3466423/2025/O/o CAO/CORE/PRYJ

File No.RDSO-RDSO/614/2022-O/o PED/TI/RDSO-Part(1)

सत्यमेव जयते

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

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

RDSO-RDSO/614/2022-O/o PED/TI/RDSO

Dated, the 8th July, 2022

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 suitable for current carrying flexible droppers of 10mm².

Ref: RDSO 's Design Document No. TI/DESIGN DOCUMENT/OHE/2020/00-Rev 1 dated 21.06.2022.

1.0 As per Para 5.1.2 of referred design document at above, "All droppers shall be preferably current carrying flexible droppers of 10 sqmm".

2.0 In compliance to Para 1.0 above, RDSO(TI) has developed the following Current Carrying Dropper Fittings:

(i) TI/DRG/OHE/CCD/RDSO /00005/22/0 for Current Carrying dropper assembly
(ii) TI/DRG/OHE/CCD/RDSO /00006/22/0 for Catenary wire Clamp assembly
(iii) TI/DRG/OHE/CCD/RDSO /00007/22/0 for Contact wire Clamp assembly
(iv) TI/DRG/OHE/CCD/RDSO /00008/22/0 for Compression sleeve, thimble & cable lug

3.0 You are advised to develop source for the Current Carrying Dropper fittings as per RDSO's specification no. TI/SPC/OHE/Fittings/10130(10/1013), Rev 1 & drawings mentioned in Para 2.0 above (copy enclosed) and current procedure being followed by CORE/Prayagraj.

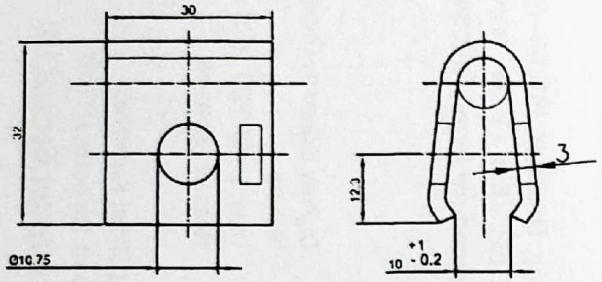
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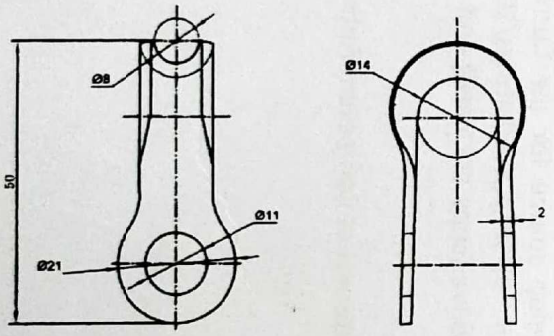
Digitally Signed by Girraj Kishore
Date: 11-07-2022 18:51:48
Reason: Approved

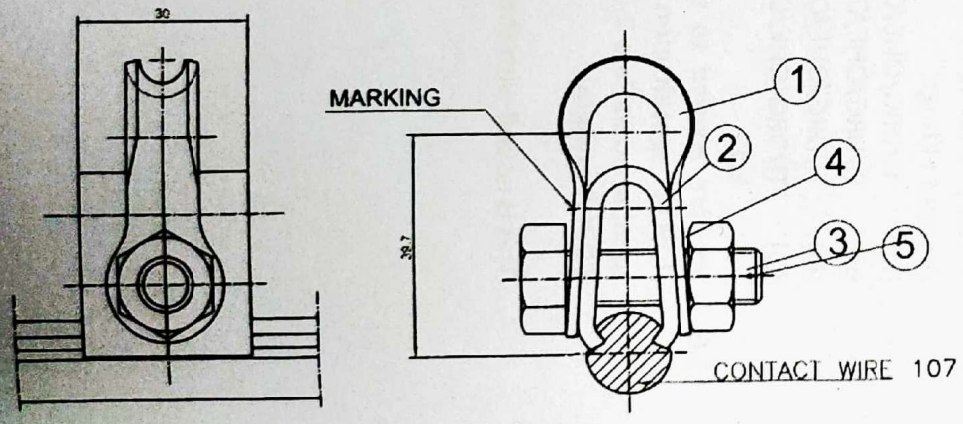
(Girraj Kishore)
Joint Director/(TI-II)
For Director General (TI)

Encl: As Above

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REF.	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION	APPROX. WEIGHT (kg)	NUMBER OFF
1	Contact Wire 'U' Clamp Upper	1191-4	CuNiSi UNSNo.C64700	ASTM B411/B411M-14		1
2	Contact Wire 'U' Clamp Lower	1192-4	CuNiSi UNSNo.C64700	ASTM B411/B411M-14		1
3	Bolt M10 x 45/40 WITH NUT		STAINLESS STEEL	TI/SPC/OHE/-FASTENER/0120		1
4	Spring Washer M10		Phosphor Bronze	TI/SPC/OHE/-FASTENER/0120		1
5	Split Pin 2.5 x 20		Annealed Copper	IS: 549		1

NOTE :-

1. ALL DIMENSIONS IN MM.
2. TOLERANCE OF ± 0.5 MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. TO BE USED WITH 107 SQ.MM CONTACT WIRE .
4. MANUFACTURER'S INITIALS / MONOGRAM TO BE PROVIDED.
5. FITTINGS CONFORMS TO RDSO SPECIFICATION NO. TI/SPC/OHE/FITTINGS/0130(10/13) REV. 01

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CONTACT WIRE CLAMP ASSEMBLY FOR CURRENT CARRYING DROPPER

(For current carrying dropper wire 10 sqmm)

JDTI-II

17.06.22

REF. .

DATE	MOD.	NATURE OF MOD.	INITIALS

R . D . S . O.

	DATE	NAME	
DR		Q.S.	TI/DRG/OHE/CCD/RDSO/00007/22/0
TC			SCALE :- NTS
CK			SUB - SCALE
			SUB - SCALE

REV.

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3/26/2025 O/o PED/TI/RDSO/RYJ

REF.	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION	APPROX. WEIGHT (kg)	NUMBER OFF
1	Contact Wire Top Clamp Assembly	1190-3	CuNi2Si UNSNo.C64700	ASTM B411/B411M-14		1
2	Thimble	—	Cu-ETP	IS 1897-2006		2
3	Compression Sleeve	—	Cu-ETP	IS 1897-2006		2
4	Catenary Wire Top Clamp Assembly	1190-4	CuNi2Si UNSNo.C64700	ASTM B411/B411M-14		1
5	Cable Lug		Cu-ETP	IS 1897-2006		2
6	Stopper Pin	1182-2	Annealed Copper	IS 1897-2008		2
7	Current Carrying Flexible Dropper wire Ø 4.5 mm (10sq.mm)		Cu-Mg	TI/SPC/OHE/CCFD/0160 Rev 1.		1

NOTE :-

1. ALL DIMENSIONS IN MM.
2. TOLERANCE OF ± 0.5 MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. TO BE USED WITH 65 SQ.MM CATENARY & 107 SQ.MM CONTACT WIRE.
4. ITEM REF. NO. 7 , CURRENT CARRYING FLEXIBLE DROPPER WIRE Ø 4.5 MM (10 SQ.MM) SHALL BE RDSO APPROVED MAKE ONLY.
5. FOR CONTACT WIRE CLAMP ASSEMBLY REFER DRG. NO. TI/DRG/OHE/CCD/RDSO/00007/22/0
6. FOR CATENARY WIRE CLAMP ASSEMBLY REFER DRG. NO. TI/DRG/OHE/CCD/RDSO/00006/22/0
7. FOR ITEM REF. NO. 2, 3 & 5 REFER DRG. NO TI/DRG/OHE/CCD/RDSO/00008/22/0
8. FITTINGS CONFORMS TO RDSO SPECIFICATION NO. TI/SPC/OHE/FITTINGS/0130(10/13) REV. 01

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CURRENT CARRYING DROPPER ASSEMBLY
(For current carrying dropper wire 10 sqmm)

JDTI-II

07.07.2022

REF. TI/DRG/OHE/CCD/RDSO/00001/20/0 REV A

R . D . S . O.

TI/DRG/OHE/CCD/RDSO/00005/22/0

REV.

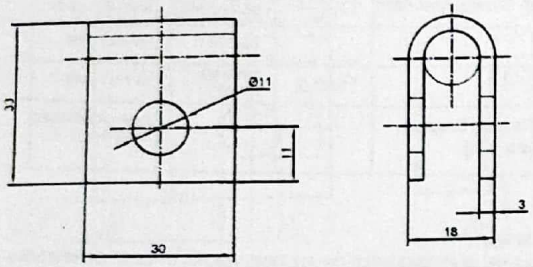
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				TC		
				CK		

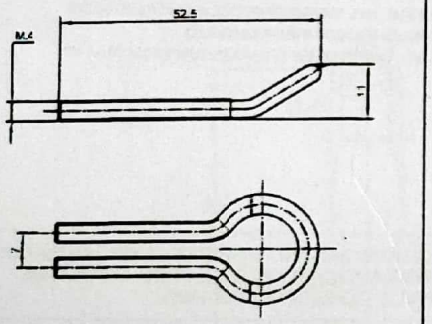
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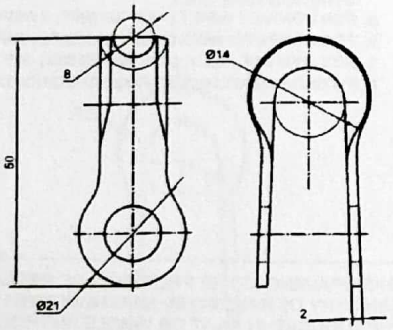
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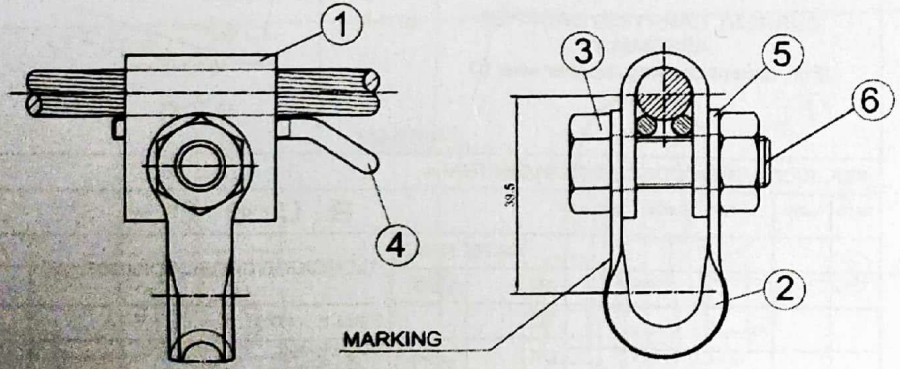
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REF.	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION	APPROX WEIGHT (kg)	NUMBER OFF
1	Catenary Wire 'U' Clamp Upper	1191-3	CuNi2Si UNSNo.C64700	ASTM B411/B411M-14		1
2	Catenary Wire 'U' Clamp Lower	1192-3	CuNi2Si UNSNo.C64700	ASTM B411/B411M-14		1
3	Bolt M10 x 45/40 WITH NUT		STAINLESS STEEL	TI/SPC/OHE/-FASTENER/0120		1
4	Stopper Pin Ø4	1182-2	Annealed. Copper	IS 1897-2008		2
5	Spring Washer M10		Phosphor Bronze	TI/SPC/OHE/-FASTENER/0120		1
6	Split Pin 2.5 x 20		Annealed. Copper	IS 549		1

NOTE :-

1. ALL DIMENSIONS IN MM.
2. TOLERANCE OF ± 0.5 MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. TO BE USED WITH 65 SQ.MM CATENARY WIRE.
4. MANUFACTURER'S INITIALS / MONOGRAM TO BE PROVIDED.
5. FITTINGS CONFORMS TO RDSO SPECIFICATION NO. TI/SPC/OHE/FITTINGS/0130(10/13) REV. 01

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CATENARY WIRE CLAMP ASSEMBLY FOR CURRENT CARRYING DROPPER
(For current carrying dropper wire 10 sqmm)

JDTI-II

17.06.22

REF.

DATE	MOD.	NATURE OF MOD.	INITIALS

R.D.S.O.

	DATE	NAME
DR		
TC		
CK		

TI/DRG/OHE/CCD/RDSO/00006/22/0

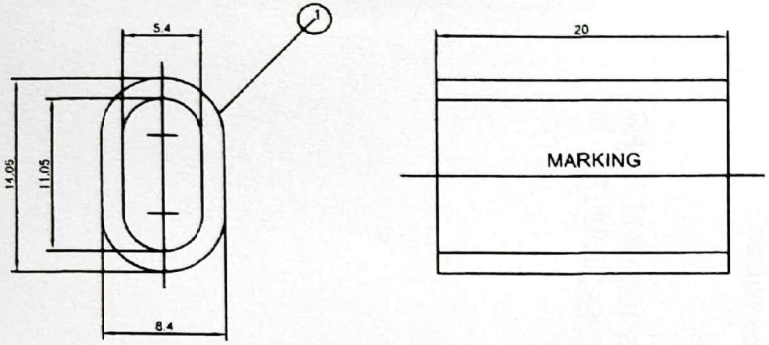
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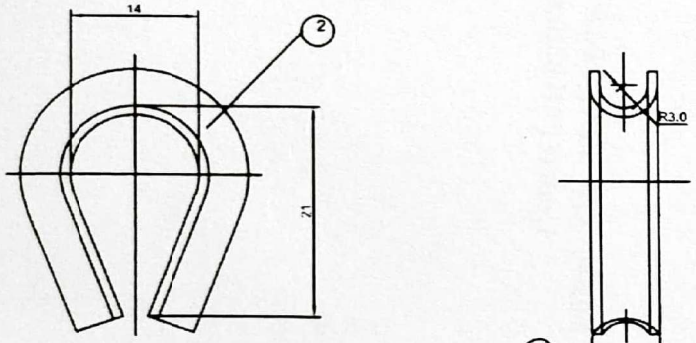
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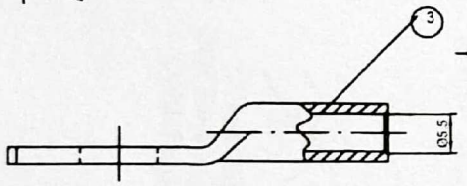
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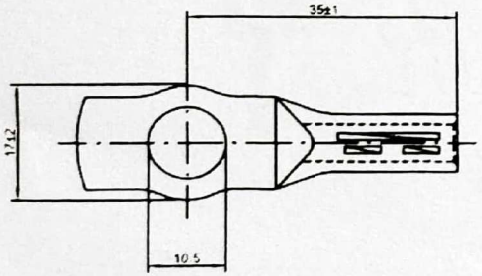
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REF.	DESCRIPTION	PART No.	MATERIAL	SPECIFICATION	APPROX. WEIGHT (KG)	NUMBER OFF
1	Compression Sleeve	---	Cu-ETP	IS 1897-2008		2
2	Thimble	---	Cu-ETP	IS 1897-2008 & IS 2315-1978		2
3	Cable Lug	---	Cu-ETP	IS 1897-2008		2

NOTE :-

1. ALL DIMENSIONS IN MM.
2. TOLERANCE OF ± 0.5 MM IS PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SHOWN.
3. TO BE USED WITH Ø4.5 MM FLEXIBLE CURRENT CARRYING DROPPER WIRE.
4. FITTINGS CONFORMS TO RDSO SPECIFICATION NO. TI/SPC/OHE/FITTINGS/0130(10/13) REV. 01
5. MANUFACTURER'S INITIALS / MONOGRAM TO BE PROVIDED.

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COMPRESSION SLEEVE, THIMBLE AND CABLE LUG FOR CURRENT CARRYING DROPPER (For current carrying dropper wire 10 sqmm)

JDTI-II

4.4.19 17.06.21

REF.

DATE	MOD.	NATURE OF MOD.	INITIALS

R.D.S.O.

	DATE	NAME
DR		
TC		
CK		

TI/DRG/OHE/CCD/RDSO/00008./22/0

REV.

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