

TPCODL

TP Central Odisha Distribution Limited

TPNODL

TP Northern Odisha Distribution Limited

TPSODL

TP Southern Odisha Distribution Limited

TPWODL

TP Western Odisha Distribution Limited

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766****Open Tender Notification****For****Rate Contract for Supply of AB Switch of various ratings for TPCODL, TPNODL, TPSODL & TPWODL.****Tender Enquiry No.: TPCODL/CCG/24-25/1000001766,
Due Date for Bid Submission: 21/02/2025 [17:00 Hrs.]****Centralized Contracts Group
Tata Power Odisha DISCOMs
1st Floor, Anuj Building, Plot No. 29, Satya Nagar,
Bhubaneswar – 751007.****TPCODL TPNODL TPSODL TPWODL
(TATA Power and Odisha Government Joint Venture).**

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CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766****Centralized Contracts Group (CCG):**

The Centralized Contracts Group (CCG) is a shared service group of four Tata Power Odisha Distribution Companies (DISCOMs) - TPCODL, TPNODL, TPSODL & TPWODL. CCG is responsible for carrying out tendering activities to cater to the purchasing needs of all four DISCOMs.

1.0 Event Information

Bids are invited in Two-part Bid system from interested Bidders to establish a Rate Contract as below:

Tender Enquiry No.	Work Description	EMD (Rs.) *	Tender Fee inclusive of GST (Rs.) **	Last Date and Time for payment of Tender Fee
TPCODL/CCG/24-25/1000001766	Rate Contract for Supply of AB Switch of various ratings.	500,000/-	5,000/-	10/02/2025 17:00 Hrs.

* EMD exempted for MSMEs registered in the State of Odisha.

** Tender fee – Rs. 1,000/- including GST. for MSMEs registered in the State of Odisha (Ref. Odisha MSME Preferential Norms for details on Odisha MSME support)

1.1 Scope of work

Bids are invited from interested Bidders to award Rate Contract (RC)/Purchase Order (PO) for Procurement of AB Switch of various ratings as per details mentioned below:

Sl. No.	Material Description	UOM	TPCODL Qty.	TPNODL Qty.	TPSODL Qty.	TPWODL Qty.	Total Requirement
1	33 kV AB Switch 400A 3Pole Horizontal Type	Set	50	130	190	480	850
2	11 kV AB Switch 400A 3pole Horizontal Type	Set	508	850	1340	6298	8,996
3	11 kV AB Switch 200A 3pole Horizontal Type	Set	228	1299	2725	4752	9,004

Detailed scope as stipulated elsewhere in this tender document.

Odisha MSME Preferential Norms

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- **Tender Fees Relaxation:** To participate in the tender, MSMEs registered in the State of Odisha shall pay Rs.1,000/- including GST towards cost of tender paper.
- **Earnest Money Deposit (EMD) Exemption:** EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.
- **Qualification Requirement Relaxation:** Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria.
- **Past-Experience Relaxation:** instead of relying on the volumes / value of earlier Supplies / Projects, assessment of the Bidder shall be done based on feedback from Customers. Past performance experience at Tata Power and its Group Companies shall supersede feedback from other Customers.
- **Reservation for MSME:** TP DISCOM shall procure at least 20% of the total volume of the procurement from MSME registered in the State of Odisha (however, it shall not apply where goods/services are not available with the MSME), subject to matching L1 discovered prices and meeting technical specifications including quality requirements.
- **Performance Bank Guarantee (PBG) Relaxation:** Performance Bank Guarantee for MSME registered in the State of Odisha shall be 25% of the value normally prescribed.

1.2 Availability of Tender Documents

The bidder can get primary information about the tender from the Newspaper advertisement. Tender documents can be downloaded from TP Odisha DISCOM's websites:

www.tpcentralodisha.com,

www.tpnodl.com,

www.tpwesternodisha.com,

www.tpsouthernodisha.com

Non-Refundable Tender Participation Fee, as indicated in tender document, to be submitted before last date of tender fee payment, in the form of direct deposit / NEFT / RTGS in the following bank account.

Account Name: TP Central Odisha Distribution Limited

Bank Name: State Bank of India,

IDCO Towers, Bhubaneswar

Bank Account No.: 10835304915

IFSC Code: SBIN0007891.

To receive online bidding link, eligible and Interested bidder shall send an email to Package Owner (Ref. Clause 4.0 for details) attaching duly signed and stamped letter on Bidder's letterhead, with following details, expressing their intent to bid against above tender in following format:

Sr No	Description	Bidder's Response
i)	Tender Enquiry No.	
ii)	Description of materials / Works Tendered	

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iii)	Name and address of the bidding company	
iv)	Name of the authorized contact person	
v)	Contact No. of authorized person	
vi)	E-mail Id to which online ARIBA link to be sent	
vii)	Tender Fee details (Amount / NEFT-RTGS UTR No / Date) (Ref sec 1.2)	
viii)	GST No. of bidder	
ix)	MSME Certificate (if applicable)	
x)	Postal address of bidder for return of EMD BG	

E-mail must be sent to saurabh.kumar@tpwesternodisha.com with copy to umesh.bhardwaj7@tpcentralodisha.com on or before last date and time for payment of tender participation fee (Clause 1.3).

On receipt of the above letter, after due verification, ARIBA link for participation in the tender will be sent to bidder's e-mail address from ARIBA system. Bids shall be submitted only through the online e-procurement platform, ARIBA. Any other form of bid submission shall not be accepted. **(Ref. Annexure XII for detailed instructions on bid submission in ARIBA) Calendar of Events**

(a)	Date of sale/ availability of tender documents from Website	31-01-2025
(b)	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation as mentioned in "Procedure to Participate in Tender"	10-02-2025; 17:00 Hrs.
(c)	Date & Time of Pre-Bid Meeting (If any)	It shall be intimated later, if required.
(d)	Due Date of receipt of pre-bid queries by e-mail if any	12-02-2025; 15:00 Hrs.
(e)	Due Date of Posting Consolidated replies to all the pre-bid queries as received	14-02-2025
(f)	Due date and time of receipt of Bids	21-02-2025; 17:00 Hrs.
(g)	Date & Time of opening technical bids	Shall be intimated later
(h)	Date & Time of opening of Price of qualified bids	Shall be notified to the successful bidders later.

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Note: In the event of last date specified for submission of bids and date of opening of bids is declared as a closed holiday for TP Discom's office, the last date of submission of bids and date of opening of bids will be the day following working day at appointed times.

2.0 Pre- Qualification Criteria

Sr No	Parameter	Owner Requirement	Documents to be submitted by Bidder
A	Technical Pre-Qualification Requirements		
1	Technical Experience / Performance	The bidder should have own manufacturing facility to manufacture AB Switches of same or higher rating and should have in-house facilities for routine & acceptance tests as per technical specifications.	Self-undertaking letter.
		At least two (02) Performance Certificate by any Discoms / PSUs / Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP Discoms for supply of similar product, performance feedback of the same will be solely considered irrespective of the performance certificate issued by bidder's other customers.	The performance certificate and contact details of the client need to be submitted
B	Financial Pre-Qualification Requirements		
1	Commercial Capability	The Average Annual Turnover of the prospective bidder(s) should be equal to or more than Rs. 06 Crores in three Financial years. For MSME registered in the State of Odisha, criteria shall be reduced to 20% of the existing one.	Copy of audited Balance sheet with UDIN no. to be submitted in this regard.
2		Bidder should have Experience of having successfully executed supply orders for at least 50% of tender quantity (cumulative) or	Order copy with corresponding invoices to be

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		single order of 25% of tender quantity or 2 orders of 15% each of same or higher rating during last 5 years. Last day of previous month prior to date of bid submission shall be counted for purpose of years calculation.	submitted in this regard.
3		The prospective Bidder(s) should have following certificates: a. Valid GST Registration Certificate. b. Valid PAN No. c. Odisha State MSME Certificate (if applicable)	PAN & GST Certificates to be submitted.

3.0 Evaluation Criteria

- The bids will be evaluated technically and on qualifying criteria of tender terms and conditions.
- The bids will be evaluated commercially on an individual line-item basis for all-inclusive lowest cost as calculated in Schedule of Items [Annexure I].
- Bidder must mandatorily quote against each item of Schedule of Items [Annexure I]. Failing to do so, CCG may reject the bids.

NOTE: In case a new bidder is not registered with DISCOM, factory inspection and evaluation shall be carried out to ascertain bidder's manufacturing capability and quality procedures. However, DISCOM reserves the right to carry out factory inspection and evaluation for any bidder prior to technical qualification.

In case a bidder is found as Disqualified in the factory evaluation, their bid shall not be evaluated any further and shall be summarily rejected. The decision of DISCOM shall be final and binding on the bidder in this regard.

3.1 Price Basis

The price will be fixed and firm during the contractual period.

4.0 Contact Information

All the bidders are requested to send their pre-bid queries (if any) against this tender through e-mail within the stipulated timelines. The consolidated reply to all the queries received shall be posted on website by the stipulated timelines as detailed in calendar of events.

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Name: Saurabh Kumar

Contact No.: 7004418500

E-Mail ID: saurabh.kumar@tpwesternodisha.com

Escalation Level I:

Name: Umesh Bhardwaj, HoD- CCG

Contact No.: 9871552975

E-Mail ID: umesh.bhardwaj7@tpcentralodisha.com

Escalation Level II:

Name: Mr. Vipin Chauhan, Head -CCG

Contact No.: 9717393121

E-Mail ID: vipin.chauhan@tpnodl.com

5.0 Submission of Bid Documents**5.1 Bid Submission:**

Bidders are requested to submit their offer in line with this Tender document through e-tendering process.

All future correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. shall be through TPCODL E-Tender system (Ariba).

Bids shall be submitted in 3 (Three) parts:

5.1.1 First Part: EMD

EMD as applicable shall be submitted. The EMD shall be valid for 210 days from the due date of bid submission in the form of Bank Guarantee / Bank Draft / Bankers Pay Order (issued from a Scheduled Bank) online NEFT/ RTGS transfer favoring **'TP Central Odisha Distribution Limited' payable at Bhubaneswar**. The EMD BG has to be strictly in the format as mentioned in the General Condition of Contract, failing which it shall not be accepted by CCG and the bid as submitted shall be liable for rejection. A separate **non-refundable tender fee** of the stipulated amount also needs to be transferred **online through NEFT/ RTGS** in case the tender document is downloaded from our website.

TPCODL Bank Details for transferring Tender Fee and EMD is as below:

Account Name: TP CENTRAL ODISHA DISTRIBUTION LIMITED**Bank Name: SBI, IDCO Towers, Bhubaneswar****Bank Account No.: 10835304915, IFSC Code: SBIN0007891**

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Note: EMD is preferred in the form of Bank Guarantee and to be delivered to the following address. However, in view of the present situation if Bidder is finding it difficult to submit BG for EMD amount, they can do online transfer of EMD amount in the above-mentioned Account and submit proof of the same as part of Bid Submission.

-In such case, Tender Fee and EMD should be strictly 2 separate transactions else bids shall be rejected.

-Return of EMD from Bank Account is non-standard practice and the same may take more time than return of EMD BG.

EMD Original Hard Copy shall be delivered at the following address in Envelope clearly indicating Tender Reference/ Enquiry Number, Name of Tender and Bidder Name

“EMD (Earnest Money Deposit)”

“Rate Contract for the supply of AB Switch of various ratings”

Chief –Centralized Contracts Group

TP Central Odisha Distribution Limited

1st Floor, Anuj Building, Plot No. 29, Satya Nagar, Bhubaneswar- 751007

Kind Attn.: Package Owner Name, Mob No.: 7004418500.

**EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.*

The bidder shall furnish, as part of its bid, an EMD amounting as specified in the tender. The EMD is required to protect DISCOM against the risk of bidder's conduct which would warrant forfeiture.

The EMD shall be denominated in any of the following form:

- Bank Guarantee in favor of TP Central Odisha Distribution Limited payable at Bhubaneswar.
- Online transfer of requisite amount through NEFT/ RTGS.
- Bank Guarantee valid for 210 days after the due date of submission.

Ref. GCC for Format of Bank Guarantee

The EMD shall be forfeited in case:

The bidder withdraws its bid during the period of specified bid validity.

Or

- a) The successful Bidder does not
- b) Accept the Purchase Order, or
- c) furnish the required Performance Security Bank Guarantee

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5.1.2 Second Part: Techno-Commercial Bid.

Techno-Commercial bid shall contain the following documents. Absence of any of these may attract bid rejection:

1. Index Stating Document name & Page No./Document No. in bid. As illustrated below:

Sr No	Document	Page No	Document No
1	Type test Reports	3	
2	Schedule of Deviations	8	
3	...	...	

2. Requisite Documents for compliance with Qualification Criteria mentioned in Clause 2.0 and clause no. 1.5.
3. Type Test Certificate* of same or higher rating.
4. Acceptance of Specification as per Annexure II.
5. Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.
6. Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.
7. Duly filled in Annexure V and VI.
8. Proper authorization letter / Power of Attorney to sign the tender on behalf of bidder.
9. Copy of PAN, GST registration (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations')

The type tests specified in technical specifications should have been carried out **within five years (unless otherwise explicitly stated) prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/reject such bids rests with DISCOM.*

The technical bid shall be submitted through CCG / TPCODL E-tender System (Ariba) only. Hard Copy of Technical Bids need not be submitted unless specifically asked for.

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Price Bid shall contain only the price details and strictly in format as mentioned in Annexure I along with explicit break up of basic prices and Taxes & duties etc. In case any discrepancy is observed between the item description stated in Schedule of Items mentioned in the tender and the price bid submitted by the bidder, the item description as mentioned in the tender document (to the extent modified through Corrigendum issued if any) shall prevail. The price bids containing any deviations/conditions shall be liable to be rejected.

Price Bid is to be submitted in soft copy through CCG/TPCODL E-Tendering system (Ariba) only. Hard copy of Price Bid shall not be submitted.

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and CCG, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

5.2 Signing of Bid Documents

The bid must contain the name, residence, and place of business of the person or person making the bid and must be signed and sealed by the Bidder with his usual signature. The names of all the people signing should also be typed or printed below the signature.

The Bid being submitted must be signed by a person holding a **Power of Attorney** authorizing him to do so, certified copies of which shall be enclosed.

The Bid submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Bid on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show clearly the title, authority and designation of persons signing the Bid on behalf of the Company. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with bid.

A bid by a person who affixes to his signature the word 'President', 'Managing Director', 'Secretary', 'Agent' or other designation without disclosing his principal will be rejected.

The Bidder's name stated on the Proposal shall be the exact legal name of the firm.

5.3 Mandatory documents required along with the Bid.

1.4.1 EMD of requisite value and validity

1.4.2 Tender Fee.

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- 1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.
- 1.4.4 Acceptance of Specification, drawing with filled in GTP as per Annexure II.
- 1.4.5 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.
- 1.4.6 Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.
- 1.4.7 Duly filled in Annexure V and VI.
- 1.4.8 Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder.
- 1.4.9 Copy of PAN, GST registration (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations')

Please note that in the absence of any of the above documents (as applicable), the bid submitted by a bidder shall be liable for rejection.

5.4 Deviation from Tender

Normally, deviations to tender terms are not admissible and the bids with deviation are liable for rejection. Hence, the bidders are advised to refrain from taking any deviations on this Tender. Still in case of any deviations, all such deviations shall be set out by the Bidders, clause by clause in the 'Annexure III - Schedule of Deviations' and same shall be submitted as a part of the Technical Bid.

6.0 Bid Related Details**6.1 Bid Prices**

Bidders need to quote for all items as per the Price schedule attached in Annexure I. The bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total price with taxes, duties & freight up to destination at various Discoms' sites. The all-inclusive prices offered shall be inclusive of all costs –Insurance, Transport, duties, taxes, levies paid or payable etc. during the execution of the supply work. Applicable GST to be specified clearly.

The quantity break-up shown elsewhere other than Price Schedule may tentative. The bidder shall ascertain himself regarding material required for completeness of the entire work. Any items not indicated in the price schedule, but which are required to complete the job as per the Technical Specifications/ Scope of Work/ SLA mentioned in the tender, shall be deemed to be included in prices quoted.

6.2 Bid Currencies

Prices shall be quoted in Indian Rupees Only unless otherwise stated explicitly.

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Bids shall remain valid for **180 days** from the due date of submission of the bid.

Notwithstanding clause above, CCG may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and responses thereto shall be made in writing.

6.4 Alternative Bids

Bidders shall submit Bids, which comply with the Bidding documents. Alternative bids will not be considered. The attention of Bidders is drawn to the provisions regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the bidding documents.

6.5 Modifications and Withdrawal of Bids

The bidder is not allowed to modify or withdraw its bid after the Bid's submission. The EMD as submitted along with the bid shall be liable for forfeiture in such an event.

7.0 Bid Opening & Evaluation**7.1 Bid Confidentiality**

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other people not officially concerned with such process. Any effort by a Bidder to influence CCG in processing of Bids or award decisions may result in rejection of the Bidder's Bid.

7.2 Technical Bid Opening

Technical Bids shall be opened online as per schedule mentioned in section 1.3, in CCG Office (1st Floor Conference room, Plot -29, Anuj Building Satya Nagar, Bhubaneshwar). Bidders having authorization letter (format Annexed- XI) for attending bid opening from competent authority of respective Organizations, who may choose to be present physically / online at the time of tender opening. If the office is closed on the specified date of opening of the bids, the opening shall be done on the next working day at the same time. A technical bid must not contain any cost information whatsoever, else bids shall be liable to be rejected.

First the envelope marked "EMD" will be opened. Bids without EMD/cost of tender (if applicable) of required amount/ validity in prescribed format, shall be rejected.

Next, the technical bid of the bidders who have furnished the requisite EMD will be opened, one by one.

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7.2.1 Preliminary Examination of Bids/Responsiveness

CCG will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are in order & format as detailed elsewhere in this document. CCG may ask for submission of original documents to verify the documents submitted in support of qualification criteria.

Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

Prior to the detailed evaluation, CCG will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviation. CCG reserves the right to reject non-responsive bids.

7.2.2 Techno Commercial Clarifications

Bidders need to ensure that the bids submitted by them are complete in all respects. To assist in the examination, evaluation and comparison of Bids, CCG/Engineering may at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to specifications and attempt will be made to bring all bids on a common footing. Any such clarification as sought shall have to be responded to bidder **within two working days**, post which the bids shall be liable to be rejected. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered, or permitted owing to any clarifications sought.

7.2.3 Right of Acceptance/Rejection

Bids are liable for rejection in absence of following documents:

- i. EMD of requisite value and validity.
- ii. Tender fee of requisite value.
- iii. Price Bid as per the Price Schedule mentioned in Annexure I (BOQ)
- iv. Necessary documents against compliance with Qualification Requirements mentioned in Clause 2.0 of this Tender Document.

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- v. Filled in Schedule of Deviations as per Annexure III.
- vi. Filled in Schedule of Commercial Specifications as per Annexure IV.
- vii. Signed and filled in Specification and GTP as per Annexure II.
- viii. Duly filled and signed Annexure V and VI.
- ix. Receipt of Bid within the due date and time.

CCG reserves the right to accept/reject any or all the bids without assigning any reason thereof.

7.3 Price Bid Opening

Price Bids will be opened online for all technically qualified bidders on the dates as shall be informed to qualified bidders in CCG Office (First Floor Conference room, Plot -29, Anuj Building Satya Nagar, and Bhubaneshwar). Bidders having authorization letter (format annexed) for attending bid opening from competent authority of respective Organizations shall be allowed to be present physically/online at the time of bid opening. If the office is closed on the specified date of opening of the bids, the opening shall be done on the next working day at the same time. The EMD of the bidder withdrawing or substantially altering his offer at any stage after the technical bid opening will be forfeited at the sole discretion of DISCOM without any further correspondence in this regard.

8.0 Market Integrity

We have a fair and competitive marketplace. The rules for bidders are outlined in the General Condition of Contracts. Bidders must agree to these rules prior to participating. In addition to other remedies available, CCG reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the General Condition of Contracts. A bidder who violates the market place rules or engages in behavior that disrupts the fair execution of the marketplace may result in restriction of a bidder from further participation in the marketplace for a length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honor prices submitted to the marketplace.
- Breach of terms as published in TENDER / NIT

9.0 Supplier Confidentiality

All information contained in this tender is confidential and shall not be disclosed, published, or advertised in any manner without written authorization from CCG. This includes all bidding information submitted to the DISCOM. All tender documents remain the property of DISCOM, and all suppliers are required to return these documents to DISCOM upon request. Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events.

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766****10.0 Reverse Auctions**

CCG reserves the right to conduct the reverse auction for the products/ services being asked for in the tender. The terms and conditions for such reverse auction events shall be as per the Acceptance Form attached as Annexure VI of this document. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form attached as Annexure VI as a token of acceptance for the same.

Bidders shall be allowed to participate in Reverse auction as per following criteria hence bidders are advised to quote their most competitive rates while submitting the bids to avoid disqualification from participation in Reverse Auction.

Reverse Auction shall be as per the below approach:

No. of bidders allowed to participate in RA process shall be: Total No. of bidders on whom tender would be split PLUS 2 more bidders.

Illustrative example: Total no. of qualified bidders is 10 & tender needs to split amongst 4 bidders.

PLUS 2 means (04 + 02 = 06) means lowest 6 bidders i.e., L1 to L6 bidders would be allowed in the RA process. Balance, H1 to H4 bidders would not be allowed in the RA process.

In case – Total no of qualified bidders is equal to or less than the **PLUS 2** number, all qualified bidders shall be allowed in the RA process.

Illustrative example: Total no. of qualified bidders is 4 & tender needs to split amongst 2 bidders. PLUS 2 means (02 + 02 = 04), so all 4 qualified bidders would be allowed in the RA process.

Illustrative example: Total no. of qualified bidders is 3 & if the tender is to be awarded to a single party only, PLUS 2 means (01 + 02 = 03), so all 3 qualified bidders would be allowed in the RA process.

11.0 Award Decision

DISCOM will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned in Clause 3.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 7.2.1. The decision to place purchase order/LOI solely depends on CCG on bidder qualification & cost competitiveness across multiple lots, quality, delivery, and bidder's capacity, in addition to other factors that CCG may deem relevant.

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766**

CCG reserves the right to split the order quantity wise/Line item wise among two number of Bidders. All bidders are advised to quote their most competitive rates against each line item. However, CCG reserves the right to adjust the splitting as per bidders' participation/qualification/any other unforeseen condition in tender.

DISCOM reserves the right to award the contract to one or more number of bidders to meet the delivery requirement or nullify the award decision without assigning any reason thereof.

In case any supplier is found unsatisfactory during delivery process, the award will be cancelled and DISCOM reserves right to award contract to other suppliers who are found fit.

12.0 Order of Preference / Contradiction

In case of contradiction in any part of various documents in tender, following shall prevail in order of preference:

1. Schedule of Items – Price Bid (Annexure I)
2. Technical Specifications (Annexure II)
3. Special Conditions of Contract (Clause 13.1)
4. Submission of Bid Documents (Clause 5.0)
5. Acceptance Form for Participation in Reverse Auction (Annexure VI)
6. General Conditions of Contract (Annexure VII)

13.0 Post Award Contract Administration**13.1 Special Conditions of Contract**

- i. The Rate Contract shall be valid for a period of 12 months from the placement of the Contract. Release Order (RO) shall be placed as per the requirement of respective TP Odisha Discom. Rates shall remain firm throughout the RC period.
- ii. Prices shall be inclusive of Transit Insurance/ Packing & Forwarding charges and shall be inclusive of unloading & stacking at Discom site / store locations.
- iii. BA shall submit applicable PBG as per GCC within 15 days of issuance of RC. PBG applicable shall be 5% of contract value. PBG submitted shall be released after completion of applicable guarantee period plus one month. Performance Bank Guarantee for MSME registered in the State of Odisha shall be 25% of the value normally prescribed.
- iv. The guarantee period shall be as per the technical specifications of the materials.
- v. BA shall submit GTP/ Drawing within 15 days from issuance of rate contract. If drawings are not approved by competent authorities due to document shortfall or any changes are

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suggested, vendor must resubmit new drawing/GTP/documents within 05 days of such intimation. BA shall offer prototype inspection within 15 days of issuance of approved Drawings/GTP (if applicable). In case BA does not get necessary approvals for issuance of manufacturing clearances /CAT-A within mentioned / mutually agreed timelines, then CCG/TP Odisha Discoms reserve the right to cancel issued rate contract / release order and reserve the right to forfeit EMD/PBG.

- vi. Delivery Period shall be 60 Days from date of receipt of release order / CAT-A GTP approval, whichever is later.
- vii. Payment Terms: As per GCC.
- viii. Pre-dispatch inspection, MDCC shall be applicable as per GCC.
- ix. Liquidated Damages (LD): LD shall be applicable as per GCC.
- x. Any request of LD waiver shall be submitted within thirty (30) days of deducting LD. Request submitted beyond the timeline shall not be entertained.
- xi. TP Odisha Discom reserves the right to short-close the issued Release Order / Rate contract, in case of any quality issues.
- xii. Any change in statutory taxes, duties and levies during the contract period shall be borne by respective TP Odisha Discom. However, in case of delay in supply owing to reasons not attributable to TP Odisha Discom, any increase in total liability shall be passed on the Bidder, whereas any benefits arising owing to such statutory variation in taxes and duties shall be passed on TP Odisha Discom.
- xiii. All other terms of GCC – Supply shall be applicable.

14.0 Drawing Submission and Approval

As per SCC, Clause number 13.1

15.0 Payment Terms

As per SCC, Clause number 13.1

16.0 Climate Change: Significant quantities of waste are generated during the execution of project and an integrated approach for effective handling, storage, transportation, and disposal of the same shall be adopted. This would ensure the minimization of environmental and social impact to combat

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climate change. Please refer to the attached Environment Policy and Sustainability Policy (Annexure–X).

17.0 Ethics

TP DISCOMs are ethical organizations bound by Tata Code of Conduct. As a policy we lay emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.

DISCOM work practices are governed by the Tata Code of Conduct which emphasizes on the following:

- We shall select our suppliers and service providers fairly and transparently.
- We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
- Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.
- We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
- We respect our obligations on the use of third-party intellectual property and data.

Bidder is advised to refer Tata Code of Conduct (TCOC) attached for more information. For details, refer link: <https://www.tata.com/about-us/tata-code-of-conduct>

Any ethical concerns with respect to this tender can be reported to the following:

Mr. Pradip Sil (Chief Central Contracts Group): pradip.sil@tpcentralodisha.com

18.0 Specification and standards

As per Annexure II

19.0 General Condition of Contract

Any condition not mentioned above shall be applicable as per GCC attached as Annexure VII along with this tender.

20.0 Safety Policy and Safety Terms & Conditions

Annexure VIII attached along with this tender.

21.0 Tata Code of Conduct

Annexure IX attached along with this tender.

22.0 Environment & Sustainability Policy: Annexure X attached along with this tender.

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ANNEXURE-I: Price Schedule

Sl. No.	Item Description	Qty.	UoM	HSN /SAC Code	Unit Ex-Work Price (Rs./ Unit)	GST (Rs/ Unit)	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value (Rs.)
A	B	C	D	E	F	H	I=(F+G+H)	J=(H x I)
1	33 kV AB Switch 400A 3Pole Horizontal Type	850	EA					
2	11 kV AB Switch 400A 3pole Horizontal Type	8,996	EA					
3	11 kV AB Switch 200A 3pole Horizontal Type	9,004	EA					

Mandatory to quote in all line items (If Applicable)*NOTE:**

- Prices shall be firm till the validity of the contract (As applicable).
- The bids will be evaluated commercially on a Line-item basis.
- The unit price to be entered in column "F" of above table is exclusive of GST.
- The prices mentioned above shall be on F.O.R basis for all the TPCODL, TPNODL & TPSODL designated locations.
- Issuance of Release Orders (RO) shall be done by respective Discoms as per their requirement.
- The material shall be delivered as per the location mentioned in the release order/MDCC.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids shall be liable for rejection.
- The bidder must fill every column of the above format. **Mentioning "extra/inclusive"/other conditions in any of the column may lead to rejection of the price bid.**
- No cutting/ overwriting in the prices is permissible.
- The quantity mentioned above is for evaluation purposes only and may vary as per actual site requirement.

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ANNEXURE-II: Technical Specification

Attached with this Tender document.

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CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766****ANNEXURE III: Schedule of Deviations**

Bidders are advised to refrain from taking any deviations on this TENDER. Still in case of any deviations, all such deviations from this tender document shall be set out by the Bidders, Clause by Clause in this schedule and submit the same as a part of the **Technical Bid**.

Unless specifically mentioned in this schedule, the tender shall be **deemed** to confirm the specifications:

S. No.	Clause No.	Tender Clause Details	Details of deviation with justifications

By signing this document, we hereby withdraw all the deviations whatsoever taken anywhere in this bid document and comply to all the terms and conditions, technical specifications, scope of work etc. as mentioned in the standard document except those as mentioned above.

Seal of the Bidder:***Signature:******Name:***

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ANNEXURE IV : Schedule of Commercial Specifications

(The bidders shall mandatorily fill in this schedule and enclose it with the offer Part I: Technical Bid. In the absence of all these details, the offer may not be acceptable.)

S. No.	Particulars	Remarks
1.	Prices firm or subject to variation (If variable indicate the price variation clause with the ceiling if applicable)	Firm / Variable
a.	If variable price variation on clause given	Yes / No
b.	Ceiling	----- %
c.	Inclusive of GST	Yes / No (If Yes, indicate % rate)
d.	Inclusive of transit insurance	Yes / No
2.	Delivery Clause acceptable	Yes / No
3.	Guarantee clause acceptable	Yes / No
4.	Terms of payment acceptable	Yes / No
5.	Performance Bank Guarantee acceptable	Yes / No
6.	Liquidated damages clause acceptable	Yes / No
7.	Validity (180 days) (From the date of opening of bid)	Yes / No
8.	Inspection during stage of manufacture	Yes / No
9.	Covered under Small Scale and Ancillary Industrial Undertaking Act 1992	Yes / No (If Yes, indicate, SSI Reg'n No.)

Seal of the Bidder:***Signature:******Name:***

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CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766****ANNEXURE V: Checklist of all the documents to be submitted with the Bid**

Bidder must mandatorily fill in the checklist mentioned below:

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this tender	
3	Signed copy of this tender as an unconditional acceptance	
5	Duly filled schedule of commercial specifications (Annexure IV)	
6	Sheet of commercial/technical deviation if any (Annexure III)	
7	Balance sheet for the last three completed financial years; mandatorily enclosing Profit & loss account statement	
8	Acknowledgement for Testing facilities if available (duly mentioned on bidder letter head)	
9	List of Machine/tools with updated calibration certificates if applicable	
10	Details of order copy (duly mentioned on bidder letter head)	
11	Order copies as a proof of quantity executed	
12	Details of Type Tests if applicable (duly mentioned on bidder letter head)	
13	All the relevant Type test certificates as per relevant IS/IEC (CPRI/ERDA/other certified agency) if applicable	
14	Project/supply Completion certificates	
15	Performance certificates	
16	Client Testimonial/Performance Certificates	
17	Credit rating/solvency certificate	
18	Undertaking regarding non blacklisting (On company letter head)	
19	List of trained/untrained Manpower	

Seal of the Bidder:***Signature:******Name:***

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ANNEXURE VI: Acceptance form for Participation in Reverse Auction Event***(To be signed and stamped by the bidder)***

In a bid to make our entire procurement process fairer and more transparent, CCG intends to use the reverse auctions as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed accepted by the bidder on participation in the bid event:

1. CCG shall provide the user id and password to the authorized representative of the bidder. *(Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).*
2. CCG will make every effort to make the bid process transparent. However, the award decision by CCG would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of CCG, bid process, bid technology, bid documentation, and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of CCG.
6. In the case of intranet medium, CCG shall provide the infrastructure to bidders. Further, CCG has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer, and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be outrightly rejected.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at Discom site / store.

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10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for event time extension of auction event shall be considered by CCG.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all-inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

[Signature & Stamp of Bidder]

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TPSODL

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TPWODL

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ANNEXURE VII: General Conditions of Contract

Attached Separately

TPCODL

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TPSODL

TP Southern Odisha Distribution Limited

TPWODL

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ANNEXURE VIII: Safety Policy and Safety Terms & Conditions

Attached Separately with Tender

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ANNEXURE IX: Tata Code of Conduct

Attached Separately with Tender

Also Refer: <https://www.tata.com/about-us/tata-code-of-conduct>

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ANNEXURE X: Environment & Sustainability Policy**CORPORATE ENVIRONMENT POLICY**

Tata Power is committed to a clean, safe and healthy environment, and we shall operate our facilities in an environmentally sensitive and responsible manner. Our commitment to environmental protection and stewardship will be achieved by:

- Complying with the requirements and spirit of applicable environmental laws and striving to exceed required levels of compliance wherever feasible
- Ensuring that our employees are trained to acquire the necessary skills to meet environmental standards
- Conserving natural resources by improving efficiency and reducing wastage
- Making business decisions that aim towards sustainable development
- Engaging with stakeholders to create awareness on sustainability

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!

**ANNEXURE XI: Authorization Letter Format**

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(To be presented by the authorized person at the time of opening of Bid on the letter head of Bidder and should be signed by an Authorized Signatory with Name and Seal of the Company)

Chief - Central Contracts Group

Tata Power Odisha DISCOMs
Plot-29 Anuj Building
Satya Nagar Bhubaneswar

SUB: Tender for**Ref: Tender No..... dated.**

Dear Sir,

This has reference to your above Tender. Mr. / Miss / Mrs. _____
is hereby authorized to attend the bid opening of the above Tender on _____ on behalf
of our organization.

The specimen signature is attested below:

Specimen Signature of Representative

Signature of Authorizing Authority
Name & Designation of Authorizing Authority

NOTE: This Authorization letter is to be carried at the time of Bid Opening**ANNEXURE XII: Instructions to Bidder for participation in ARIBA System**

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Step 1: Eligible and Interested bidder shall send an email to Package Owner (Ref. Clause 4.0 for details) attaching duly signed and stamped letter on Bidder's letterhead, with following details, expressing their intent to bid against above tender:

Sr No	Description	Bidder's Response
i)	Tender Enquiry No.	
ii)	Description of materials / Works Tendered	
iii)	Name and address of the bidding company	
iv)	Name of the authorized contact person	
v)	Contact No. of authorized person	
vi)	E-mail Id to which online ARIBA link to be sent	
vii)	Tender Fee details (Amount / NEFT-RTGS UTR No / Date) (Ref sec 1.2)	
viii)	GST No. of bidder	
ix)	MSME Certificate (if applicable)	
x)	Postal address of bidder for return of EMD BG	

E-mail must be sent to saurabh.kumar@tpwesternodisha.com with copy to umesh.bhardwaj7@tpcentralodisha.com on or before "Last date and time for payment of Tender Participation Fee".

Step 4: On receipt of the document as mentioned in Step 3 above and after due verification of the same, ARIBA link for participation in the tender will be sent to bidder's e-mail address from ARIBA system.

Step 5: In this e-mail online link as "[Click Here](#)" shall be there to access the event & participate in the tender.

Step 6: First time bidders need to **Sign Up** for accessing the event. Create User Name and password as mentioned in Sign Up page. A one-page registration screen will open for first time user. All * mark mandatory field to be filled in.

Those who already have User Name and password for accessing events, may LOGIN by using same User Name and password. (Bidder's user name and password for their other customer shall not be applicable for TPCODL / TPWODL / TPNODL / TPSODL).

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Step 7: Post login, access the RFQ.

Step 8: After review and downloading of all documents click on **"Review Pre-requisites."**

Step 9: Review and accept **"Bidder Agreement"**.

Step 10: Tender document (PDF) can be downloaded from relevant section in Ariba Portal

Step 11: Technical Bid Submission: Bidder must attach pdf version of technical bid in section relevant to technical bid submission. Uploading any price-related information in this section shall lead to bidder rejection.

Step 12: Price Bid Submission: Price schedule as attached in relevant section has to be downloaded. Price and tax details to be filled in as per the format. PDF version of duly filled price bid to be uploaded in relevant section. Price bid to be mandatorily signature & sealed by authorized person on Company letter head. For Price Bid put all the unit price and taxes and duties in the provided field. Put "NA" in the not applicable field.

Step 13: After successfully uploading Techno commercial offer and price part, click - **"Submit Entire Response"**.

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CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 24-25 / 1000001766**

**Format for unconditional acceptance of Clauses, Terms and Conditions of Tender Document,
Technical Specification and applicable GCC**

To
The Chief - CCG & Engineering
Centralized Contract Group- TP Odisha DISCOMS
1st Floor, Anuj Building, Plot no. 29, Satyanagar,
Bhubaneswar, Odisha - 751007

Sub: Declaration on Tender Terms and Conditions

Ref. Tender Doc:

Tender Details:

Dear Sir

This is to inform that I, the undersigned (Proprietor / Partner /Director/ Authorized Signatory of M/s _____) am authorized to sign this declaration and execute the tender bid submission process on behalf of our Organization.

I have carefully read and understood all the terms and conditions of the entire Tender Document, applicable GCC along with the Technical Specification and hereby convey my acceptance of the same unless specifically mentioned in Annexure IV of this tender document.

It is also understood that furnishing of any false information/fabricated documents would lead to rejection of my tender at any stage.

With warm regards,

[Signature & Stamp of Bidder]



SUPPLIER MANUAL ANSWERING TO E-BIDDING

	Version 1.2
Company Confidential	DEC - 2020

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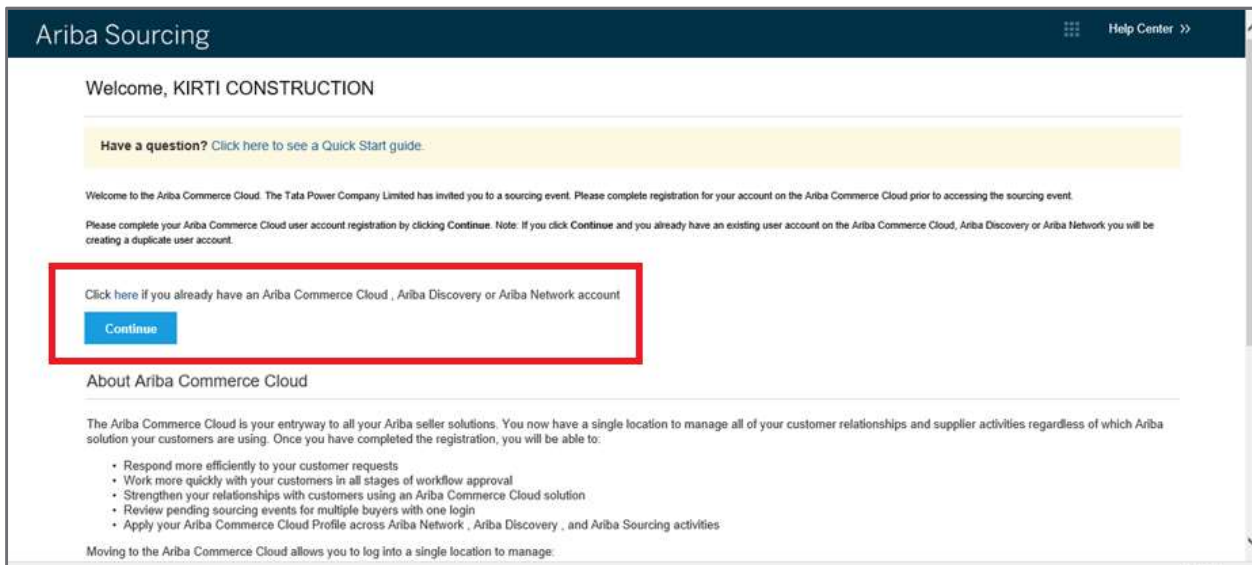
1- Accessing Ariba Sourcing

Step 1: You will get an invitation to your email from Ariba System. Keep this email, it contains your login Information and a direct link to Ariba.

Step 2: Click "Click Here" to access the Ariba Web Site.



Step 3: Supplier has to click on "Continue"



Step 4: The registration process only takes a few moments, with a simple one-page registration Define your password and secret question. Click "OK"

* Indicates a required field

Company Name: KIRTI CONSTRUCTION

Country: India [IND]

Address: Yashodeep E3- 08
Sector 22 Koperkharne Navi Mumbai
400709

City: mumbai

State: maharashtra

Postal Code: 400709

Product and Service Categories: Enter Product and Service Categories [Add](#) -or- Browse

Ship-to or Service Locations: Enter Ship-to or Service Location [Add](#) -or- Browse

Tax ID: Optional Enter your Company Tax ID number.

DUNS Number: Optional Enter the nine-digit number issued by Dun & Bradstreet.

Supplier has to fill the form

Step 5: If it's the first time you are invited to use UPM Ariba, you'll need to accept the "Participant Terms". Select "I accept the terms of this agreement". Click "Submit".

The registration form includes the following elements:

- A password field with a strength indicator (*****).
- A "Secret Question:" dropdown menu with the option "In what city was your mother born?". A note states: "The answer to your secret question must be atleast 5 characters."
- Two additional input fields, each with a strength indicator (*****).
- A "Language:" dropdown menu set to "English". A note states: "The language used when Ariba sends you configurable notifications. This is different than your web b..."
- A paragraph of legal text regarding company profile visibility and data consent.
- A checkbox labeled "I have read and agree to the Terms of Use and the Ariba Privacy Statement", which is checked and highlighted with a red border.
- "Submit" and "Cancel" buttons at the bottom right.

2 Vendor Screen - Submitting Your Answers / Proposal

2.1.1 If vendor goes through mail invitation then directly Screen 3.1.1 will appear, but if If you have used Ariba before and have already accessed an event for the buyer-specific account with your current log in ID, click the **Login** button to continue. Log in with your Ariba username and password in order to participate in the event OR you have to follow the following steps.

Step 1 - Log on supplier.ariba.com

Step 2 - Put your USER ID and Password in following screen

The screenshot shows the "Supplier Login" page for SAP Ariba Proposals. The page features the SAP Ariba logo and the text "Powered by Ariba Sourcing". The login section includes:

- Input fields for "User Name" and "Password".
- A blue "Login" button.
- A link for "Forgot Username or Password".
- A link for "Need help? See Quick Start".

On the right side of the page, there is a laptop displaying a dashboard with various charts and data visualizations.

Step 3 - Go to "Ariba Proposals & Questionnaire".

The screenshot shows the Ariba Sourcing homepage. A blue oval annotation points to the 'Ariba Proposals and Questionnaire' link in the top navigation bar, with the text: "Goto 'Ariba Proposals & Questionnaire' after logging in at supplier.ariba.com". Another blue oval annotation points to the 'Events' table, with the text: "Events (Tender enquiries) in which Bidder has participated shall be visible. Click and enter into any specific event".

Events

Title	ID	End Time	Event Type
Status: Open (2)			
Maintenance of HT and LT Networks for Tata Power Distribution at Odisha (TPC-ENG-ENG-016-20-21)	Doc2416130949	6/4/2020 4:55 PM	RFP
Tender Documents-Meter Reading Cum Spot billing and Bill Distribution(TPC-ENG-ENG-015-20-21)	Doc2420255101	6/4/2020 3:00 PM	RFP

The screenshot shows the 'Event Details' page for Doc2420255101 - Tender Documents-Meter Reading Cum Spot bill... A blue oval annotation points to the 'Review Prerequisites' button, with the text: "Click on 'Review Prerequisites'".

Event Details

Doc2420255101 - Tender Documents-Meter Reading Cum Spot bill...

Time remaining: 8 days 03:36:25

Review and respond to the prerequisites. Prerequisite questions must be answered before you can view event content or participate in the event. Some prerequisites may require the owner of the event to review and accept your responses before you can continue with the event. If you decline the terms of the prerequisites, you cannot view the event content or participate in this event.

Download Content Review Prerequisites Decline to Respond Print Event Information

Review the terms of the prerequisites before you can view the event content.

Tender Documents

1. Review Event Details

2. Review and Accept Prerequisites

3. Submit Response

Event Contents

All Content

1 Tender Documents

2 Techno Commercial Bid

1.1 Introduction

1.1.1 Introduction

As per the Notice Inviting Tender dated 12th May 2020, Bidders are to download Tender from Tata Power website (Tenders section). Same Tender documents are attached in this E-tender enquiry for reference purpose.

As mentioned in the Procedure for participating in tender (which is enclosed with the tender documents), this e-Tender enquiry is being issued to the bidders who have purchased the tender documents following instructions therein.

All future/further communications wrt the subject tender and Bid submission shall be through this e-Enquiry only. Following is to be noted,

Next Section: Techno Commercial Bid

Tata Power - Ariba Spend Manag

s1.ariba.com/Sourcing/Main/aw7a...

Checklist

1. Review Event Details
2. Review and Accept Prerequisites
3. Submit Response

Prerequisites must be completed prior to participation in the event.

In consideration of the opportunity to participate in on-line events ('On-Line Events') held and conducted by the company sponsoring this On-Line Event ('Sponsor') on the web site (this 'Site') hosted by Ariba, Inc. ('Site Owner'), your company ('Participant' or 'You') agrees to the following terms and conditions ('Bidder Agreement').

- 1. Bids.** If you are invited to participate in the On-Line Event, Sponsor reserves the right to amend, modify or withdraw this On-Line Event. Sponsor reserves the right to accept or reject all or part of your proposal. Submission of a bid does not create a contract or any expectation by Participant of a future business relationship. Rather, by submitting a bid, you are making a firm offer which Sponsor may accept to form a contract, subject to section 2 below. Sponsor is not liable for any costs incurred by Participant in the preparation, presentation, or any other aspect of Participant's bid.
- 2. Price Quotes.** Except to the extent Sponsor allows a non-binding bid, all Bids which Participant submits through the On-Line Events are legally valid quotations without qualification, except for data entry errors.
- 3. Procedures and Rules.** Participant further agrees to be bound by the procedures and rules established by the Site and Sponsor.
- 4. Confidentiality.** Participant shall keep all user names and passwords, the On-Line Event content, other confidential materials provided by the Site and/or Sponsor, and all bids provided by You or another participating organization in confidence and shall not disclose the foregoing to any third party.
- 5. Bids through Site only.** Participant agrees to submit bids only through the on-line bidding mechanism supplied by the Site and not to submit bids via any other mechanism including, but not limited to, post, courier, fax, E-mail, or orally unless specifically requested by Sponsor.
- 6. Ethical Conduct.** All parties will prohibit unethical behavior and are expected to notify the Site Owner by contacting the appropriate project team if they witness practices that are counter-productive to the fair operation of the On-Line Event. If Participant experiences any difficulties during a live On-Line Event, Participant must notify Site Owner immediately.
- 7. Survival.** The terms and conditions of this Bidder Agreement shall survive completion of the On-Line Event.

BA v1.1 19Aug05

☒ I accept the terms of this agreement.

☐ I do not accept the terms of this agreement.

Accept the Terms of Agreement and Submit

Tata Power - Ariba Spend Manag

s1.ariba.com/Sourcing/Main/aw7a...

Console

Doc2420255101 - Tender Documents-Meter Reading Cum Spot bill...

8 days 03:33:47

Event Messages
Response History
Response Team

Checklist

1. Review Event Details
2. Review and Accept Prerequisites
3. Submit Response

Event Contents

All Content

1 Tender Documents

2 Techno Commercial Bid

3 Price Bid

All Content

2.1 Please attach the Techno-Commercial bid

2.2 Please attach your techno commercial offer (Extra File)

3 Price Bid

3.1 Bidder to specify the prices either in terms of percentage (%) or Value where the options are available for both percentage (%) , please Specify Zero (0) in the amount field and vice-versa.

3.2 Bidders to download editable copy of Price bid format (Which is attached herewith), and re-attach the same after filling in prices as their Price Bid. No Alterations/changes shall be made by the bidders in this format as requested.

References

(*) indicates a required field

Submit Entire Response

Update Totals

Excel Import

Technical Bid to be attached in Tab 2.1 and 2.2. Attach file link is towards extreme right, and is shown in next slide

Price Bid to be attached in Tab 3.2. Attach file link is towards extreme right, and is shown in next slide

Divendra Sharma (desharma@gmail.com) last visited 26 May 2020 10:55:18 PM. Horizons Cybersoft Ltd. AN01523824134
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SAP Ariba Privacy Statement Security Disclosure Terms of Use

These are "Attach File" links for Tab 2.1 and 2.2 where Technical bid is to be attached. Pls attach files in BOTH these tabs otherwise it will show error on submission.

This is "Attach File" link for Tab 3.2 (Price Bid).

Click On "Submit Entire Response" AFTER Attaching technical and Price bids as above.

Note: In case of multiple files, all files can be kept in one folder and folder can be converted to zip file for attaching

terms of percentage (%) or Value where the options are available for both. In case price is specified in 0) in the amount field and vice-versa.
 h is part of Annexure I of Tender/attached herewith, and re-attach the same after filling in prices as their Price Bid.
 mat apart from entering their rates/prices/taxes as requested.

(*) indicates a required field

Submit Entire Response Update Totals Save draft Excel Import

3 Communicating with Tata Power Buyer during e- bidding

Step 1: Click "Compose Message".

Submit Entire Response Update Totals Save draft **Compose Message** Excel Import

Step 2: Compose Your Message and click "Send".

back to The Tata Power Company Limited-TEST Dashboard Desktop File Sync Notifications

Compose New Message

From: shingare.manufacturers (Ravi Shingare)

To: Project Team

Subject: Dec681345837 - sourcing project 001

Attachments: attach a file

Send Cancel

User Sir,
 Can we submit the price ??
 Regards
 ABC

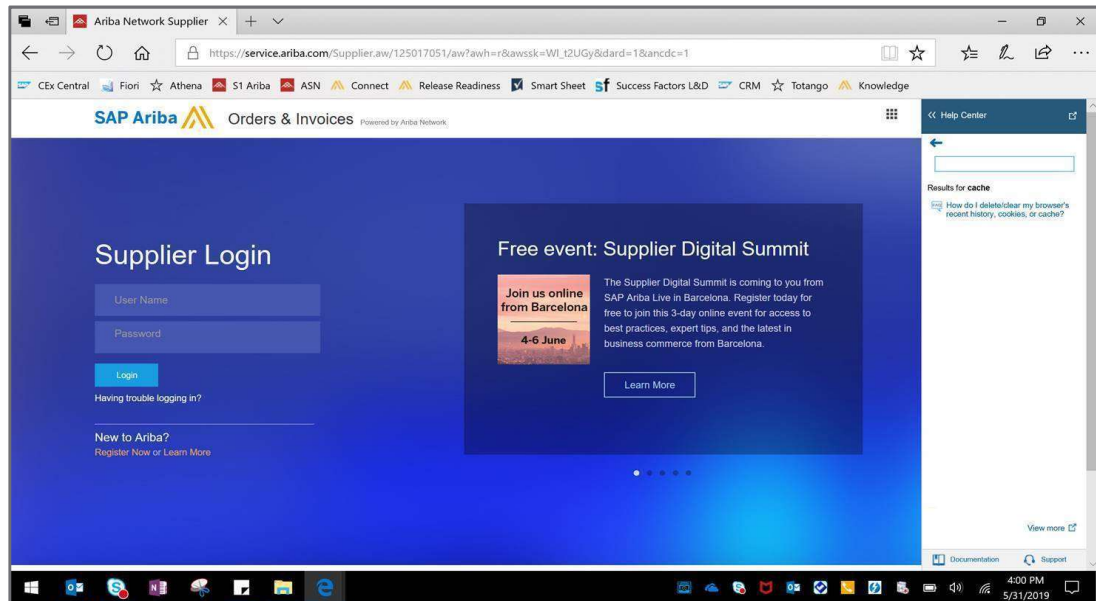
ARIBA TRAINING VIDEOS

Participating in a RFI or RFP on Ariba Network - https://www.youtube.com/watch?v=9_XXUaVyI7o

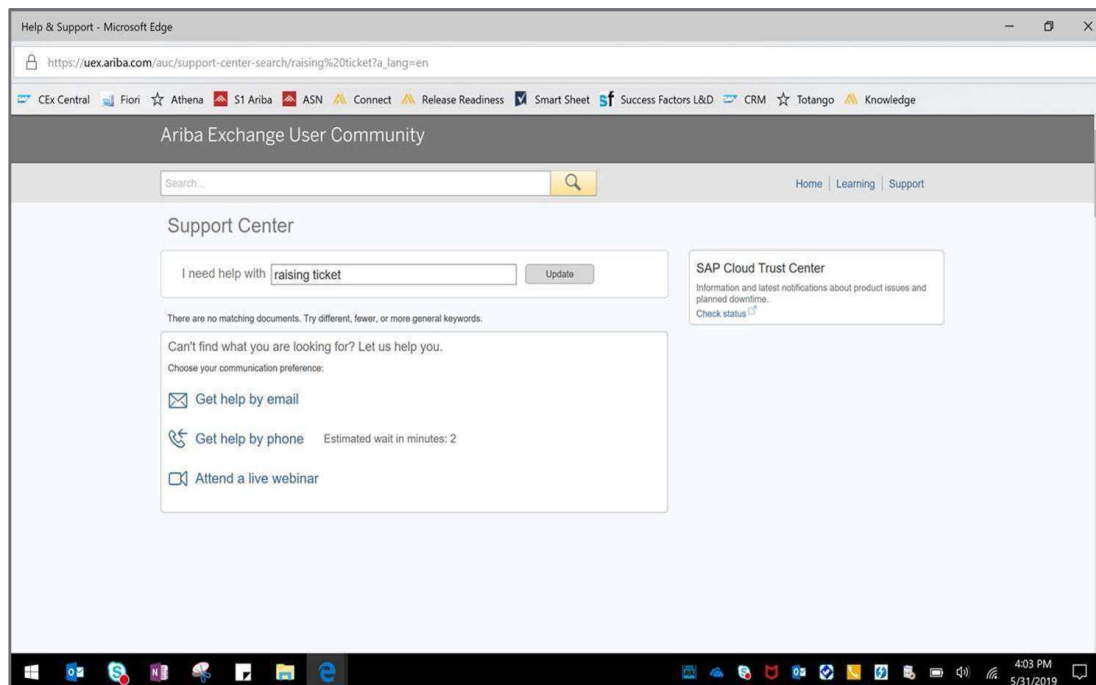
Support from Ariba - Supplier can raise the Ticket for “Support”

Here are the steps that Suppliers can follow for raising a ticket or requesting a call back from Support team. They can do so without logging in – pls follow the brief instructions given below.

1. Go to login page>Choose “Support” on the bottom right corner



2. Add query and press “Start” – After that, following screen will pop up where you can choose either Get Help by Email or Get Help by Phone.



3. Choose phone and add following basic details and you will get call back

Waiting for response from uex.ariba.com - Microsoft Edge

https://uex.ariba.com/au/support-center/email-webform?channel=callme

CEx Central Fiori Athena S1 Ariba ASN Connect Release Readiness Smart Sheet Success Factors L&D CRM Totango Knowledge

SAP Ariba Phone Support

Provide the following information, and the next available specialist will call you.

Problem Description

Short Description: * logging in

Contact Information

First Name: *

Last Name: *

Company: *

Email: *

Requested Language: English

Select a different language from the Home tab.

Phone: * +1 201-555-0123 Extension: *

Confirm Number: *

* ☐ My phone number is correct.

☐ Do not record this phone call.

Ariba Network ID: *

You expressly agree and understand that your data entered into this system will be transferred to Ariba, Inc. and the Ariba hosted computer systems (currently located primarily in the U.S.), in accordance with the [Ariba Privacy Statement](#) and applicable law.

* ☐ I agree

* Required Fields

Submit Cancel

4:57 PM 6/7/2019

If not by phone, they can ask for a response/support by email.

[illegible]

SUPPLIER FREQUENTLY ASKED QUESTIONS

 **If I registered on my buyer's Ariba Sourcing site in the past, do I need to register again?**

Answer- Yes. Although you have registered on your buyer's Ariba Sourcing site in the past, registering on the Ariba Commerce Cloud is required. The registration process only takes a few moments, with a simple one-page registration. Registering on the Ariba Commerce Cloud gives you access to all your buyer relationships with one username and password.

What is the Ariba Commerce Cloud?

Answer: - The Ariba Commerce Cloud is your entry point to all of your seller solutions. Rather than managing log in information for multiple buyers' sites, you will have one log in and one account. This means fewer passwords to remember, easier user maintenance for your company, and a unified profile for your organization.

Do I need to add Product and Service Categories during registration?

Answer:-Yes; this is a required field. Product and Service Categories classify what your company sells, and the system uses this information to match potential business opportunities with your products and services.

Click **Add Product and Service Categories** to select one or more categories from the list of options. During registration, you only need to choose one category, preferably related to the event you are joining. You can add, refine, or remove categories any time after the registration process.

Do I need to add ship-to or service locations during registration?

Answer: - **Yes**; this is a required field. Ship-to or Service locations inform buyers where your company sells its products or provides its services, and the system uses this information to match potential business opportunities with your products and services.

Click **Add Ship-to or Service Locations** to select one or more sales territories from a list. You can add, refine, or remove ship-to or service locations any time after the registration process.

Additional Information: - D-U-N-S is a registered trademark of Dun & Bradstreet or its subsidiaries in the United States and other countries.

What is the difference between the Email and Username fields in my profile?

Answer: - The Email field represents the email address where you wish to receive email notifications. The Username field is the identifier that you use to access your account. The Username field must be in email format, but you do not have to use a valid email address.

Note: Leave the **This is my username** box checked if you want your email address to be the same as your username.

How do I participate in my buyer's event using an email invitation?

Answer: - Use the **Click here** link in the email notification to access the sourcing event.

While buyers might customize the email content you receive, all email invitations contain a link to access the event.

Depending on your previous experience with Ariba solutions, do one of the following to access the event after you click the link:

- If you are new user, click **Continue** on the welcome page. You continue to register an Ariba account to link with your buyer and participate in the event.
- If you have used Ariba before and have already accessed an event for the buyer-specific account with your current log in ID, click the **Login** button to continue. Log in with your Ariba username and password in order to participate in the event.
- If you already have an existing Ariba Network, Ariba Discovery, or Ariba Sourcing supplier account, but you have not accessed any events for the inviting buyer's site, use the **Click here if you already have an Ariba Commerce Cloud, Ariba Discovery or Ariba Network account** link. After clicking the link, log in with your existing account to move your information to your buyer's site.

Additional Information:- Registering an Ariba account provides you with a consolidated view of all your customer relationships. With this one profile, you can view business opportunities, participate in sourcing events, participate in contract negotiations, and manage orders, catalogs, and invoices.

Why doesn't the link in the email invitation to participate in a sourcing event work?

Answer:-If you cannot click the link, or the link does not open the log in page, highlight and copy the Uniform Resource Locator (URL), and then paste the URL into your web browser.

Can my company have multiple accounts?

Answer:-Your Company can have multiple Ariba accounts, depending on your business needs. For example, if your company has several locations around the world, you might want a separate account for each region.

Most companies choose to have one account with multiple customer relationships, which provides a centralized location to maintain their company profile information and all of their customer relationships.

How do I complete registration if my username already exists?

Answer: - This message means that you already have an Ariba Network, Ariba Discovery, or Ariba Sourcing supplier account registered under username you entered. You can either register a new account by creating a new username, or access one of the following sites to request a password reset for the registered username:

- Ariba Network (This login page is used for all Ariba Network, Ariba Sourcing, or Ariba Contracts suppliers).
- Ariba Discovery login page

To reset your password, click the **Having trouble logging in?** Link on the Login page.

Nothing happens when I click Forgot Username and enter my email address

Issue: - Nothing happens when I click the **Forgot Username** link and enter my email address.

Cause: - After you submit your request to retrieve your username, the Ariba Network sends an email notification with usernames that match the email address you submitted.

Some possible reasons why you may not receive this username retrieval email notification:

- The email address on your account does not match the email address you entered when submitting the request.
- Your buyer-specific account was deactivated before you could move it to the Ariba Commerce Cloud. Generally, that means you probably have not participated in an event with that buyer for a while.

Solution: -

- To ensure you receive this email notification:
- Make sure you type the email address configured within your account.

If your buyer-specific account has been deactivated, contact your buyer to determine how to proceed.

Where is my password reset email?

Answer: - After you submit your request for a password reset, Ariba sends instructions to the email address associated with your account. If you didn't receive a password reset email, check the following scenarios to troubleshoot.

The username you entered is in the wrong format, or it isn't associated with the email address you are checking.

- Keep in mind, your username is in the format of a full email address, but it can be associated with any email address you entered previously.
- Your username is also case-sensitive.
- To confirm that you are using the correct username and format, return to the Ariba login page, and click the **Having trouble logging in?** link (**Forgot Username** if you're working in Ariba Discovery).
 - Choose **I forgot my username**, and click **Continue**.
 - Enter the email address associated with your account, and click **Submit**.

- You will receive an email that lists the exact format of the username associated with the email you entered.

You entered the correct username, but you still didn't receive the password reset email notification.

- This can occur if the configured email address is different from the account you are checking.
- You might have multiple accounts for your company, so make sure you are attempting to access the correct account.

Your email configuration or company's security settings might also prevent you from receiving the password reset email. To find out, check your junk mail folder or email filter settings to verify that automated emails from Ariba are not blocked from your email account.

 **Why do I get this message on the SAP Ariba Login page: "The username and password pair you entered was not found"?**

Answer: - You entered an incorrect **Username** or **Password**. You might receive this message if you entered a previous **Username** or **Password**. Remember that your **Username** has the format of an email address, and both the **Username** and **Password** are case sensitive.

Click the **Having trouble logging in?** Link on the Login page if you don't remember your log in information.

Technical Specifications:

CONFIDENTIAL

STANDARD TECHNICAL SPECIFICATION COVER SHEET

Specification No. : ENG-EHV-1018

Specification Name : Technical Specification for 33 kV AB switch (400 A)

YASHOBANTA ROUT	ANUP SAMAL	J DURAIRAJ	Sandeep Saurav	KHAJAN BHARDWAJ	POURUSH GARG
Prepared by	Reviewed by	Reviewed by	Reviewed by	Approved by	Released by
TPCODL	TPNODL	TPWODL	TPSODL	TPCODL	TPCODL
10-01-2023	10-01-2023	10-01-2023	10-01-2023	10-01-2023	12-01-2023

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1. SCOPE

This specification covers design, manufacturing, testing at manufacturer's works, inspection, packing & delivery of 33 kV Air Break Switch with accessories for out-door installation for use on transformer centers and tap line in Central Odisha. Aforesaid item(s) shall include loading and unloading at anywhere in Odisha.

It is not the intent to specify completely herein all the details of design and construction of 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 supplier's guarantee, in a manner acceptable to the purchaser, who will interpret the meanings of drawings and specifications and shall have the power to reject any material, which in his judgment i.e. not in accordance with the specifications/drawings.

The AB Switches offered shall be complete with all components necessary for its 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.

2. APPLICABLE STANDARDS

The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with the latest editions of the following Indian, International Standards and shall conform to the regulations of the local authorities:

Ref. IS	Description
IS 9920 (part-I to V)	Specification for helically formed fittings for Overhead lines up to 33 kV
IS 2633 (Part 1)	Method for testing uniformity of coating on zinc coated
IEC 62231	Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV – Definitions, test methods and acceptance criteria
IEC 60168:1994+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
IS 9530	Recommended practice for silver plating
IS 5925	Recommended practice for silver plating for general engineering purposes
BS 2816	Testing of silver plating thickness

IS 1239	GI pipe('B' class or Medium class)
IS: 5561	Electrical Power Connectors
IS 2062	Hot rolled medium and high tensile structural steel — specification

3. CLIMATIC CONDITIONS OF THE INSTALLATION

SL.NO.	CONDITONS	VALUES
1	Max. altitude above sea level	1200m
2	Max. Ambient Temperature	50 °C
3	Max. Daily average ambient temp	35 °C
4	Min Ambient Temp	0 °C
5	Maximum temperature attainable by an object exposed to sun	60 °C
6	Maximum Humidity	95%
7	Minimum Humidity	10%
8	Average No. of thunderstorm days per annum	70
9	Average Annual Rainfall	150 cm
10	Average No. of rainy days per annum	120
11	Thermal Resistivity of soil	150 Deg. Ccm/W
12	Wind Pressure	126 kg/sq. m up to an elevation of 10 meter.
14	Earthquakes of intensity in horizontal direction	equivalent to seismic acceleration of 0.3g
15	Earthquakes of intensity in vertical direction	equivalent to seismic acceleration of 0.15g
16	Wind velocity	300 km/hr.

TPCODL/TPNODL/TPSODL/TPWODL service area has heavy saline conditions along the coast and High cyclonic Intensity winds with speed upto 300 Kmph. The atmosphere is generally laden with mild acid and dust in suspension during the dry months and is subjected to fog in cold months.

4. GENERAL TECHNICAL REQUIREMENTS

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE
1	Rating of AB Switch	400 Amps AB Switch
1.a	Reference standards (latest amend.)	IS 9920, IEC 129, IEC 62231, IS 1239
2	Installation	Outdoor

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE
3	Suitable for Mounting	Horizontal Rotating Type
4	Type	3 Pole
5	Service Voltage	33 kV
6	Rated Voltage	36 kV
7	Rated Frequency	50 Hz
8	Current Carrying Capacity	400 Amps
9	Rated short time current	16 kA for 1sec
10	Rated peak withstand current	40 kA
11	Rated Short circuit making capacity	25 KA RMS
12	Rated Cable Charging breaking capacity	40 A RMS
13	Rated line charging breaking capacity	5.3 A RMS
14	Rated Transformer off load breaking Capacity	16 A RMS
15	One-minute power frequency with stand voltage Dry	95 KV RMS
16	One-minute power frequency withstand voltage Wet	75 KV RMS
17	Power Frequency puncture withstand voltage	1.3 times of actual dry flashover voltage
A	Visible Discharge Voltage	27 KV RMS
B	Dry flashover Voltage	95 kV
18	Power Frequency withstand voltage between pole and earth	70 KV RMS
19	Power frequency withstand voltage across the isolation distance	80 KV RMS
20	Impulse with stand voltage for positive and negative polarity (1.2 / 50) micro second wave)	
A	Across Isolating distance	195 KV Peak
B	To earth and between poles	170 KV Peak
21	No. of Post Per Phase (Polymeric, IEC 62231)	02
22	Total No. of post	06
22.a	FRP Dia of the Post Insulator (min)	32mm
22.b	Dai of Weather sheds	>100mm
22.c	Thickness of Housing (min)	3mm
22.d	Type of Sheds	Aerodynamic
23	Minimum Creepage Distance	900 mm (one post)
24	Phase to Phase Clearance	1200 mm
25	Isolation Distance in switch open condition	640 mm
26	Vertical clearance from Top of Insulator cap to mounting channel	508 mm (Minimum)
27	Copper contacts Temp in Air should not exceed	65 Degree

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE
28	Size of fixed contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	80mmx50mmx8mm Jaw assemblies are to be bolted through stainless steel flat and spring washer (Min 6 nos. of phosphor bronze high pressure spring to be used on each post).
29	Size of Moving contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	250mmx50mmx8mm (a Min deposit of 10 micron of Silver on copper contact)
30	Moving Contact supporting Angle	50mmx50mmx6mm
31	Size of rods used for arcing horns	10 mm
32	Insulation for tinned Copper braid/rope	Polyolefin, (RSFR-H) type
33	Copper Flexible BRAIDED Tape - 420 mm Long, Tinned plated with Brass Nut, bolt & Washers both end shall be crimped with copper socket through brass bolts and nuts	450gm /Mtr
34	Minimum size*Length of Coupling Hot Dip GI Solid Pipe for Phase coupling pipe, B Class (IS 1239)(Nominal Bore)	25mm Dia & 2500mm long
35	Operating Down Pipe, B Class (IS 1239)(Nominal Bore)	32mm Dia & 7 Mtr Long (one piece)
36	Temperature Rise Limit (w.r.t ambient temp) - Tinned Copper contacts - Terminals - Metal Parts	50°C 40°C 40°C
37	Arching Horns	10 mm dia GI rod
38	Locking Arrangement	Provision for pad locking at both 'ON' & 'OFF' position
39	Earth Terminal	M12 Bolts with nuts and flat washer shall be provided at base channel as earthing Terminal.
40	'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.
41	'I' bolt	The I bolt shall be longer with 75 mm thread.
42	Supporting Channel HDG 100 micron	100x50x6 mm hot dip galvanized channel (C/C slotted 18x36 hole 250 mm) Min. 760 mm length
43	Connectors/sockets	Connectors shall be of hard drawn electrolytic copper or brass. The connector should be of 4 bolted type and suitable for 100-232 sqmm AAC conductor. SOCKET: Two no. of bimetallic copper sockets shall be used at both ends suitable for 100-232 sqmm AAC conductor.

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE
44	Terminal Connectors/ Pads	The size of fixed connector shall be (80 x 50 x 8) and size of movable connector shall be (80 x 50) x (80 x 50) x 8 mm of HDE copper with uniform machine finishing duly silver plated with 2 no. of 14 mm dia holes provided with suitable brass bolts, double nuts, washers & spring washers
45	Bearing	4 nos. self-lubricating bearing to be provided with grease nipple including 4 th bearing being a thrust bearing.
46	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
47	Pressure Spring	Stainless steel

5. GENERAL CONSTRUCTIONS/REQUIREMENTS

- 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.
- 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.
- The air break switch shall be with the arcing horns, 10mm for 33 kV 400 A AB switch of GI rod.
- The current carrying connectors should be two-bolt type having nuts and bolts, with spring washer and plane washer.
- Each joint shall be provided with one plane and one spring of not less than 2mm thickness.
- Connectors shall be of H D electrolytic copper or Brass.
- Tinned Copper braid/rope shall be insulated by Polyolefin (RSFR-H) type to prevent animal electrocution. It shall be 420 mm long minimum and shall weigh 450 G/M. It shall be punched at both ends.
- 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.
- All Copper parts shall be silver plated as per relevant standards and coating thickness not less than 10 microns at any point.
- Equipment grounding shall be provided by bidder at two points with terminals. .
- All the nut bolt used must be Hot dip Galvanized and of size not less than M10 until and unless specified.
- A rigid base of galvanized steel channel of size approx.100x50x6 mm Length 760 mm min. (C/C slotted hole 18x 36 mm- 250mm shall be provided with clamps and bolts for Horizontal mounting firmly on steel structure.
- Each member of the switch shall be free from Rust, sharp edges, burr and any kind of deformation.

14. 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.
15. 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 & 2500 mm length nominal bore G.I. pipe.
16. Spacing: The Minimum clearance between phase to switch shall be 1200 mm. The operating down rod shall be at a transverse distance of 300 mm from the outer limb of the switch. The center spacing between two post insulators of the same phase shall be 560 mm. in open position of the AB switches the moving blade shall rotate through an angle of 90 degree. This shall be exhibited in the drawing.
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.

6. 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

7. TESTS CERTIFICATE

7.1 Type Test

The A.B. switches shall be subjected to the following type tests in accordance with clause No. 6 of IS-9920 (Part-1)/2002.

- (i) Tests to prove that the temperature rise of any parts does not exceed the values specified in part-2 of this standard.
- (ii) Tests to prove the capability of the switch to carry the rated peak withstand current and the rated short time current.
- (iii) Measurement of the resistance of the main circuit.
- (iv) Tests to prove the ability of the switch to make and break the specified currents.
- (v) Tests to verify the insulation level including withstand tests at power frequency voltages on auxiliary equipment if any. Di-electric tests include impulse withstand tests, power frequency voltage withstand tests, and power frequency voltage withstand tests.
- (vi) Tests to prove satisfactory operation and Mechanical endurance.
- (vii) Tests to prove the integrity of the external insulation under conditions of the air pollution.

Note 1: The type test certificate should not be more than 5 years old as on due date of opening of tender.

Note 2: Type test certificate of polymeric post Insulator shall be submitted and shall be issued from CPRI/ERDA or Government lab only.

7.2 Acceptance Tests

The following acceptance test should be carried out as per IS: 9920 (P4/1985) on

number of samples selected from the offered lot.

- (i) Visual Inspection.
- (ii) Checking of Dimensions (of all parts as per the approved drawing).
- (iii) Power frequency voltage dry test.
- (iv) Measurement of the resistance of the main circuit.
- (v) Test to prove satisfactory operation
- (vi) Galvanizing test as per IS: 2633.
- (vii) Temperature rise test.

7.3 Routine Tests:

Supplier shall provide a control plan, which will be implemented on AB switches. Routine test reports should be submitted by the manufacturer with inspection call.

The following routine tests as outlined in clause No.4 of IS: 9920 (Part4/1985) shall be carried out by the manufacturer on each unit to check certain essential requirements.

- i) Power frequency voltage dry tests.
- ii) Measurement of the resistance of the main circuit.
- iii) Test to prove satisfactory operation.
- iv) Dimension check
- v) Galvanization test

The tenderer shall clearly indicate what testing facilities are available in the works of manufacturer & whether facilities are adequate to carry out all Acceptance & Routine Tests. These facilities should be available to TPCODL/TPNODL/TPSODL/TPWODL's representative if deputed or carry out or witness the tests in the manufacturer works.

8. TESTS

Along with the bid, the bidder must submit Type Test Reports on AB switches as per this technical specification, carried out within last five years from the date of opening of techno-commercial bid of the tender from CPRI/ERDA labs only. Otherwise the tender may be rejected.

9. PRE DISPATCH INSPECTION

Equipment shall be subject to inspection by a duly authorized representative of the TPCODL/TPNODL/TPSODL/TPWODL. Inspection may be made at any stage of manufacture at the option of the TPCODL/TPNODL/TPSODL/TPWODL and the equipment if found unsatisfactory as to workmanship or material is liable to rejection. Supplier shall grant free access to the places of manufacture to TPCODL/TPNODL/TPSODL/TPWODL's representatives at all times when the work is in progress. Inspection by the TPCODL/TPNODL/TPSODL/TPWODL authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications.

Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by TPCODL/TPNODL/TPSODL/TPWODL. Following documents shall be sent along with material

- a) Routine Test reports
- b) MDCC issued by TPCODL/TPNODL/TPSODL/TPWODL
- c) Invoice in duplicate
- d) Packing list
- e) Drawings
- f) Delivery Challan
- g) Installation and maintenance Manual soft copy for all components
- h) Other Documents (as applicable)

10. INSPECTION AFTER RECEIPT AT STORES/SITE

The material received at TPCODL/TPNODL/TPSODL/TPWODL Store/Site will be inspected for acceptance and shall be liable for rejection if found different from the reports of the pre-dispatch inspection. If any deviation or anomaly observed at this stage same need to be rectified by bidder at bidders own cost at earliest.

11. GUARANTEE

Bidder shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under this contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Purchaser up to a period of at least 12 months from the date of commissioning or 24 months from the date of last supplies made under the contract whichever is earlier. Bidder shall be liable to undertake to replace/rectify such defects at its own costs, within mutually agreed time frame, and to the entire satisfaction of the Purchaser, failing which the Purchaser will be at liberty to get it replaced/rectified at Bidder's risks and costs and recover all such expenses plus the Purchaser's own charges (@ 20% of expenses incurred), from the Bidder or from the "Security cum Performance Deposit" as the case may be.

12. PACKING

Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit. The packing should be in such manner that during storage and its components should not be damaged. No single use plastic to be used in packing material. Packing should be done with environment friendly recyclable materials

13. TENDER SAMPLE

Bidder shall submit the sample of material with the offer (in case of first supply to TPCODL/TPNODL/TPSODL/TPWODL).

14. QUALITY CONTROL

The bidder shall submit with the offer, 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 TPCODL/TPNODL/TPSODL/TPWODL's or its nominated representative engineer shall have free access to the manufacturer/sub-supplier's works to carry out inspections. To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams as and when required. To ensure quality of installations bidder shall provide supervision support during impartation.

15. MINIMUM TESTING FACILITIES

Bidder shall have adequate in-house testing facilities for carrying out all routine tests & acceptance tests as per relevant International / Indian standards.

16. MANUFACTURING ACTIVITIES

The bidder shall get the approved drawing and GTP before start of manufacturing activity. The successful bidder will have to submit details of the offered design & components for approval as per specification. CAT-A/CAT-B is mandatory to start manufacturing.

17. SPARES, ACCESSORIES AND TOOLS

Not applicable.

18. DRAWINGS AND DOCUMENTS

Following documents to be submitted along with the bid for evaluation:

- a) Completely filled–in clause wise compliance of this specification.
- b) Signed and stamped copy of drawing
- c) Complete Type test reports
- d) Completely filled signed and stamped copy of tender document.
- e) Any other requisite document
- f) Experience List.

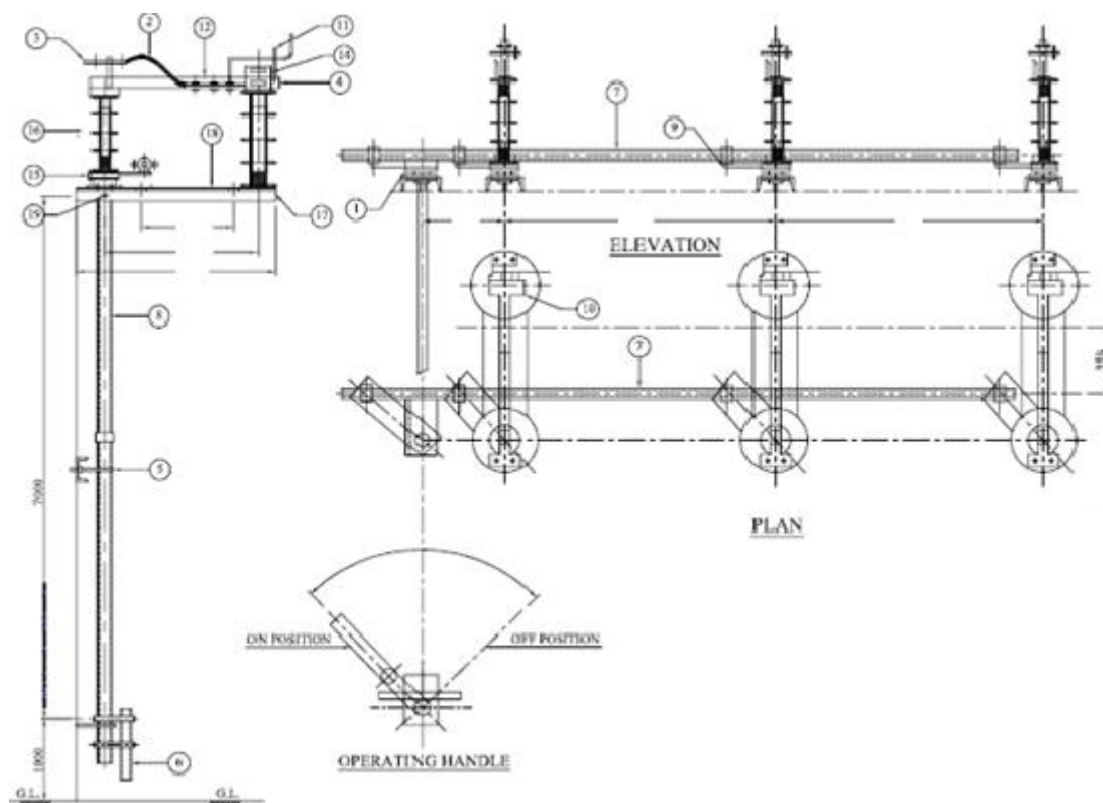
Following documents shall be submitted after award of RC/PO before manufacturing:

- a) Completely filled–in clause wise compliance of the specification.
- b) Signed and stamped copy of GA drawing
- c) Signed and stamped copy of installation drawing
- d) Compliance of all undertaking submitted during technical evaluation, if any
- e) Type test Certificates for each specified test if not submit during technical evaluation

Following Drawings/Documents shall be submitted after the award of the contract.

S. No	Description	For Approval	For Review Information	Final Submission
1	Technical Parameters	√		√
2	Manual/Catalogues/drawings for all components.		√	
3	Technical details and test certificates.		√	√
4	Installation Instructions		√	√
5	Transport/shipping dimension drawing		√	√
6	QA & QC Plan	√	√	√
7	Routine, Acceptance and Type test Certificates	√	√	√

All the Documents and Drawings shall be in English Language.



Indicative drawing of 33 KV 400A AB Switch

19. GUARANTEED TECHNICAL PARTICULARS

Completely filled-in clause wise compliance of this specification along with bid.

20. 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

STANDARD TECHNICAL SPECIFICATION COVER SHEET

Specification No. : ENG-HV-2013

Specification Name : Technical Specification for 11 kV AB switch (400 A & 200 A)

YASHOBANTA ROUT	DEEPAK BADATYA	J DURAIRAJ	Sandeep Saurav	KHAJAN BHARDWAJ	POURUSH GARG
Prepared by	Reviewed by	Reviewed by	Reviewed by	Approved by	Released by
TPCODL	TPNODL	TPWODL	TPSODL	TPCODL	TPCODL
07-01-2023	07-01-2023	09-01-2023	10-01-2023	10-01-2023	12-01-2023

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1. SCOPE

This specification covers design, manufacturing, testing at manufacturer's works, inspection, packing & delivery of 11 kV Air Break Switch with accessories for out-door installation for use on transformer centers and tap line in Central Odisha. Aforesaid item(s) shall include loading and unloading at anywhere in Odisha.

It is not the intent to specify completely herein all the details of design and construction of 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 supplier's guarantee, in a manner acceptable to the purchaser, who will interpret the meanings of drawings and specifications and shall have the power to reject any material, which in his judgment i.e. not in accordance with the specifications/drawings.

The AB Switches offered shall be complete with all components necessary for its 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.

2. APPLICABLE STANDARDS

The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with the latest editions of the following Indian, International Standards and shall conform to the regulations of the local authorities:

Ref. IS	Description
IS 9920 (part-I to V)	Specification for helically formed fittings for Overhead lines up to 33 kV
IS 2633 (Part 1)	Method for testing uniformity of coating on zinc coated
IEC 62231	Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV – Definitions, test methods and acceptance criteria
IEC 60168:1994+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
IS 9530	Recommended practice for silver plating
IS 5925	Recommended practice for silver plating for general engineering purposes
BS 2816	Testing of silver plating thickness

IS 1239	GI pipe('B' class or Medium class)
IS: 5561	Electrical Power Connectors
IS 2062	Hot rolled medium and high tensile structural steel — specification

3. CLIMATIC CONDITIONS OF THE INSTALLATION

SL.NO.	CONDITONS	VALUES
1	Max. altitude above sea level	1200m
2	Max. Ambient Temperature	50 °C
3	Max. Daily average ambient temp	35 °C
4	Min Ambient Temp	0 °C
5	Maximum temperature attainable by an object exposed to sun	60 °C
6	Maximum Humidity	95%
7	Minimum Humidity	10%
8	Average No. of thunderstorm days per annum	70
9	Average Annual Rainfall	150 cm
10	Average No. of rainy days per annum	120
11	Thermal Resistivity of soil	150 Deg. Ccm/W
12	Wind Pressure	126 kg/sq. m up to an elevation of 10 meter.
14	Earthquakes of intensity in horizontal direction	equivalent to seismic acceleration of 0.3g
15	Earthquakes of intensity in vertical direction	equivalent to seismic acceleration of 0.15g
16	Wind velocity	300 km/hr.

Environmentally, some of the regions, where the work will take place include coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators. Some places are in heavily industrial polluted areas. Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere.

The atmosphere is generally laden with mild acid and dust in suspension during the dry months and is subjected to fog in cold months. The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g.

4. GENERAL TECHNICAL REQUIREMENTS

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE	
		400 Amps AB Switch	200 Amps AB Switch
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	Current Carrying Capacity	400 Amps	200 Amps
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 withstand 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 withstand 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	6	6
24	Minimum Creepage Distance	320 mm	320mm

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE	
24.a	FRP Dia. of the Post Insulator (min.)	24mm	24mm
24.b	Dai of Weather sheds	>100mm	>100mm
24.c	Thickness of Housing (min)	3mm	3mm
25.d	Type of Sheds	Aerodynamic	Aerodynamic
25	Phase to Phase Clearance	760mm	760mm
26	Isolation Distance in switch open condition	380mm	380 mm
27	Vertical clearance from Top of Insulator cap to mounting channel	254mm (min)	254mm (min)
28	Copper contacts Temp in Air should not exceed	65Degree	65 Degree
29	Size of fixed contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	80mmx50mmx8mm (50x8x2 Fingers)	70mmx35mmx6mm (35x6x2 Finger)
30	Size of Moving contacts (Copper Type Electrolytic with silver plated) (coating thickness not less than 10 microns)	220mmx50mmx8mm	220mmx35mmx6mm
31	Moving Contact supporting Angle	50mmx50mmx5mm	45mmx45mmx5mm
32	Size of rods used for arcing horns	10 mm	8 mm
33	Insulation for tinned Copper braid/rope	Polyolefin, (RSFR-H) type	Polyolefin, (RSFR-H) type
34	Copper Flexible BRAIDED Tape - 320mm Long, Tined plated with Brass Nut, bolt & Washers	450gm /Mtr	450gm /Mtr
35	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
36	Operating Down Pipe, B class (IS 1239) (Nominal bore)	32mm Dia & 7Mtr Long (one piece)	32mm Dia & 7Mtr Long (one piece)
37	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
38	Bearings	4 nos. self-lubricating bearing to be provided with grease nipple including 4 th bearing being a thrust bearing.	
39	Locking arrangement	Provision for pad locking at both 'ON' & 'OFF' Position	
40	Earth Terminal	M12 Bolts with nuts and flat washer shall be provided at base channel as earthing Terminal.	
41	'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	

SL. NO.	TECHNICAL PARTICULARS	DESIRED VALUE
		requirements & avoid entire change of arm.
42	'I' bolt	The I bolt shall be longer with 75 mm thread.
43	Mounting Channel HDG 100 microns	75x40x4.8 mm hot dip galvanized channel length 480 mm min. (C/C slotted hole 18x 36 mm- 250mm)
44	Connectors	Connectors shall be of hard drawn electrolytic copper or brass. The connector should be of 4 bolted type and suitable for 55- 100 sqmm AAC conductor. Or SOCKET: Two no. of bimetallic copper sockets shall be used at both ends suitable for 55-100 sqmm AAC conductor.
45	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
46	Pressure Spring	Stainless steel

5. GENERAL CONSTRUCTIONS/REQUIREMENTS

- 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.
- 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.
- 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.
- The current carrying connectors should be two-bolt type having nuts and bolts, with spring washer and plane washer.
- Each joint shall be provided with one plane and one spring of not less than 2mm thickness.
- Connectors shall be of H D electrolytic copper.
- 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.
- 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.
- 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.
- All Copper parts shall be silver plated as per relevant standards and coating thickness not less than 10 microns at any point.
- Equipment grounding shall be provided by bidder at two points with terminals. .
- All the nut bolt used must be Hot dip Galvanized and of size not less than M10.
- 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.
- 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.

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.

6. 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

7. TESTS CERTIFICATE

7.1 Type Test

The A.B. switches shall be subjected to the following type tests in accordance with clause No. 6 of IS-9920 (Part-1)/2002.

- (i) Tests to prove that the temperature rise of any parts does not exceed the values specified in part-2 of this standard.
- (ii) Tests to prove the capability of the switch to carry the rated peak withstand current and the rated short time current.
- (iii) Measurement of the resistance of the main circuit.
- (iv) Tests to prove the ability of the switch to make and break the specified currents.
- (v) Tests to verify the insulation level including withstand tests at power frequency voltages on auxiliary equipment if any. Di-electric tests include impulse withstand tests, power frequency voltage withstand tests, and power frequency voltage withstand tests.
- (vi) Tests to prove satisfactory operation and Mechanical endurance.
- (vii) Tests to prove the integrity of the external insulation under conditions of the air pollution.

Note 1: The type test certificate should not be more than 5 years old as on due date of opening of tender.

Note 2: Type test certificate of polymeric post Insulator shall be submitted and shall be issued from CPRI/ERDA or Government lab only.

7.2 Acceptance Tests

The following acceptance test should be carried out as per IS: 9920 (P4/1985) on number of samples selected from the offered lot.

- (i) Visual Inspection.
- (ii) Checking of Dimensions (of all parts as per the approved drawing).
- (iii) Power frequency voltage dry test.
- (iv) Measurement of the resistance of the main circuit.
- (v) Test to prove satisfactory operation
- (vi) Galvanizing test as per IS: 2633.
- (vii) Temperature rise test.

7.3 Routine Tests:

Supplier shall provide a control plan, which will be implemented on AB switches. Routine test reports should be submitted by the manufacturer with inspection call.

The following routine tests as outlined in clause No.4 of IS: 9920 (Part4/1985) shall be carried out by the manufacturer on each unit to check certain essential requirements.

- i) Power frequency voltage dry tests.

- ii) Measurement of the resistance of the main circuit.
- iii) Test to prove satisfactory operation.

The tenderer shall clearly indicate what testing facilities are available in the works of manufacturer & whether facilities are adequate to carry out all Acceptance & Routine Tests. These facilities should be available to TPCODL/TPNODL/TPSODL/TPWODL's representative if deputed or carry out or witness the tests in the manufacturer works.

8. TESTS

Along with the bid, the bidder must submit Type Test Reports on AB switches as per this technical specification, carried out within last five years from the date of opening of techno-commercial bid of the tender from CPRI/ERDA labs only. Otherwise the tender may be rejected.

9. PRE DISPATCH INSPECTION

Equipment shall be subject to inspection by a duly authorized representative of the TPCODL/TPNODL/TPSODL/TPWODL. Inspection may be made at any stage of manufacture at the option of the TPCODL/TPNODL/TPSODL/TPWODL and the equipment if found unsatisfactory as to workmanship or material is liable to rejection. Supplier shall grant free access to the places of manufacture to TPCODL/TPNODL/TPSODL/TPWODL's representatives at all times when the work is in progress. Inspection by the TPCODL/TPNODL/TPSODL/TPWODL authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications.

Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by TPCODL/TPNODL/TPSODL/TPWODL. Following documents shall be sent along with material

- a) Routine Test reports
- b) MDCC issued by TPCODL/TPNODL/TPSODL/TPWODL
- c) Invoice in duplicate
- d) Packing list
- e) Drawings
- f) Delivery Challan
- g) Installation and maintenance Manual soft copy for all components
- h) Other Documents (as applicable)

10. INSPECTION AFTER RECEIPT AT STORES/SITE

The material received at TPCODL/TPNODL/TPSODL/TPWODL Store/Site will be inspected for acceptance and shall be liable for rejection if found different from the reports

of the pre-dispatch inspection. If any deviation or anomaly observed at this stage same need to be rectified by bidder at bidders own cost at earliest.

11. GUARANTEE

Bidder shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under this contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Purchaser up to a period of at least 12 months from the date of commissioning or 24 months from the date of last supplies made under the contract whichever is earlier. Bidder shall be liable to undertake to replace/rectify such defects at its own costs, within mutually agreed time frame, and to the entire satisfaction of the Purchaser, failing which the Purchaser will be at liberty to get it replaced/rectified at Bidder's risks and costs and recover all such expenses plus the Purchaser's own charges (@ 20% of expenses incurred), from the Bidder or from the "Security cum Performance Deposit" as the case may be.

12. PACKING

Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit. The packing should be in such manner that during storage and its components should not be damaged. No single use plastic to be used in packing material. Packing should be done with environment friendly recyclable materials

13. TENDER SAMPLE

Bidder shall submit the sample of material with the offer (in case of first supply to TPCODL/TPNODL/TPSODL/TPWODL).

14. QUALITY CONTROL

The bidder shall submit with the offer, 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 TPCODL/TPNODL/TPSODL/TPWODL's or its nominated representative engineer shall have free access to the manufacturer/sub-supplier's works to carry out inspections. To ensure proper operation of Product the bidder shall provide onsite training of TPCODL/TPNODL/TPSODL/TPWODL teams as and when required. To ensure quality of installations bidder shall provide supervision support during impartation.

15. MINIMUM TESTING FACILITIES

Bidder shall have adequate in-house testing facilities for carrying out all routine tests &

acceptance tests as per relevant International / Indian standards.

16. MANUFACTURING ACTIVITIES

The bidder shall get the approved drawing and GTP before start of manufacturing activity. The successful bidder will have to submit details of the offered design & components for approval as per specification. CAT-A/CAT-B is mandatory to start manufacturing.

17. SPARES, ACCESSORIES AND TOOLS

Not applicable.

18. DRAWINGS AND DOCUMENTS

Following documents to be submitted along with the bid for evaluation:

- Completely filled-in clause wise compliance of this specification.
- Signed and stamped copy of drawing
- Complete Type test reports
- Completely filled signed and stamped copy of tender document.
- Any other requisite document
- Experience List.

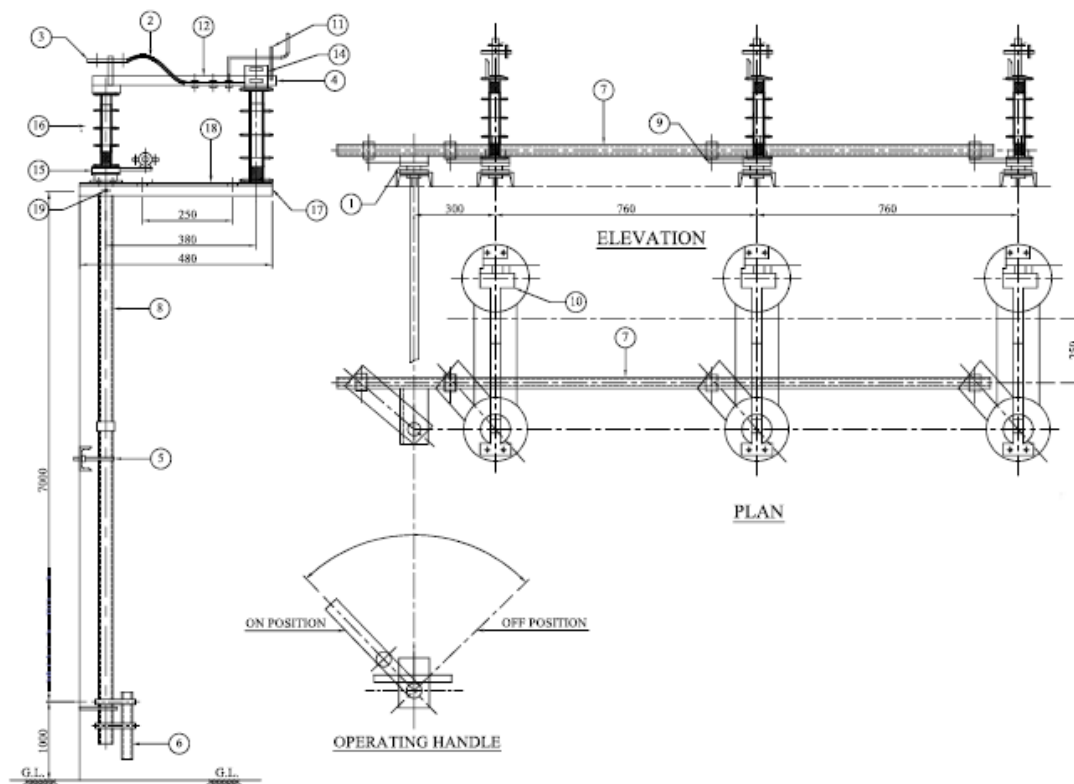
Following documents shall be submitted after award of RC/PO before manufacturing:

- Completely filled-in clause wise compliance of the specification.
- Signed and stamped copy of GA drawing
- Signed and stamped copy of installation drawing
- Compliance of all undertaking submitted during technical evaluation, if any
- Type test Certificates for each specified test if not submit during technical evaluation

Following Drawings/Documents shall be submitted after the award of the contract.

S. No	Description	For Approval	For Review Information	Final Submission
1	Technical Parameters	√		√
2	Manual/Catalogues/drawings for all components.		√	
3	Technical details and test certificates.		√	√
4	Installation Instructions		√	√
5	Transport/shipping dimension drawing		√	√
6	QA & QC Plan	√	√	√
7	Routine, Acceptance and Type test Certificates	√	√	√

All the Documents and Drawings shall be in English Language.



Indicative drawing of 11 KV 400 A and 200 A AB Switch

19. GUARANTEED TECHNICAL PARTICULARS

Completely filled-in clause wise compliance of this specification along with bid.

20. 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