

GTP for 220 kV HTLS ACCC Drake

Guaranteed Technical Particulars of Single Suspension/ Double Suspension Hardware Fittings

S.I	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		Nashik
3	Drawing enclosed	Yes/No	Yes
4	Maximum Magnetic power loss of suspension clamp at conductor / sub conductor of amperes (at steady state conductor temperature)	Watt	4
5	Slip strength of suspension assembly	kN	7 kN to 30% UTS of conductor
6	Particulars of standards/AGS Standards/AGS Preformed armour rod for suspension assembly		
	A) Number of rods per set	No	12
	B) Direction of lay		Right Hand
	C) Overall length after fitting on conductor	mm	2080
	D) Diameter of each rod	mm	7.87
	E) Tolerance in		
	i) Diameter of each rod	±mm	0.1
	ii) Length of each rod	±mm	25
	iii) Difference of length between the longest and shortest rod in the set	±mm	13
7	Particulars of Elastomer		
	a) Supplier of elastomer		Mosdorfer India
	b) Type of elastomer		Silicone Rubber
	c) Shore Hardness of elastomer		65 – 80
	d) Temperature range for which elastomer is designed		180 Deg C
	e) Moulded on insert	Yes/No	Yes
8	UTS of suspension clamp		70 kN
9	Purity of zinc used for galvanizing	%	99.95 (IS 209) or 98.6 (IS 13299)
10	Maximum Permissible continuous temperature of		
	i) Clamp Body		180 Deg C
	ii) Standard/AGS preformed rods		Conductor Temp.

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Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

Electrical Substation Engineering Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date :- 08/10/24



Guaranteed Technical Particulars of Tension Hardware Fittings

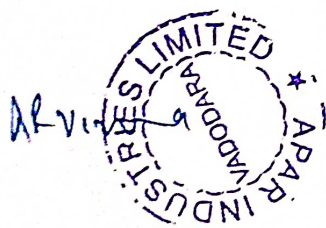
S.I No	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		Nashik
3	Drawing enclosed	Yes/No	Yes
4	Purity of Aluminum used for aluminum sleeve	%	99.5%
5	Material for steel sleeve		Collet – Stainless Steel Sleeve – CL-IV
6	Outside diameter of sleeve before compression	mm	64 ± 1
7	Inside Diameter of sleeve after compression	No	43 ± 0.5
8	Length of sleeve before compression		776 ± 10
9	Dimension of sleeve after compression a) Surface to surface	mm	54 ± 0.5
10	Electrical resistance of dead end assembly	%	<75% of equivalent length of conductor
11	Slip strength of dead end assembly	kN	95% of UTS of Cond.
12	UTS of Dead end Assembly	kN	95% of UTS of Cond.
13	Purity of zinc used for galvanizing	%	99.95 (IS 209) or 98.6 (IS 13299)
14	Maximum Permissible continuous temperature of Dead end		180 Deg C Conductor Temp.

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Electrical Superintending Engineer
(Planning and Equipment)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date: - 08/01/2024



Guaranteed Technical Particulars of Tension Hardware Fittings

S.I No	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		Nashik
3	Drawing enclosed	Yes/No	Yes
4	Purity of Aluminum used for aluminum sleeve	%	99.5%
5	Material for steel sleeve		Collet – Stainless Steel Sleeve – CL-IV
6	Outside diameter of sleeve before compression	mm	64 ± 1
7	Inside Diameter of sleeve after compression	No	43 ± 0.5
8	Length of sleeve before compression		776 ± 10
9	Dimension of sleeve after compression a) Surface to surface	mm	54 ± 0.5
10	Electrical resistance of dead end assembly	%	<75% of equivalent length of conductor
11	Slip strength of dead end assembly	kN	95% of UTS of Cond.
12	UTS of Dead end Assembly	kN	95% of UTS of Cond.
13	Purity of zinc used for galvanizing	%	99.95 (IS 209) or 98.6 (IS 13299)
14	Maximum Permissible continuous temperature of Dead end		180 Deg C Conductor Temp.

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Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date: - 08/01/2024



Guaranteed Technical Particulars of Midspan compression joint for HTLS conductor

S.I No	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		Nashik
3	Drawing enclosed	Yes/No	Yes
4	Suitable for conductor size	Mm	28.14
5	Purity of Aluminum used for aluminum sleeve	%	99.5%
6	Material for sleeve		Aluminum alloy 1050/1070 IS 733 or equivalent
7	Outside diameter of sleeve before compression	mm	64 ± 1
8	Inside Diameter of sleeve before compression	No	43 ± 0.5
9	Length of sleeve before compression		1470 ± 10
10	Dimension of sleeve after compression a) Surface to surface	mm	54 ± 1
11	Electrical resistance of dead end assembly	%	<75% of equivalent length of conductor
12	Slip strength	kN	95% of UTS of Cond.
13	Maximum Permissible continuous temperature of Dead end		180 Deg C Conductor Temp.

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Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date: - 08/01/2024



Guaranteed Technical Particulars of Repair sleeve for HTLS conductor

S.I No	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		Nashik
3	Drawing enclosed	Yes/No	Yes
4	Suitable for conductor size	Mm	28.14
5	Purity of Aluminum used for aluminum sleeve	%	99.5%
6	Outside diameter of sleeve before compression	mm	56 ± 1
7	Inside Diameter of sleeve before compression	mm	31 ± 0.5
8	Length of sleeve before compression		275 ± 5
9	Dimension of sleeve after compression a) Surface to surface	mm	47.4 ± 1
10	a) Electrical resistance of dead end assembly	%	<75% of equivalent length of conductor
11	Maximum Permissible continuous temperature of Dead end	Deg C	180 Deg C Conductor Temp.

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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date: - 08/01/2024



Guaranteed Technical Particulars of Vibration Damper for HTLS conductor

S.I No	Description	Unit	Value Guaranteed by Bidder
1	Name and Address of Manufacturer		Mosdorfer India Pvt Ltd
2	Address of Manufacturer		MIDC Gonde, Nashik
3	Drawing enclosed	Yes/No	Yes
4	Suitable for Conductor Size	Mm	28.14
5	Total weight of one damper	Kg	5 kg Approx
6	Weight of each damper mass	Kg	2.17 1.7 Approx Approx
7	Material of damper mass		Cast Iron
8	Material of clamp		Al-Alloy
9	Material of stranded messenger cable		High Tensile steel
10	Number of strands in stranded messenger cable		19/2.45
11	Lay Ratio of stranded Messenger cable		9 to 11
12	Minimum ultimate tensile strength of stranded messenger cable	Kg/mm2	135 kg/mm2
13	Slip strength of stranded messenger cable a) Before fatigue b) After Fatigue	kN kN	2.5 2
14	Maximum Magnetic Power Loss	Watts	4
15	Maximum Permissible continuous temperature of Dead end	Deg C	180 Deg C Conductor Temp.

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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date:- 08/01/2024



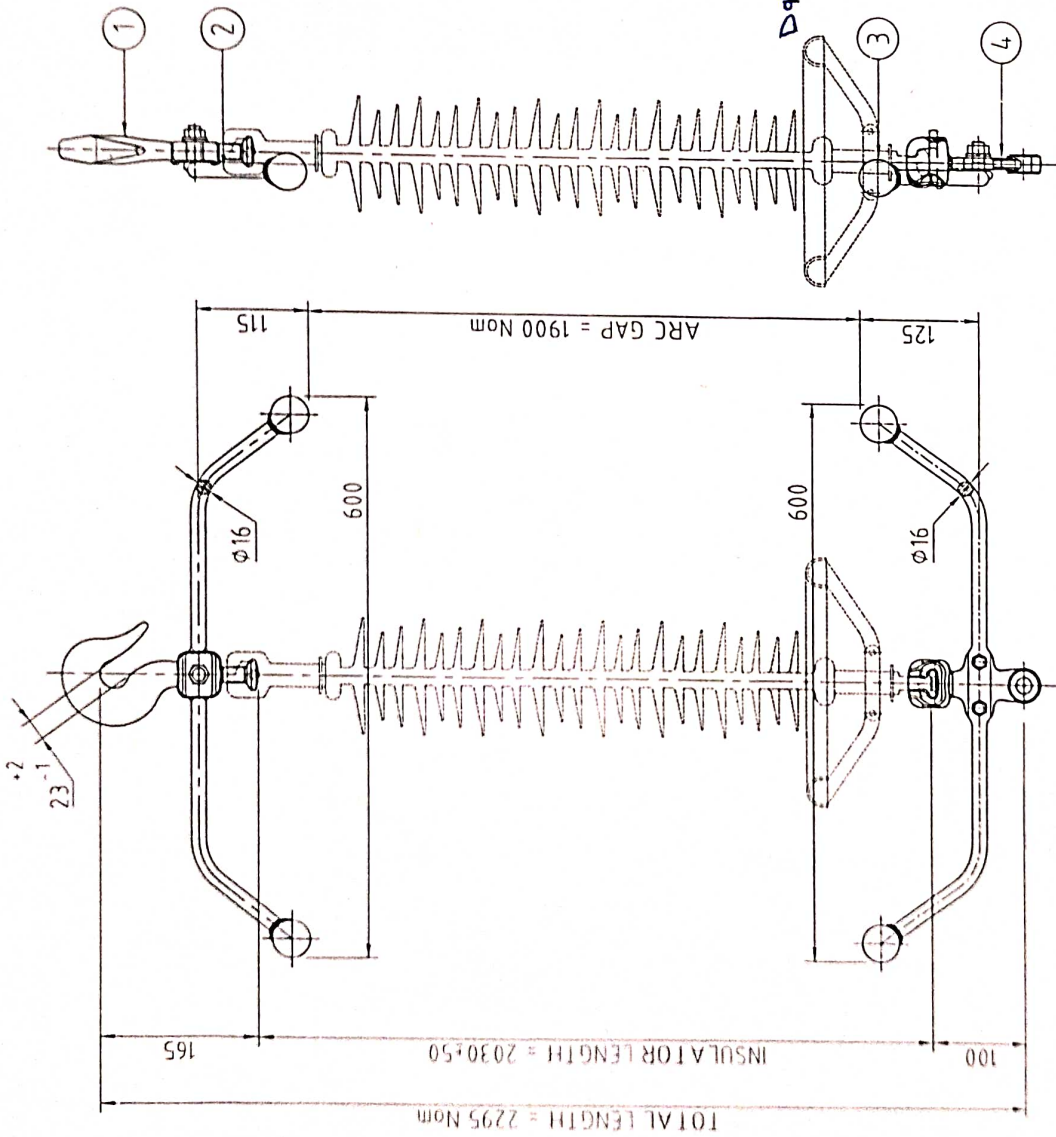
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4	1	H H Socket Eye Straight	IEC 60120	KI_ F03080024	Forged Steel CL-IV, JS:2004	hot dip galvanized	90 kN
3	1	Arising Horn Single		KI_ F07070293	Mild Steel Fe-410, JS:2062	hot dip galvanized	1.5 kN
2	1	Arising Horn Single		KI_ F07070336	Mild Steel Fe-410, JS:2062	hot dip galvanized	1.5 kN
1	1	H H Ball Hook	IEC 60120	KI_ F03270002	Forged Steel CL-IV, JS:2004	hot dip galvanized	90 kN
Item	Qty	Description	Standard	Drig no	Material	Surface	UTS

2023	Date	Name	 Title 220kV Sing
Drawn	25.09.2023	Pooja	
Checked	25.09.2023	Kundan	
 Scale			

MOSDORFER
KNILLGRUPPE

Replaced for	Sum to pay in	
Replaced by	1_HS11E0544	
Art. No.	1_HS11E0721	
Dep. No.	Rev	Pos
1_HS11E0721	00	00
No. of pages		Page



TECHNICAL DETAILS:

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCE $\pm 3\%$.
- 3) BALL AND SOCKET SIZE (16mm 'B') AS PER IS-2466(III) / IEC-60120.
- 4) MIN. UTS OF STRING WITHOUT SUSPENSION CLAMP $\sim 90\text{KN}$.
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS-2629
- 6) HARDWARE TOLERANCES ON LENGTH $\pm 2\%$.

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supplied as per specification

Electrical Supplies
(Planning and Engineering) Limited
Bharat Power Transmission Company Limited
Bharat Power Transmission Company Limited
Patna-800021
Vidhyut Bhawan, Patna-800021

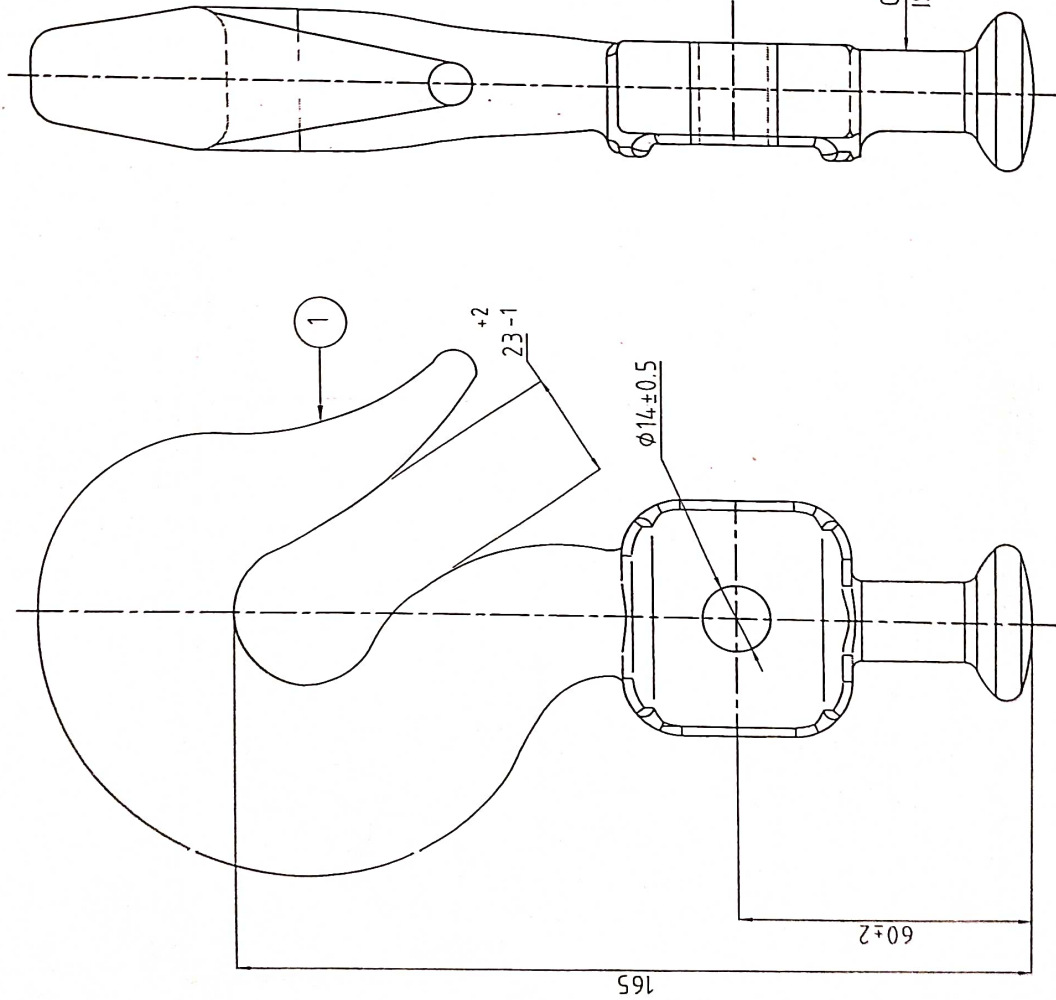
DATE:-08/01/2024



Letter	Revision	Name	Date
21	Forging Code Added	11/07/2017	Elkath
22	Tolerance remove	17/10/2019	Ratnaja

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Number	Modification	Date



TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BALL AND SOCKET SIZE 16mm AS PER IS:2486 PART (III)/IEC:60120.
- 4) BREAKING STRENGTH : 90kN.
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
- 7) IDENTIFICATION MARK - [B 1587] PRODUCT CODE [MM/YY XX]

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Electrical Superintending Engineer
(Planning and Engineering)

Biha State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

AP

Date: 08/10/2024



2015	Date	Name	Replace for	Sam. to org. no.
Drawn	09/11	MDAN	Replaced by	
Checked	09/11	SANJAY	Art. No.	F03270002
			Drig No.	KI_F03270002
			Rev.	02 00
			Page	A3



Horn Holder Ball Hook

16mm

Hot dip galvanized

Surface

Forged Steel CL - IV, IS : 2004

Material / Grade

Horn Holder Ball Hook

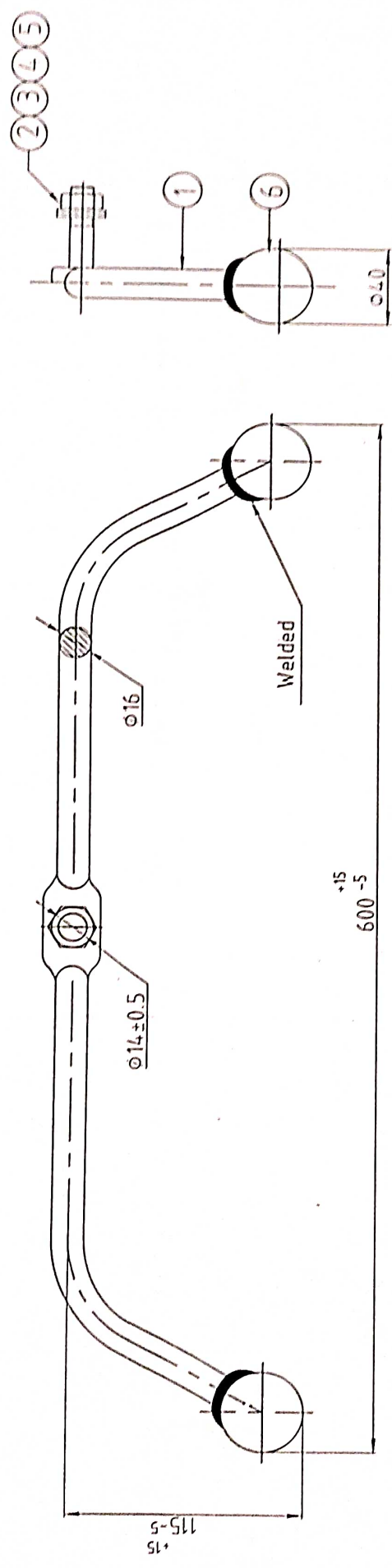
Description

1 1 Qty

1 1

No.	Date	Modification	Maker

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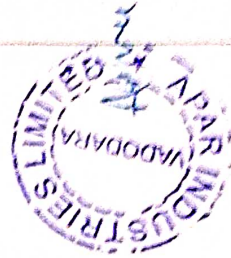
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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation Limited
Vidhyut Bhawan, Patna-200021

Date: 08/10/2024

TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : ±3%.
- 3) BREAKING STRENGTH : 15 kN
- 4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629
- 6) SPRING WASHERS ARE ELECTRO GALVANIZED.
- 7) IDENTIFICATION MARK - [F07070336] [MM/YY XX]



Sl. No.	Qty.	Description	Material / Grade	Surface	QTY	UNIT	DATE	BY	REMARKS	DATE	BY	REMARKS
6	2	Ball	Forged Steel (C-L-II), IS : 2004	hot dip galvanized								
5	1	Plain Washer M12	Mild Steel, gr Fe-410, IS:2062	hot dip galvanized								
4	1	Spring Washer M12	Spring Steel, IS:3043 & 4072	electro galvanized								
3	1	Hexagon Nut M12	Mild Steel, gr 5, IS:1367	hot dip galvanized								
2	1	Hexagon Bolt M12	Mild Steel, gr 5.6, IS:1367	hot dip galvanized								
1	1	Horn	Mild Steel, gr Fe-410, IS:2062	hot dip galvanized								
Total												

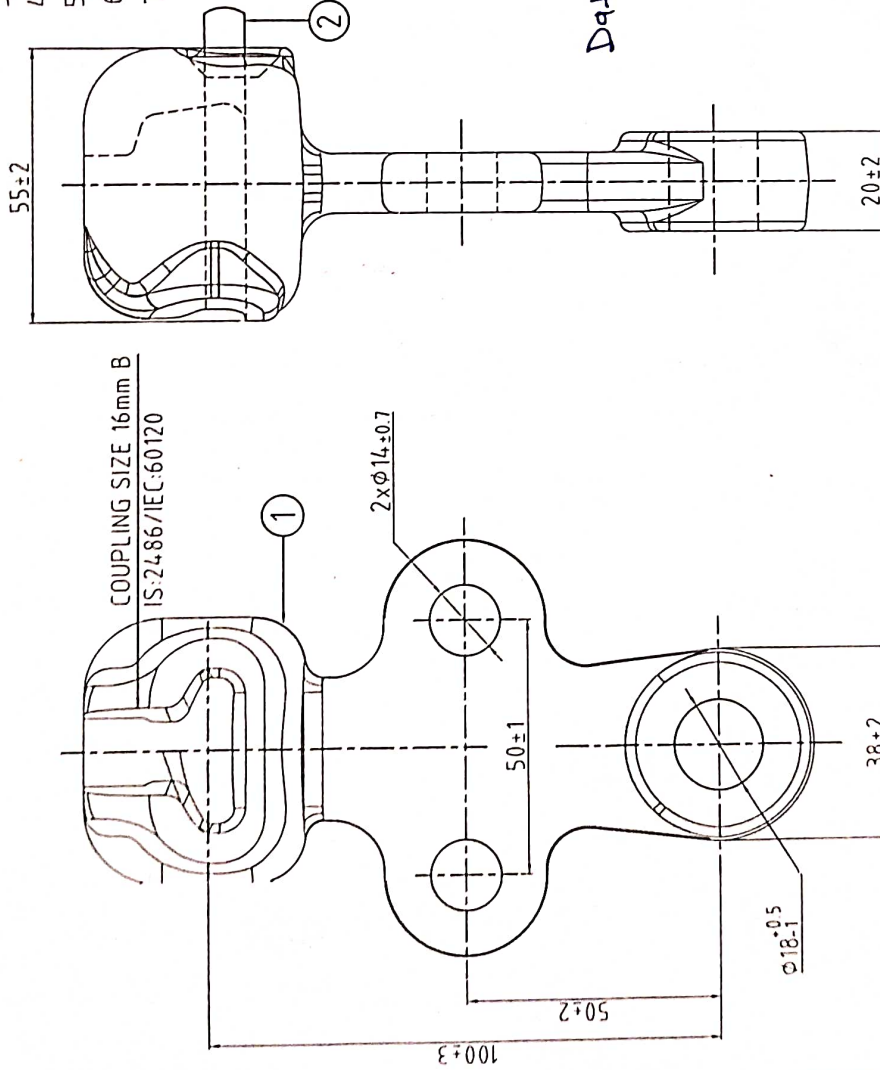


ARTUR HORN
MANAGER - ADMIN

MO. NO. 9876543210
AL. NO. 1234567890
DATE: 08/10/2024

TECHNICAL DETAILS:

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BALL & SOCKET SIZE 16mm B AS PER IS 2486/IEC 60120
- 4) BREAKING STRENGTH : 90 kN.
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS 2629.
- 7) IDENTIFICATION MARK - [1863] PRODUCT CODE [MM/YY XX]



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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

Date :- 08/01/2024



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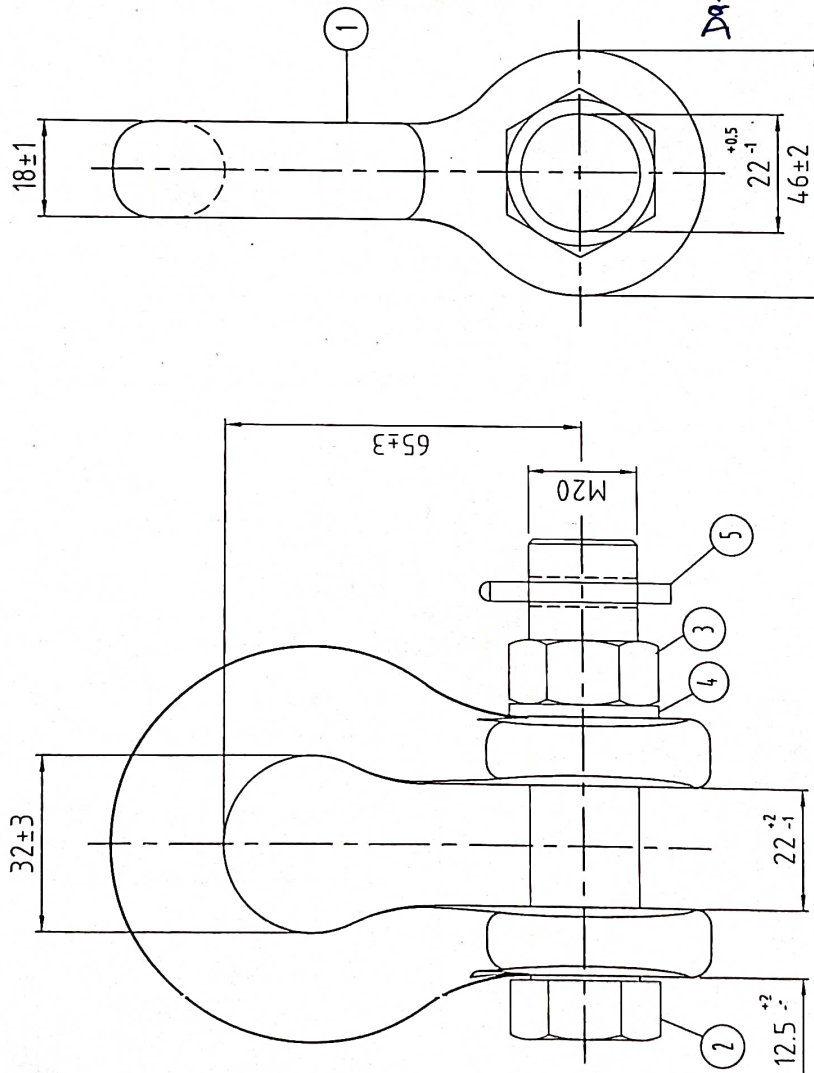
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Sl. No.	Letter	Revision	Date	Name
02		Tolerance revised	17.02.2017	Ravindra
01		Thickness Dimension added	17.02.2017	Ravindra

5	1	Humpback split pin	Stainless Steel, AISI - 304	—	2016	Date	 MOSDORFER KNILL GRUPPE		Replace for	Sim. to drg.-no.
4	1	Plain Washer M20	Mild Steel Fe - 410, IS : 2062	hot dip galvanized	Drawn	TIAG	Name	Replaced by		
3	1	Hexagon nut M20	Mild Steel gr 5, IS : 1367	hot dip galvanized	Tested	TIAG	ENAMTH	Art. No.	I_F03090052	
2	1	Hexagon Bolt M20	Mild Steel gr 5.6, IS : 1367	hot dip galvanized			Title	Drg. No.	KL_F03090052	Rev. Hod
1	1	Anchor Shackle	Forged Steel (L - IV, IS : 2004)	hot dip galvanized			Scale		02 00	A3
Qty		Description	Material / Grade	Surface			NTS	Anchor Shackle 918x65x22-M20 120KN		No. of pages Page

TECHNICAL DETAILS:

- 1) ALL DIMENSIONS ARE IN mm
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 120kN
- 4) ALL DIMENSIONS ARE AFTER GALVANIZATION
EXCEPT DRILLED HOLES
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED
AS PER IS:2629.
- 6) IDENTIFICATION MARK - M 826A PRODUCT CODE



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supplied as per specification

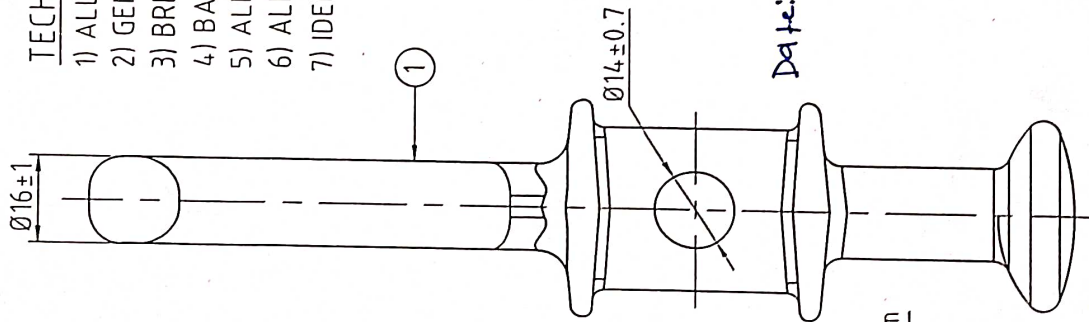
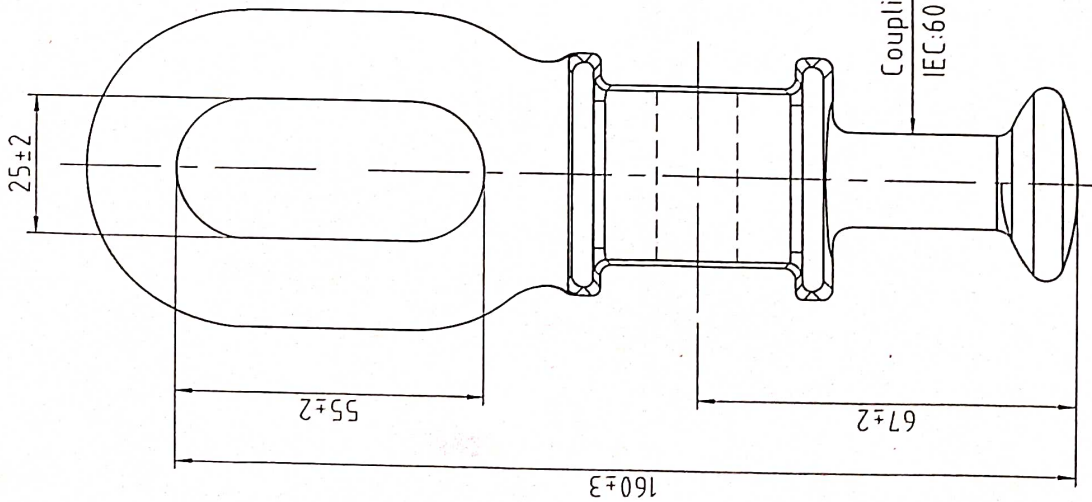
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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

Date:- 08/01/2024



Letter	Item Qty	Description	Material / Grade	hot dip galvanized Surface	Revision		
					Date	Name	

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TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 120 kN.
- 4) BALL AND SOCKET SIZE 20mm AS PER IS:2486(III).
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
- 7) IDENTIFICATION MARK - [M] 1506 [PRODUCT CODE MM/YY XX]

APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

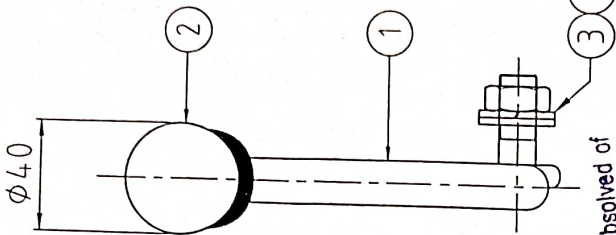
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vijay Bhawan, Patna-800021

Date: - 08/01/2024



2016	Date	Name	Signature
Rev.	17/6	EMTH	
Drawn	17/6	SAWY	
Title			
Scale			
NTS			
MOSDORFER KNILL GRUPE			
Horn Holder Ball Link			
20x60 - 120 KN			
K1_F03240006			
Rev.			
00			
00			
A3			

1	1	Horn Holder Ball Link	Forged Steel (L - IV - IS - 2004	hot dip galvanized Surface
Item Qty	Description	Material / Grade		



APPROVED
Subject to the condition that you are not absolved of
the responsibility for correctness of the materials
supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
6) SPRING WASHERS ARE ELECTRO GALVANIZED.

Date:- 08/01/2024

8) IDENTIFICATION MARK -  F07070294 MM/YY XX

TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BREAKING STRENGTH : 1.5 kN.
- 4) ALL DIMENSIONS ARE AFTER G
- 5) ALL FERROUS PARTS ARE HOT
- 6) SPRING WASHERS ARE ELECTR

5	2	Spring Washer M12	Spring Steel, IS : 3063 & 4072	electro galvanized.
4	2	Plain Washer M12	Mild Steel Fe-410, IS : 2062	hot dip galvanized.
3	2	Bolt & Nut M12	Mild Steel gr 5.6/5, IS : 1367	hot dip galvanized.
2	1	Ball	Forged Steel gr CL-II, IS : 2004	hot dip galvanized.
1	1	Arching horn	Mild Steel gr Fe - 410, IS : 2062	hot dip galvanized.
Qty	Description	Material / Grade	Surface	



Replace for	Sim. to Org.-no.				
Replaced by					
Art. No.	I_F07070294				
Org. No.	<table border="1"> <tr> <td>Rev.</td> <td>Mod.</td> </tr> <tr> <td>00</td> <td>00</td> </tr> </table>	Rev.	Mod.	00	00
Rev.	Mod.				
00	00				
KL_F07070294	A3				
No. of issues	Pages				

Arcing Horn
Ø16x125x300 - Ø40mm

No. of names	Page
--------------	------

Page

A circular purple ink stamp. The outer ring contains the text "APAR INDUSTRIES LIMITED" at the top and "VADODARA" at the bottom, separated by two small stars. The center of the stamp is blank.

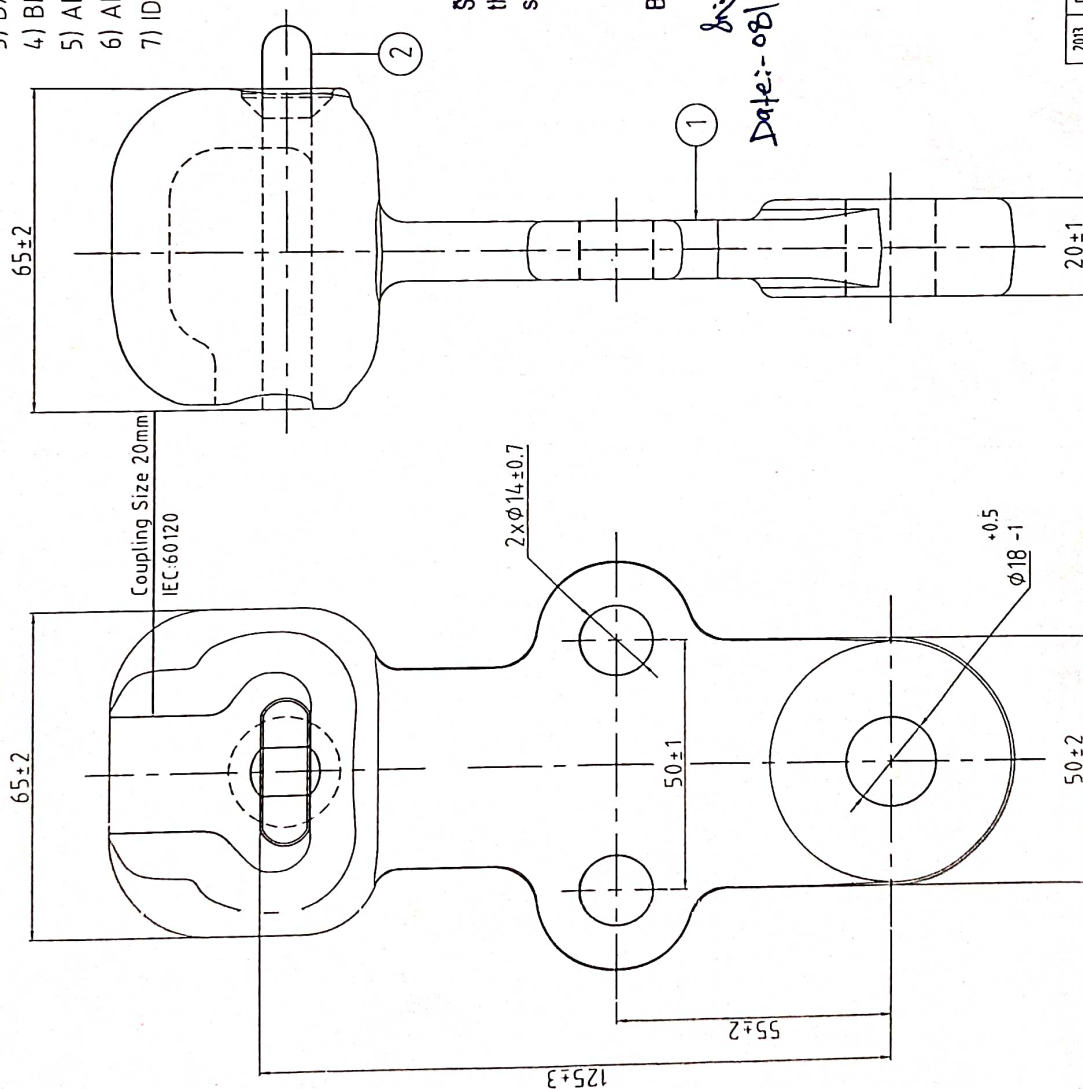
- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BALL & SOCKET SIZE 20mm AS PER IS:2486 (III)/IEC60120.
- 4) BREAKING STRENGTH : 120 kN.
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS :2629
- 7) IDENTIFICATION MARK -  1852A PRODUCT CODE MMYY XX

APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

**Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021**

Date:- 08/11/2024



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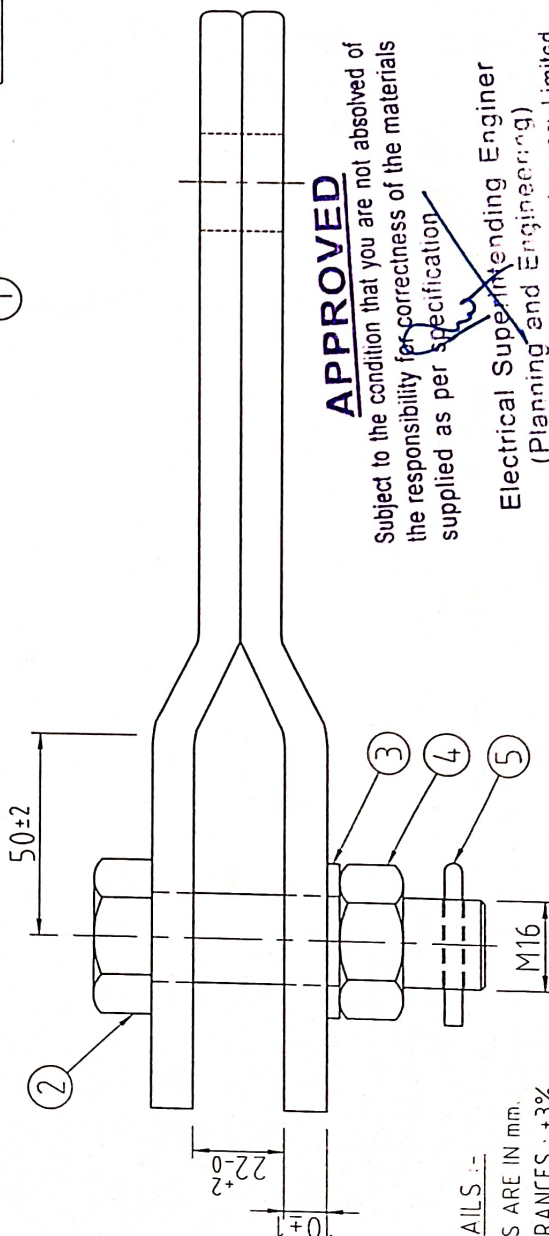
Letter	Revision	Date	Name

This page and its indications is intellectual property of Prosdorff Company and it isn't allowed to forward those information to a third party without the written assent of Prosdorff company

Number	Modification	Date	N

2013	Date	Name	 MOSDORFER KNILLGRUPPE	Replace for	Sun. to dry - no.	
	Drawn	D.III				SANJAY
	Twisted	D.III				VIJAY
Title				Art. No.	I_F03080003	
			Drg. No.			
Horn Holder Socket Eye Straight 20x125 - 120MM			KI_F03080003			
Scale NTS			Rev. 00 Hdd. 00 A3			
			No. of pages Page			

2	1	R - Clip	Stainless Steel AISI - 304	-----
1	1	Horn Holder Socket Eye	Forged Steel, CL-IV IS:2004	hot dip galvanized
Item	Qty	Description	Material / Grade	



1) ALL DIMENSIONS ARE IN mm.
2) GENERAL TOLERANCES : $\pm 3\%$.

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per ~~specification~~

**Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidvut Bhawan, Patna-800021**

(4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.

5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629

(5) IDENTIFICATION MARK-
 E0312020 MM/VV VV

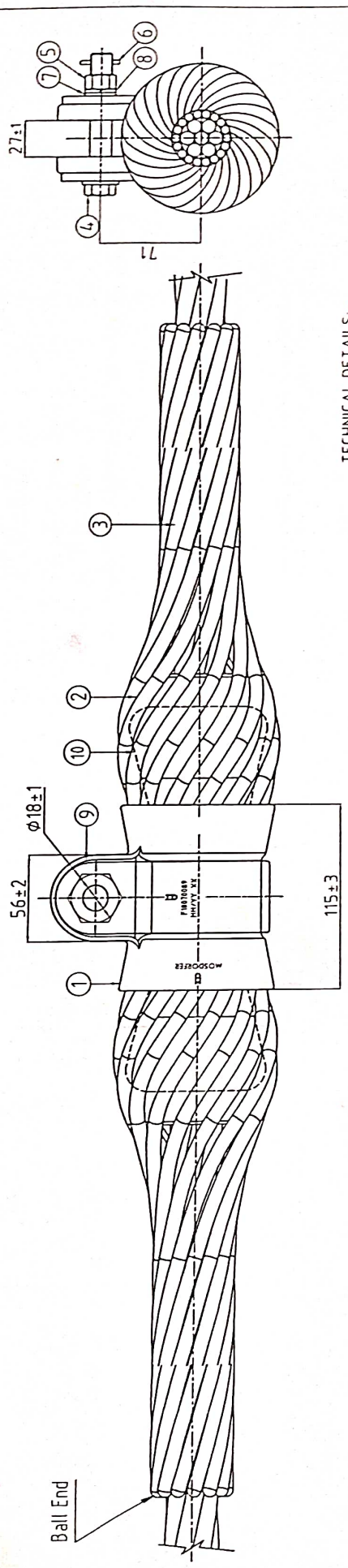
Date:- 08/01/2024

(FUNCHED)

5	1	Humpback Split Pin	Stainless Steel, AISI 304	-----	2022	Date	Name	 MOSDORFER KNILL GRUPPE	Replace for	Sam. to org.-no.
4	1	Hexagon Nut M16	H.T. Steel gr 8, IS : 1367	hot dip galvanized.	Drawn	11/21	EDUATH		Replaced by	
3	1	Plain Washer M16	Mild Steel Fe - 410, IS : 2062	hot dip galvanized.	Decided	11/21	SHEETA		Art. No.	I_F03120228
2	1	Hexagon Bolt M16	H.T. Steel gr 8.8, IS : 1367	hot dip galvanized.	Title				Drg. No.	
1	2	Strap	Mild Steel Fe - 410, IS : 2062	hot dip galvanized.				KI_F03120228 Clevis Eye Straight 10x50x300 - 120KN		
Item	Qty	Description	Material / Grade	Surface	Scale	NTS	No. of pages Page			

No.	Date	Modification	Number

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TECHNICAL DETAILS:-

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BREAKING STRENGTH OF CLAMP : 70 kN
- 4) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
- 5) SPRING WASHER ARE ELECTRO GALVANIZED
- 6) SLIP STRENGTH OF CLAMP 7kN TO 30% OF CONDUCTOR UTS
- 7) UTS OF ARMOUR ROD 35 kg/mm²
- 8) IDENTIFICATION MARK - [KMM/YYI PRODUCT CODE] F18070089;

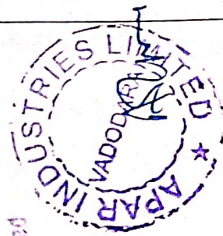


Right Hand Helix

APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification.

Electrical Superintendent
(Planning and Engineering)
State Power Transmission
Viduyut Bhawan, Kavaratti
K



Date:- 08/11/2024

Conductor Name	Conductor Diameter	Armour Rod Diameter	Armour Length	No of Rods Per set	Conductor Diameter with Armour Rod
ACCC DRAKE	28.14 mm	Ø7.87±0.1mm	2080±25mm	12 No's	Ø43.88mm

Rev	Qty	Description	Material / Grade	Surface
10	2	Insert body	High strength Alu. Alloy	—
9	1	Strap	High strength Alu. Alloy	—
8	1	Spring Washer M16	Spring Steel	electro galvanized
7	2	Plain Washer M16	Steel	hot dip galvanized
6	1	Humback Split Pin	Stainless Steel	—
5	1	Hexagon Nut M16	Mild Steel gr 5	hot dip galvanized
4	1	Hexagon Bolt M16	Mild Steel gr 5.6	hot dip galvanized
3	1set	Armour Rod (EHV End)	H.T. Aluminium Rod	—
2	2	HSU (AGS) Rubber Insert	Silicon Rubber	—
1	2	HSU (Clamp Body) (AGS)	Aluminium Alloy	—
Item	Qty	Description	Material / Grade	Surface



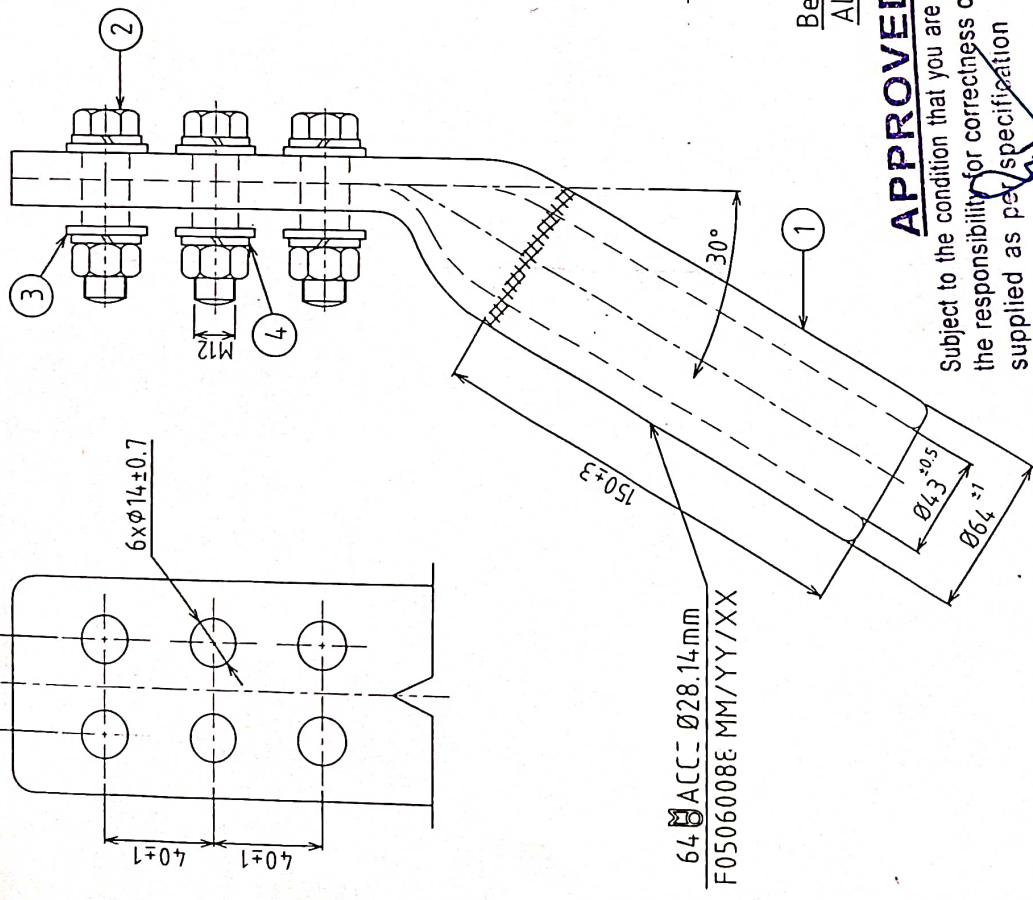
MOSDORFER
KNILLGRUPPE

Rev	Hod	Page
00	00	A3
Title		
HSU - Clamp (Armour grip type susp. clamp)		
ACCC DRAKE (Ø28 14mm)		
Scale		
NTS		
Date		
2020		
Drawn		
12/05		
Check		
12/05		
Name		
Rudra		
Haldia		
Replaced by		
F18070089		
Replaced for		
Sta. to dip. no.		

Letter	Revision	Date	Name

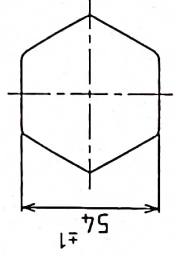
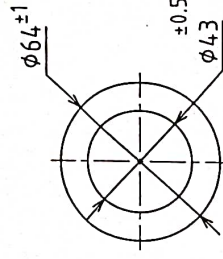
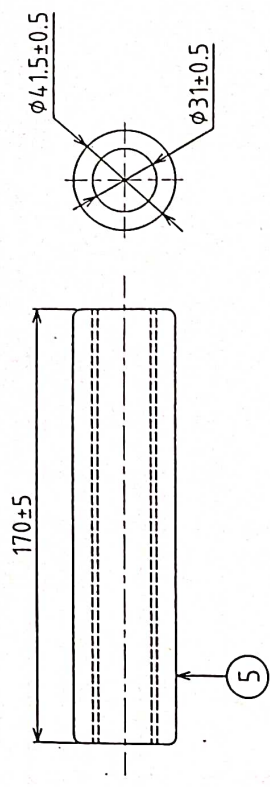
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Modification	Number	Date



TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCE $\pm 3\%$.
- 3) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629



APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

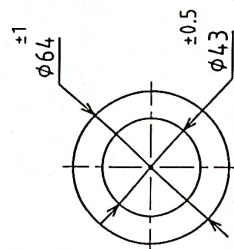
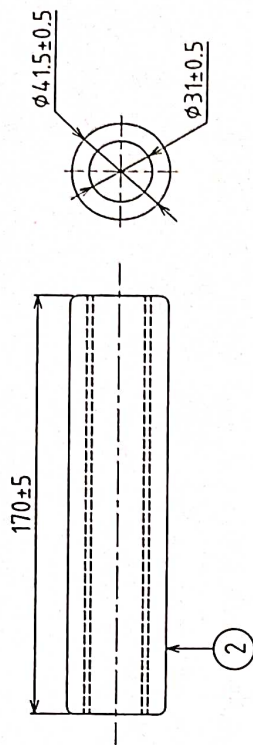
Electrical Superintending Engineer
(Planning and Engineering)

Date:-08/01/2024
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021



Item	Qty	Description	Material / Grade	Surface	NTS	Title	Scale	Drawn	Checkd	Date	Name	Replace for	Replaced by	Art. No.	Rev.	Mod.	Page
5	1	Alu Filler Sleeve	Aluminium Alloy, 1050-0	-----	-----	-----	-----	-----	-----	2023	-----	MOSDORFER	-----	-----	-----	-----	-----
4	12	Conica Spring Washer M12	Spring Steel IS:4072	hot dip / mech.galvanized	-----	-----	-----	-----	-----	25/02	-----	KNITL GRUPE	-----	-----	-----	-----	-----
3	12	Plain Washer M12	Steel Fe-410	hot dip galvanized	-----	-----	-----	-----	-----	25/02	-----	-----	-----	-----	-----	-----	-----
2	6	Hexa Bolt & Nut M12	Steel Gr 8.8/8	hot dip galvanized	-----	-----	-----	-----	-----	25/02	-----	-----	-----	-----	-----	-----	-----
1	1	Jumper	Aluminium Alloy 1050-0	-----	-----	-----	-----	-----	-----	25/02	-----	-----	-----	-----	-----	-----	-----
													Jumper With Bolt				
													ACCC DRAKE (Ø28.14mm)				
													KL F05060088				
													00 00				
													A				

1) ALL DIMENSIONS ARE IN MM.
2) GENERAL TOLERANCE $\pm 3\%$.
3) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629



Before Compression
Aluminium Sleeve

APPROVED

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

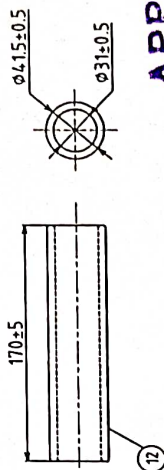
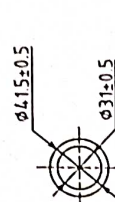
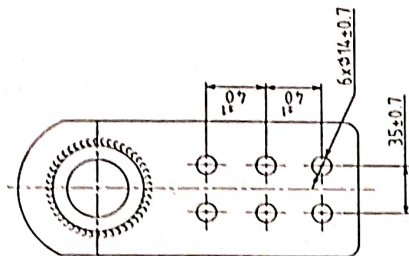
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Patna - 800021

Date:- 08/01/2024

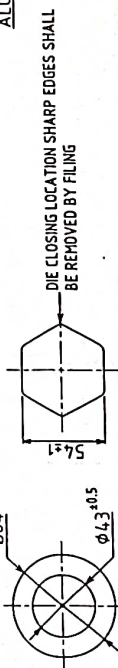
After Compression
Aluminium Sleeve

DIE CLOSING LOCATION
SHARP EDGES SHALL BE
REMOVED BY FILING

[illegible]



ALU FILLER SLEEVE FOR COMPRESSION DEAD END



ALU FILLER SLEEVE FOR JUMPER TERMINAL

APPROVED
MINIMAL
Subject to the condition that you are not absorbed of
the responsibility for correctness of the materials
specification

TECHNICAL DETAILS:

- Electrical Supply and Engineering)
(P)atna Division Company Limited
- 1) ALL DIMENSIONS ARE IN mm
 - 2) GENERAL TOLERANCES $\pm 3\%$
 - 3) SLIP STRENGTH OF CLAMPS ≥ 1000 KG
 - 4) ALL DIMENSIONS ARE AFTER GALVANIZING
 - 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER EN ISO: 1461.
 - 6) THE COMPOUND FOR ALU SLEEVE IS SUPPLIED IN CONTAINER 167gm/SLEEVE.
 - 7) THE CONTACT PASTE FOR ELECTRICAL CONTACT IS ADDED IN TUBES.
1 TUBE (50G) FOR 15 CLAMPS
 - 8) CONTINUOUS OPERATING TEMPERATURE 180°C MAXIMUM EMERGENCY TEMPERATURE 200°C
- INDUS

1 TUBE (50G) FOR 15 CLAMPS
3) CONTINUOUS OPERATING TEMPERATURE 180°C MAXIMUM EMERGENCY TEMPERATURE 200°C
DATE: - 08/01/2024

Date:- 08/01/2024



MOSDORFER
KNILL GRUPPE

2023	Date	Name
Drawn	12/17	LUCY K
	12/17	VILLY

Title

Comp. Dead End Clamp

ASST DRAKE (028.14)

Replace for	No.		Page
Replaced by	No.		
Art. No.	I F0565004		No. of pages
Orig. No.	I F05650041		

Item	Qty	Description	Material / Grade	Surface
15	1	Humpback split pin	Steel Stainless	—
14	1	Plain Washer M12	Mild Steel	hot dip galvanized
13	1	Hexagon Bolt and nut M22	Steel Gr 8.8 / 8	hot dip galvanized
12	1	Hexagon Bolt and nut M22	Aluminium Alloy 1050-0	—
11	1	Alu Filler for Sleeve Terminal	Aluminium Alloy 1050-0	—
10	1	Alu Filler for Sleeve Compression Dead End	Aluminium Alloy 1050-0	—
9	1	Coilet	Steel Stainless	—
8	12	Medium housing	Steel Stainless	—
7	12	Conical Spring Washer M12	Spring Steel	H08 / Mech galvanized
6	6	Plain Washer M12	Mild Steel Fe-410	hot dip galvanized
5	6	Hexagon Nut M12	HT Steel Gr 8	hot dip galvanized
4	1	Hexagon Bolt M12	HT Steel Gr 8.8	hot dip galvanized
3	1	Steel part	Forged Steel CL-IV	—
2	1	Strap	Aluminium Alloy 6082-H111	—
1	1	Jumper	Aluminium Alloy 1050-0	—
	1	Tube	Aluminium Alloy 1050-0	Surface



- 1) 1) ALL DIMENSIONS ARE IN MM.
- 2) 2) GENERAL TOLERANCE $\pm 3\%$.
- 3) 3) BALL AND SOCKET SIZE (16mm 'B') AS PER IS:2486(III) /IEC:60120.
- 4) 4) MIN. UTS OF STRING WITHOUT SUSPENSION CLAMP - 2×90 kN.
- 5) 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629
- 6) 6) HARDWARE TOLERANCES ON LENGTH $\pm 2\%$.

APPROVED Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

Electrical Superintendent
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

Date:-08/01/2024



Letter	Item	Qty.	Description	Standard	Drq. No.	Material	Surface	UTS
	8	1	Clevis Eye Twisted		KI_F03110065	Forged steel CL-IV, IS:2004	hot dip galvanized	140 kN
	7	1	Clevis eye Straight		KI_F03120076	Mild steel Fe-410, IS:2062	hot dip galvanized	90 kN
	6	2	Arcing Ring		KI_F07110093	Mild steel Fe-410, IS:2062	hot dip galvanized	1.5kN
	5	2	Socket clevis	IEC 60120	KI_F03070014	Forged steel CL-IV, IS:2004	hot dip galvanized	90 kN
	4	2	Arcing horn		KI_F07070027	Mild steel Fe-410, IS:2062	hot dip galvanized	1.5kN
	3	2	Ball clevis	IEC 60120	KI_F03050006	Forged steel CL-IV, IS:2004	hot dip galvanized	90 kN
	2	2	Yoke Plate		KI_F03160051	Mild steel Fe-410, IS:2062	hot dip galvanized	140 kN
	1	1	Anchor Shackles		KI_F03090015	Forged steel CL-IV, IS:2004	hot dip galvanized	140 kN

2023	Date	Name	 MOSDORFER KNILLGRUPPE	Replace for	San to dry no.		
26.09.	Preja			Replaced by	I_HS21E0212		
26.09.	Nandun			Art. No.	I_HS21E0277		
			Title	Drq. No.	Rev.	Hdd.	A3
			220 kV Double Suspension String	I_HS21E0277	00	00	
			Without Clamp	No. of parts		Page	

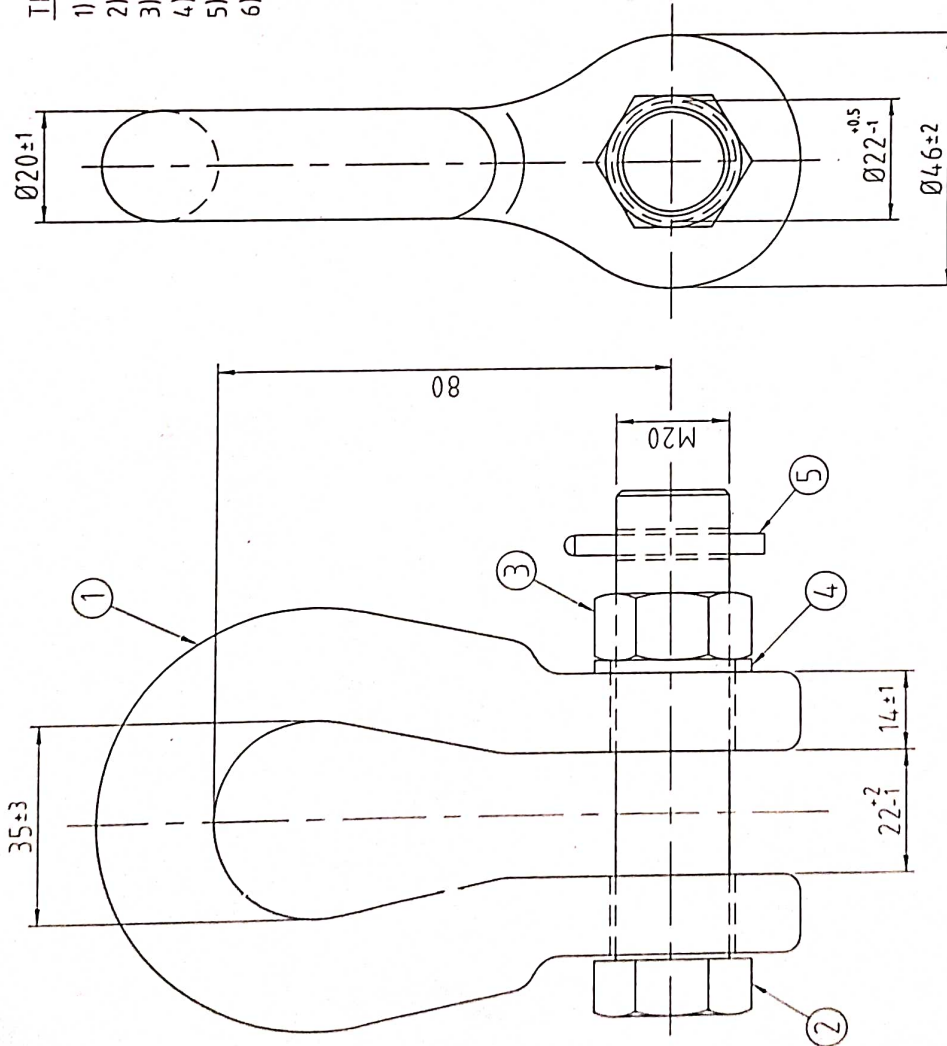
HS21E0277	00	00	A3
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Letter	Revision	Date	Name

Letter	Revision	Date	Name

Letter	Revision	Date	Name

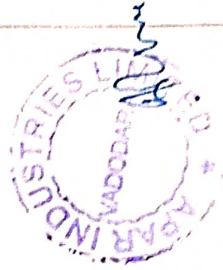
- 1) ALL DIMENSIONS ARE IN mm
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 140 kN
- 4) ALL DIMENSIONS ARE AFTER G
- 5) ALL FERROUS PARTS ARE HOT
- 6) IDENTIFICATION MARK - (2007)



APPROVED
Subject to the condition that you are not absolved of
the responsibility for correctness of the materials
supplied as per specification.

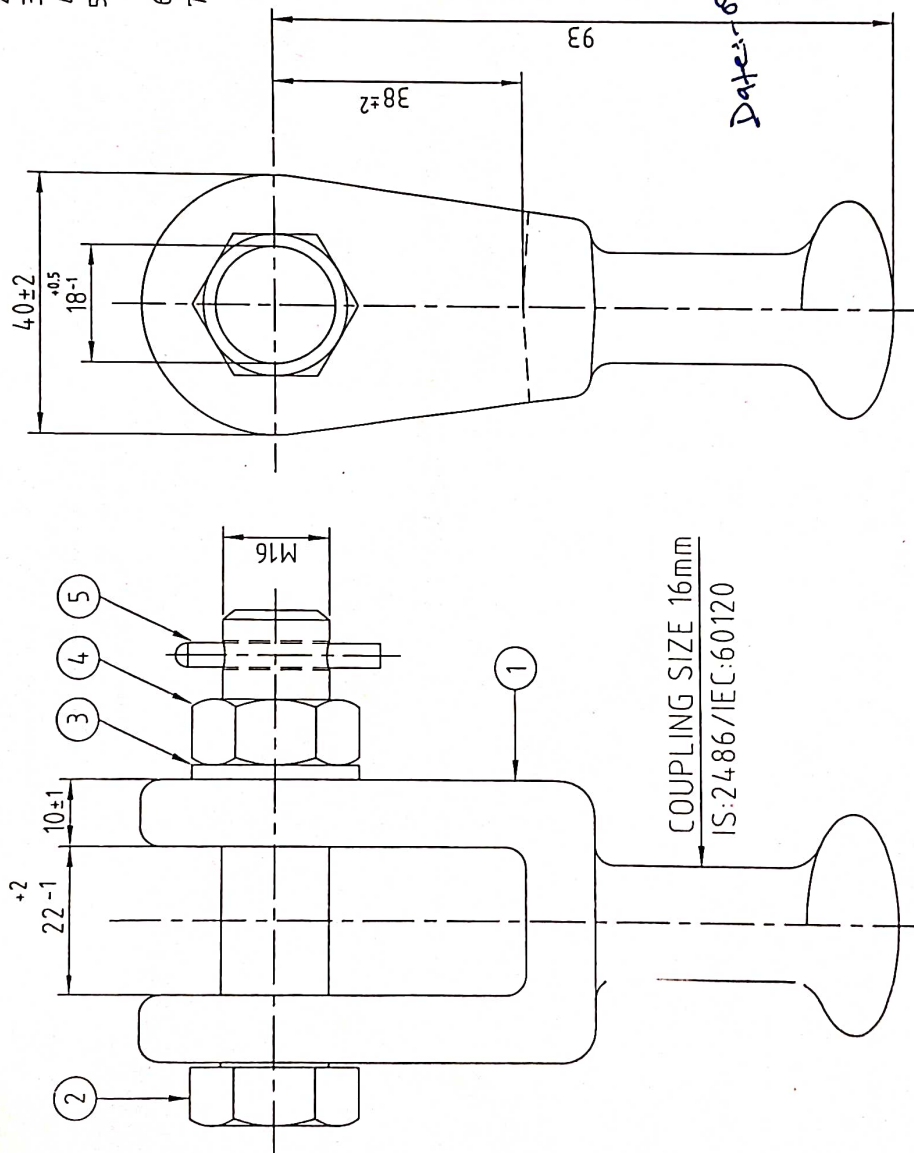
4

Date:- 08/01/2024



- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BALL & SOCKET SIZE 16mm AS PER IS:2486/IEC:60120.
- 4) BREAKING STRENGTH : 90 kN.
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION
EXCEPT DRILLED HOLES.
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2486/IEC:60120.
- 7) IDENTIFICATION MARK -

605	PRODUCT CODE	MM/YY XX
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APPROVED
Subject to the condition that you are not absolved of
the responsibility for correctness of the materials
supplied as per specification
[Signature]
[Signature] Engineer

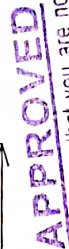
Electrical Superintending
(Planning and Engineering)
Patna State Power Transmission Company Limited
Patna-800021
Bihar, Patna-800021

Bihar State Power Co., Patna-8
Bihar State Power Co., Patna-8

✓

Date:- 08/01/2024

[illegible]



APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification

supplied as per ~~the~~ the ~~following~~ following Engineering
Electrical Subcontracting Engineering
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Bihar-800021
Vidhyut Bhawan, Patna-800021 10

Date:-08/01/2029

TECHNICAL DETAILS:

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 1.5 kN
- 4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
- 6) SPRING WASHERS ARE ELECTRO GALVANIZED
- 7) IDENTIFICATION MARK -  F07070027 MM/YY XX

Revision						
Letter	Qty	Description	Material / Grade	Surface		
01	1	Arcing Horn	Mild Steel Fe - 410, IS : 2062	hot dip galvanized		
	2	Ball	Forged Steel (L-II), IS : 2004	hot dip galvanized		
	3	Hexagon Bolt M12	Mild Steel or S.S IS : 1367	hot dip galvanized		
	4	Hexagon nut M12	Mild Steel or S IS : 1367	hot dip galvanized		
	5	Spring washer M12	Spring Steel IS : 3063 & 4072	electro galvanized		
	6	Plain washer M12	Mild Steel Fe - 410 IS : 2062	hot dip galvanized		

2014	Date	Name		MOSDORFER KNILL GRUPPE	Replace for Replaced by Art. No.	Sim. To Reg.-no.
Drawn	24.03	PRATHAKSHI				
Checked	24.03	SUNJAY				
Title						
			Drwg. No. <u>I_F07070027</u>			
Scale NTS			Per <u>01</u> Mod <u>00</u>			
			Page <u>A3</u>			
			No. of pages			

- 1) ALL DIMENSIONS ARE IN mm
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 90 kN
- 4) BALL & SOCKET SIZE 16mm B AS PER IS:2486/IEC:60120.
- 5) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 6) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.

7) IDENTIFICATION MARK -  711 PRODUCT CODE MM/YY XX

APPROVED

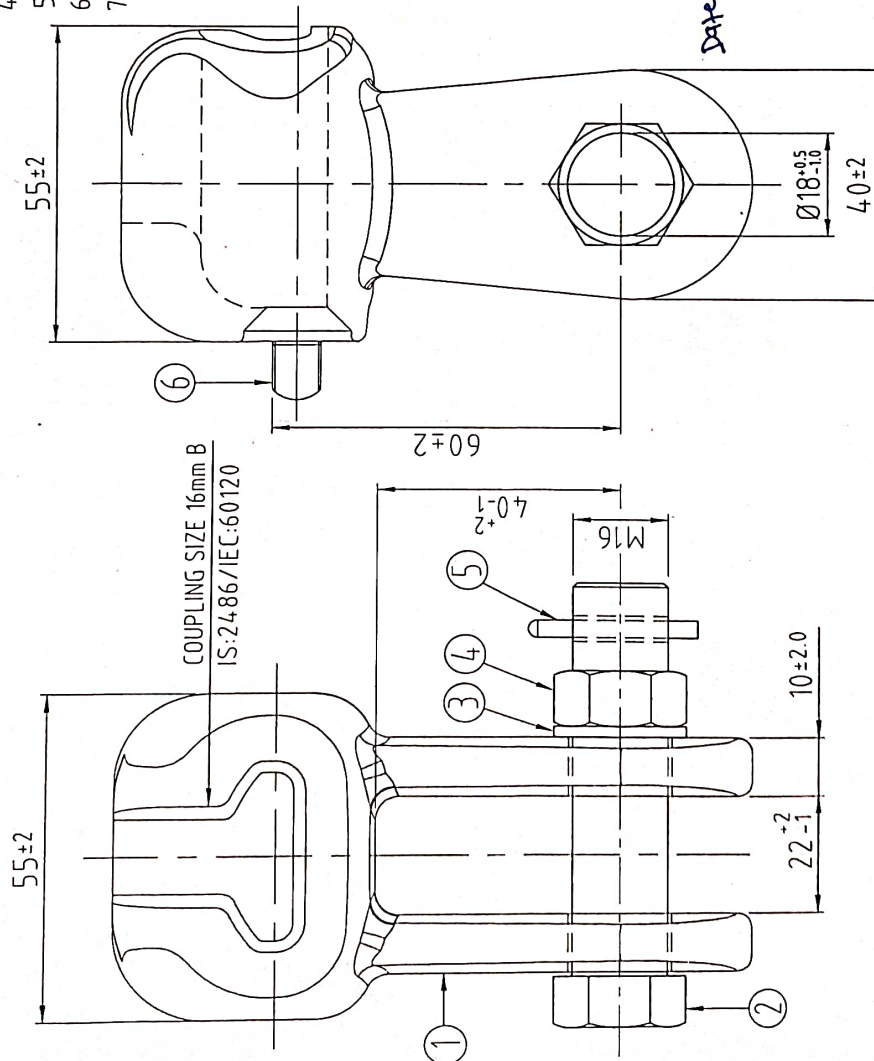
APPROVED
Subj to the condition that you are not absolved of
responsibility for correction

the responsibility of specification
supplied as per specification
Electrical Superintending Engineer
(Planning and Engineering)
Electrical Superintending Engineer Limited
(Planning and Engineering Company Limited
Patna-800021
Bihar State Power Transmission, Patna-800021

Bihar State Police —
Bhawani Bhawan,
Vidya Vihar

8712

Date:--08/01/2024



6	1	R - Clip	Stainless Steel AISI - 304	-----
5	1	Fumbark Split Pin	Stainless Steel, AISI - 304	-----
4	1	Hexagon nut M16	Mild Steel gr 5 IS : 1367	hot dip galvanized.
3	1	Plain Washer M16	Mild Steel Fe - 410, IS : 2062	hot dip galvanized.
2	1	Hexagon Bolt M16	Mild Steel gr 5.6, IS : 1367	hot dip galvanized.
1	1	Socket Clevis	Forged Steel CL - IV, IS : 2004	hot dip galvanized.
Item	Qty	Description	Material / Grade	Surface

Revision

No.	Date	Name	Description
1	11/09	KRMN	Drawn
2	11/09	SANJAY	Checked

MOSDORFER
KNILLGRUPPE

Scale

NTS

Letter

No.	Date	Name	Description
1	11/09	KRMN	Drawn
2	11/09	SANJAY	Checked

MOSDORFER
KNILLGRUPPE

Scale

NTS

Revision

No.	Date	Name	Description
1	11/09	KRMN	Drawn
2	11/09	SANJAY	Checked

MOSDORFER
KNILLGRUPPE

Scale

NTS

Letter

No.	Date	Name	Description
1	11/09	KRMN	Drawn
2	11/09	SANJAY	Checked

MOSDORFER
KNILLGRUPPE

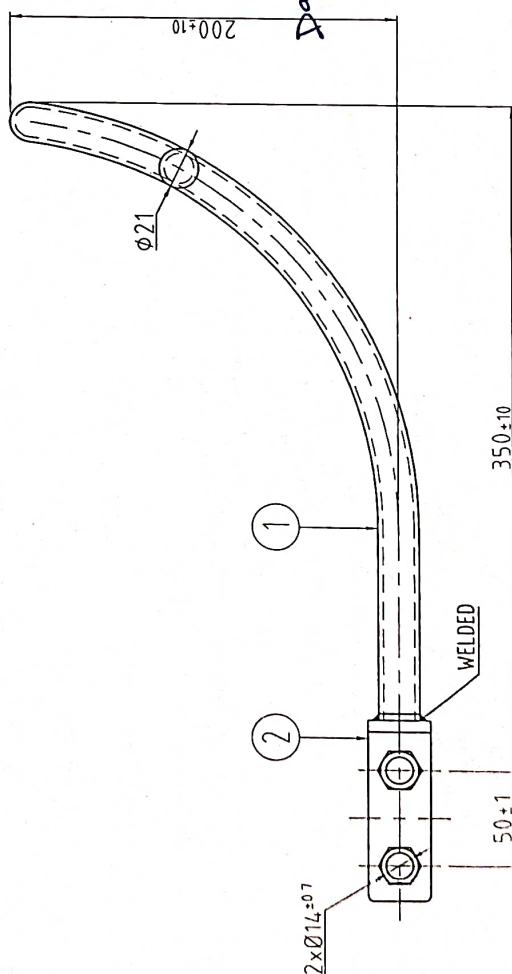
Scale

NTS

Technical drawing of a U-shaped metal bracket. The drawing shows a symmetrical U-shaped component with a central vertical dashed line indicating the axis of symmetry. The top horizontal flange has a width dimension of 220 ± 10 . The vertical stem has a diameter dimension of $\phi 8 \pm 2$. The drawing includes callouts 3, 4, 5, and 6 pointing to specific features: 3 points to the top flange, 4 points to the vertical stem, 5 points to the bottom flange, and 6 points to the top flange. The drawing is labeled '220 ± 10' at the top and 'φ 8 ± 2' at the bottom.

- F071100931MM/YY XX

Date:-08/01/2024



Rev	Item	Qty	Description	Material / Grade	 Scale NTS	 Title	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date	Drawn DATE	Checked DATE	NAME	2022 Date
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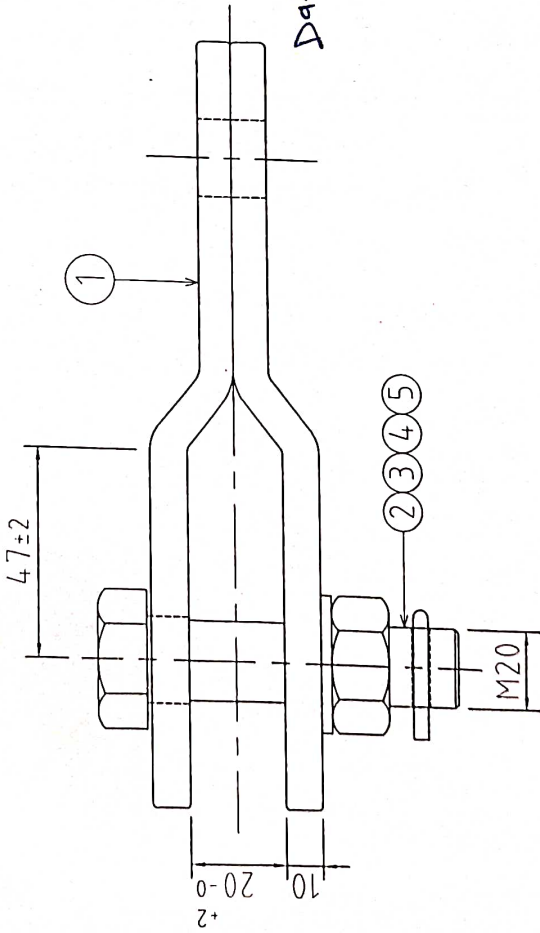
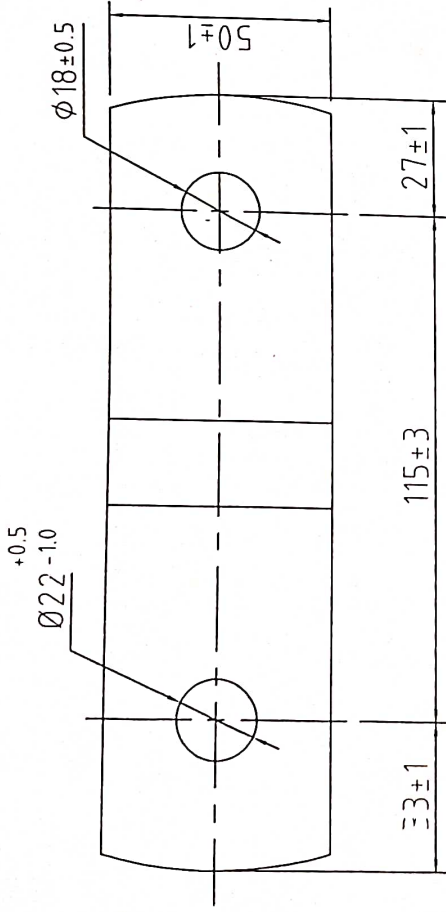
Letter	Lim	Qty	Description	Material
	5	1	Humpbac Split pin	Stainless Steel, AISI - 304
	4	1	Plain Washer M20	Mild steel Fe-410, IS:2062
	3	1	Hexagon Nut M20	Mild Steel gr 5, IS: 1367
	2	1	Hexagon Bolt M20	Mild Steel gr 5.6/5, IS: 1367
	1	2	Strap	Mild steel Fe-410, IS:2062



Revision		Date		Name		MOSDORFER KNILLGRUPPE		Replaced for		Sim. to drg.-no.	
		2022		Date		Name		Replaced by		Sim. to drg.-no.	
		Drawn		T01		Eckardt		Art. No.		L_F03120076	
		Checked		T01		Shweta		Drg. No.		KL_F03120076	
		Scale		Title		Title		Rev.		No. of pages	
		1:1		Clevis Eye Straight		10x50x15-90MM		00		00	
								A4		Page	

TECHNICAL DETAILS:

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$.
- 3) BREAKING STRENGTH - 90 kN.
- 4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629.
- 6) IDENTIFICATION MARK - [F03120076]MM/YY XX



APPROVED
 Subject to the condition that you are not absolved of
 the responsibility for correctness of the materials
 supplied as per specification
 Electrical Superintending Engineer
 (Planning and Engineering)
 Bihar State Power Transmission Company Limited
 Vidhyut Bhawan, Patna-800021

Date:- 08/01/2024

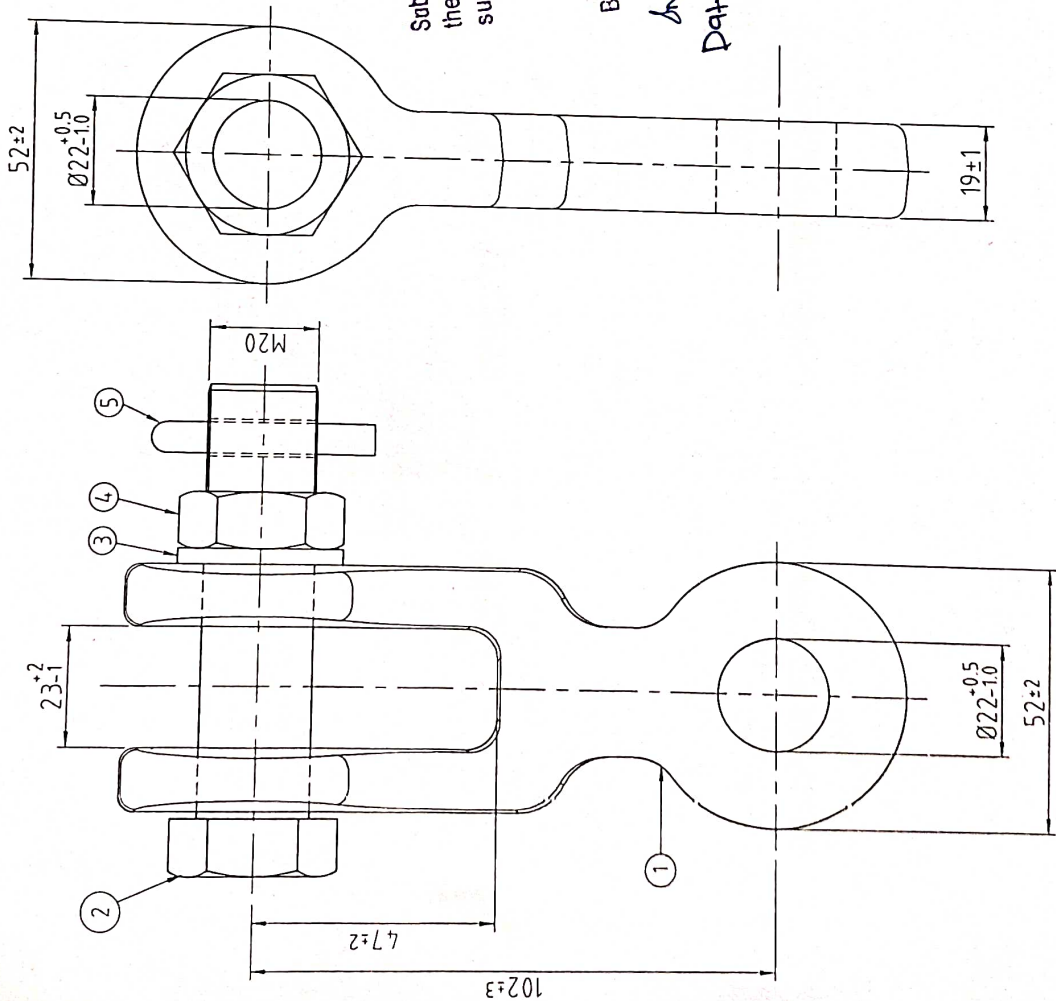
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Material Changed	Modification	Date	Md.
		26.02.2022	

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Number	
01	

Revision	Date	Name



TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : $\pm 3\%$
- 3) BREAKING STRENGTH : 140 kN
- 4) ALL DIMENSIONS ARE AFTER GALVANIZATION EXCEPT DRILLED HOLES.
- 5) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS 2629.
- 6) IDENTIFICATION MARK - [M] 922G [PRODUCT CODE] [MM/YY XX]

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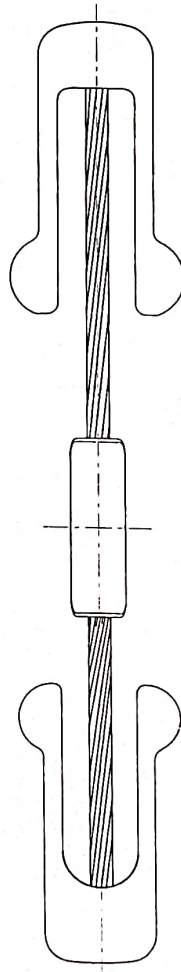
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

big
Date :- 08/01/2024



Re	5	1	Humpback Split Pin	Stainless Steel, AISI - 304	-----	hot dip galvanized.	Title	Drg. No.	KI_F03110065	Rev.	00	01	A3
	4	1	Hexagon Nut M20	Mild Steel gr-5, IS : 1367	hot dip galvanized.	Scale							
Letter	3	1	Plain Washer M20	Mild Steel Fe - 410, IS : 2062	hot dip galvanized.		Surface	Material / Grade	Clevis Eye Twisted	19x102 M20 - 140kN	No. of pages	Page	
	2	1	Hexagon Bolt M20	Mild Steel gr-5.6, IS : 1367	hot dip galvanized.								
	1	1	Clevis Eye Twisted	Forged Steel CL-IV, IS:2004									
	Item	Qty	Description	Material / Grade		Surface							

1) ALL DIMENSIONS ARE IN mm.
2) GENERAL TOLERANCES : $\pm 3\%$.
3) CLAMP SLIP STRENGTH - 2.5 kN.
4) INSTALLATION TORQUE : 40 Nm.
5) MASS PULL OF STRENGTH : 5 kN
6) ALL FERROUS PARTS HOT DIP GALVANIZED AS PER BS EN ISO:1461.
7) UTS OF MESSENGER CABLE : 135 kg/mm² (Min.)
8) IDENTIFICATION MARK : STAMPING AS SHOWN



APPROVED

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Engineer

Electrical Superintending
(Planning and Engineering)
Mahar State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

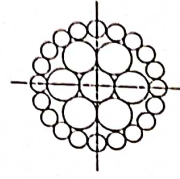
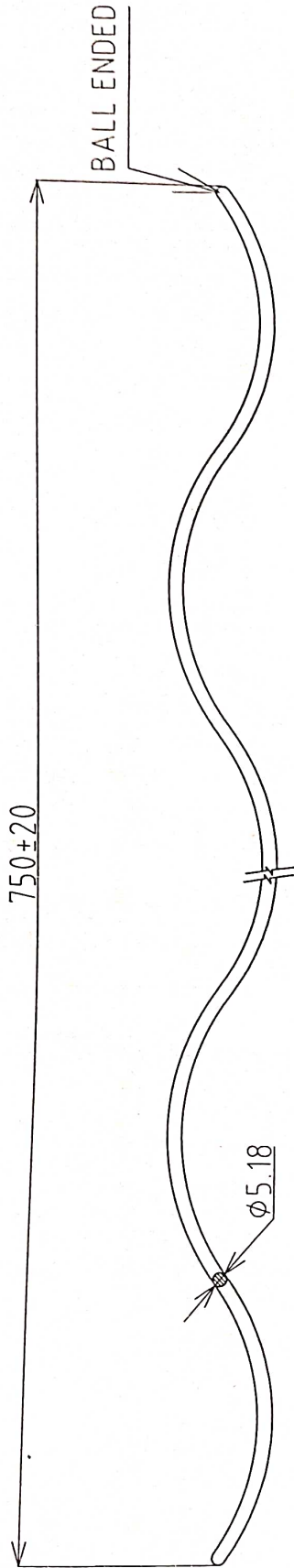
Date:- 08/01/2024

2022	Date	 MOSDORFER KNILLGRUPPE	Replace for	5m. to disp. no.
	Year		Replaced by	
	Model		Art. No.	
	Title		Dwg. No. KI F10010393 Rev. 00 Mod. 00	Page A3 No. of pages
	Stockbridge Vibration Damper Ø78,5 - Ø14 mm			
	Scale --			



Stockbridge Vibration Damper
Ø28.5 - Ø41mm

750±20



RIGHT HAND HELIX

Conductor Name	Cond Dia	Armour Dia	Armour Rod Length	No of Rod	Cond Dia with Armour rod
ACCC Drake	$\phi 28.14$ mm	$\phi 5.18 \pm 0.1$ mm	750±20 mm	18 Nos.	$\phi 38.5$ mm

APPROVED

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TECHNICAL DATA:

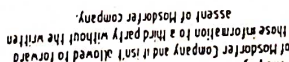
- 1) ALL DIMENSIONS ARE IN mm
- 2) MATERIAL - H T ALU ALLOY
- 3) CONDUCTIVITY OF ARMOUR ROD NOT LESS THAN 39% OF IACS
- 4) UTS OF AROUND ROD - 35kg/mm²

Electrical Superintending Engineer
(Planning and Engineering)
Chennai Power Transmission Company Limited
(Planning and Engineering)
Patna-800021

Date:-08/01/2024



2023		Date	Name	MOSDORFER KNILLGRUPPE		Replaces for	Sum to org-no
Drawn	2018	2018	2018			Replaced by	
Issued	2018	2018	2018			Art. No.	I F10030503
Title				Armour Rod		Org. No.	KI F10030503
Scale				NTS		Rev.	00 00
				ACCC Drake $\phi 28.14$ mm		Mod.	A3
						No. of pages	Page



- 1) ALL DIMENSIONS ARE IN mm.
- 2) GENERAL TOLERANCES : ±3%.
- 3) BREAKING STRENGTH OF CLAMP : 70 kN
- 4) ALL FERROUS PARTS ARE -HOT DIP GALVANIZED AS PER IS-2629.

AS PER IS:2629.

5) SPRING WASHER ARE ELECTRO GALVANIZED
6) SLIP STRENGTH OF CLAMP 7kN TO 30% OF CONDUCTOR UTS
7) UTS OF ARMOUR ROD 35 kC/mm²

8) IDENTIFICATION MARK [210] - YYYY [PRODUCT CODE F18070097]

Subject to the condition that you are not assured
the responsibility for correctness of the materials
supplied as per specification.

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Patna-800021

ADAR INDUSTRIES LIMITED
(VADODARA)

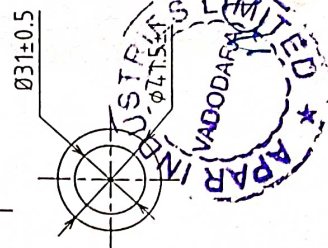
Date:- 08/01/2024

Conductor Name	Conductor Diameter	Armour Rod Diameter.	Armour Length	No of Rods Per set	Conductor Diameter with Armour Rod
ACCC DRAKE	28.14 mm	$\varnothing 7.87 \pm 0.1 \text{ mm}$	$1600 \pm 25 \text{ mm}$	12 No's	$\varnothing 43.88 \text{ mm}$

10	2	Insert body	High strength Alu. Alloy 65032/6061, IS:733	_____
9	1	Strap	High strength Alu. Alloy 65032/6061, IS:733	_____
8	1	Spring Washer M16	Spring Steel, IS:4072 & IS : 3063	electro galvanized
7	2	Plain Washer M16	Mild Steel Fe - 410, IS : 2062	hot dip galvanized
6	1	Humback Spill Pin	Stainless Steel, AISI : 304	_____
5	1	Hexagon Nut M16	Mild Steel gr 5, IS : 1367	hot dip galvanized
4	1	Hexagon Bolt M16	Mild Steel gr 5.6, IS : 1367	hot dip galvanized
3	1set	Armour Rod(EHV End)	H.T. Aluminium Rod 65032/6061, IS:733	_____
2	2	HSU (AGS) Rubber Insert	Silicon Rubber	_____
1	2	HSU (Camp Body (AGS)	Aluminium Alloy 4600, IS : 617	_____
Item	Qty	Description	Material / Grade	Surface

2020	Date	Name	 MOSDORFER KNILLGRUPPE	Replicate for Replicated by Art. No.	Rep. No. KI_ F18070091	Rep. No. 00 00	A3
Drawn	12.05	Rufaja					
Checked	12.05	Hahnke					
			Title	HSU - Clamp (Armour grip type susp pilot clamp) ACCO DRAKE (Ø28/14mm)			
Scale NTS			No. of pages Page				

2023	Date	Name	 MOSDORFER KNILLGRUPPE	Replace for	Sim. to orig. no.
Drawn	5/02	Etalsh		Replaced by	
Issued	5/02	Sawyer		Art. No.	L_F11090116
 Title			Dwg. No. KL_F11090116 Rev. 00 Mod. 01 A3	Page No. of pages	
 Scale			T-Connector ACC. DRINK 028 14mm		
 NTS					



TECHNICAL DETAILS

1) ALL DIMENSIONS ARE IN mm.
2) GENERAL TOLERANCES±3
3) ALL FERROUS PARTS ARE HOT DIP GALVANIZED AS PER IS:2629/CLIENT SPEC.

Letter	Rev	Date	Name
01		28.08.2023	Nitin

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Number	Modification
01	After compression dimension added

Date	Name
08.11.2023	

BEFORE COMPRESSION 275±5/AFTER COMPRESSION 330 APPROX

Compression

56 ACCC Ø28.14mm F11060218 MM/YY XX

APPROVED

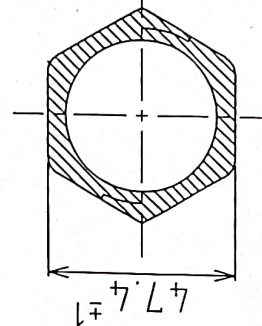
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Electrical Superintending Engineer
 (Planning and Engineering)

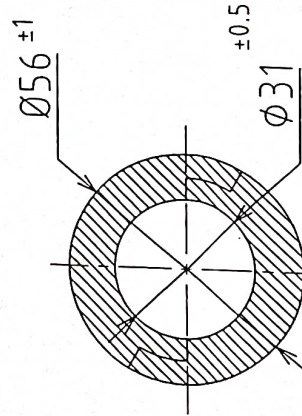
Bihar State Power Transmission Company Limited
 Vidyapati Chowk, Patna-800021

DIE CLOSING LOCATION SHALL BE
 SHARP EDGES SHALL BE
 REMOVED BY FILING

Date: 28/10/2024



After Compression
 Aluminium Sleeve



Before Compression
 Aluminium Sleeve

TECHNICAL DETAILS :

- 1) ALL DIMENSIONS ARE IN mm
- 2) GENERAL TOLERANCES : ±3%

01	Outer Diameter Change	Revision		Date	Name
		Rev	Mod		
1	2	Alu.Repair Sleeve	Aluminium Alloy 1050-0		
1	Qty	Description	Material		
			Surface		
		Compression Repair Sleeve		ACCC DRAKE (Ø28.14mm)	
		Org. No.		KI_F11060218	
		Art. No.		F11060218	
		Replaced by		F11060218	
		Replace for		Sim to Org. No.	
		No. of pages		Page	
		01 01		A4	

