

West Bengal State Electricity Distribution Company Limited

(A Government of West Bengal Enterprise)

Registered Office:
Vidyut Bhavan, Block – DJ
Sector-II, Bidhannagar
Kolkata-700091
CIN – U40109WB2007SGC113473



Division Office: Buniadpur Division
Power House Campus, Buniadpur,
Dist-Dakshin Dinajpur,
Pin- 733121.
E Mail- dm.buniadpur@wbasedcl.in

NOTICE INVITING e-TENDER

NIT No.: DM/BNDP/e-Tender/26-27/ 91

Date: 14.10.2026

Online item rate e-Tender in two part for the under mentioned works are invited by the Divisional Manager, Buniadpur Division, through e-tendering from genuine manufacturers and suppliers only for manufacture, testing, supply and delivery of the following items as per schedule detailed below:-

Sl.No	Name of the work	Estimated Tendered Amount (Rs.)	Qty	Completion Time	Earnest Money Deposit (EMD) 2% of the Estimated Tender Amount (Rs.)
1	H/W SINGLE TNS WOLF-COMP DEAD END&JUMPER (M code- 0504010332)	₹ 11,14,100.00/-	1300 nos.	30(Thirty)days from date of issueof LOA/ Order.	₹ 22,282.00/- (Rupees Twenty two thousand two hundred Eighty two only)

N.B:- Offered quantity shall not be less than the minimum quantity as specified above withinstipulated delivery period.

- Intending bidders desirous of participating in the tender are to log on to the website <http://www.wbtenders.gov.in> for the tender. Bidders willing to take part in the process of e-tendering are required to obtain Digital Signature Certificate (DSC) in the name of person who will sign the tender, from any authorized certifying Authority (CA) under CCA, Govt. of India. After obtaining DSC from the approved Certifying Authority they are required to register the fact of possessing the Digital Signature Certificates through the registrationsystem available in the website.
- Tenders will be submitted online and intending bidders are to download the tender documents from the website stated above, directly with the help of the e-token provided. This is the only mode of collection of tender documents. Details of submission procedure are given in "Instructions to Bidders"

Terms and conditions:-

1. Earnest Money (EMD):

The following points shall be included in NIT floated through e-tender website:

- A bidder desirous of taking part in a tender invited by Officers of WBSEDCL shall loginto the e-Procurement portal of Government of West Bengal <http://wbtenders.gov.in> using his login Id and password.
- The bidder shall select the tender to bid and initiate payment of EMD. Following payment options are available for paying EMD amount through online mode:-
 - Net-banking through payment Gateway.
 - RTGS/NEFT Payment: - On selection of RTGS/NEFT as the payment mode, the e- Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction. The bidder will print the challan and use the prefilled information to make RTGS/NEFT payment using his bank account. Once the paymentis made, the bidder will come back to the e-procurement portal to continue the bidding process after expiry of a reasonable time to enable the RTGS/NEFT processto be completed.
- General Instruction for Online Payment:-
 - The bidder will have to mandatorily pay through Net-banking facility once Net-banking mode is opted for payment.
 - Status of NEFT/RTGS payment through Challan for a bid may take time for bank settlement which is updated in 24 Hrs. (approx.). As such bidders opting to pay through NEFT/RTGS mode shall make payment well before 24 Hrs. to avoid any complicity.
 - In case actual EMD amount as per NIT is more than the one shown in E-tenderPortal, bidders will have to opt for NEFT/RTGS mode (challan mode). In that case the total actual EMD amount is to be paid only through NEFT/RTGS mode (challan mode).
 - The bank account used for payment of EMD by the bidders shall be maintained operative until the completion of tendering process. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD has been initiated.

(d) Refund /Settlement of EMD Amount:-

- For unsuccessful bidders, EMD amount submitted against the tender shall be refunded automatically,

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through an automated process, by NIC portal on receipt of updated status of any bid.

- For successful bid(s), EMD will be refunded from WBSEDCL authority after completion of tendering process and following due procedures.
- The bank account used for payment of EMD by the bidders shall be maintained operative until the completion of tendering process. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD has been initiated.
- For any queries related to payment and refunds, bidders will have to communicate with ICICI Customer Support, viz, 033-40267512/13 since payment gateway facility used by E-tender portal is maintained by ICICI.

2. The bidder must be a manufacturer/Supplier of aforesaid material.

3. **The bidder must have supplied** the material of same nature to WBSEDCL/other power utilities/other govt. departments during any one of the financial year out of the immediate past three financial years. Bidders shall submit copies of orders executed successfully for the relevant years and abstract thereof to prove the quantity as supplied.

4. **No agent** is allowed to participate in the tender except original manufacturers/ suppliers. Sub-letting of contract will not be allowed.

5. **Security Deposit:** In respect of successful Bidder, the Earnest Money after acceptance of Tender shall be converted as a part of the Security Deposit.

6. **WBSEDCL** reserves its right to take decision keeping its financial interest. The Purchase Policy of WBSEDCL along with the provision of Vendor Rating and Holiday listing, as effective from 01.09.2012 and subsequent amendment effective from 18.03.2013 will be applicable.

7. The offer shall remain valid for a minimum period of 120 days from the next day of opening of the tender.

8. At the time of placing purchase order, the quantity mentioned in the Tender Document may vary up to $\pm 10\%$.

9. Any evidence of unfair trade practices including over charging, price fixing, cartel etc. as

defined in various statutes, will automatically disqualify the bidders.

10. WBSEDCL is not bound to accept the lowest tender and reserves the right to cancel any or all the tenders unilaterally.

11. Any bidder against whom FIR /complaint is lodged with Police by WBSEDCL shall not be eligible to participate in the bidding process.

a. Inspection and Sample approval - The successful bidder shall be intimated by the Controlling officer for submission of the sample for inspection and approval by the sample approval committee. Please note that the schedule should be prepared in such a way so that the materials, after being approved should be delivered within the timeframe mentioned in the NIT. According to the program the successful bidder shall arrange for submission of the sample at their own expense and in presence of the representative of WBSEDCL not below the rank of Jr. Engg.(E) Grade - II. If any material is found broken or damaged during inspection shall be considered as rejected. Intimation with respect to the approval of sample approval shall be issued by the Controlling Officer on the basis of the report submitted by the Sample Approving Committee

12. **Despatch:** The supplier after receiving despatch clearance from the respective authority/ purchaser shall deliver the equipment / materials suitably packed to the store located under WBSEDCL as instructed.

13. **Payment terms:** Work-order and payment of work will depend on availability of fund. Intending bidders may consider this criteria while submitting the tender and quoting the rate through online.

14. **LD:** Penalty 0.143% of the contract value of the works for each calendar day of delay, subject to a maximum of 10% of the contract value of the work.

15. The successful bidder has to submit guarantee certificate along with at the time of delivery of the aforesaid materials

16. Other information as well as terms and conditions, which are not covered above which will be available in Instructions to bidders, general conditions of contract of this tender and revised purchase policy of the WBSEDCL.

17. Neither prospective Bidder nor any of the constituent partners had been debarred to participate in any Tender by any Government Department/Semi-Govt./Govt. Undertakings/ Enterprise etc during the last 5 (five) years prior to the date of this NIT. Such debarment will be considered as disqualification towards eligibility. **(A declaration in this respect has to be furnished by the prospective bidders).** [Non-statutory Documents]

18. No conditional / Incomplete Tender will be accepted under any circumstances.

The **FINANCIAL OFFER** of the prospective bidder will be considered only if the **TECHNICAL BID** of the Bidder is found qualified by the WBSEDCL. The decision of the WBSEDCL will be final and absolute in this respect. The list of Qualified Bidders of Technical Bid will be displayed in the website

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19. No mobilization advance and secured advance will be allowed.
20. All categories of prospective bidders shall have to submit valid copies of PAN Card, IT Returns for last three years, Trade License and GSTIN.
21. The supplied materials to be delivered at Buniadpur Divisional store under Buniadpur Division, Power House Campus, Buniadpur, Dakshin Dinajpur-733121. No extra delivery charge is to be paid.
22. Date and Time Schedule:

Sl.No	Particulars	Date & Time
1.	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	14.10.2026 at 16:00Hrs
2.	Documents download/sell start date (Online)	14.10.2026 at 16:00Hrs
3.	Bid submission start date (On line)	14.10.2026 at 16:00Hrs
5.	Documents download End Date.	28.10.2026 at 17:00Hrs
7.	Bid Submission closing date (On line)	28.10.2026 at 17:00Hrs
8.	Technical Bid opening date (Online)	29.10.2026 at 15:00Hrs 17:00hrs
9.	Date of uploading list for Technically Qualified Bidder(online)	To be intimated later
10.	Financial Bid opening Date (Online)	To be intimated later

23. Any further information may be had from the website: www.wbasedcl.in and the following office:

Office of the Divisional Manager,
Buniadpur Division,
W.B.S.E.D.C.L.
Power House Campus,
Buniadpur
Dist-Dakshin Dinajpur. Pin-
733121.

(J Panda)

Divisional Manager
Buniadpur Division
WBSEDCL

INSTRUCTION TO BIDDERS

SECTION - A

1. General guidance for e-Tendering:

Instructions / Guidelines for electronic submission of the tenders online have been annexed for assisting the bidders to participate in e-Tendering.

2. Registration of Bidder:

Any bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System of West Bengal, through logging onto <http://www.wbtenders.gov.in> (the web portal) the contractor is to click on the link for e-Tendering site as given on the web portal.

3. Digital Signature certificate (DSC):

Each bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated in Clause 2 above. DSC is given as a USB e-Token.

4. Downloading of Tender documents:

The bidder can search & download N.I.T. & Tender Document(s) electronically from computer once he logs on to the website mentioned in clause 4 using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

5. Participation in more than one work:

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job.

6. Submission of Tenders:

General process of submission: Tenders are to be submitted online to the website stated in Cl. 4 above. All tenders shall be of two part bids: (a) Techno-Commercial Bid and (b) Price Bid, which are to be submitted in separate Sealed Covers. The Bids shall be in triplicate.

A. Technical proposal

The Technical proposal should contain scanned copies of the following in three covers (folders).

A-1. Statutory Cover: Containing two covers (folders)-(a) NIT (b) Annexure/forms.

(a) **NIT folder** containing Downloaded and uploaded copies (Digitally Signed) of the following:-

(i) NIT, General conditions of contract and specification for works

(b) **Annexure/Forms Folder** containing

i. Undertaking by the bidder (Annexure-I)

ii. Letter of Bid for the work (Annexure-II)

iii. Declaration regarding up-to-date GST return filing

A-2. Non statutory cover containing

i) **Current Professional Tax (PT) Declaration of up-to-date GST return, Payment certificate filing and GST payment, Goods and Service Tax Registration no. , PAN Card, Income Tax Return for last three Assessment Years i.e. 2025-26, 2025-24, 2024-23 and Trade License in respect of the prospective Bidder.**

ii) Credential of at least one similar nature of work under State/Central Government, State/Central Government undertaking, Statutory Bodies constituted under the statute of Central/State Government in a single contract in last three years. Scanned copy of Work Order and completion certificate, as stated in 3(i) of e-NIT.

Financial Proposal (in one cover/folder) it contains Bill of Quantities (BOQ). The rate to be quoted in the BOQ on "Item Rate" in the space marked for quoting rate. Quoted rate will be encrypted in the B.O.Q. under Financial Bid.

Note: -Failure of submission of any of the above mentioned documents (as stated in A1 and A2) will render the tender liable to summarily rejected for both statutory & non statutory cover.

THE ABOVE STATED NON-STATUTORY/TECHNICAL DOCUMENTS SHOULD BE ARRANGE IN THE FOLLOWING MANNER

"Click" the check boxes beside the necessary documents in the „My Document“ list and then "click" the tab "Submit Non Statutory Documents" to send the selected documents to Non-Statutory folder. Next Click the tab "Click to Encrypt and upload" and then click the "Technical" Folder to upload the Technical Documents (Statutory documents).

SI No.	Category Name	Sub CategoryDescription
1.	Company Details:	Proof of Original Equipment Manufacturer.
2.	Certificates	1) PAN Card details. 2) Current Professional Tax (PT) submission Challan. Application for such Addressed to the competent authority may also be considered. 3) GSTIN registration certificate. 4) Last three years IT Return Acknowledgement 5) Trade License 6) Banker's certificate is to be addressed to the Chief Engineer, P&C Department or in a generalized format regarding financial capability issued within last one year from the date of opening of tender. 7) MSME Certificate, if any. 8) Exemption Certificate, if any, issued by any competent authority.
3.	Financial Info	Annual turnover for a period of the last three financial years
4.	Credential	Material Supply Credential: The bidder must have successfully supplied the tendered items to WBSEDCL / other Power Utilities / Govt. Departments within the last three financial years. The bidder must submit at least one single Purchase Order delivering not less than the minimum quantity specified in this tender for the respective item, supported by signed Store Challans / Store Receipt Vouchers (SRV), Inspection Clearance, and Dispatch Instructions.

***Technical Specification has been attached with this NIT.

A. Technical Proposal

- i. Opening of Technical Proposal: - Technical proposals will be opened by authorized Representatives of WBSEDCL from the web site stated using their Digital Signature Certificate.
- ii. Intending tenderers may remain present if they so desire.
- iii. Cover (folder) statutory documents will be opened first & if found in order, cover (Folder) for non-statutory documents will be opened. If there is any deficiency in the statutory documents the tender will be summarily rejected
- iv. Decrypted (transformed in to readable formats) documents of the non statutory cover will be downloaded & handed over to the authorized representative of WBSEDCL
- v. Uploading of summary list of technically qualified tenderers:
 - a. Pursuant to scrutiny & decision of the authorized representatives of WBSEDCL the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.
 - b. While evaluation the authorized representatives of WBSEDCL may summon any of the tenderer & seek clarification / information or tenderer/s may be asked for producing original hard copy/s of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

B. Financial proposal

- i) The financial proposal should be one cover (folder) containing bill of quantities (BOQ) the contractor is to quote the rate (Item rate basis) online in the space marked for quoting rate in the BOQ.
- ii) Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor.

7. RESPONSIBILITY OF BIDDERS

- a. WBSEDCL will not assume any responsibility regarding information gathered, interpretations or conclusions made by the bidder or regarding information, interruption or deductions the bidder may derive from the data furnished by the WBSEDCL. Verbal agreement or conversation with any officer, employee of WBSEDCL either before or after the execution of the contracts, shall not affect or modify any of the terms or obligations contained in the contract.
- b. It shall be the responsibility of the bidders to determine and to satisfy themselves by such means as they consider necessary or desirable as to all matters pertaining to this contract including in particular all factors that may affect the cost, duration and execution of the works. It must be understood and agreed that such factors have properly been investigated and considered while submitting the bid.

c. Claim, whatsoever, including those for financial adjustment to the contract awarded under these specifications and documents will not be entertained by the purchaser. Neither any change in time schedule of contract nor any financial adjustments arising thereof shall be permitted by the purchaser, which are based on the back of such clear information of its effect on the cost of the contract to the bidder.

d. The bidder is expected to examine carefully all instructions, conditions, forms, schedules terms, annexure, specifications and drawings in the bidding document. Failure to comply with the requirements of bid submission will be at the bidders' own risk. Bids, which are determined to be not substantially responsive to the requirement of the bidding document, will be rejected.

8. COST OF BIDDING

The bidder shall bear all cost associated with the preparation and submission of their bid and WBSEDCL in no case shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

9. CLARIFICATION OF BIDDING DOCUMENT

Should there be any discrepancy or obscurity in the meaning of any clauses of the bid document or if there be any query of the intending bidder, the bidder shall set forth in writing such discrepancies, doubt, obscurity or queries and submit the same to WBSEDCL, marked to **the Divisional Manager, Buniadpur Division, WBSEDCL, Power House Campus, Dakshin Dinajpur- 733121** within the date specified for this purpose. The clarification given in the pre-bid discussion shall be final and binding on the bidder.

10. BID PRICES

a. The bidder shall quote their price in the appropriate format in item rate.

b. The quoted price should be firm. There will be no price variation during the pendency of the contract period or thereafter. Bidders are in no way allowed to get any escalation of price against this contract.

c. Prices indicated in the schedule of prices deemed to include all the Levies/duties/taxes/cess & all other incidentals payable as per statute but excluding GST shall be paid extra as per statute.

11. REFUND OF EARNEST MONEY DEPOSIT(EMD):

The earnest money shall be retained initially for all bidders. Refund of earnest money of the unsuccessful bidders shall be made immediately after finalization/placement of order.

In respect of successful Bidder, the Earnest Money after acceptance of Tender shall be converted as a part of the Security Deposit. Balance of necessary Security Deposit shall be submitted within 07 days from the acceptance of the LOA, as Demand Draft / Pay Order issued from any nationalized bank in favour of the "West Bengal State Electricity Distribution Company Limited", payable at Buniadpur considering that the total amount of Security Deposit is equivalent to 10% (Ten percent) of the value of the order.

12. REFUND OF SECURITY DEPOSIT:

The Security Deposit shall be released after satisfactory completion of Guarantee Period.

13. PROCESS TO BE CONFIDENTIAL:

13.1 After the opening of bids, information relating to the examination, clarification, evaluation and comparison of bids, and recommendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.

13.2 Any effort by a bidder to influence WBSEDCL or other connected in the process of examination, clarification, evaluation and comparison of bids, and in decisions concerning the award of contract, may result in the rejection of his/their bid.

14. TIME SCHEDULE

The basic consideration and the essence of the contract shall be the strict adherence to the time schedule specified in the NIT.

15. EVALUATION AND COMPARISON OF BIDS

15.1 On examination of document submitted under different covers WBSEDCL will evaluate and compare the bid, determined to be substantially responsive at each step.

15.2 Evaluation of bid will include and will take into account:

15.2.1 Cost of construction/erection including taxes & duties etc.

15.2.2 The owner shall evaluate and compare only the bids determined to be substantially responsive.

15.2.3 The bids shall be evaluated on the basis of total price for the entire scope of work covered under this bid document.

15.2.4 Evaluated bid price of all bidders shall be compared among themselves to determine the lowest evaluated bid and as a result of this comparison, the lowest bid will be selected for award of contract.

15.2.5 Conditional rebate, if any, offered by any bidder shall not be considered in bid evaluation.

16. TAXES, DUTIES AND OTHER LEVIES

a. The contractor shall be solely responsible for the taxes that may be levied on the contractor's persons or on earnings of any office employee and shall hold the purchaser indemnified and harmless against any claims that may be made against the purchaser. The purchaser does not take any responsibility whatsoever regarding taxes under Indian Income Tax Act, for the contractor or his personnel. If it is obligatory under the provisions of Indian Income Tax Act, deduction of Income Tax at source shall be made by the purchaser.

b. All other taxes/duties/levies/cess payable (excluding GST) by the bidder shall be included in the bid price and no claim on this behalf will be entertained by the owner.

17. LAWS GOVERNING CONTRACT

The contract shall be construed according to acts/laws in force in the country and shall be under the jurisdiction of Calcutta High Court.

18. LANGUAGE AND MEASURES

All documents pertain to the contract including specifications, schedule, notice, correspondences, operating and maintenance instructions, drawings or any other writings be written in English language. The metric system of measurement shall be used exclusively in this contract.

19. CORRUPT OR FRAUDULENT PRACTISE

WBSEDCL expects that bidders/contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the owner defines for the purpose of this provision, the terms set forth below as follows:

19.1 **"Corrupt practice"** means the offering giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution, and

19.2 **"Fraudulent Practice"** means misrepresentation of facts in order to influence procurement process of the execution of a contract to the detriment of the owner, and includes collusive practice among bidders (Prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the owner of the benefits of free and open competition.

19.3 WBSEDCL Will reject a proposal for award if the owner determines that the bidder recommended for award has engaged in corrupt or fraudulent practice in competing for the contract in question.

19.4 Will declare a Firm ineligible either indefinitely or for a stated period of time if owner anytime determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

20. INSURANCE

The successful bidder on awarding of contract shall arrange, secure and maintain all insurance as may be pertinent to the work and obligatory in terms of law to protect the interests of WBSEDCL against all perils. The form & the limit of such insurance together with underwriting in each case shall be acceptable to WBSEDCL. However, irrespective of such acceptance the responsibility to maintain adequate insurance coverage at all times during the period of contract shall be bidder's alone.

21. CORRECTNESS AND SUFFICIENCY OF RATES QUOTED IN THE TENDER

The bidder shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for work and the rates and prices stated in the schedule of works. The rates and price quoted shall cover all obligation of the bidder under the contract and all materials, labour etc. necessary for proper completion and maintenance of the work.

22. Penalty for suppression / distortion of facts

If any Bidder fails to produce the original hard copies of the documents (especially Completion Certificates and audited balance sheets), or any other documents on demand of the Tender Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies or if there is any suppression, the tender committee will take actions deem fit against such defaulting Bidder.

The Employer reserves the right to accept or reject any Bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Employer's action.

23. AWARD OF CONTRACT

The Bidder who's Bid would be accepted will be notified by the authorized official through acceptance letter/Letter of award. The notification of award will constitute the formation of the Contract. The Agreement as per enclosed format in G.C.C. will incorporate all agreements between the Tender Accepting Authority and the successful bidder. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents.

24. AMENDMENT OF BIDDING DOCUMENTS

a. At any time prior to the deadline for submission of bids, WBSEDCL may, for any reason whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by issuing amendments. Any such amendment shall be part of the bidding document.

b. Such amendment(s) will be published on the same website mentioned above. Owner will bear no responsibility or liability arising out of non- pursuance of the same in time or otherwise by the bidder. In order to afford prospective bidders reasonable time in which to take the amendment in to account in preparing their bids, the owner may, at its discretion, extend the deadline for submission of bids. Such amendments, clarification etc. shall be binding on bidders and will be given due consideration by the bidders while they submit their bids and invariably enclose such documents as a part of the bids.

25. PAYMENT:

100 % (hundred percent) payment against GST invoice in triplicate will be made after making deductions, if any. Bills shall be submitted along with Store Receipt Voucher, original receipted challan, Guarantee certificate Consignment note/e-way bill as per GST Statute and other relevant documents reference to be indicated in the Bill. The Bills completed with all documents will have to be submitted by the successful bidder to the Controlling Officer.

26. GOODS & SERVICES TAX(GST):

GST at prevailing rate will be paid extra.

27. PAYING OFFICER:

The Asst Manager (F&A), Buniadpur Division, WBSEDCL will be the Paying Officer for this work.

28. CONTROLLING OFFICER:

The *Divisional Manager, Buniadpur Division, WBSEDCL* shall be the Controlling Officer for the above mentioned work.

29. _ CONSIGNEE OFFICER:

Store- In- Charge, Buniadpur Division shall be the CONSIGNEE OFFICER for the above mentioned work.

30. GUARANTEE: In the event of any defect in the equipment/materials arising out of faulty design, materials, workmanship within a period of **12 (twelve)** months of commissioning from the date of last dispatch of any integral part of the equipment/materials whichever is earlier the supplier shall guarantee to replace or repair the same to the satisfaction of the purchaser. If the supplier fail to do so within a reasonable time, WBSEDCL reserves the right to effect repair or replacement by any other agency and recover charges for repair or replacement from the supplier.

31. LIQUIDATED DAMAGE FOR DELAY IN DELIVERY:

The time of delivery (successful offer for inspection) of the equipment/materials are to be treated as an essence of the

contract and the WBSEDCL reserves the right to repudiate the contract, if the equipment / materials are not offered for inspection within scheduled delivery period and physically delivered within stipulated period as per physical delivery clause. But The Divisional Manager, Buniadpur Division, WBSEDCL may at his discretion waive this condition and accept the material with imposition of liquidated damage @ **.143%** of the value of the work of the particular lot offered for every day shall-elapse between the time prescribed or extended time as the case may be and the date of physically delivery of equipment / materials subject to a maximum of **10 % (ten percent) of the particular lot and accept the goods beyond the stipulated period**. The Company may, without prejudice to any other method of recovery, deduct the amount of such damages from any money in their hand due or which may become due to the contractor and any other contract or source also. The payment for deduction of such damages shall not relieve the contractor from his obligation to delivery of equipment/ materials or from any other his obligations and liabilities under the contract.

32. LEGAL JURISDICTION:-

If any dispute or difference arises with respect to quality/quantity of the equipment/materials pertaining to this order or any other terms and conditions of the order including its execution, such dispute/difference shall be subject to settlement under the jurisdiction of Courts in Kolkata.

33. FORCE MAJEURE:-

The supplier shall be under no liability if he is prevented from carrying out any of his obligations by reason of war, invasion, act of foreign country, hostilities (whether war declared or not), riots, civil commotion, mutiny, insurrection, rebellion, revolution, accident, earthquake, fires, floods Govt. order and/or restrictions (except power supply restriction) delay or inability to obtain materials due to import or other statutory restriction and other cause beyond the reasonable control of the supplier. However, such force majeure circumstances are to be intimated immediately and to be established subsequently with proper documents/proofs to the entire satisfaction of the purchaser.

34. MANNER OF EXECUTION OF CONTRACT:

The successful bidder has to submit acceptance/written acknowledgement of the LOI / Order within **10 (Ten) days** from the date of issue of the Letter of Intent / Order. In case of non-submission of acceptance within due time be deemed as acceptance.

35. EXTENSION OF TIME:

An extension of time without imposition of liquidity damage, may be granted for delay in execution of work provided there is no fault whatsoever on the part of the contractor. Such extension may only be granted on the basis of application to be submitted timely (within schedule time of completion) by the contractor who has to establish that the extension of time required by him is not due to his fault.

36. REPEAT ORDER:

With due consent of the supplier the WBSEDCL may place repeat order within a period of six (6) months from the date of completion of delivery as per the order to cover approximately 50% of the ordered quantity on successful performance of the contract and on the need of the WBSEDCL, on the basis of existing rates, terms and conditions. The repeat order may also be placed within one year from the date of issuance of original order subject to successful completion of delivery as per the order to the extent of at least 75% of the quantity ordered.

37. RISK PURCHASE:

The time of delivery (offer for inspection) or physical dispatch stipulated in the purchase order shall be deemed to be of the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the said purchase order/contract/letter of intent, the purchaser shall be entitled to purchase such consignment or if not available, the best and nearest available substitute elsewhere on the account and at the risk of the supplier or to cancel the contract and the supplier shall be liable to compensate for any loss or damage which the purchaser may sustain by

reason of such failure on the part of the supplier. The Company at its discretion may not issue subsequent tender if earlier Purchase Order against earlier tender is not executed fully. If there is a failure to execute the contract fully, WBSEDCL reserves the right forfeit Earnest Money deposit/cash security to the extent of loss so suffered by the WBSEDCL on risk purchase or otherwise, and may deduct the additional amount, if any, so incurred by the Company from other claim / bill lying with the WBSEDCL.

38. CANCELLATION / TERMINATION OF ORDER (if placed):

The time period for effecting complete supply and delivery of the above materials/equipment as indicated through the delivery schedule enclosed shall have to be treated as the essence of the contract. The Company reserves the right to repudiate the contract if the above period is not strictly adhered to. In the event of failure in effecting the desired supply and delivery of the above equipment/materials within above stipulated due date as incorporated through the schedule enclosed, the above order may be cancelled on submission of necessary notice in this regard and fresh order may be placed on the next higher bidder or on any other bidder, as a result of which the extra cost thus liable to be incurred shall be realized from the original supplier's pending bills which may be lying with the WBS&EDCL.

ANNEXURE –I

LETTER HEAD OF THE BIDDER

PROFORMA FOR UNDERTAKING TO BE SUBMITTED BY THE BIDDER (For genuineness of the information furnished on-line and authenticity of the documents produced before Tender Committee for verification in support of his eligibility)

....., Partner/Legal Attorney/Accredited
representative of M/S.....
-, solemnly declare that:

We are submitting Tender for the Work.....
against Tender Notice No.....dt.....

None of the Partners of our firm is relative of employee of ----- (Name
of the Company)

All information furnished by us in respect of fulfilment of eligibility criteria and qualification information of
this Tender is complete, correct and true.

All documents/credentials submitted along with this Tender are genuine, authentic, true and valid.

If any information and document submitted is found to be false/incorrect any time, department may cancel my Tender
and action as deemed fit may be taken against us, including termination of the contract, forfeiture of all dues including
Earnest Money and banning/delisting of our firm and all partners of the firm etc.

Signature of the Tenderer

Dated

ANNEXURE-II

Format of Letter of Bid

LETTER HEAD OF BIDDER (AS ENROLLED ONLINE ON e-tendering PORTAL OF NIC)

To
The Tender Committee

Sub : Letter of Bid for the work

Ref : 1. NIT No. dated.
Tender Id No.

Dear Sir,

We offer to execute the work as per our offered bill of quantity in accordance with the conditions of the NIT document as available in the website. The details of the EMD being submitted by us has been furnished online.

This Bid and your subsequent Letter of Acceptance/Work Order shall constitute a binding contract between us.

We hereby confirm our acceptance of all the terms and conditions of the NIT document unconditionally.

Signature of the Tenderer

TECHNICAL SPECIFICATION FOR TENSION HARDWARE FITTINGS COMPRISING OF CROSS-ARM STRAP, BALL CLEVIS & SOCKET CLEVIS/SOCKET TONGUE AND DEAD END CLAMP (COMPRESSION TYPE) TO BE USED IN 33KV LINE WITH 70KN B&S TYPE DISC INSULATOR.

1.0 SCOPE:

- i) The Specification covers the design, manufacture, testing (preferably at manufacturer's works before supply) and delivery of the combined Unit of Cross Arm Strap, Ball Clevis & Socket Clevis/Socket Tongue and compression type dead end Clamp (Composite Hardware Fittings) including loading, unloading anywhere in West Bengal.
- ii) The combined units offered shall be complete with all components which are necessary (excepting disc insulator) or usual for their effective performance and easy maintenance and inter changeability at site. Such parts shall be deemed to be within the scope of contract.
- iii) **The set is to be used in 33 KV line with 70 KN B&S type Disc Insulator for ACSR Wolf Conductor.**
- iv) **The set is also be used in 33 KV Sub-Station with 70 KN Disc Insulator for ACSR Panther Conductor.**

2.0 GENERAL REQUIREMENTS:

- i) Ball designation should be 16 mm.
- ii) The Fittings shall be free from defects, corrosion protected and shall meet the requirements of Galvanizing Test etc as per IS.
- iii) All forging and casting shall be of good finish and free from flaws and other defects. The edges of the fittings such as the tongue, Clevis and holes shall be rounded.
- iv) **All parts of different fittings which provide the interconnection shall be made such that sufficient clearance is provided at the connection point to ensure free movement. All tongue and clevis connection shall be free in this manner but care shall be taken that too much clearance between Eye and the tongues of the Clevis is avoided.**

- v) **Spring washer should be electro galvanized-Coating thickness as per IS: 1573-1986.**

U bolt, Hexagonal Bolt, Nut, Plain washer and all other ferrous parts shall be Hot dip Galvanized. In case of Hot Dip Galvanization, minimum value or average mass of Zinc coating (g/m^2) should be as per Table 1 of IS 4759 for different classes of materials.

The Split Pin/Cotter Pin to be used shall be Humpback type & shall be made of Stainless Steel conforming to IS: 5522-1992 with a minimum hardness of 160HV.

Locking device (R type) for Ball and Socket Lockers shall be of Stainless Steel conforming to IS 6603-1972 with minimum hardness of 160HV. The dimension shall conform to IS: 2486 (Part 3)-1974.

3.0 STANDARDS:

The materials covered under this specification shall comply with the requirements of the latest version of the following standards as amended up to date, except where specified otherwise.

i)	IS:2486 (Part I):1993	Specification for metal fittings of insulators for overhead power lines with nominal voltage greater than 1000 V
ii)	IS :2486 (Part II):1989 IS:2486 (Part III)-1974	Specification for Insulator fittings for over head power lines with nominal voltage greater than 1000 V
iii)	IS:4759:1996	Specification for hot-dip zinc coatings on structural steel and other allied products
iv)	IS:6745-1972	Method for determination of mass of zinc coating on zinc coated iron and steel articles
v)	IS:1573-1986	Specification for electroplated coatings of zinc on iron and steel
vi)	IS:2629-1985	Recommended Practice for hot dip galvanizing of iron & Steel
vii)	IS:2633-1986	Method for testing uniformity of coating on zinc coated articles

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4.0 **MATERIALS AND OTHER REQUIREMENTS:**

CROSS-ARM STRAPS (fig-1) (For Tender Purpose):

Cross-arm straps shall be manufactured from **MS Flat hot dip galvanized** and to connect the cross-arm/bracket of the structure at one end and the Ball Clevis at the other end.

It should be complete with **hexagonal bolts, nuts, spring washers and cotter pin at the threaded end to lock the unit.**

Minimum Threaded portion of the bolt shall be **30mm.**

CROSS-ARM STRAPS to be used for	Ultimate tensile strength(minimum)
ACSR Wolf/Panther Conductor	70 KN

Dimensions shall be in accordance with IS: 2486 (Part-2) unless otherwise specified.

BALLCLEVIS (fig-2) & SOCKET CLEVIS/SOCKET TONGUE (fig-3) (For Tender Purpose):

All **forgings** shall be of good finish and free from any flaws and any other defects which may cause decrement of efficiency while in operation. Connection/attachment with other component of the unit shall provide reasonable clearance/ensure free movement at the connecting/attaching point. **Care should be taken to avoid too much clearance while used with insulators.**

Materials for **Ball Clevis & Socket Clevis/ Socket Tongue** should be as stated below:-
Ball clevis - Forged Steel and hot dipped galvanised.

Socket Clevis/ Socket Tongue - Forged Steel and hot dipped galvanised

BALL CLEVIS & SOCKET CLEVIS/TONGUE to be used for	Ultimate tensile strength(minimum)
ACSR Wolf/Panther Conductor	70 KN

All dimensions of Ball Clevis & Socket Clevis/ **Socket Tongue** shall be in accordance with IS: 2486 (Part-2) unless otherwise specified.

DEAD END CLAMP (COMPRESSION TYPE) & JUMPER CONE:

(fig. 4 for ACSR Wolf conductor & Fig 5 for ACSR Panther Conductor)(For Tender Purpose):

The dead end clamps shall be suitable for supporting ACSR Conductor. The Clamp comprises of outer sleeve and inner sleeve. **Outer Sleeve & Jumper Cone shall be made of EC grade Aluminium. The inner Sleeve is Steel Sleeve & shall be made by Forged Steel.** The steel sleeve of dead end clamp shall be single piece obtained by process of drop forging and shall not be made by joining, welding, shrink fitting or any other process for more than one piece of material.

The steel sleeve shall be hot dip galvanized.

The part for main conductor to be tension joint at rated tension and for jumper part it is to be non-tension type.

The dead end clamp shall be compression type with provision for compressing jumper terminal at one end. A tensile load of about 50% of the breaking load of the conductor shall be applied and the conductor shall be marked in such a way that movement relative to the clamp can be detected. Without subsequent adjustment of the clamp, the load shall be steadily increased to 95% then reduced to 90% of the breaking load of the conductor and maintained for one minute. There shall be no movement of the conductor relative to the clamp during this one minute period and no failure of the Clamp. The conductivity of the clamp shall not be less than that of conductor.

Compression zone as well as Non-Compression zone shall be clearly marked on each dead end clamp.

5.0 **MARKING:**

Combined unit shall be legibly & indelibly marked with **Name and/or Trade mark of manufacturer, Month and year of manufacture (MM/YY), 70 KN and suitable identification marking of the property 'WBSEDCL'.** The marking should be engraved/embossed.

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6.0 **TESTS AND TEST CERTIFICATES:**

Type Test

Along with the bid, the bidder has to submit Type Test Reports on same fittings carried out within last five years from the date of opening of techno-commercial bid of the tender from any NABL accredited Laboratory having NABL logo. Otherwise the tender may be rejected.

The following shall constitute the **Type Test for Dead End Clamps (Compression type)**

1. Visual Examination
2. Verification of dimensions
3. Mechanical Test-As per IS : 2486 (Part-I)
4. Ultimate Tensile Strength Test
5. Electrical Resistance Test-As per IS: 2486 (Part-I)
6. Heating Cycle Test-As per IS: 2486 (Part-I)
7. Galvanizing/Electroplating Test (for ferrous parts)

The following shall constitute the **Type Test for Jumper Cone**

1. Visual Examination
2. Verification of dimensions
3. Electrical Resistance Test-As per IS : 2486 (Part-I)
4. Heating Cycle Test-As per IS:2486 (Part-I)
5. Galvanizing/Electroplating Test (for ferrous parts)

The following shall constitute **Type Tests on tension hardware fittings except Clamp:**

1. Visual Examination
2. Verification of dimensions
3. Mechanical Test
4. Galvanizing Test
5. Chemical Composition

ACCEPTANCE TEST

The following shall constitute **acceptance test for Dead End Clamps (Compression type):**

1. Visual Examination
2. Verification of dimensions
3. Mechanical Test (Slip Strength Test)
4. Ultimate Tensile Strength Test
5. Galvanizing Test(for ferrous parts)
6. Chemical Composition Test
7. Electrical Resistance Test

Acceptance Test for tension hardware fittings except Clamp:

1. Visual Examination
2. Verification of dimensions
3. Ultimate Tensile Strength Test
4. Galvanizing Test
5. Chemical Composition Test

7.0 **TOLERANCE: Tolerance shall be as per IS: 2486 (Part-I).**

8.0 **GUARANTEE:**

In the event of any defect in the equipment/materials arising out of faulty design, materials, workmanship **within a period of 12(twelve) months of commissioning or 18 (eighteen) months from the date of last dispatch of any integral part of the equipment/materials whichever is earlier**, the supplier shall guarantee to replace or repair the same to the satisfaction of the purchaser. If the supplier fail to do so within a reasonable time, WBSEDCL reserves the right to effect repair or replacement by any other agency and recover charges for repair or replacement from the supplier.

9.0 **SUBMISSION OF DRAWING:**

Along with tender document, the tenderer must submit drawing in line with tender specification which will be used for bid evaluation purpose.

The drawing in line with tender specification shall also to be submitted within ten days from the next date of issuance of Purchase Order for approval. Any Delay in submission of drawing beyond the above stipulated period will be their own cost.

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GUARANTEED TECHNICAL PARTICULARS

FOR TENSION HARDWARE FITTINGS COMPRISING OF **G.I. CROSS-ARM STRAP, BALL CLEVIS & SOCKET CLEVIS/SOCKET TONGUE AND DEAD END CLAMP (COMPRESSION TYPE)** TO BE USED IN 33 KV LINE WITH 70 KN B&S TYPE DISC INSULATOR FOR WOLF CONDUCTOR :

1.	Name & Address of the Firm	
2.	Type of Insulator Fittings	B&S type
3.	Ball Designation	16mm
4.	Ultimate Tensile Strength	
a)	Dead end Clamp (Compression type)	70KN
b)	Complete Fittings	70KN
5.	Material used	
a)	Cross arm Strap	Mild Steel, hot dip galvanized
b)	Ball Clevis	Forged Steel and hot dipped galvanized
c)	Socket Clevis/Socket Tongue	Forged Steel and hot dipped galvanized
d)	Dead end Clamp (Compression type)	i) Outer Sleeve-EC grade Aluminium ii) Inner Sleeve-Forged Steel, hot dip galvanized iii) Jumper Cone & Plate -EC grade Aluminium
e)	Locking devices for ball and socket lockers	Stainless Steel conforming to IS: 6603-1972 with minimum hardness of 160 HV.
f)	Split pins/Cotter pins	Stainless Steel conforming to IS: 5522-1992 with minimum hardness of 160 HV.
g)	Rivet, Bolts & Nuts	MS, Hot Dip Galvanized
h)	Hexagonal Bolt & Nut	MS, Hot Dip Galvanized
i)	Spring Washer	Spring Steel, Electro Galvanized
j)	Plain Washer	MS Hot Dip Galvanized
6.	Zinc conforming to grade	As per IS 209: 1992
7.	Weight per set	
a)	Gross weight of complete fittings	
b)	Weight of Dead end Clamp(compression type) & Jumper Cone	
c)	Weight of Cross Arm Strap	
d)	Weight of Ball Clevis	
e)	Weight of Socket Clevis/ Socket Tongue	
f)	Weight of Nut, Bolts ,Rivet, Bolt & accessories	
g)	Minimum Guaranteed weight of Fittings	
h)	Whether galvanizing confirm to IS:2633- 1986	
8.	Packing details	
a)	Net Weight	
b)	Gross Weight	
c)	Contents of each Pack	
d)	Type of Packing	
9.	Tolerance in dimension, if any	IS:2486 Part I (Up to and Including 35mm. : ± 0.7 mm) (Over 35 mm. : $\pm 2\%$)
10.	Marking	
11.	Guarantee	

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GUARANTEED TECHNICAL PARTICULARS

FOR TENSION HARDWARE FITTINGS COMPRISING OF G.I. CROSS-ARM STRAP, BALL CLEVIS & SOCKET CLEVIS/SOCKET TONGUE AND DEAD END CLAMP (COMPRESSION TYPE) TO BE USED IN 33KV LINE WITH 70KN B&S TYPE DISC INSULATOR FOR PANTHER CONDUCTOR:

1.	Name & Address of the Firm	
2.	Type of Insulator Fittings	B&S type
3.	Ball Designation	16mm
4.	Ultimate Tensile Strength	
a)	Dead end Clamp(Compression type)	70KN
b)	Complete Fittings	70KN
5.	Material used	
a)	Cross arm Strap	Mild Steel, hot dip galvanized
b)	Ball Clevis	Forged Steel and hot dipped galvanized
c)	Socket Clevis/Socket Tongue	Forged Steel and hot dipped galvanized
d)	Dead end Clamp(Compression type)	i) Outer Sleeve-EC grade Aluminium ii) Inner Sleeve-Forged Steel, hot dip galvanized iii) Jumper Cone & Plate-EC grade Aluminium
e)	Locking devices for ball and socket lockers	Stainless Steel conforming to IS: 6603-1972 with minimum hardness of 160 HV.
f)	Split pins/Cotter pins	Stainless Steel conforming to IS: 5522-1992 with minimum hardness of 160 HV.
g)	Rivet, Bolts & Nuts	MS, Hot Dip Galvanized
h)	Hexagonal Bolt & Nut	MS, Hot Dip Galvanized
i)	Spring Washer	Spring Steel, Electro Galvanized
j)	Plain Washer	MS Hot Dip Galvanized
6.	Zinc conforming to grade	As per IS 209: 1992
7.	Weight per set	
a)	Gross weight of complete fittings	
b)	Weight of Dead end Clamp (compression type) & Jumper Cone	
c)	Weight of Cross Arm Strap	
d)	Weight of Ball Clevis	
e)	Weight of Socket Clevis/Socket Tongue	
f)	Weight of Nut, Bolts, Rivet, Bolt & accessories	
g)	Minimum Guaranteed weight of Fittings	
h)	Whether galvanizing confirm to IS:2633- 1986	
8.	Packing details	
a)	Net Weight	
b)	Gross Weight	
c)	Contents of each Pack	
d)	Type of Packing	
9.	Tolerance in dimension, if any	IS:2486 Part I (Up to and Including 35mm. : ± 0.7 mm) (Over 35 mm. : $\pm 2\%$)
10.	Marking	
11.	Guarantee	

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DRAWING

CROSS ARM STRAP:

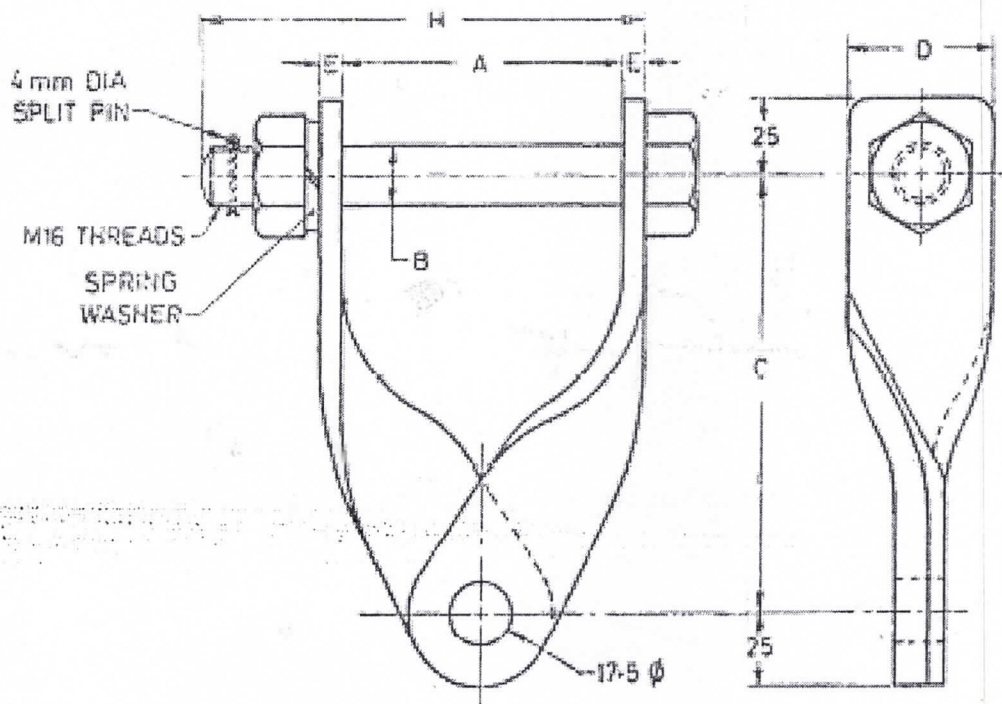


Fig-1: Cross Arm Strap

Dimensions as per IS 2486(Part II):

A	B (Dia)	C	D	E	H
100	16	140	35	6	145

(All dimensions are in mm)

PARTICULARS	MATERIAL	QTY.
TWISTED STRAP	Mild Steel, Hot Dip Galvanized	2 No.
M 16 X 145 MM BOLT	Mild Steel, Hot Dip Galvanized	1 No.
16 MM SPRING WASHER	Spring Steel, Electro Galvanized	1 No.
16MM NUT	Mild Steel, Hot Dip Galvanized	1 No.
SPLIT/COTTER PIN	Stainless Steel	1 No.

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BALL CLEVIS :

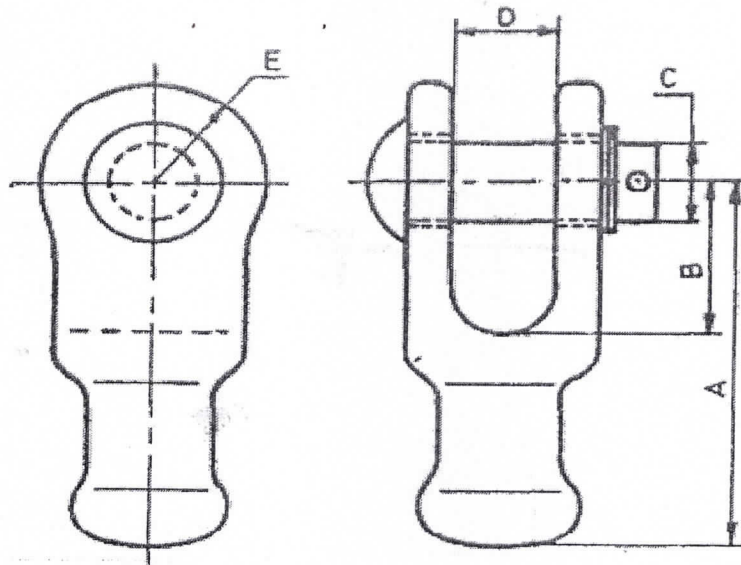


Fig 2: Ball Clevis

Dimensions as per IS 2486(Part II):

A	B	C	D	E	Pin Ball Designation
76	32	16	19	20.5	16

(All dimensions are in mm)

PARTICULARS	MATERIAL	QTY.
BALL CLEVIS	Forged Steel, Hot Dip Galvanized	1 No.
16 MM RIVET	Mild Steel, Hot Dip Galvanized	1 No.
16 MM PLAIN WASHER	Mild Steel, Hot Dip Galvanized	1 No.
SPLIT/COTTER PIN	Stainless Steel	1 No.

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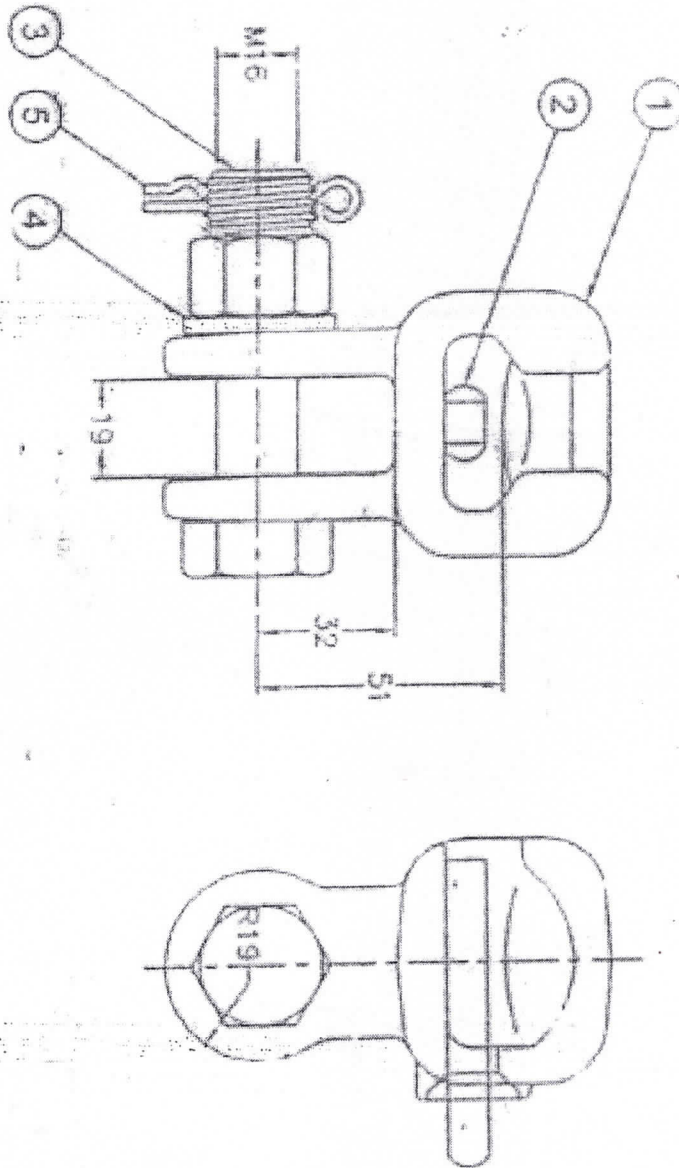
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Fig-3

SOCKET CLEVIS



Sl. No.	Description	Material	QTY.
1.	Socket Clevis	Forged Steel, Hot Dip Galvanized	1 No.
2.	R-Clip	Stainless Steel conforming to IS: 6603-1972 with minimum hardness of 160 HV.	1 No.
3.	Bolt & Nut, M-16	Mild Steel, Hot Dip Galvanized	1 No.
4.	Plain Washer (2.5mm thick)	Mild Steel, Hot Dip Galvanized	1 No.
5.	Split/Cotter Pin	Stainless Steel conforming to IS: 5522-1992 with minimum hardness of 160 HV.	1 No.

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SOCKET TONGUE:

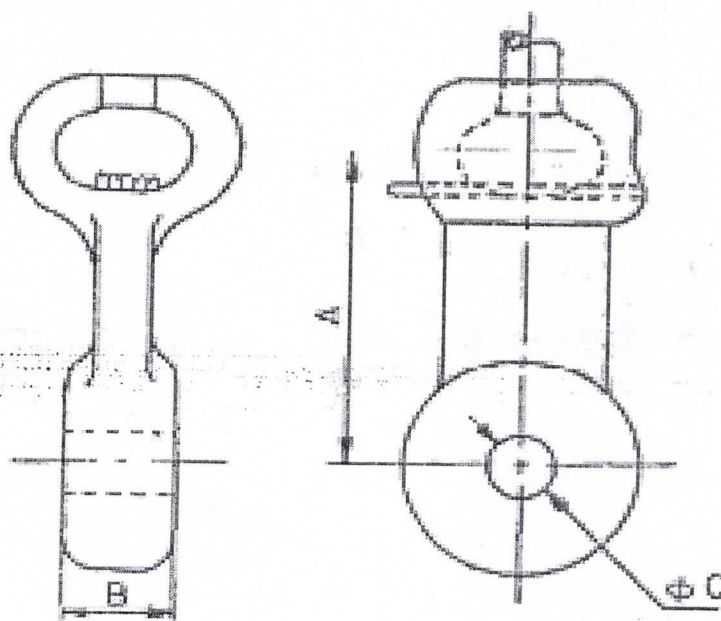


Fig-3: Socket Tongue

Dimensions as per IS 2486(Part II):

A	B	C	Pin Ball Designation
51	16	17.5	16

(All dimensions are in mm)

PARTICULARS	MATERIAL	QTY.
Socket Tongue	Forged Steel, Hot Dip Galvanized	1 No.
Locking device (R type)	Stainless Steel	1 No.

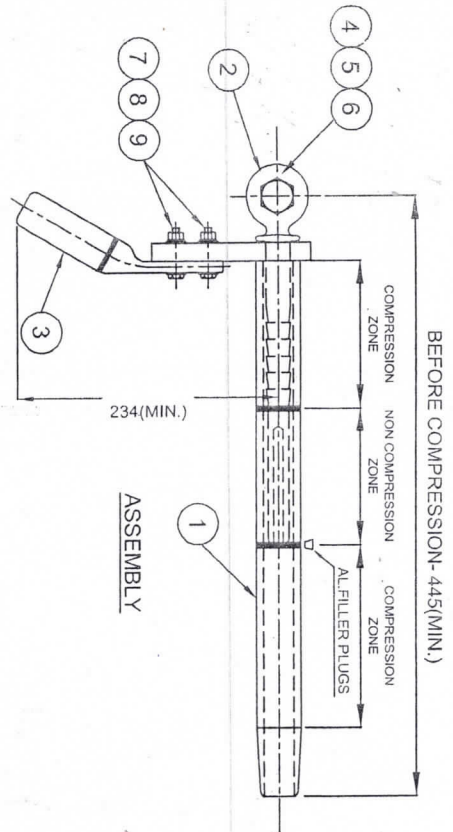
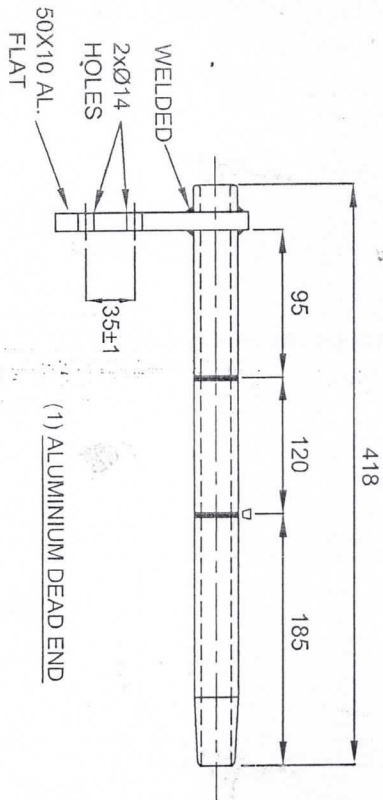
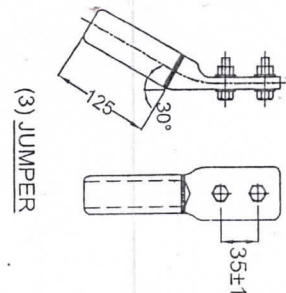
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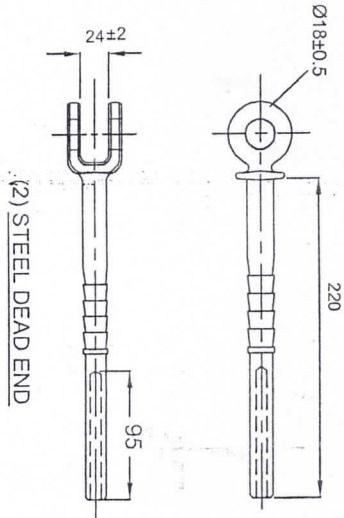
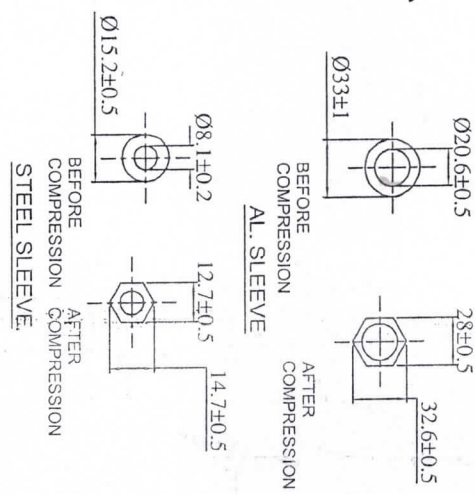
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SL NO.	DESCRIPTION	MATERIAL	QTY
1	ALUMINIUM DEAD END	EC GRADE ALUMINIUM, 19500, IS:733	1 NO.
2	STEEL DEAD END	FORGED STEEL, CL-II, IS:2004, HDG	1 NO.
3	ALUMINIUM JUMPER	EC GRADE ALUMINIUM, 19500, IS:733	1 NO.
4	M16 BOLT & NUT	MILD STEEL, GRADE 5.6/5.0, HDG	1 NO.
5	M16 PLAIN WASHER	MILD STEEL, Fe-410, IS:2062, HDG	1 NO.
6	SPLIT PIN	STAINLESS STEEL, AISI-304	1 NO.
7	M12 BOLT & NUT	MILD STEEL, GRADE 5.6/5.0, HDG	2 NO.
8	M12 PLAIN WASHER	MILD STEEL, Fe-410, IS:2062, HDG	4 NO.
9	M12 SPRING WASHER	SPRING STEEL, IS:4072, EG	2 NO.



TECHNICAL DATA :-

1. ALL DIMENSIONS ARE IN MM.
2. FERROUS PARTS ARE HOT DIP GALVANISED AS PER IS:2629 & 2633.
3. SLIP STRENGTH OF DEAD END - 95% OF UTS OF ACSR WOLF.

TITLE	COMPRESSION DEAD END CLAMP FOR ACSR WOLF WITH JUMPER
FIG. - 04	DATE :-
WBSEDCL	REV:-
	SCALE:-NTS

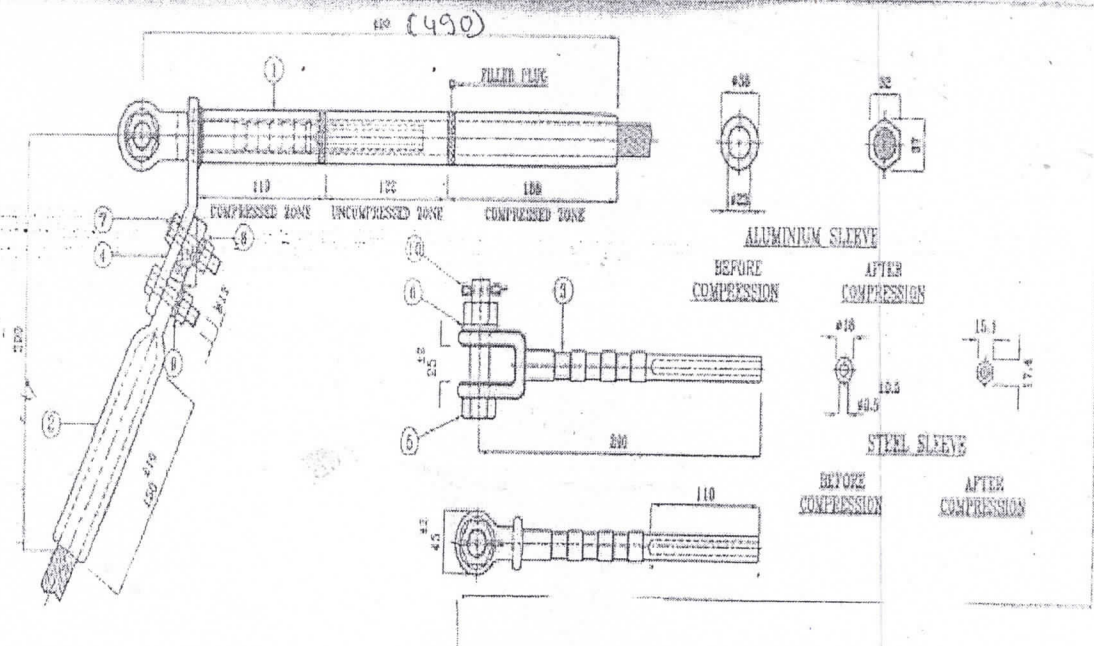


Fig. 5: DEAD END CLAMP (COMPRESSION TYPE) WITH JUMPER CONE FOR ACSR PANTHER CONDUCTOR

Sl. No.	Description	Material	Qty.
1.	Outer Sleeve	EC grade Aluminium	1 No.
2.	Jumper Cone	EC grade Aluminium	1 No.
3.	Inner Sleeve	Forged Steel, Hot Dip Galvanized	1 No.
4.	Jumper Plate	EC grade Aluminium	1 No.
5.	Bolt & Nut, M-16	Mild Steel, Hot Dip Galvanized	1 No.
6.	M16 Plain Washer	Mild Steel, Hot Dip Galvanized	1 No.
7.	Bolt & Nut, M-12	Mild Steel, Hot Dip Galvanized	2 Nos.
8.	M-12 Plain Washer	Mild Steel, Hot Dip Galvanized	4 Nos.
9.	M-12 Spring Washer	Spring Steel, Electro Galvanized	2 Nos.
10.	Split Pin/Cotter Pin	Stainless Steel conforming to IS: 5522-1992 with minimum hardness of 160 HV.	1 No.

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