Registered Post

भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन,
मानकनगर, लखनऊ-226011
Government of India - Ministry of Railways
Research Designs & Standards Organisation
Manak Nagar, Lucknow – 226011
सत्यमेव जयते

दूरभाष/Telephone:
बीएसएनएल/BSNL:91-522-2465731
रेलवे/Railway: 42804
फैक्स/Fax : 91-0522-2465731
ई मेल/E-mail : dtiohed.rdso@gmail.com

कार्यालय अधिकारी रेल विद्युतीकरण, प्रयागराज
No. 3
30 NOV 2021

To,
The Chief Administrative Officer,
Central Organisation for Railway Electrification,
1, Nawab Yusuf Road, Civil lines,
Prayagraj-211001.

Sub: Development of Current Carrying Dropper Fittings as per RDSO Specification No. TI/SPC/OHE/Fittings/0130(10/13) Rev 1.

Ref: (i) RDSO's instruction No. TI/IN/0042 dated 23.10.2020.
(ii) Railway Board letter No. 2010/Elect(DEV)/225/1 dated 07.06.2010.

1.0 Vide Para no. 1.2.7 of instruction No. TI/IN/0042 dated 23.10.2020 referred at (i) above for increasing speed potential to 160kmph on NDLS-HWH & NDLS-BCT routes, RDSO has already advised for 2X25kV OHE System with the Current carrying 'A' dropper as per Specification No. TI/SPC/OHE/CCFD/ 0160(02/2020) or one C jumper (in span jumper) in every span should be provided. The Drawing Nos. TI/DRG/OHE/CCD/RDSO/00001 to 4/20/0 for current carrying dropper assembly, Catenary wire clamp, Contact wire Clamp, Compression sleeve, thimble & cable lug for current carrying droppers were attached as Annexure-34, 35, 36,37.

2.0 In compliance to Para 1.0 above, RDSO has revised OHE fitting specification No. TI/SPC/OHE/Fittings/130(10/13) for inclusion of Copper Nickel Silicon Alloys (CuNi2Si) fittings to be used in current carrying dropper assembly and finalised as specification No. TI/SPC/OHE/Fittings/130(10/13), Rev 1. The physical and chemical properties of current carrying dropper fittings and drawings for current carrying dropper fittings are given in Appendix 'M' of specification No. TI/SPC/OHE/Fittings/130(10/13), Rev 1.

3.0 This revised specification is also applicable and effective from 30.11.2021 for current carrying dropper fittings & other OHE fittings such as copper, copper alloys, malleable cast iron, aluminium alloy, forged steel, fabricated/welded steel, copper strip, Spheroidal Graphite Cast Iron (SGCI) of OHE fittings.

4.0 Copy of the revised specification along with current carrying dropper fitting drawings are enclosed herewith.

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मु0 वि0 अभि0 / (एम0पी0)
मु0 वि0 अभि0 / (पी0एण्ड डी0)
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उप मुख्य विद्युत अभि0/(एम0पी0)
उप मुख्य विद्युत अभि0/(पी0एस0आई)
उप मुख्य विद्युत अभि0/(पी0)
उप मुख्य विद्युत अभि0/जो0एक0ई0( )

SSE/IMP-II
3/11/21

5.0 You are advised to develop source for the current carrying Dropper fittings as **per** RDSO's specification no. TI/SPC/OHE/Fittings/130(10/13), Rev 1 and current procedure being followed by CORE/Allahabad.

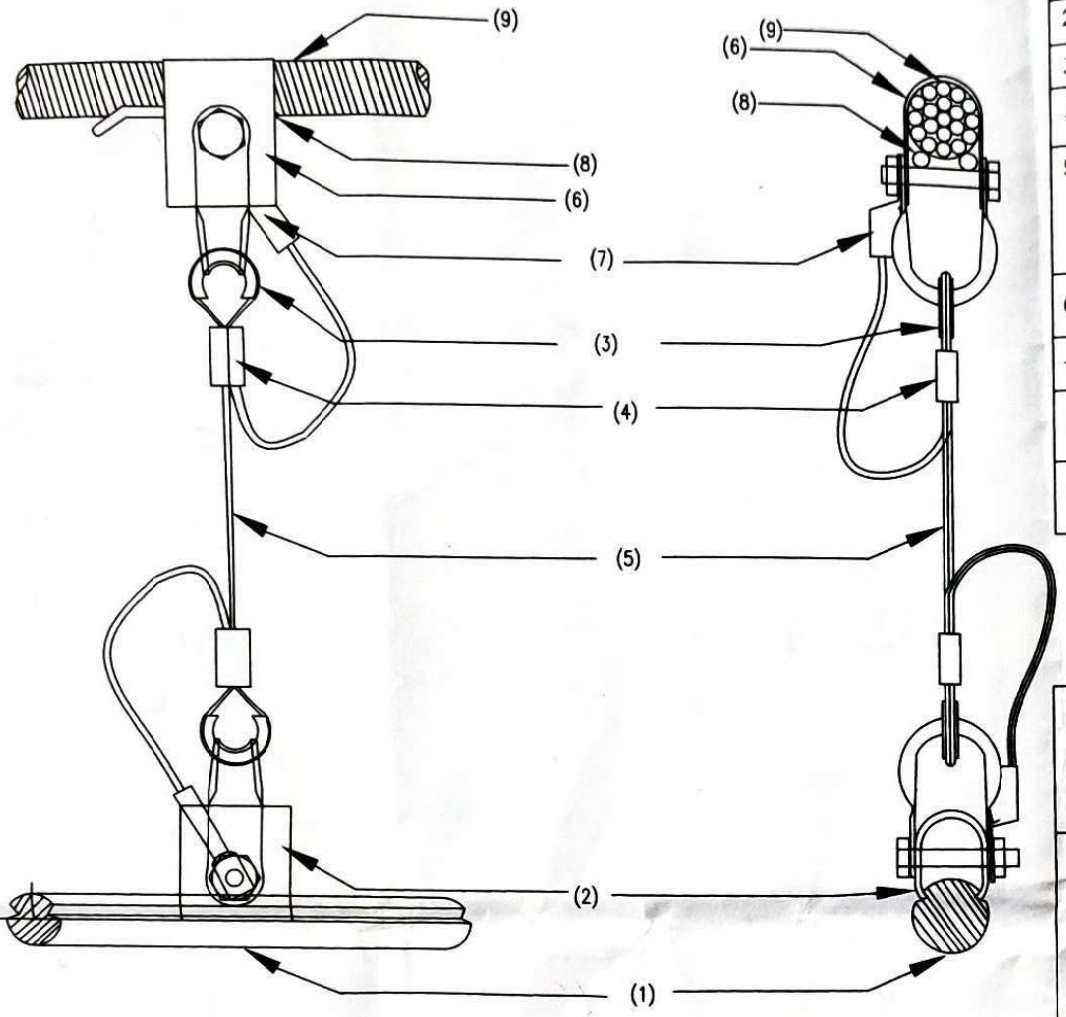
Digitally Signed by Girraj Kishore
Date: 19-11-2021 10:45:47
Reason: Approved

(Girraj Kishore)
Joint Director/(TI-II)
For Director General(TI)]

Encl: As above.

Copy to: (a) The secretory (Electrical), Railway Board, Rail Bhawan, New Delhi-110001- for kind information pl.
(b) Principal Chief Electrical Engineer,

(i) Central Railway, Station Building, Mumbai CST – 400 001.
(ii) Eastern Railway, Fairlie Place, Kolkata-700 001.
(iii) East Central Railway, Hajipur-844 101.
(iv) East Coast Railway, Bhubaneshwar-751 023.
(v) North Eastern Railway, Gorakhpur-273 012.
(vi) Northern Railway, Baroda House, New Delhi - 110 001
(vii) North Central Railway, Allahabad-211 015.
(viii) North Frontier Railway, Mailgaon - 781 011
(ix) North Western Railway, Jaipur – 302 017.
(x) Southern Railway, Park Town, Chennai- 600 003.
(xi) South Eastern Railway,Garden Reach, Kolkata-700 043.
(xii) South Central Railway, Railnilayam, Secunderabad-500 371
(xiii) South East Central, Railway, Bilaspur-495 004.
(xiv) South West Railway, DRM's Office, Hubli-580 028.
(xv) Western Railway, Churchgate, Mumbai-400 020.
(xvi) West Central Railway, Jabalpur- 482 001.
(xvii) Konkan Railway Corporation Ltd., Belapur Bhavan, Sector 11, CBD-Belapur, Navi Mumbai, Maharastra-400614.



SN	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION
1	CONTACT WIRE	–	–	ETI/OHE/76(6/97)
2	CONTACT WIRE CLAMP	1192–2	CuNi2Si	ASTM B411
3	THIMBLE	–	Cu–ETP	IS:1897–2008
4	COMPRESSION SLEEVE	–	Cu–ETP	IS:1897–2008
5	CURRENT CARRYING FEXIBLE DROPPER WIRE DIA. 7.5MM, HAVING 25 SQMM X-SECTINAL AREA	–	Cu–Mg	TI/SPC/OHE/CCFD/0160 (02/2020)
6	CATENARY WIRE CLAMP	1192–1	CuNi2Si	ASTM B411
7	CABLE LUG	–	Cu–ETP	IS:1897–2008
8	STOPPER PIN	1182–1	ANNEALED COPPER	IS–549
9	CATENARY WIRE	–	Cd–Cu	ETI/OHE/50 (6/97)

NOTE–
1. ALL DIMENSION ARE IN MM.
2. TOERANCE OF ±0.5MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN..
3. FOR CONTACT WIRE CLAMP SEE THE DRG. NO.TI/DRG/OHE/CCD/00003/20/0
4. FOR CATENARY WIRE CLAMP SEE THE DRG. NO.TI/DRG/OHE/CCD/00002/20/0
5. FOR CRIMPING SLEEVE, THIMBLE AND CABLE LUG SEE THE DRG. NO. TI/DRG/OHE/CCD/RDSO/00004/0
6. MANUFACTURERS, INITIALS/MONOGRAM TO BE PROVIDED.

"THIS DRAWING IS THE PROPERTY OF RESEARCH, DESIGNS & STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW–226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED, IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."

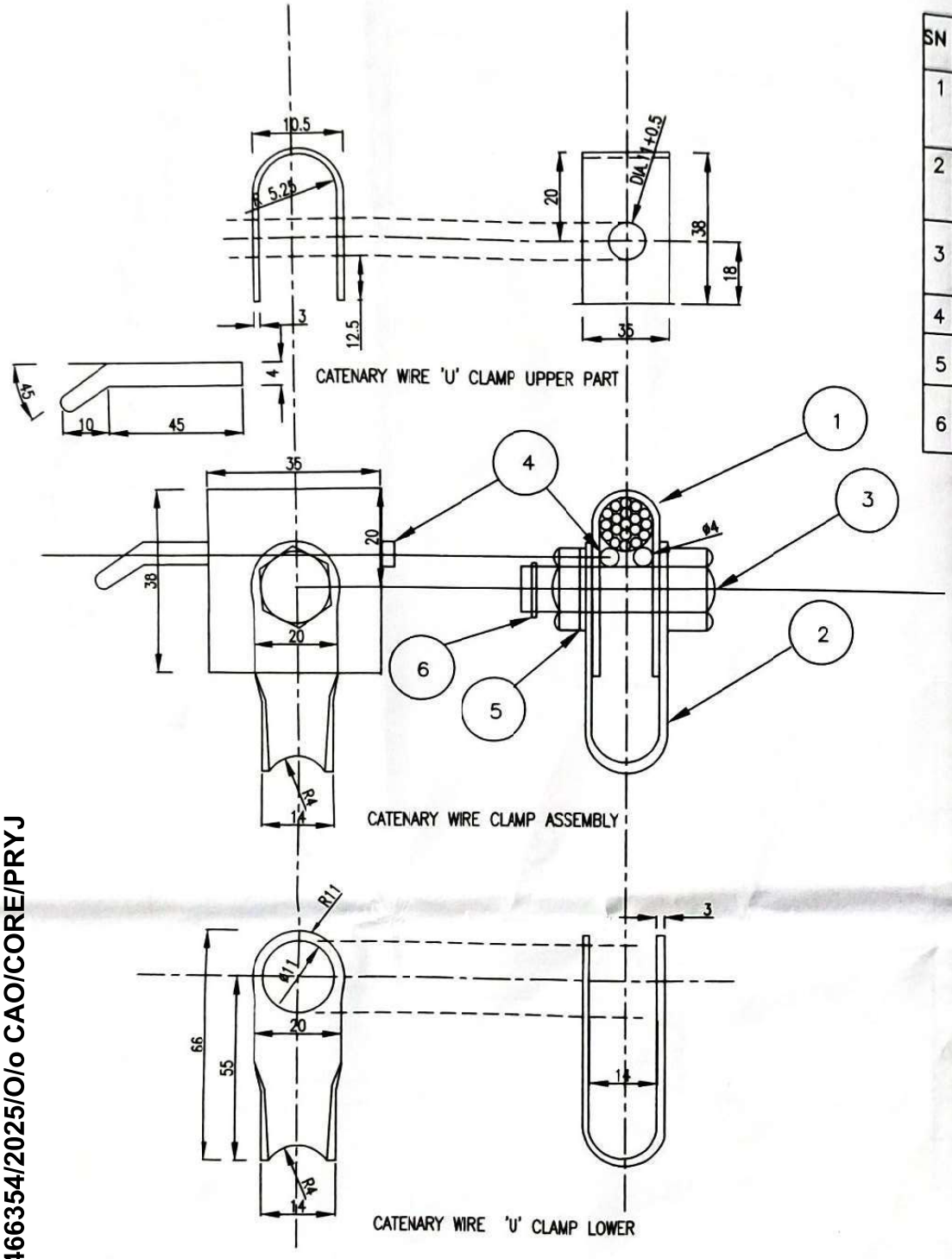
CURRENT CARRYING DROPPER ASSEMBLY	JDTI–II	C.L 14.01.2021

REF: ETI/OHE/P/1190 REV. B

DATE	MOD.	NATURE OF MOD.	INITIALS		DATE	NAME	TI/DRG/OHE/CCD/RDSO/00001/20/0	
				DR		SKJ		
				TC				
				CK		DHARMARJ	SCALE	NTS

3466354/2025/O/o CAO/CORE/PRYJ

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SN	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION
1	CATENARY WIRE 'U' CLAMP UPPER	1192-1	CuNi2Si	ASTM B 411
2	CATENARY WIRE 'U' CLAMP LOWER	1192-1	CuNi2Si	ASTM B 411
3	BOLT M 10X35/30 WITH NUT	-	STAINLESS STEEL	TI/SPC/OHE/FASTENER /0120
4	STOPPER PIN	1182-1	ANNEALED COPPER	IS:549
5	SPRING WASHER	-	PHOSPHOR BRONZE	TI/SPC/OHE/FASTENER /0120
6	SPLIT PIN 2.5X20	-	ANNEALED COPPER	IS:549

NOTE-
1. ALL DIMENSION ARE IN MM.
2. TOERANCE OF ±0.5MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. MANUFACTURERS, INITIALS/MONOGRAM TO BE PROVIDED.

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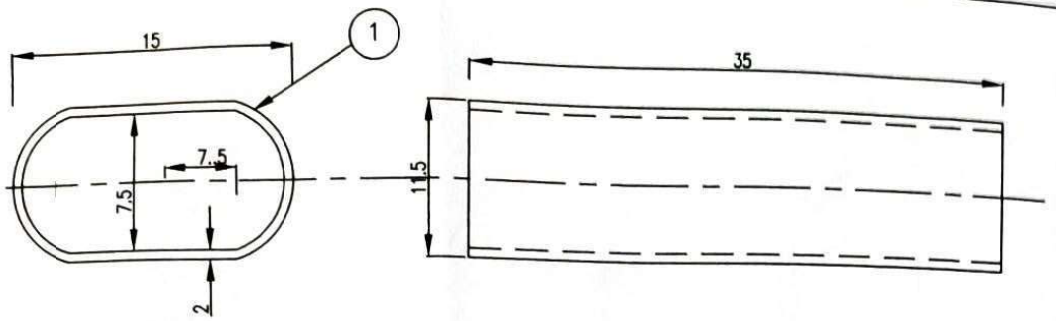
CATENARY WIRE 'U' CLAMP (UPPER & LOWER) FOR CURRENT CARRYING DROPPER	JDTI-II	G.Up 14.01.2021

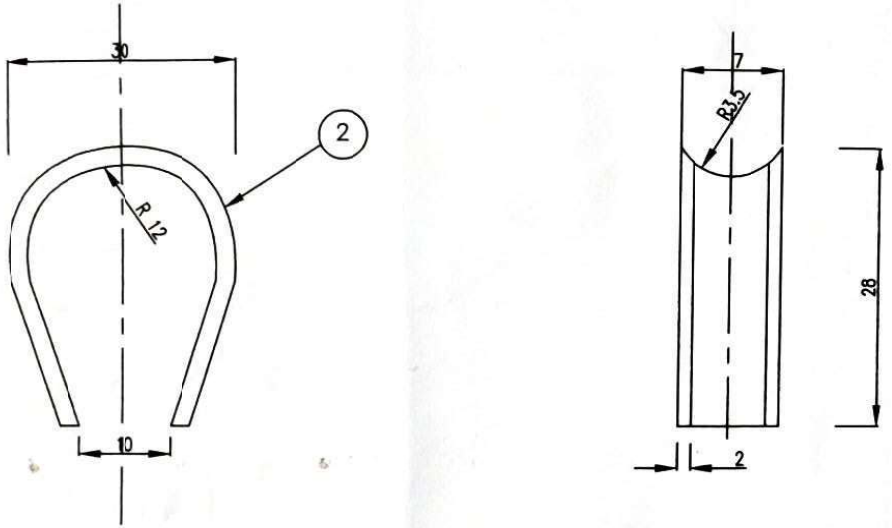
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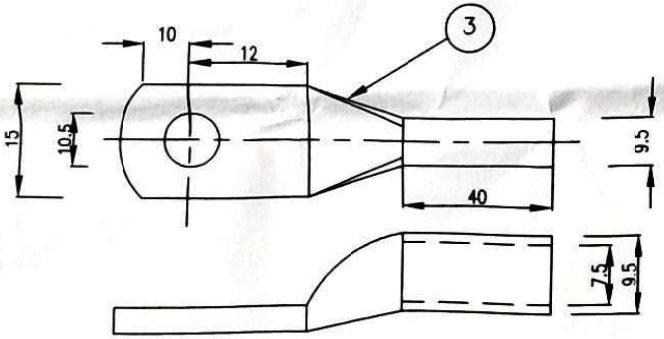
DATE	MOD NO.	NATURE OF MOD.	INITIALS	DATE	NAME	
			DR		S.SAROJ	TI/DRG/OHE/CCD/RDSO/ 00002/20/0
			TC			
			CK		DHARMARJ	SCALE NTS

3466354/2025/O/o CAO/CORE/PRYJ

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SN	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION
1	COMPRESSION SLEEVE	–	Cu–ETP	IS:1897–2008
2	THIMBLE	–	Cu–ETP	IS:1897–2008
3	CABLE LUG	–	Cu–ETP	IS:1897–2008

NOTE–
1. ALL DIMENSION ARE IN MM.
2. TOLERANCE OF ±0.5MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. DOUBLE CRIMPING SHOULD BE DONE ON COMPRESSION SLEEVE
4. MANUFACTURERS, INITIALS/MONOGRAM TO BE PROVIDED.

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COMPRESSION SLEEVE
THIMBLE
CABLE LUG
FOR CURRENT CARRYING DROPPER

JDTI–II

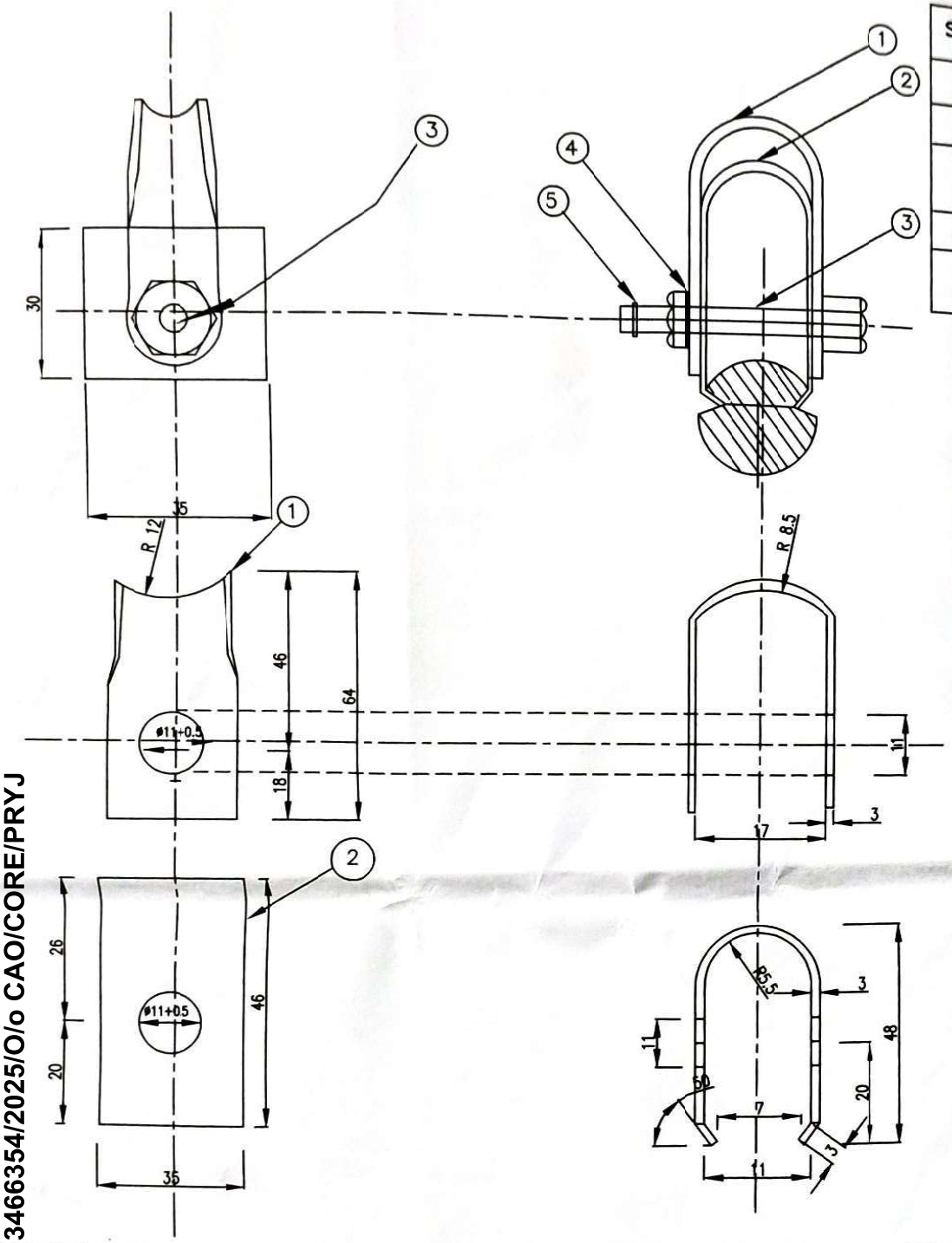
14.01.2021

REF: TI/DRG/OHE/CCD/RDSO/00001/20/0

DATE	MOD NO.	NATURE OF MOD.	INITIALS		DATE	NAME	
				DR		S.SINGH	TI/DRG/OHE/CCD/RDSO/00004/0
				TC			
				CK		DHARMARJ	SCALE NTS

3466354/2025/O/o CAO/CORE/PRYJ

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SN	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION
1	CONTACT WIREW U CLAMP LARGE	1192-2	CuNI2SI	ASTM B411
2	CONTACT WIRE U CLAMP SMALL	1192-2	CuNI2SI	ASTM B411
3	BOLT M10X35/30 WITH NUT	–	STAINLESS STEEL	TI/SPC/OHE/FASTENER /0120
4	SPRING WASHER	–	PHOSPHOR BRONZE	TI/SPC/OHE/FASTENERS/0120
5	SPLIT PIN	–	ANNEALED COPPER	IS 549

NOTE–

1. ALL DIMENSION ARE IN MM.
2. TOERANCE OF ±0.5MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. MANUFACTURERS, INITIALS/MONOGRAM TO BE PROVIDED.

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CONTACT WIRE 'U' CLAMP (LARGE AND SMALL) FOR CURRENT CARRYING DROPPER

JDTI–II

C. Lal 14.01.2021

REF: TI/DRG/OHE/CCD/RDSO/00001/20/0

DATE	MOD NO.	NATURE OF MOD.	INITIALS		DATE	NAME	
				DR		SISARAJ	TI/DRG/OHE/CCD/RDSO/ 00003/20/0
				TC			
				CK		DHARMARJ	SCALE NTS

3466354/2025/O/o CAO/CORE/PRYJ