

भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS
(रेलवे बोर्ड RAILWAY BOARD)

No. 2010/M(L)/466/6(35)

New Delhi, dt. 10.09.2014.

✓ EDS(MP),
RDSO,
Lucknow.

Sub: Decision taken on DMG Meeting held at Chennai on 09-10th
January 2014.

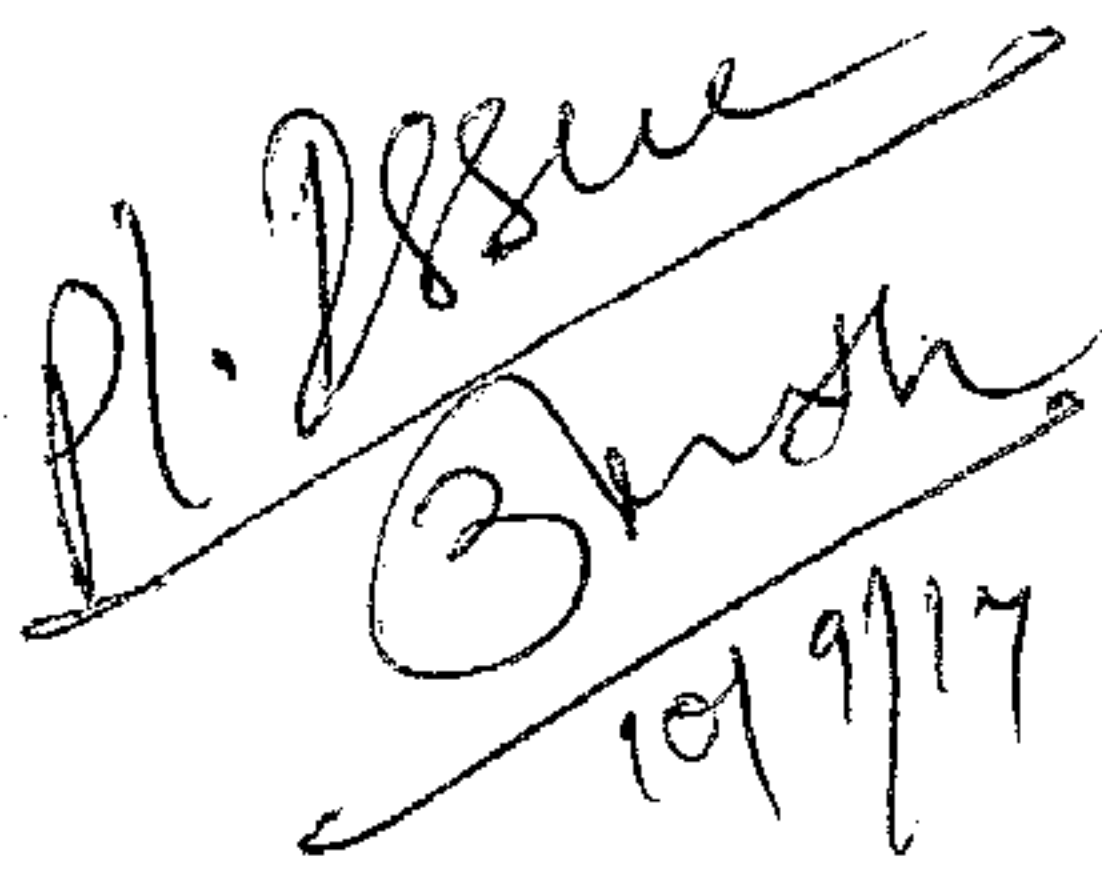
Ref: RDSO's letter No. SD.DMG dt. 11.03.2014.

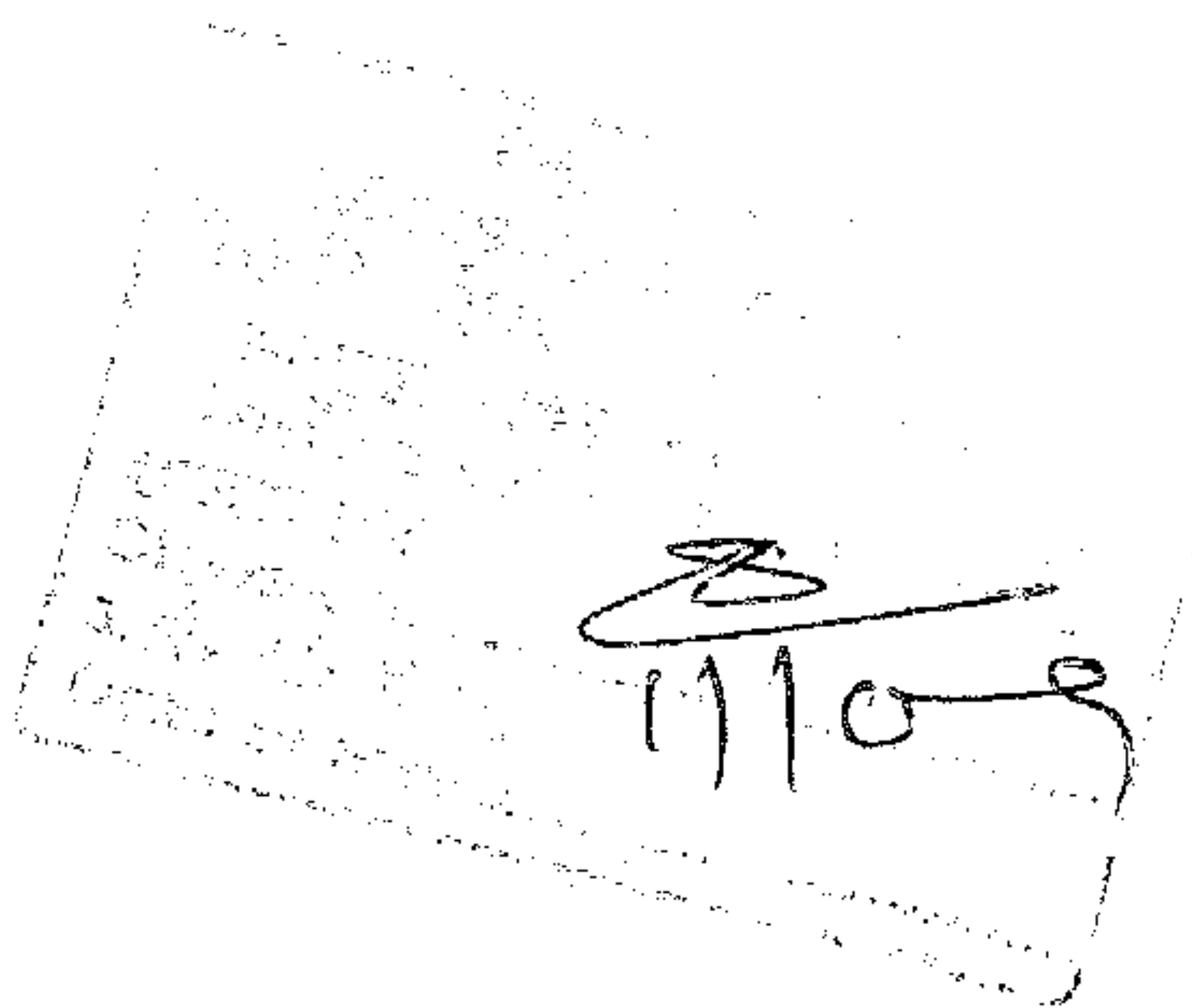
The approved Group Recommendations and Board's approval thereon are
being sent for issue of the formal report on the DMG held at Chennai on 9th & 10th
January 2014.

The report may please be circulated to all concerned.

DA: As above.


(Alok Kumar Misra)
Dir. Mech. Engg. (Tr.)
Railway Board.


10/9/14



Decision taken in DMG Meeting on HHP and ALCO Diesel Locomotives held at Chennai on 9-10th Jan, 2014.

Part-I, HHP Diesel Locomotives

S. No.	Items	Decisions	Board's Order
1.	90 days schedule.	<p>a) Railways may propose DLSC under PH-16 as the major beneficiary is the Operating Department with 90 days schedule of HHP locomotives.</p> <p>b) Board will conduct meeting with Oil PSUs for setting up of DLSCs.</p> <p>c) RDSO shall obtain feedback/suggestions from all Zonal Railways and standardize the requirements in a DLSC. A committee of Sr.DME/GY, Sr.DME/BGKT and Director/RDSO should standardize consumables/components requiring change in 45/90 days and submit it's report to Railway Board.</p> <p>d) RDSO should explore possibilities to develop baggie type filters of upgraded performance which may last for 90 days even in dusty areas under normal usage.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved. Report to be submitted on 30/09/14.</p> <p>d) Approved.</p>
2.	Policy for holding HHP locos.	<p>a) Bogie maintenance can be handled by sheds/workshops as per convenience of Railways.</p> <p>b) DLW will process centralised AMC/RC for CCB and traction motors.</p>	<p>a) Approved.</p> <p>b) DLW will process centralized Overhaul contract on CCB and traction motors.</p>
3.	Adoption of Water Closet on HHP Locos.	<p>a) 10 locos should be fitted with the vacuum operated air flush with waste treatment system.</p> <p>b) Bacteria based waste treatment type system with water recycling should be developed by DLW.</p>	<p>a) Approved.</p> <p>b) Approved.</p>
4.	Proliferation of vendors (for items mainly AC-	<p>a) RDSO to develop STR for Traction Motors.</p> <p>b) The group felt that considering the safety aspect and the complexity in operation and</p>	<p>a) Approved.</p> <p>b) Approved.</p>

<p>AC Traction system, Traction Motors etc.)</p>	<p>maintenance, the existing vendor base reasonably balances the requirement of competition. Besides the technical capacity and legacy requirement, RDSO needs to ensure standardisation, service network and infrastructure while considering proliferation.</p> <p>c) In the first phase of standardization, interface with Loco Pilots shall be standardized for the AC-AC systems to prevent confusion amongst the Loco Pilots while working on locos fitted with different make systems. The maintenance interface standardisation would be taken up in the second phase.</p> <p>d) Whenever a OEM upgrades its system, he will give a part change catalogue which should make it possible for one to one change of the parts in the old system with the upgraded one to avoid maintenance and obsolescence problems. At the time of up gradation, the need for retro-fitment of the old systems shall be examined and decided by RDSO/DLW.</p>	<p>c) Approved.</p> <p>d) Approved.</p>
<p>5. Failures of Radiators.</p>	<p>a) RDSO to issue an IB containing modifications finalised on the basis of suggestions forwarded by the Railways, as discussed, and as well as radiator manufacturers for arresting the failures.</p> <p>b) Zonal Railways shall ensure use of imported rubber fitting and prescribed gaskets for minimizing vibrations and leakages.</p> <p>c) DLW to check the mounting frame for ensuring the proper support of the radiators on the rubber pads.</p> <p>d) Radiator support rubber strip should be changed on periodic basis. RDSO to specify the periodicity of change.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p> <p>d) Approved.</p>
<p>6. AC 3 phase traction motor (M/s Siemens make).</p>	<p>a) DMW will finalize a rate contract for procurement of TM spares.</p> <p>b) Railways are free to get into individual contracts for repairs of TMs.</p>	<p>a) Approved. RDSO should lay down the eligibility criteria.</p> <p>b) Approved. Contracts shall be awarded only in line with RDSO's STR, to be issued shortly.</p>

		<p>c) RDSO/DLW will revisit the tolerances in TM suspension tube to reduce effects of vibrations in TM and suspension tube suppliers systems will be audited.</p> <p>d) RDSO will study the interoperability of different makes of speed sensors with different AC/AC systems and make effort to standardize the speed sensor.</p> <p>e) RDSO will issue check sheet for bull gear and pinion for procurement inspection.</p>	<p>c) Approved.</p> <p>d) Approved.</p> <p>e) Approved.</p>
7.	Failure of under gear items.	<p>a) DLW has allotted different part numbers to lateral thrust pads for passenger and freight application. Railways must use only imported lateral thrust pads in WDP4 series locomotives.</p> <p>b) RDSO to issue Mod Sheet to address the failures of Yaw Dampers.</p> <p>c) RDSO to issue Mod Sheet for use of cast bracket for Vertical Damper bolts. Also, the supplier (KONI) will be advised to suggest solutions with reference to IR operating conditions to reduce failures.</p> <p>d) RDSO will do a quality audit of supplier (Basant) in reference to Secondary Rubber Springs.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p> <p>d) Approved.</p>
8.	Failure of fuel tank.	<p>a) DLW has audited the welding process at suppliers' end and after improved welding procedure cut-in from April 2013, no failures have been reported in the 156 fuel tanks fitted by DLW.</p> <p>b) In the HHP BIM of 2013, it was decided that going by the failure rate in the past, 20 fuel tanks will be procured by DLW against the suspect 421 fuel tanks identified by DLW. These will be distributed to the railways on pro-rata basis as per the population of suspect fuel tanks (List circulated by DLW vide letter dlw.m.65.2111.3 date 07-01-2014).</p> <p>c) RDSO has modified the design of the fuel tank which has been used in WDG4D.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p>

9.	Failure of GP relay.	<p>a) Performance of different makes GP relays (Mors Smith, Siemens, Inder Engineering) may be monitored and RDSO to advise DLW for suitable change in specification for ECC1.</p> <p>b) RDSO to study the local modifications done by NFR, SCR, SWR and issue standard instructions to all units to avoid failures of GP relays.</p>	<p>a) Approved.</p> <p>b) Approved.</p>
10.	Issues related to Fuel Pump Motor.	<p>a) DLW has modified the design and issue of new specification with 2000W inverter is under progress.</p> <p>b) The Railways should share performance of 175 locos fitted with FPM at new location and which were imported directly from Paragon (with hybrid bearing).</p>	<p>a) Approved.</p> <p>b) Approved.</p>
11.	Issues with TM Bellows.	<p>a) Railways to send feedback to DLW on performance of all suppliers.</p> <p>b) Henceforth procurement should be made only on the basis of performance without any bifurcation between indigenous and imported.</p>	<p>a) Approved.</p> <p>b) Approved.</p>
12.	Provision of centrifuge assembly in EMD locomotive.	<p>a) DLW should standardize fitting and design of Centrifuge assembly based on the experience gained in case of ALCO locos.</p>	<p>a) Approved.</p>

Part -II, ALCO Diesel Locomotives

S. No.	Items	Decisions	Board's Orders
1.	Nomination of Alco diesel locos (BG) for POH.	<p>a. 20 locos of SCR and 10 locos of ECoR may be put on trial to assess whether extension of POH periodicity upto 12 lakh km or 9 years, whichever is earlier, is feasible. For such locos, yearly schedule (M24 etc) could also be extended upto 3 years or 3 lac km, whichever is earlier. These railways to make necessary observations, monitor various relevant parameters and provide details to RDSO for analysis before any decision on the matter.</p>	<p>a) Approved.</p>

2.	Reliability issue of MBCS.	<p>a. RDSO will conduct a meeting in SCR with Southern region sheds and at DMW with Northern region sheds to sort out the issues with supplier.</p> <p>b. DLW will organize a training module for MBCS/ AC-AC training separately. Railway shall furnish the scope of training required, duly identifying their need.</p> <p>c. Mod Sheets/ IBs issued by RDSO should indicate whether changes are free of cost or on paid basis.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p>
3.	Conversion to 3RV Power Assemblies.	<p>a. DMW, as informed by them, has already switched over to 3RV power assemblies on rebuilt, new manufactured locos. DMW to continue the same.</p> <p>b. Locomotives undergoing first POH will be converted to 3RV design.</p> <p>c. Concerned diesel sheds viz AMV and GD shall provide trial data to RDSO for assessing feasibility of extended life of 36/48 months in respect of such power assemblies.</p> <p>d. RDSO to fast track sources of liner kit and piston rings.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p> <p>d) Approved.</p>
4.	Modification to convert WDM3D bogies with equilizer beam arrangement into equalizer-less bogies.	<p>a. Board will give RSP sanctions for WDM3D conversion to equalizer less bogies.</p> <p>b. RDSO will explore use of 750 and 1150 dampers in lieu in 600 and 900 dampers.</p> <p>c. Conversion will be taken up by Railways through Workshops or outsourcing to RDSO approved Bogie Manufacturers.</p>	<p>e) Approved.</p> <p>f) Approved.</p> <p>g) Approved.</p>
5.	Failures of Engine Block.	<p>a. Outboard housing to be procured centrally by DMW. Railway shall discontinue local purchase.</p> <p>b. Outboard housing alignment to be checked by the Zonal Railways.</p> <p>c. Railways may furnish feedback on failures of new engine blocks to DLW/RDSO for investigation and analysis. DLW will hold a workshop regarding new block failures on 25-1-2014.</p> <p>d. Strict quality control on vendors of engine blocks shall be ensured by DLW.</p> <p>e. DMW will hold a workshop on maintenance practices regarding engine blocks for providing engine blocks to sheds.</p> <p>f. DMW shall continue stoppage of 4th reclamation on engine blocks.</p> <p>g. CMPE/Dsl/NER will conduct an audit of GOC block reclamation process.</p>	<p>a) Approved.</p> <p>b) Approved.</p> <p>c) Approved.</p> <p>d) Approved.</p> <p>e) Approved.</p> <p>f) Approved.</p> <p>g) Approved.</p>

6.	Performance of 251+ Cylinder Head.	<ul style="list-style-type: none"> a. Nozzle cooling sleeve should be taken as must change item for POH. b. Sheds to ensure proper cleaning of cylinder heads. c. Sheds to ensure that EGT is within limits. d. DMW will modify its PO to incorporate the inspection of 100 pieces by CDE/DLW at firm's premises. e. RDSO shall develop more vendors on top priority. 	<ul style="list-style-type: none"> a) Approved. b) Approved. c) Approved. d) Approved. e) Approved.
7.	Breakage of Cam & Split Gears.	<ul style="list-style-type: none"> a. 100% change of Cam Gear and Split Gear during POH by railways. b. Grinding of gears to be put in place along with profile to be specified by DLW. c. Procedure of proper maintenance practices shall be circulated by DMW to Railways. d. DMW shall compile data indicating that left cam gear is more failure prone. DMW shall study and circulate to the Railways the findings. e. Copper pipe shall be replaced by stainless steel pipe for lubrication of cam gear. 	<ul style="list-style-type: none"> e) Approved. f) Approved. g) Approved. h) Approved. i) Approved.
8.	Failures of SUCS.	<ul style="list-style-type: none"> a. DLW to make camshaft with larger fillet as per original design with 6 hole for NRC and for Railways as well. b. For replacement of L8 & R8 segments, demand to be given by the Zonal Railways to DLW for supply with larger fillet. c. DMW to make stricter, the checking process on supply of these items. d. RDSO will decide within three months regarding 100% switchover to large fillet design. 	<ul style="list-style-type: none"> a) Approved. b) Approved. c) Approved. d) Approved.