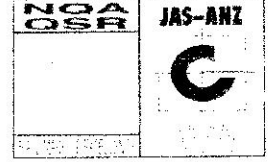


भारतीय रेल (रेल मंत्रालय)
डीजल रेल इंजन कारखाना
वाराणसी-२२१००४, भारत
INDIAN RAILWAYS (MINISTRY OF RAILWAYS)
DIESEL LOCOMOTIVE WORKS
VARANASI-221004, INDIA



DESIGN BULLETIN

1. **Design bulletin no.** : DB/03/2013/02 Dated 23.03.13
2. **Subject** : Modification of Indication Light Panel ASM to DRG No. 10622773/ DLW Part no. 18000162 for WDG4/WDP4B locomotives supplied by M/s Trolex/Bangalore & M/s Pricol/Coimbatore
3. **Background** : This item is being fitted in Control Console #1 & #2. M/s Trolex/Bangalore & M/s Pricol/Coimbatore are regular supplier and Part-I approved source in DLW composite Vendor Directory-2012-13 for Control Console #1 & #2.

Sr. DME/Raipur letter no. 110/04/Perf/Ind-panel/2222 dated 16.05.12 has intimated the failure of Indication Light Panel Assembly to Drg. No. 10622773 Alt. Aa fitted in WDG4 locomotives which were failing frequently of M/s Trolex/Bangalore & M/s Pricol/Coimbatore make.

The above failure has been examined & found most of failures were due to Switch Short Circuited. In this regard, DLW has advised to take necessary corrective & preventive action for improvement in Indication light panel ASM, vide this office even letter no. DLW/TOT/1636 dated 09.6.2012.

Both firms M/s Trolex/Bangalore & M/s Pricol/Coimbatore has modified circuit diagram of Indication light panel ASM for manufacturing.

4. **Objective** : By changing in circuit diagram of Indication Light Panel ASM to Drg No. 10622773 for WDG4 locomotives supplied by M/s Trolex/Bangalore & M/s Pricol/Coimbatore to achieve better performance & reliability to overcome the various types of failures.
5. **Details of study/ Investigation** : For corrective action of Indication Light Panel ASM, a meeting was held between M/s Pricol & DLW and M/s Trolex & DLW/Varanasi. They were agreed to modify the circuit.
M/s Trolex uses Diode, wire wound resistor & bulb in their modified circuit of indicating light panel asm.
M/s Pricol uses Diode, wire wound resistor & LED in their modified circuit of indicating light panel asm.

M/s Trolex has fitted their modified indicating light panel asm in loco no. 12636 & 12647 on dt 24.12.12 and found working normal vide Sr. DME letter no. KJM/INF/P4E/DLW dated 23.02.13.

M/s Pricol has also fitted their modified indicating light panel ASM in more than 20 loco & has been rolled out from DLW and till date no failure has been reported to this office from any user sheds/Railways.

6. **Corrective action** : M/s Trolex uses Diode, wire wound resistor & bulb in their modified circuit of indicating light panel asm vide their letter no. TIPL/M&S/2012-13/LTPanel/381 dated 28.11.12
- M/s Pricol uses Diode, wire wound resistor & LED in their modified circuit of indicating light panel asm, vide their letter no. PICL/CIF/12-13/DLW/051 dated 05.3.13.
7. **Drg./ Spec./ Test Plan/ QP modified** : Accordingly, drawing of Indication Light Panel Assembly to Drg. No. 10622773/Part no. 18000162 Alt. Ab has been modified for its application.
8. **Implementation** : Accordingly, drawing of Indication Light Panel Assembly to Drg. No. 10622773/Part no. 18000162 Alt. Ab has been modified for its application.
- First time M/s Trolex has fitted their modified indicating light panel asm in loco no. 12636 & 12647 on dt 24.12.12 and found working normal, vide Sr. DME letter no. KJM/INF/P4E /DLW dated 23.02.13.
- M/s Pricol has also fitted their modified indicating light panel ASM in more than 20 loco & has been rolled out from DLW and till date no failure has been reported to this office from any user sheds/Railways.
9. **Circulation** : **CQAM, CME(P), Dy CME/Loco, Dy CEE/ MC, Dy CDE/Veh. SSE/TAS, SSE/TAS/Prog, SSE/LTS, SSE/Insp/Elect.**


Dy.CDE/TC