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No.C-D&D/T/42, Vol-I

Date: September 29, 2023

Sr.DEE/TRS/GMO  
 Electric Loco Shed,  
 East Central Railway  
 Jharkhand – 828 401

**Sub: Approval of Energy saving Software for downloading in M/s Alstom (earlier M/s BTIPL) make propulsion system.**

Ref: M/s Alstom email dated 23.08.2023

1. Vide email under reference above software for energy saving has been provided by M/s Alstom (earlier M/s BTIPL). Further, the aforesaid software has been tested and validated at CLW in loco no.38174.
2. After necessary validation at CLW, permission for downloading the aforesaid Software version in 10 locomotives each equipped with M/s Alstom (earlier M/s BTIPL) make propulsion system homed at ELS/GMO to validate the performance is hereby accorded. Further, hardware modification to be carried out for implementation of energy saving scheme i.e. shifting of Machine room (MR) blower, Scavenge to MR blower and CAB AC to BUR-3 (Auxiliary Converter 3) is provided as annexure. The trial energy saving software versions are appended below:

|       |           |       |           |
|-------|-----------|-------|-----------|
| CCU01 | 6.0.0.11  | CCU02 | 6.0.0.11  |
| DDU-1 | 2.0.15.92 | DDU-2 | 2.0.15.92 |
| BUR-1 | 1.0.0.7   | BUR-2 | 2.0.0.7   |
| BUR-3 | 3.0.0.7   |       |           |

3. The aforesaid software with release note can be downloaded from the below link:  
[https://clw.indianrailways.gov.in/view\\_section.jsp?lang=0&id=0,295,329,493,496](https://clw.indianrailways.gov.in/view_section.jsp?lang=0&id=0,295,329,493,496)

The performance of the software may be sent to this office on [ceednd@clw.railnet.gov.in](mailto:ceednd@clw.railnet.gov.in), [dyceedd@clw.railnet.gov.in](mailto:dyceedd@clw.railnet.gov.in) and [ssednd2@clw.railnet.gov.in](mailto:ssednd2@clw.railnet.gov.in).

**DA: Annexure for Hardware Modification to be carried out for Energy saving scheme (01 page)**

  
 (Pankaj Kumar)  
 Dy.CEE/D&D-I

Copy to :  
**M/s. Alstom Rail Transportation India Pvt. Ltd.**  
 ERDA Road, Maneja,  
 Vadodara – 390 013

} For kind information and necessary action please.

  
 (Pankaj Kumar)  
 Dy.CEE/D&D-I

**Hardware modification to be carried out for implementing Energy Saving scheme****Shifting of MR blower 1&2 and Scavange to MR blower 1&2 to BUR-3****(A) Modification In HB1 panel**

1. Remove cable no. 1121B, 1122B and 1123B in between MCB 59.1/1 and MCB 54.1/1
2. Connect cable no. 1131 from XH 32A (2) 4 to MCB 54.1/1-1, Connect cable no. 1132 from XH 32A (2) 5 to MCB 54.1/1-3, Connect cable no. 1133 from XH 32A (2) 6 to MCB 54.1/1-5. Cable size shall be 2.5 sq.mm.

**(B) Modification In HB2 panel**

1. Remove cable no. 1121B, 1122B and 1123B in between MCB 59.1/1 and MCB 54.1/1.
2. 03 additional TBs i.e. XH67A (2) 10, XH67A (2) 11 & XH67A (2) 12 will be required for connection from BUR-3 for cable no. 1131, 1132 and 1133 respectively. These terminals shall be shorted with TB no. XH67A (2) 4 for cable no. 1131, XH67A (2) 5 for cable no. 1132 & XH67A (2) 6 for cable no. 1133.
3. Connect Cable no. 1131 from XH67A (2) 10 to MCB 54.1/1 (1), Connect Cable no. 1132 from XH67A (2) 11 to MCB 54.1/1 (3) and Connect Cable no. 1133 from XH67A (2) 12 to MCB 54.1/1 (5). Cable size shall be 2.5 sq.mm.

**Shifting of CAB AC to BUR-3****(C) Modification In HB2 panel**

1. Remove cable no. 1121B, 1122B and 1123B in between Contactor 52.5/1 and MCB 64.1.
2. Refer point no, B.2. Cable no. 1131, 1132 and 1133 can be obtained.
3. Connect Cable no. 1131 from XH67A (2) 10 to MCB 64.1 (1), Connect Cable no. 1132 from XH67A (2) 11 to MCB 54.1/1 (3) and Connect Cable no. 1133 from XH67A (2) 12 to MCB 54.1/1 (5). Cable size shall be 6 sq.mm.