



WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED

(A Government of West Bengal Enterprise)

Office of the Divisional Manager, Malda Division
Rabindra Avenue, English Bazar, Malda, West Bengal – 732 101

Website: www.wbsecl.in

E – Mail: dm.southmalda@wbsecl.in

Phone No.: (03512) – 253437

Fax No.: (03512) – 253437

NOTICE INVITING e – TENDER (NIeT)

NIT No.: **MLDD / e – Tender / ELEC / 25-26 / 03**

Date: 02.02.2026.

On Line Tender (e – Tender) in Two Parts (Part I: Technical Bid and Part II: Financial Bid) are invited by the Divisional Manager, Malda Division, WBSEDCL, Rabindra Avenue, English Bazar, Malda – 732 101, from Experienced, Resourceful, Bonafide and Working Contractors of WBSEDCL / WBSETCL / other Power Utilities / Central Govt. / State Govt. / Undertaking for the following work:

1. Name of the Work: **"Supply and Delivery of 1494 SET of Single Tension Hardware Fittings for WOLF (ACSR 150 SQMM) Conductor (Compression Type Dead End Clamp) to Malda Divisional Stores for conductor size augmentation of 33 kV Khejuria (GSS) – Kaliachak Line, as per WBSEDCL approved drawing and specifications."** Detailed technical specification and drawing is attached at the end of this notice.
2. Estimated Amount (in INR): Rs. 18, 67, 500.00/- (INR Eighteen Lakh Sixty Seven Thousand Five Hundred ONLY)
3. Cost of Tender Documents: NIL
4. Earnest Money Deposit (in INR): Rs. 37, 350/- (INR Thirty Seven Thousand Three Hundred Fifty ONLY)
5. Time Period of Completion of Work: Total quantity of materials should be delivered at WBSEDCL Malda Divisional Stores within 10 (Ten) Days from the date of issue of Purchase Order
6. Period of Validity of Offered Rates: 180 (One Hundred Eighty) Days from the Date of Opening of Financial Bid of the Tender.
7. Schedule of the e – Tendering Process

SL NO	Activity	Date and Time
1	Publish of Tender Notice	02.02.2026, at 11:00 HRS
2	Document Download / Sale Starts	02.02.2026, at 11:00 HRS
3	Bid Submission Starts	02.02.2026, at 11:00 HRS
4	Bid Submission Ends (including Online EMD)	16.02.2026, at 11:00 HRS
5	Opening of Technical Bid	18.02.2026, after 11:00 HRS
6	Uploading of List of Technically Qualified Bidders	To be notified later
7	Opening of Financial Bid	To be notified later

8. Procedure to be followed

- iv. Names of the Technically Qualified Bidders, after verification and evaluation of Technical Bids, would be displayed in the e- Tendering portal and Notice Board of the Tender Inviting Authority's Office.
- v. The Financial Bid Documents of only the Technically Qualified Bidders would be opened.
- vi. Chart of Comparison of Financial Bids would be displayed on the next day of opening.

Amarish Kumar
02/02/2026

(Amarish Kumar)
Divisional Manager
Malda Division
(Tender Inviting Authority)

Registered Office: Vidyut Bhawan, Block: DJ, Sector: II, Bidhannagar, Kolkata – 700 091

GEN. 11401001WB2007SCC112172



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WBSEDCL

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INVITATION OF BIDS

1. Scope of Work: "Supply and Delivery of 1494 SET of Single Tension Hardware Fittings for WOLF (ACSR 150 SQMM) Conductor (Compression Type Dead End Clamp) to Malda Divisional Stores for conductor size augmentation of 33 kV Khejuria (GSS) – Kallachak Line".
2. Tender Documents: Available in the website of The West Bengal Government eProcurement System (<https://wbtenders.gov.in>).
3. Submission of Bids: The Tender is to be submitted in Two Part System (Technical Bid and Financial Bid), in the website of The West Bengal Government eProcurement System (<https://wbtenders.gov.in>).

4. ELIGIBILITY CRITERION:

G. Financial Pre Requisites:

- (IV) The average annual turnover of the bidder, during the last 3 years, shall not be less than 30 % of the estimated cost of this tender.
- (V) Working capital in the year, preceding the year of bid submission, shall not be less than 30 % of the estimated cost of this tender.
- (VI) In case documents certifying credit facility from a scheduled bank is submitted, the requirement given in clause (II) shall be judged by adding available credit facility and working capital taken together. (Certificate of Proof of Financial Capability from Bankers, 1 year from the date of publication of NIeT)

H. Bidders must upload the following documents (in Technical Folder) to substantiate their qualifying requirement:

- (X) Trade License and GST Registration Certificate.
- (XI) Current Challan for Depositing GST and Latest Return Files.
- (XII) Copy of IT Return for the last Three Financial Year and PAN Card, as applicable
- (XIII) EPF Registration Certificate and Challan for the last month, if applicable
- (XIV) ESI Registration, if applicable
- (XV) Copy of Work Order / Purchase Order and Completion / Delivery Certificate in support of Technical Prerequisites for successful completion of supply and delivery of similar electrical items to state DISCOMs/other reputed power utilities.
- (XVI) Information regarding any past and current litigation with WBSEDCL / WBSETCL / Central Govt. / State Govt. / Undertaking, in which the bidder is involved. Details like the party concerned and the disputed amount to be furnished, wherever applicable.
- (XVII) Valid contractor's license with Supervisory Competency Certificate, if applicable.

I. All documents must be self attested / self authenticated.

J. Even though the bidders meet the above qualifying criterion, they are subjected to be disqualified, if they have

- (III) Made misleading or false representation in the documents, statements, certificates and any other attachments, in proof of the qualifying requirements

AND / OR

- (IV) Record of poor performance such as abandoning the work, not properly completing the work, inordinate delays in completion, litigation history or financial failure.

NOTE

1. WBSEDCL reserves the right to reject or accept any bid or part thereof or all bids received at its sole discretion, without assigning any reason, whatsoever.

Registered Office: Vidyut Bhawan, Block: DJ, Sector: II, Bidhannagar, Kolkata – 700 091

CIN: U40109WB2007SGC113473



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2. WBSedcl reserves the right to go for divisible contracts, if necessary.
3. WBSedcl is not necessarily bound to accept the lowest bidder.
4. Tender Cost / Tender Fee have been done with. Hence, all intending bidders are exempted from payment of Tender Fee.
5. No interest shall be payable for Earnest Money Deposit.
6. No Conditional Bid / Incomplete Tender shall be accepted under any circumstances.
7. The bids must be submitted in the prescribed format and file form only (e.g., .xls, .pdf), as indicated.
8. The bidders shall ensure that all pre – requisites are duly filled by them and if there arises any dispute due to non – submission of any document, WBSedcl reserves the right to cancel the bid unilaterally, without assigning the reason.
9. The bidder is expected to examine carefully all instructions, conditions, forms, schedules, terms, annexure, specifications and drawings of the bidding document. Bids, which are determined to be not substantially responsive to the requirement of the bidding document, may lead to rejection.
10. The Bidder, at his own responsibility and risk, is encouraged to visit and examine the site of works and its surroundings, and obtain all information that may be necessary for preparing bid and entering into an agreement for the work/works as mentioned in the NIT, before submitting offer with full satisfaction. The costs for visiting the working site shall be at the bidder's own expense.
11. All bids in the range of Minus 80 % to Minus 20 % of the estimated cost shall furnish a Additional Performance Security in the form Bank Guarantee from any Scheduled Bank, which shall be equal to 20 % of the estimated cost of this tender.
12. Earnest Money Deposit (EMD): EMD shall be submitted through Online Mode of Payment at the e – Tendering Portal (<https://wbtenders.gov.in>). Offline instruments like Demand Draft, Bank Guarantee shall not be accepted for this e – procurement system. In case of unsuccessful / rejected bids, the EMD Amount shall be directly refunded from the e- Tendering portal. However, for the successful bids, the EMD Amount would be refunded by WBSedcl, upon completion of the contract. Online Payment can be made in the following mode:
 - iii. Net Banking through Payment Gateway.
 - iv. RTGS / NEFT Payment: On selection of RTGS / NEFT as the payment mode, the eprocurement portal will show a pre-filled Challan having the details to process RTGS / NEFT transaction. The bidder will print the Challan and use the pre-filled information to make RTGS / NEFT payment using his bank account. Once the payment is made, the bidder will come back to e-procurement portal to continue the bidding process after expiry of a reasonable time to enable the RTGS / NEFT process to be completed.
13. **Successful bidder(s) shall have to mandatorily create Vendor ID, through WBSedcl Website's Vendor Corner, if not created earlier.**
14. Bidders are to keep track of all the Addendum / Corrigendum issued with a particular tender and upload all the above duly digitally signed along with the NIT. Tenders submitted without the Addendum / Corrigendum will be treated as informal and liable to be rejected.
15. Work Order & Payment of work shall depend on availability of fund. The Divisional Manager, Malda Division, WBSedcl shall act as the Controlling Officer. The Manager / Assistant Manager (F&A) / Junior Manager (O.O.), Malda Division, WBSedcl shall be the Paying Authority. The Store-In-Charge, Malda Divisional Store, WBSedcl shall be Consignee. The Divisional/ Assistant Engineer (Tech), Malda Division shall be the Supervising Authority of the work, under whose guidance and direction the works will be executed.

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WBSEDCL

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Phone No.: (03512) – 253437

Fax No.: (03512) – 253437

Memo No.: MLDD / Tech. / e – Tender / 817

Date: 02.02.2026

Copy forwarded to, for kind information:

1. The Chief Engineer (Dist-North), WBSEDCL, Siliguri
2. The Zonal Manager, Malda Zone, WBSEDCL
3. The Regional Manager, Malda Region, WBSEDCL
4. The Manager (HR&A), Malda Division, WBSEDCL
5. The Manager (F&A) / Junior Manager (O.O.), Malda Division, WBSEDCL
6. The DE / AE (Tech), Malda Division, WBSEDCL
7. Notice Board
8. This is with reference to approval of the ED (Dist), WBSEDCL dated 15.01.2026 vide File No - MATRL-MREQ/44/2025-O/o DM SOUTH MALDA DIVISION-WBSEDCL-SOUTH MALDA DIVISION (Computer No - 509382) for local procurement of central item.

M
21/2/26

Alumna
02/02/2026

Divisional Manager
Malda Division
WBSEDCL, Malda



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/m²) 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 galvanized.

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

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.

[Handwritten signatures and dates: 28/12/25, 28/12/25, 28/12/25, 28/12/25]

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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28/02/25

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28/02/25

DRAWING

CROSS ARM STRAP:

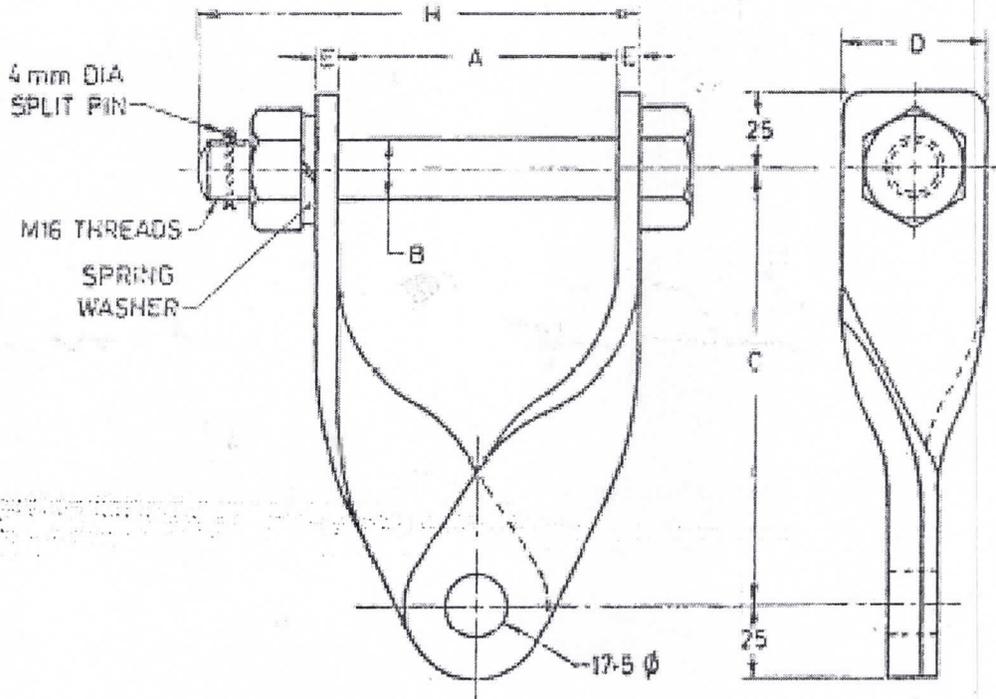


Fig-1: Cross Arm Strap

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 :

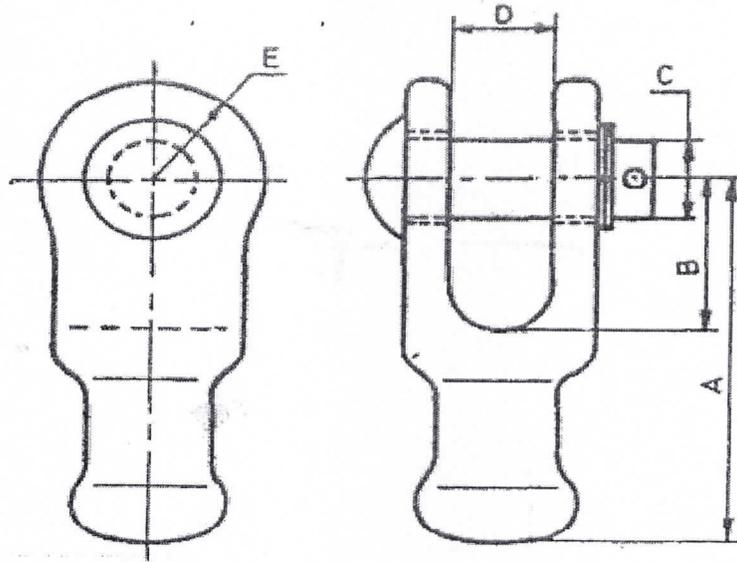


Fig 2: Ball Clevis

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.

Handwritten signature and date: 24/2/25

Handwritten signature and date: 25/2/25

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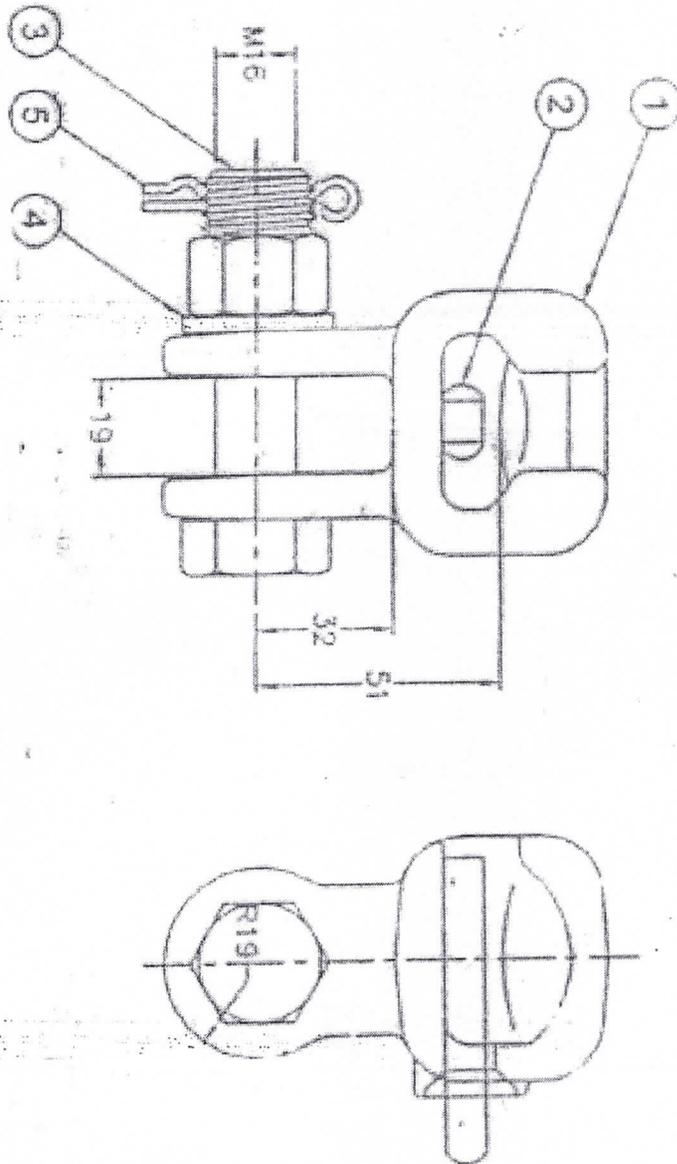
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Fig-3

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:

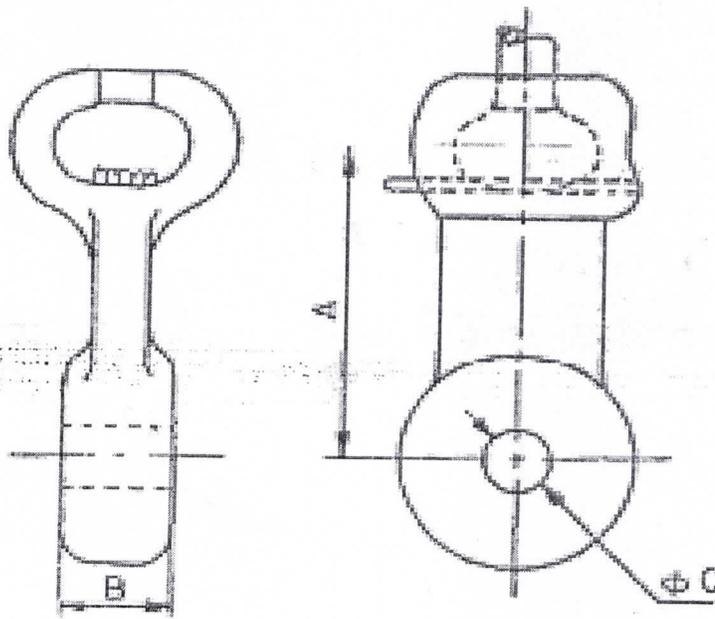


Fig-3: Socket Tongue

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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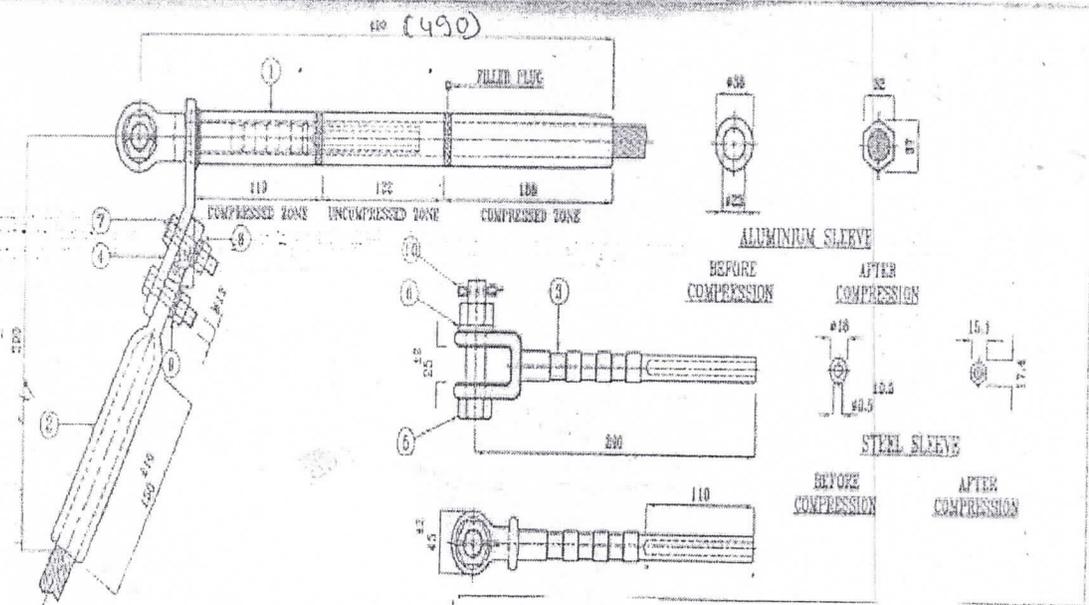


Fig. 5: DEAD END CLAMP (COMPRESSION TYPE) WITH JUMPER CONE FOR ACSR PANTHER CONDUCTOR

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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