

भारत सरकार-रेल मंत्रालय  
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Government of India  
Ministry of Railways  
Research, Designs &  
Standards Organization,  
LUCKNOW-226011



EL/3.2.19/3-Phase

Date-04.04.2018

**Principal Chief Electrical Engineer,**

- Central Railway, Mumbai CST- 400 001.
- Eastern Railway, Fairlie Place, Kolkata- 700 001.
- East Cost Railway, Chandrashekharapur, Bhubaneswar- 751 016.
- Northern Railway, Baroda House, New Delhi-110 001.
- North Central Railway, Hasting Road, Allahabad-211 001.
- North Eastern Railway, Gorakhpur-273012.
- Southern Railway, Park Town, Chennai-600 003.
- South Central Railway, Rail Nilayam, Secunderabad -500 017.
- South Eastern Railway, Garden Reach, Kolkata -700 043.
- Western Railway, Churchgate, Mumbai-400 020.
- West Central Railway, Jabalpur-482001.
- South East Central Railway, Bilaspur-495004.
- East Central Railway, Hazipur-844101 (Bihar).
- Chittaranjan Locomotive Works, Chittaranjan-713 331.
- Diesel Locomotive Works, Varanasi- 221004

**Sub: Amendment no.1 dated 04.04.2018 to Modification Sheet No. RDSO/2017/EL/MS/0465  
(Rev. '0') dated 18.10.2017.**

**Ref: Central Rly letter no. L.253.AC.17.Vol-VII dated 21.12.2017**

The corrections related to Material and Specs in Modification Sheet No. RDSO/2017/EL/MS/0465 (Rev. '0') dated 18.10.2017 Clause no 5.1 and 5.2 are made as per CLW Specification no. CLW/MS/03/053 Alt-20 (Specification For Stain Less Steel Pipe Fittings Of Pneumatic System For WAG-9H & WAP-7 3-Phase Electric Locomotives) which are enclosed as Annexure. The amendment is also uploaded on RDSO's website with MS-0465.

*4/4/2018*

(Aseem Kumar)  
for Director General/Elect.

Copy to:-

Secretary (Elect.), Railway Board, Rail Bhawan, New Delhi-110 001  
( Kind Attention : Shri A.K.Goswami, DEE/RS/Railway Board)

*4/4/2018*

(Aseem Kumar)  
for Director General/Elect.

## Amendment No.1 to Modification Sheet No. RDSO/2017/EL/MS/0465 (Rev. '0') dated

18.10.2017 issued vide letter no. EL/3.2.19/3-Phase dated 04.04.2018

Clause No. 5.1 Material required for trap chamber modification:

SN	Description	Material & Spec. (Earlier)	Qty per cab/loco	Corrections in Material & Spec. (To be read as)
1	1½" Female Tee (Fluid control part no 20 TFRP)	Stainless Steel ASTM:316	1no/2nos	No Change
2	38mm Tube OD x 1½" Reducing adopter (F.C pt no 24-20 SCM RX)	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A108 Gr-1018
3	38mm Tube OD (1½") SS double ferrule. F.C pt no. FRONT 24FF, BACK 24FB	Stainless Steel ASTM:316	1 Set/2Sets	No Change
4	38mm Tube OD (1½") Nut F.C pt no 24 SN	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A108 Gr-1018
5	1½" x 1½" male & female elbow (Male thread length 25 mm)	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A105
6	1½" Male & Female Hexagonal Socket. Size: Tot.length:125 mm, Male Thread length: 25 mm (BSPP), Hex. thickness: 54mm, Female thread 50mm.	Stainless Steel ASTM:316	1no/2nos	No Change
7	1½" Male Hex. Dummy size: Tot.Length:30 mm, Male Thread length: 20 mm(BSPP), Hex. Length: 10mm, Hex. thickness: 54mm	Carbon Steel ASTM:106-A Gr-1018	1 no/2nos	Carbon Steel ASTM:A108 Gr-1018
8	1½" X 1½" MALE Nipple (BSPP X BSPT) size: Tot.length:58 mm, Male Thread length: 18mm X 25 mm, Hex. Length: 15mm, Hex. thickness: 54mm.	Carbon Steel ASTM:106-A Gr-1018	1 no/2nos	Carbon Steel ASTM:A108 Gr-1018
9	Stainless steel Seam less tube OD: 38 mm , ID: 31 mm.	Stainless Steel ASTM:A-269 TP304	1.5 mtr/ 3.0mtr	No Change

Clause 5.2 Material required for provision of M/s FTRTIL make 1 ¼" emergency exhaust valve in place of existing NB- 11 valve.

SN	Description	Material & Spec	Qty per cab/loco	Corrections in Material & Spec. (To be read as)
1	38mm Tube OD x 1½" Reducing adopter (F.C pt no 24-20 SCM RX)	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A108 Gr-1018
2	38mm Tube OD(1½") SS double ferrule. F.C pt no. FRONT 24FF, BACK 24FB	Stainless Steel ASTM:316	1 set/ 2 sets	No Change
3	38mm Tube OD (1½") Nut F.C pt no 24 SN	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A108 Gr-1018
4	Tube OD 12mm x 3/8" Male elbow F.C pt no. SEM-12-6-N	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A105
5	1½" X 1½" Male Elbow(BSPT), Thread length 25 mm.	Carbon Steel ASTM:106-A Gr-1018	1no/2nos	Carbon Steel ASTM:A105
6	L shape MS Base fixing plate Size: 190x150 x 4mm	Steel IS:2062	1no/2nos	No Change
7	U Clamp with nut, spring and flat washer (Zink coated) Size: 110 x 90 x 8 mm	Steel IS:2062	2no/4nos	No Change
8	1 ¼" emergency exhaust valve of E-70 design or similar design valve	---	1 no. /2nos	No Change

4/4/2018