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 : dtiohed.rdso@gmail.com

No. RDSO-TI0/OHE/62/2020 Date: As signed

Principal Chief Electrical Engineer,
(As per attached list)

Sub: Development of sources of Parallel Clamp (20/20) (234 sq.mm Aluminium feeder spider to 160 sq.mm copper jumper) as per Drg. No. ETI/OHE/P/1550 Rev F.

Ref: i) WR letter no. EL.94/15/1 (Comp No. 531258) dated 16.07.2024.
ii) This office letter of even no dated 07.10.2024.

With reference to i) above, Western Railway has reported a failure, involving burning out of PG clamp connecting a 234 sq.mm Aluminium feeder spider to 160 sq.mm copper jumper (Drg No. ETI/OHE/P/1550 Rev E). This failure was occurred due to the absence of a bimetallic strip in PG Clamp.

In response to this, RDSO has examined and revised the drawing of parallel clamp i.e., **Drg No. ETI/OHE/P/1550 Rev F.** '***Note 6***' *is included in latest revision of drawing, which states: "WHENEVER USING THIS TYPE (234 SQMM ALUMINIUM FEEDER SPIDER & 160 SQMM COPPER JUMPER) USE 1 MM THICK BIMETALLIC STRIP"*

Accordingly, the revised drawing of Parallel Clamp (20/20) Drg. **No. ETI/OHE/P/1550 Rev F** is attached for necessary action please.

This is issued with the approval of Competent Authority.

GAURANG GUPTA Digitally signed by GAURANG GUPTA Date: 2024.12.02 16:41:35 +05'30'

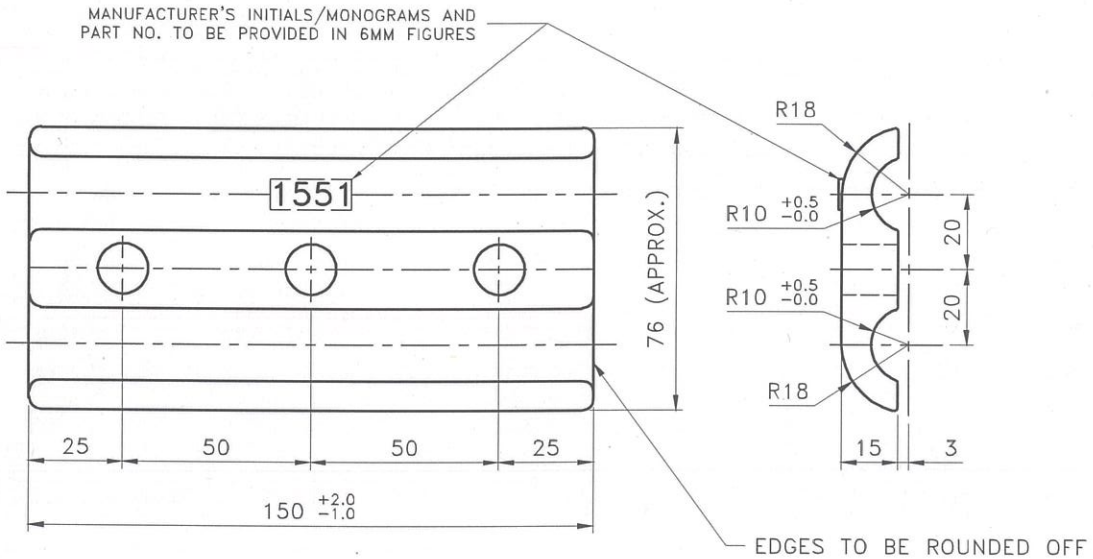
(Gaurang Gupta)
Jt. Director/TI-2
[कृते महानिदेशक (कर्षण संस्थापन)]

Copy to: : CAO/CORE/Prayagraj- It is requested to kindly arrange to develop vendors for Parallel Clamp as per revised drawing **ETI/OHE/P/1550 Rev F** please.

Copy to:

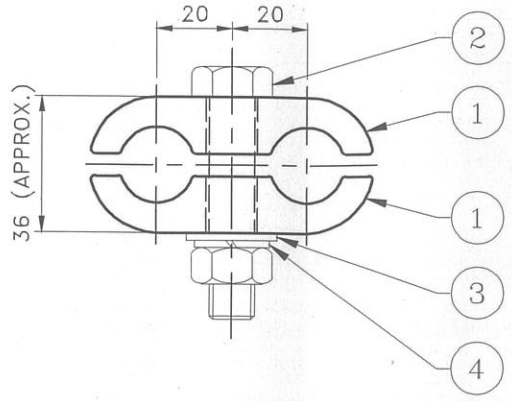
SN	Railways/ PSUs	Gov-email id	Gmail ID
1.	PCEE/CR	cee@cr.railnet.gov.in	cedecrly@gmail.com dyceetrdcrly@gmail.com
2.	PCEE/ER	cee@er.railnet.gov.in cede@er.railnet.gov.in	cedeerly@gmail.com
3.	PCEE/ECR	cee@ecr.railnet.gov.in cede@ecr.railnet.gov.in	
4.	PCEE/ECoR	cee@ecor.railnet.gov.in	ceeecor@gmail.com cedeecor@gmail.com
5.	PCEE/NR	cee@nr.railnet.gov.in	nrtrdhq@gmail.com
6.	PCEE/NCR	cee@ncr.railnet.gov.in cede@ncr.railnet.gov.in	cedencrald@gmail.com
7.	PCEE/NER	cee@ner.railnet.gov.in cede@ner.railnet.gov.in	nerhqtrd@gmail.com ceenerly@gmail.com cedenwrjp@gmail.com
8.	PCEE/NFR	cee@nfr.railnet.gov.in	
9.	PCEE/NWR	cee@nwr.railnet.gov.in	nwrhqtrd@gmail.com
10.	PCEE/SR	cee@sr.railnet.gov.in cede@sr.railnet.gov.in	cedesr.2020@gmail.com
11.	PCEE/SCR	cee@scr.railnet.gov.in cede@scr.railnet.gov.in	cedescr789@gmail.com trdscr@gmail.com
12.	PCEE/SER	cee@ser.railnet.gov.in	
13.	PCEE/SECR	cee@secr.railnet.gov.in	
14.	PCEE/SWR	cee@swr.railnet.gov.in	swrtrdhq@gmail.com
15.	PCEE/WR	cee@wr.railnet.gov.in cede@wr.railnet.gov.in	
16.	PCEE/WCR	cee@wcr.railnet.gov.in	
17.	Director/Electrical, DMRC	deoffice@dmrc.org	cee.traction@gmail.com
18.	CAO, CORE	cee@core.railnet.gov.in	dyceemp@gmail.com, dyceemp1@gmail.com, dyceemp2@gmail.com, ceempcore@gmail.com
19.	PCEE/KRCL	cee@krcl.co.in	edbo.kr@krcl.co.in

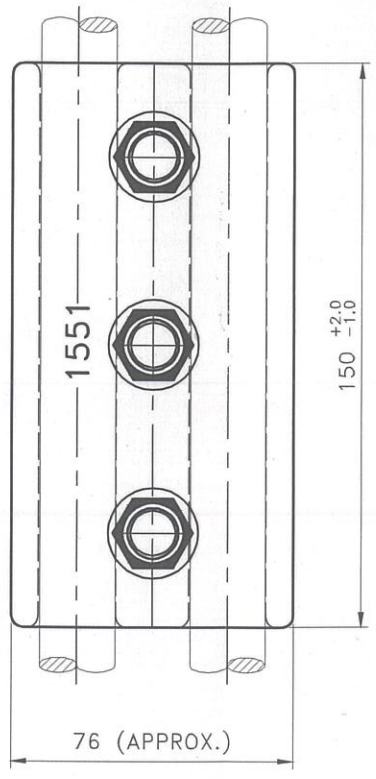
Digitally Signed by Gaurang
Gupta
Date: 02-12-2024 16:41:09
Reason: Approved



FRONT VIEW

SIDE VIEW





DETAILS OF (1)

SR. NO.	DESCRIPTION	PART NO.	MATERIAL	SPECIFICATION	APPROX. WEIGHT (KG.)	NO. OFF
1	PARALLEL CLAMP PART	1551	ALUMINIUM ALLOY	IS:617 GR.4600M	–	2
2	BOLT M12X60/30 WITH 1 NUT	12/19N	STAINLESS STEEL	ETI/OHE/18	–	3
3	PUNCHED WASHER A14	–	PHOSPHOR BRONZE / STAINLESS STEEL	DO		3
4	SPRING WASHER B12	–	PHOSPHOR BRONZE	DO	–	3
5	BIMETALLIC STRIP 160x50x1mm THICK (APPROX.)	–	ELECTROLYTIC COPPER & ALUMINIUM	ETI/OHE/55	–	1

NOTE:–

1) ALL DIMENSION ARE IN MM.
2) ALL HOLES ø13.5 $^{+0.5}_{-0.0}$mm.
3) TOLERANCE OF ±0.5mm PERMISSIBLE ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
4) MANUFACTURER'S INTAILS/MONOGRAM AND PART NUMBER TO BE PROVIDED IN RELIEF.
5) SURFACE TO BE MACHINED SHOWN THUS ▼▼
6) WHENEVER USE SUCH TYPE (234 Sqmm ALUMINIUM FEEDER SPIDER ø20 & 160 Sqmm COPPER JUMPER) USE 1mm THICK BIMETALLIC STRIP.

CONDUCTOR COMBINATIONS	
IN FIRST GROOVE	IN SECOND GROOVE
234 Sqmm ALUMINIUM FEEDER SPIDER ø20 (19/3.99) OR 160 Sqmm COPPER JUMPER (ø18.75mm) WITH 1mm THICK BIMETALLIC STRIP	234 Sqmm ALUMINIUM FEEDER SPIDER ø20 (19/3.99) OR 160 Sqmm COPPER JUMPER (ø18.75mm) WITH 1mm THICK BIMETALLIC STRIP

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PARALLEL CLAMP (20/20)

JD/TI–2 — 29/11/24

ADE/TI–2 — 29.11.2024

REF.:–

CROSS REF:–

DATE	MOD.	NATURE OF MOD.	INITIAL
12/11/24	F	NOTE 6 ADDED	
10/01/89	E	MATE. OF REF.3 CORRECTED.	
05/25/88	D	PART NO OF REF.2& DES. OF 2TO4 CORRECTED.	
08/01/87	C	DES. OF REF 2, MAT& SPEC. OF REF. 1–4 CORRECTED TOLERANCE ADDED.	
27/04/74	B	TITLE CORRECTED TOLERANCE ON NOTE 2 ADDED	
22/09/70	A	REDRAWN	

R. D. S. O.

	DATE	NAME	ETI/OHE/P/1550	REV.
DR.	29.11.24			F
TC.			SCALE:–NTS	
CK.	29.11.24			