

**Government of India,
Ministry of Railways,
Research, Designs & Standards Organisation
Manak Nagar, Lucknow – 226 011**

No. EL/3.1.3

Dated : 24.11.99

Chief Electrical Loco Engineers

- Central Railway, Mumbai CST – 400001
- Eastern Railway, Fairlie Place, Calcutta – 700001
- East Central Railway, Chandrashekharpur, Bhubaneswar – 751001
- Northern Railway, Baroda House, New Delhi – 110001
- North Central Railway, Hasting Road, Allahabad – 211001
- Southern Railway, Park Town, Chennai – 600003
- South Central Railway, Rail Nilayam, Secunderabad – 500371
- South Eastern Railway, Garden Reach, Calcutta – 700043
- South Western Railway, Bangalore – 560046
- Western Railway, Church Gate, Mumbai – 400020
- West Central Railway, Jabalpur
- New Zone Railway, Bilaspur
- Chittaranjan Locomotive Works, Chittaranjan – 713331

Modification Sheet No. ELRS/MS/0272, Rev 'O'

1.0 Title :

Provision of brass ferrule in place of aluminum ferrule on roof bars.

2.0 Object :

There are a number of cases of flashing, over heating and melting of aluminum ferrule in roof bars. As a result, unscheduled attention is required for flashed/overheated roof bars at knife contact mating with tube and ferrule.

To overcome the above problems, provision of brass ferrule with increased collar diameter has been made in place of existing aluminum ferrule.

3.0 Work to be carried out :

Roof bars ferrule and check nut are to be produced/manufactured made of/from high tensile brass (IS 304-81) as per enclosed drawing.

4.0 Applicable to class of locomotives :

All class of AC Electric Locomotives.

5.0 Material Required

High tensile brass rod of 40 mm dia as per IS:304-81

6.0 Material Rendered Surplus :

Two nos. of aluminum ferrule and check nut of each existing roof bar.

7.0 Reference :

Suggestion received from South Eastern Railway vide their letter no. CEE/RS/220-B dated 26.2.99.

8.0 Modification Drawings :

Enclosed as Annexure I.

9.0 Agency of Implementation :

All Electric Loco Sheds, Workshops, CLW & BHEL/ Jhansi.

10.0 Distribution

As per enclosed list.

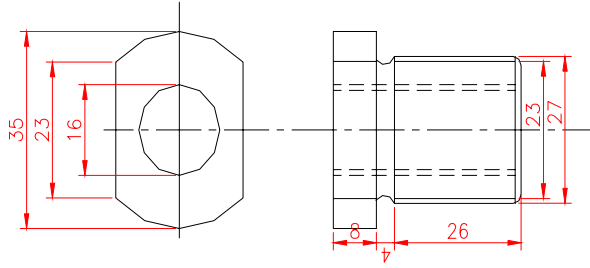
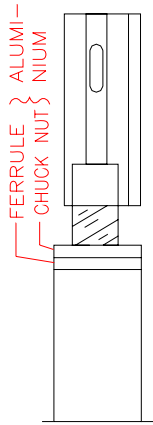
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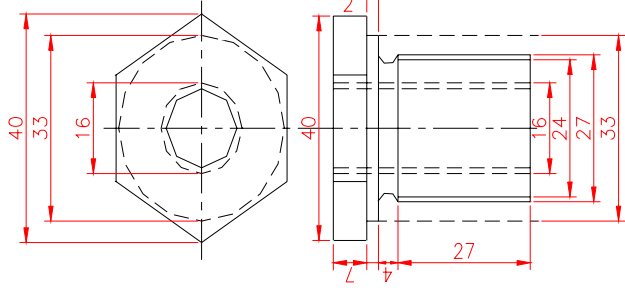
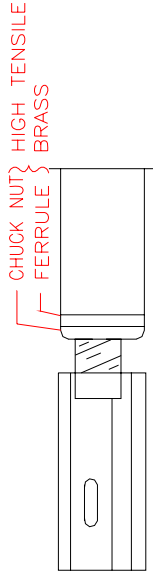
(O.H.Pande)

For Director General/Elect.

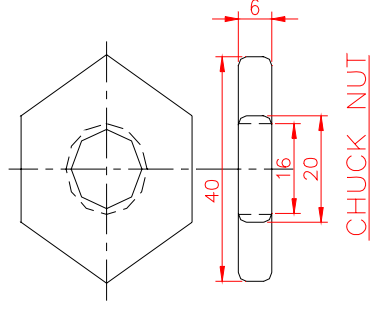
To



EXISTING



MODIFIED



CHUCK NUT

1	-	BRASS	FERRULE	-	14	H.T. BRASS	IS: 304-81
REF. NO.	PART NO.	DISCRIPTION	DETAIL DRG. NO.	LOCO	MATL.	SPEC.	
REF. NO.	MODIFICATION NO.	SCALE: NTS	APPROVED BY:	Sig.	FOR D.G.		
MS/0272	Rev. 0						
PROVISION OF BRASS FERRULE ON ROOF BRASS				FIRST ISSUED NOV.99			
RDSO ELECT. DTE. SKEL 4543 Alt 'O'				SUPERSEDED BY			