

MECHANICAL DEPARTMENT

1.0 DIESEL & OPERATION:-

1.1 Diesel Shed: The Diesel loco shed at VSKP, was commissioned in June 1965 with a holding of 13 WDM₁ class locomotives. Presently it holds 199 Locomotives (WDM₂ – 12, WDG_{3A} –132, WDM_{3A} – 43, WDM_{2S} – 02 & WDS₆ –10) and 3 Rail Buses. With a fleet strength of 199 locomotives & three Rail Buses the diesel loco shed /VSKP is the one of the largest diesel locomotive shed on Indian Railways in terms of locomotive holding. The Shed also provides locomotive maintenance support to PSUs like VPT, NALCO, etc.,

The Diesel Loco Shed is headed by Sr. DME and assisted by 2 DMEs, 3 ADMEs and 1 ACMT.

Performance of Diesel Loco Shed:

1.1.1 Retrofitment of technological superior sub- assemblies has been taken as a thrust area to improve safety, reliability and availability of diesel locomotives. A considerable improvement has taken place in the following areas:-

1.1.2 Microprocessor Based Control System (MEP)-

126 locos have already been fitted which has led to improved availability and reliability of loco. However, further procurement of 59 nos. is held up due to non-availability of fund.

1.1.3 Vigilance Control Device (VCD):

All main line diesel locos are fitted with VCD for safe working of trains.

1.1.4 Complete switch over to AC motors-

In place of conventional DC motors, Fuel Pump, Dust Exhauster blower and crank case motors are all AC type now.

1.1.5 Trial run of DPS(Distributed Power System) locomotives –

A trial run of two coal loaded BOX “N” rakes as long haul train was successfully conducted in VSKP-TIG-RSD section for a stretch of 526 Km with help of two multi WDG_{3A} locomotives fitted with Distributed Power System in which the rear MU was controlled remotely by leading unit for traction & braking operation.

2.0 **IMPORTANT ASSETS OF MECHANICAL DEPARTMENT:-**

a. **ART:**

Div.	Place of ART	Class of ART
KUR	KUR, PSA, BHC & TLHR	KUR-'A' PSA, BHC & TLHR-'B'
WAT	WAT, RGDA, KRPU & KRDL	WAT, RGDA & KRDL -'A' KRPU - 'B'
SBP	SBP & KBJ	SBP & KBJ- 'A'

b. **SP-ART & ARME :**

S.No.	Division	SP-ART		ARME (conv)	
		Location	Scale	Location	Scale
1.	KUR	KUR	Scale 'I'	PSA & BHC	Scale 'I'
2.	WAT	WAT	Scale 'I'	KRPU	Scale 'I'
3.	SBP	SBP	Scale 'I'	TIG	Scale 'I'

c. **BREAK Down CRANES:**

S.No.	Division	140T Crane	120T Crane
1.	KUR	KUR	--
2.	WAT	WAT	WAT, RGDA & KRDL
3.	SBP	SBP & KBJ	--

d. **Crew Management System;**

There are 4 Crew Lobbies under Mechanical control viz. SBP, TIG, RGDA & ANGL. CMS has been implemented in three lobbies & for ANGL Crew lobby, proposal is pending at CRIS.

e. **Running Room**

Three Running Rooms of ECoR are under Mechanical control viz. TIG, RGDA & ANGL.

3.0 **DISASTER MANAGEMENT:-**

Status of implementation of items pertaining to Mechanical Department

Status	Total No. of Items	Recommendation No.
Implemented	47	2, 7, 8, 13, 25, 36, 37 , 38 , 39 ,40, 42 , 52, 56,57, 58 , 59, 60, 61, 62, 63, 64 ,65, 66, 67, 68,70, 72 , 73, 74 , 76 , 77, 79 , 81, 82 , 83 , 84, 85 , 86 , 87 , 88 , 89, 90 , 92, 94, 95 , 106,107
Under implementation		
	01	Awaiting Board's Guideline –91 (tunnel rescue equipment)
Other associated Department	04	4 , 5 , 93,104
Not applicable to ECoR	06	9 , 27 , 71 , 78 , 100, & 111
TOTAL	58	

4.0 **Fueling Points(RCDs) Over East Coast Railway:**

There are nine fuelling points in ECoR viz. RGDA, DYD, DLS, TIG, PRDP, TLHR, ANGL, KUR & BBS and all of them have switched over to road supply. All of them have also obtained explosive clearance.