as stipulated under CEA's Regulations, 2010 (Measures relating to Safety and Electric Supply)
- (ii) Ground clearance shall be as per clause 58.0 Part-III, Sec-4 of CEA's Regulations, 2010 (Measures relating to Safety and Electric Supply)
- (iii) Further Electrical clearances (Horizontal as well as vertical clearances) from building/structures shall be as per clause 61.0, Part-III, Sec-4 CEA's Regulations, 2010 (Measures relating to Safety and Electric Supply).
- (iv) The ground profile at the time of commissioning shall be checked with the profile approved at the time of check survey.
- (v) Ground clearance of lowest conductors at critical points shall be checked in the field from any of the prevalent method and the values of ground clearance at these critical points including all power line, railway line and road crossings shall be recorded. In case of hilly Terrain and for building clearance, the side clearance from conductors and jumpers at critical points shall also be checked and recorded for all phases of conductor/ earth wire towards hill building side.
- (vi) Clearance between line crossings each other, the minimum clearances between the Power line crossing each other shall be as per 69.0, Part-III, Sec-4, of CEA's Regulations 2010 (Measures relating to Safety and Electric Supply).

4.4 33 kV Minimum Electrical Clearance : (As applicable)

(i) Crossing Power Line:

Generally, in case of power line crossings, clearance between the lowest conductor of the 33 kV line and the top line of the other higher than 33kV power line shall be 3050 mm. In case of power line crossing clearance between the lowest/highest conductor/Earth wire of the other power line of 33kV and below voltage level line shall be 2440mm.

(ii) Clearance from Ground, buildings, Trees etc.:

- Ground Clearance: from lower conductor to ground (5500mm) + Sag Error

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(150mm) = 5650mm

- Power line crossing for 33kV with 33kV at least (2440mm).
- Power line crossing for 33kV with 132kV at least (3050mm).
- Above the river (Clearance above highest flood level) at least 6500 mm in case non navigable river.

(iii) For crossing of railways, national highways and state highways, the rules/Regulations of CEA shall be followed.

A5. APPLICABLE STANDARDS:

5.1 Except as modified in this specification, the material and work covered under this specification shall conform to the latest revision with amendments thereof of the following of Indian Standards and equivalent International Standards whenever indicated below.

Sl. No.	Indian standards	Title
1	IS 9920 (part-I to V)	Specification for helically formed fittings for Overhead lines up to 33 kV
2	IS 2633 (Part 1)	Method for testing uniformity of coating on zinc coated
3	IEC 62231	Composite station post insulators for substations with a.c. voltages greater than 1000 V up to 245 kV – Definitions, test methods and acceptance criteria
4	IEC60168:1994+AMD1:1997+AMD2:2000 CSV	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V
5	IS 9530	Recommended practice for silver plating
6	IS 5925	Recommended practice for silver plating for general engineering purposes
7	BS 2816	Testing of silver-plating thickness
8	IS 1239	GI pipe (B' class or Medium class)
9	IS: 5561	Electrical Power Connectors
10	IS 2062	Hot rolled medium and high tensile structural

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Sl. No.	Indian standards	Title
		steel — specification
11	IEC 60529	Degree of Protection.
12	IEC 62262	Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code)
13	IS 3156 (Part-I):	Voltage Transformer

5.2. The works covered by the specification shall be designed, engineered, manufactured, built, tested and commissioned in accordance with the Acts, Rules, Laws and Regulations of India.

5.3. The equipment to be furnished under this specification shall conform to latest issue with all amendments (as on the date of bid opening) of standard specified in technical specification, unless specifically mentioned in the specification.

5.4. The Bidder should note that standards mentioned in the specification are not mutually exclusive or complete in themselves but intended to complement each other.

5.5. The Bidder should also note that list of standards presented in this specification is not complete. Whenever necessary the list of standards shall be considered in conjunction with specific IS, IEC.

5.6. When the specific requirements stipulated in the specifications exceed or differ than those required by the applicable standards, the stipulation of the specification shall take precedence.

5.7. Other internationally accepted standards which ensure equivalent or better performance than that specified in the standards specified in individual sections for various equipment's may be accepted, however the salient points of difference shall be clearly brought out in additional information schedule, along with English language version of such standard. The equipment conforming to standards other than specified in the individual sections for various equipment's shall be subject to Owner's approval.

5.8. The Bidder shall clearly indicate in his bid the specific standards in accordance with which the works will be carried out.

A.6. GENERAL PARAMETERS:

6.1. Electrical System Data:

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S.N.	Parameter	Value
1	System voltage (kV rms)	11
2	Max. voltage (kV rms)	12
3	Lightning impulse withstands voltage (dry & wet) (kVp)	95
4	One min. Power frequency withstands voltage (dry & wet) (KV rms)	35
5	Short circuit level (KA for 1 sec.)	25
6	Design temperature for electrical equipment/ devices (Deg C)	50

6.2. Service Condition:

Equipment/ Materials to be supplied against these specifications shall be suitable for satisfactory continuous operation under topical conditions as specified below:

S.N.	Parameter	Value
1	Max Ambient Temperature (Deg C)	50
2	Min Ambient Temperature (Deg C)	0
3	Relative Humidity (Percentage range)	10-100
4	Wind Zone (as per NBC)	Wind Zone-IV
5	Max altitude above Mean Sea Level (mtr)	Below 1000mtr

6.3. General technical requirement

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE	
1	Rating of AB Switch	400 Amps AB Switch	200 Amps AB Switch
1.a	Reference standards (latest amend.)	IS 9920, IEC 129, IEC 62231, IS 1239	
2	Installation	Outdoor	Outdoor
3	Suitable for Mounting	Horizontal Rotating Type	
4	Type	3 Pole	3 Pole
5	Service Voltage	11 kV	11 kV
6	Rated Voltage	12 kV	12 kV
7	Rated Frequency	50 Hz	50 Hz
8	Continuous current rating at design ambient temp of 50 Deg C	400 Amps	200 Amps

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9	Rated short time current	16 kA for 1sec	16 kA for 1sec
10	Rated peak withstand current	40 kA	40 kA
11	Rated main active load breaking capacity	10 Amp	10 Amp
12	Rated line charging breaking capacity	2.5A	2.5A
12.a	Rated Cable charging breaking capacity	10A	10A
13	Rated Transformer off load breaking Capacity	6.3A	6.3A
14	One minute power frequency with stand voltage Dry	35kV RMS	35kV RMS
15	One minute power frequency withstand voltage Wet	35kV RMS	35kV RMS
16	Dry flashover Voltage	55kV	55kV
17	Power Frequency puncture withstand voltage	1.3 times of actual dry flashover Voltage	
18	Visible Discharge Voltage	9kV RMS	
19	1 Minute Power Frequency withstand voltage between pole and earth	28kV RMS	28kV RMS
20	1 Minute Power frequency withstand voltage across the isolation distance	32kV RMS	32kV RMS
21	Impulse with stand voltage for positive and negative polarity (1.2 / 50) micro second wave)		
a	Across Isolating distance	85kV Peak	85kV Peak
b	To earth and between poles	75kV Peak	75kV Peak
22	No. of Post Per Pole (Polymeric, IEC 62231)	2	2
23	Total No. of post for 3 phases	6	6
24	Minimum Creepage Distance	31 mm/kV	31 mm/kV
25	System Neutral Earthing	Effectively Earthed	Effectively Earthed
27	Operating mechanism	Motorized and Manual	Motorized and Manual
28	Operating Time	<=12 sec	<=12 sec
29.a	FRP Dia. of the Post Insulator (min.)	24mm	24mm
29.b	Dai of Weather sheds	>100mm	>100mm
29.c	Thickness of Housing (min)	3mm	3mm
29.d	Type of Sheds	Aerodynamic	Aerodynamic
30	Phase to Phase Clearance	760mm	760mm
31	Isolation Distance in switch open condition	380mm	380 mm
32	Vertical clearance from Top of Insulator cap to mounting channel	254mm (min)	254mm (min)
33	Copper contacts Temp in Air should not exceed	65Degree	65 Degree

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34	Size of fixed contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	80mmx50mmx8mm (50x8x2 Fingers)	70mmx35mmx6mm (35x6x2 Finger)
35	Size of Moving contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	220mmx50mmx8mm	220mmx35mmx6mm
36	Moving Contact supporting Angle	50mmx50mmx5mm	45mmx45mmx5mm
37	Size of rods used for arcing horns	10 mm	8 mm
38	Insulation for tinned Copper braid/rope	Polyolefin, (RSFR-H) type	Polyolefin, (RSFR-H) type
39	Copper Flexible BRAIDED Tape - 320mm Long, Tined plated with Brass Nut, bolt & Washers	450gm /Mtr	450gm /Mtr
40	Minimum size*Length of Coupling Hot Dip GI Solid Pipe for Phase coupling pipe, B Class (Nominal Bore)	25mm Dia &1800 mm long	25mm Dia &1800mm long
41	Operating Down Pipe, B class (IS 1239) (Nominal bore)	32mm Dia & 7Mtr Long (one piece)	32mm Dia & 7Mtr Long (one piece)
42	Temperature Rise Limit (w.r.t ambient temp) - Tinned Copper contacts - Terminals - Metal Parts	65°C 65°C 40°C	65°C 65°C 40°C
43	Bearings	4 nos. self-lubricating bearing to be provided with grease nipple including 4 th bearing being a thrust bearing.	
44	Locking arrangement	Provision for pad locking at both 'ON' & 'OFF' Position	
45	Earth Terminal	M12 Bolts with nuts and flat washer shall be provided at base channel as earthing Terminal.	
46	'T' Connection	The T connection provided on the channel having 'moving contact' shall be G.I Nut & bolt at the bottom end to facilitate replacement of this unit only during requirements & avoid entire change of arm.	
47	'I' bolt	The I bolt shall be longer with 75 mm thread.	
48	Mounting Channel HDG 100 microns	75x40x4.8 mm hot dip galvanized channel length 480 mm min. (C/C slotted hole 18x 36 mm- 250mm)	
49	Connectors	Connectors shall be of hard drawn electrolytic copper or brass. The connector should be of 4 bolted type and suitable for 55- 148 sqmm AAC conductor. Or SOCKET: Two no. of bimetallic copper sockets	

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		shall be used at both ends suitable for 55-148 sqmm AAC conductor.
50	Marking/Engraving (Parameters should be embossed on SS sheet of thickness 1mm with black background. It should be riveted on MS channel of AB switch)	1. Rated Voltage 2. Manufacturer Name 3. Month/Year of Manufacture 4. Serial No. 5. PO No. 6. Rated Normal Current in Amps 7. Rated One Second Short-Time Current
51	Pressure Spring	Stainless steel

6.4. GENERAL CONSTRUCTIONS

1. The Air break switch shall be outdoor type, rotating type gang operated and shall be suitable for horizontal installation having 2 no. of polymeric post insulators per phase.
2. The Rotating type operating mechanism shall be suitable for manual operation from ground level and shall be designed in such way that all the three phases shall open and close simultaneously in smooth way.
3. The air break switch shall be with the arcing horns, the sizes of the rods used for the arcing horns would be 10mm for 400 A and 8mm for 200 A AB switch of M.S. Hot dip galvanized.
4. The current carrying connectors should be two-bolt type having nuts and bolts, with spring washer and plane washer.
5. Each joint shall be provided with one plane and one spring of not less than 2mm thickness.
6. Connectors shall be of H D electrolytic copper.
7. The minimum cross section for fixed contact shall be 400 sq.mm for 400 Amp AB Switch and 200 sq.mm for 200 Amp AB Switch.
8. Tinned Copper braid/rope shall be insulated by Polyolefin (RSFR-H) type to prevent animal electrocution. It shall be 320 mm long minimum and shall weigh 450 G/M. It shall be punched at both ends.
9. All ferrous parts shall be hot dip galvanized with heavy coating after proper surface treatment as per standards. Coating thickness shall not be less than 100 micron at any point.
10. All Copper parts shall be silver plated as per relevant standards and coating

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thickness not less than 10 microns at any point.

11. Equipment grounding shall be provided by bidder at two points with terminals.
12. All the nut bolt used must be Hot dip Galvanized and of size not less than M10.
13. A rigid base of galvanized steel channel of size approx. 75x40x4.8 mm Length 480 mm min. (C/C slotted hole 18x 36 mm- 250mm shall be provided with clamps and bolts for Horizontal mounting firmly on steel structure.
14. Each member of the switch shall be free from Rust, sharp edges, burr and any kind of deformation.
15. The phase coupling rod, operation rod with intermediate guide braided with flexible electrolytic copper, tail piece of required current carrying capacity and operation mechanism with 'ON' & 'OFF' positions shall be provided.
16. The operation rod shall be medium gage of 32mm diameter nominal bore G.I. pipe single length 7 meters. The phase coupling rod for gang operation shall be of medium gauge 25mm dia. & 1800 mm length nominal bore G.I. pipe.
17. Non-threaded type spindle shall be provided for connection with down pipe.
18. Provision for operating handle earth with flexible copper wire shall be provided.

19. Housing/Enclosure of Control cabinet:

Material: Stainless steel

Degree of protection: IP 55

Housing/Enclosure Sloping rain hood shall be provided to cover all sides.

Thickness of sheet: min. 3 mm.

The cabinet shall be suitable for mounting on support structure.

Earthing terminals:

2 Nos. M12 size

Gland plates:

Control cabinet shall be provided with removable gland plate at the bottom of the box with double compression type brass cable glands shall be provided with each operating mechanism for connection of cables.

Hinges:

Hinges on the door of the box shall be concealed. Hinged door shall be provided with padlocking arrangement.

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Technical particulars	400 Amps AB Switch	200 Amps AB Switch
Switching Blades	It shall be made out of electrolytic copper with silver plated. The approximate size shall be 220mm x50 x 8mm for 11 KV. The switch shall have such a spring mechanism so as to ensure that the speed of the opening of contact is independent of speed of manual operation.	It shall be made out of electrolytic copper with silver plated. The approximate size shall be 220mmX35X 6mm. The Switch shall have such a spring mechanism so as to ensure that the speed of the opening of contact is independent of speed of manual operation.
Fixed Contacts	The fixed jaw type female contacts (80x50x8)mm for 11 KV shall be made of electrolytic copper (minimum 95 % copper composition) duly electroplated controlled by phosphorus bronze/Stainless Steel high pressure spring housed in robust G.I. Cover. It is essential that provision shall be made in fixed female contacts to take the shock arising from the closing of moving contact blade without the same being transmitted to the post insulator.	The Fixed Jaw type female contacts of size (70x35x6) mm shall be made of electrolytic copper (minimum 95% copper composition) duly silver coated controlled by phosphorous bronze/Stainless-steel high-pressure spring housed in robust G.I. Cover. It is essential that provision shall be made in fixed female contracts to take the shock arising from the closing of move contract blade without the same being transmitted to the post insulator.
Terminal pads	Terminal connectors for both movable and fixed should be of copper flats of same size similar to that of moving contact blades (minimum 95% copper composition). The fixed connector shall of size 80 mm x 50 x 8 mm and the size of movable connector shall be size 80 x 50 x 8 mm with machine finishing duly silver plated with 2 nos. of 12mm dia. brass bolts, double nuts, plain washers & spring washers should be provided along with 2 nos. solder less bimetallic sockets for each connector suitable sockets for each connector suitable up to 55- 100 mm ² AAA conductor.	Terminal connectors shall be robust in design. The size of fixed connector shall be (70 X 35 X 6 mm) and size of movable connector shall be of (70 X 35) X (70 X 35) X 6mm of copper casting with uniform machine finishing duly silver plated made out of minimum 95% copper composition with 2 nos. of 12mm dia. holes provided with suitable brass bolts and double nuts, flat washers, spring washers & 2nos.bimetallic solder less sockets suitable up to 55-100 mm ² AAA conductor.

1. Adding SCADA compatibility: The AB switch should be capable of being integrated with SCADA functions using an IED (Intelligent Electronic Devices). The load break switch should be capable of reporting switch ON/OFF status and should be capable of being operated (OPEN/CLOSE) by GPRS/3G/4G function within built modem.
2. Communication protocol shall be IEC 60870-5-104. MODBUS, DNP 3.0, MQTT any other proprietary protocol shall not be acceptable. Communication Port shall be USB for local communication and programming. Logs storage shall minimum to 10,000. The LBS should maintain the logs in its buffer in case of connection loss. Once the connection is retrieved all logs shall be transferred to SCADA.

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Sr. No.	Signal Name	Data Type	104 Address
1	SWITCH OPEN STATUS	DPI	2001
2	SWITCH CLOSE STATUS		
3	AC HEALTHY	SPI	1001
4	BATTERY CHARGER HEALTHY	SPI	1002
5	BATTERY LOW	SPI	1003
6	MANUAL ENGAGE ON	SPI	1004
7	SWITCH FPI-1 OPERATED	SPI	1005
8	SWITCH OPEN COMMAND	DCO	5001

6.5. MARKING

Below parameters should be embossed on SS sheet of thickness 1mm with black background. It should be riveted on MS channel of AB switch:

1. Rated Voltage
2. Manufacturer's Name
3. Month/Year of Manufacture
4. Serial Number
5. PO no.
6. Rated normal current in Amps
7. Rated one second short-time current in Amps

C. Quality of Materials:

The bidder shall submit, quality assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture and after finishing, bought out items and fully assembled component and equipment including drives. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The TPWODL's or its nominated representative engineer shall have free access to the manufacturer/sub-supplier's work to carry out inspections. To ensure proper operation of the Product the bidder shall provide onsite training for TPWODL teams as and when required.

7.0 Pre and post commissioning work:

Testing and Commissioning After completion of the works, final checking of the line shall be carried out by the Contractor to ensure that all installation works and stringing have been done strictly according to the specifications and as approved by the Employer. All the works shall be thoroughly inspected in order to ensure that:

- a) All bolts are properly tightened, punched, tack welded and painted with zinc rich paint
- b) Wherever required, that proper revetment (erosion protection) is provided;

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Before commissioning of the lines following tests may be carried out:

- a) Insulation Resistance Test This test may be carried out using 5 kV or 10 kV megger preferably power driven to ascertain the insulation condition of the line.
- b) Conductor Continuity test: This test is to verify that each conductor of the overhead line is properly connected. The continuity Test of the line with proper phase indication or phase marking shall be checked
- c) Phase Sequence: Once, the line is charged from one end, without closing the Breaker at the other end, the Phase sequence is to be checked from the PT output using Phase Sequence Meter.

A8. SAFETY REQUIREMENT: (As applicable)

- 8.1 Contractor shall use all PPE's and safety apparels such as Helmets, safety shoes, hand gloves, full body harness, ladders in proper condition. Availability of fire extinguishers is mandatory.
- 8.2 All the tools and tackles should have necessary insulation on their handle. Contractor shall use the tools approved by TPWODL; manmade tools shall not be permitted at site.
- 8.3 All statutory requirements such as ESIC/EPS/PF/ Insurance coverage for working personnel should be fulfilled by contractor before commencement of job.
- 8.4. Contractor shall follow the safety terms & conditions mentioned in the Contractor Safety Code of Conduct & shall submit all documents as per Code of Conduct.
- 8.5. The Contractor shall take all necessary precautionary measures while executing jobs at public places or any site and will not cause any damage to consumer property or other public utilities such as cables, gas line and water lines etc.
- 8.6. The Contractor shall deploy safety officers as mandated in the Project Safety Plan.
- 8.7. The detailed risk assessment shall be conducted before start of the work by the authorized representative of the BA for activity wise.
- 8.8. Bidder/Vendor to ensure that all the lifting tools and tackles, pressure vessels are duly certified by the competent person authorized by the Chief Inspector of Factories of the respective state prior to start of the job.
- 8.9. The contractor shall provide orientation/induction training (Safety Induction Training) to his entire workforce prior to deploying them on the job & submit the records to TPWODL Safety officer on monthly basis. L1/L2/L3 Training will be provided by TPWODL Safety Officer as per applicable fees.

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- 8.10. The Contractor shall conduct daily Tool-Box Talk (TBT) meetings & attend monthly safety meetings as per the requirements of the Project safety plan.
- 8.11. The Contractor shall ensure proper housekeeping at the work sites; ensure segregation of waste at prior identified locations.
- 8.12. The Contractor shall thoroughly access the work scope, properly understand the hazards and risks associated with the job and carry out risk mitigation measure.
- 8.13. The Contractor shall carry out proper safety planning for the work scope involved, which includes but not limited to proper access, proper egress, lay down areas, storage areas, waste disposal, movement of manpower and equipment, inspection schedules of tools, PPE, gas cylinders etc.
- 8.14. The Contractor shall ensure deployment of skilled and competent personnel for CSS heavy equipment erection, Fabrication of MS, Control cable laying & termination, welding, crane operations, equipment operators, riggers, electricians, fabricators etc.
- 8.15. The Contractor shall obtain work permits from TPWODL authority prior to start the job.
- 8.16. The Contractor shall ensure that all his workforce working at heights are specifically trained for work at height (Tower commissioning) and have been medically certified.
- 8.17. The Contractor shall ensure that their workforce shall use proper scaffolds of approved quality and not using temporary work platforms.
- 8.18. The contractor shall ensure that his entire workforce is provided with approved PPE such as Gum boots with steel toe, safety shoes, helmet, full body harness with double lanyards, reflective jacket, leather gloves etc. If contractors fail to comply the PPE & TPWODL will debit the PPE amount + 20% extra from the bill.
- 8.19. The Contractor shall comply with the Safety, Health & Environment requirements stated in TPWODL safety plan.
- 8.20. The Contractor shall provide a detailed breakup of his estimate for compliance to safety as per the requirements of the Project Safety Plan
- 8.21. The Contractor shall report the unsafe act/ condition/ near miss to TPWODL. Proactive reporting will be rewarded as per Reward & recognition policy for contractors.
- 8.22. Any safety violations shall be treated as per the consequence management policy.
- 8.23. The Contractor shall send their supervisor at TPWODL to attend training on supervision for safety before deploying supervisor at site.

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8.24. The Contractor shall submit the monthly safety report containing man-days worked safety training record, incident statics to TPWODL before 5th of every month.

8.25. The Contractor shall provide the drinking water to his workforce during the work.

8.26. The Contractor shall provide first aid box & fire extinguisher (type ABC 5kg) at site.

8.27. The Contractor shall conduct an emergency mock drill at each working site or once a month & submit the mock drill report to TPWODL.

8.28. The Contractor shall adopt any other safety instructions given by TPWODL on time to time.

A9. BIDDER'S QUALIFICATION REQUIREMENTS:

Refer Annexure D1 for Pre-Qualification Requirement (PQR).

A10. PROJECT SCHEDULE / MILESTONES:

Bidder shall submit with the bid, a detailed Project Schedule covering the following based on the milestones tabulated below:

- a. Start of 'Engineering'
- b. Completion of 'Engineering'
- c. Commencement of 'Manufacturing'/Manufacturing process
- d. Commencement of Supply
- e. Commencement of Supervision of erection, testing and commissioning.

Milestone *	Target
Prebid meeting	1st week from Tender
Bid Submission	2nd week from Tender
Drawing submission	1st week from PO
Inspection of equipment	8th week from PO
Delivery of equipment	12th week from PO
Completion of installation	12th month from NTP

A11. SUBMISSIONS BY BIDDERS:

Bidder shall submit the following information along with the Technical Bid.

With the Bid

- Acceptance of the bid documents by stamping & signing on each page of the bid document.

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- Data to validate Qualifying Requirements.
- Dully filled in schedules, listed in section 'C'.
- Manufacturing Quality Plan (MQP), Field Quality Plan (FQP)
- General Arrangement Drawings for equipment offered

After award of contract

- Detailed Data Sheet of equipment
- General Arrangement Drawings for equipment offered
- Manufacturing Quality Plan (MQP), Field Quality Plan (FQP)
- Plan and profile of Transmission line with typical installation drawings
- Cable route with typical installation drawings

A12. DETAILED TECHNICAL SPECIFICATIONS:

Refer standard Specifications given in Section D for details.

A13. QUALITY REQUIREMENTS:

Refer standard Specifications given in Section D for details.

A14. MAINTAINANCE REQUIREMENTS:

Replacement of any defective component shall be simple and free from any obstruction.

A15. TOOLS AND TACKLES FOR ERECTION AND COMMISSIONING

Bidder shall arrange for all the tools and tackles required to complete the job. Bidder to submit list of all tools and tackles with quantities in the bid document which shall be made available at site for executing the job.

Battery operated tools shall be preferred considering safety and ease of working All safety norms like use of PPE, safe tools and equipment's duly tested and approved by the client will have to be adhered to by the executing agency.

A16. SPARES:

Bidder to offer spare items as per Schedule of Quantity.

B. SCHEDULES:

B1. SCHEDULE OF QUANTITY:

Refer to the Schedule of quantity attached for details.

Note: The attached schedule of quantity is indicative. However, bidder to consider all

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required equipment/component considering the complete SITC scope in pre-bid stage only.

B2. SCHEDULE OF DEVIATIONS:

(TO BE ENCLOSED WITH TECHNICAL BID)

All deviations from this specification shall be set out by the Bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the purchaser's specifications:

SL. No	Clause No.	Details of deviation with justifications

We confirm that there are no deviations apart from those detailed above.

Seal of the Company:

Signature

Designation

C TENDER PURPOSE DRAWINGS AND DOCUMENTS

Refer the attached Annexure-C1 for GTP of equipment's/components which need to be filled against the technical requirement and to be submitted along with technical bid.
In addition to above the following documents to be submitted: -

1. Tentative GA of the system
2. Catalogues of controller, modem, etc.

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3. Compliance to the I/O list

D ANNEXURES

D1 Pre-Qualification Requirement (PQR)

Technical Specification of Materials

- D2 Standard Technical specification for 11KV motorized AB switch
- D3 Standard Technical specification for Communicable FPI with accessories
- D4 Standard Technical specification for 11KV XLPE Covered Conductor
- D5 Standard Technical specification for 1.1KV LT Power Cable
- D6 Standard Technical specification for 1.1KV LT Control Cable
- D7 General Requirements for Quality Assurance & Inspection

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