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

संख्या : 2004/एम(एल)/466/3501 नई दिल्ली, दिनांक 23.05.2014

महाप्रबंधक,
डीजल रेल कारखाना,
वाराणसी।

मुख्य प्रशासनिक अधिकारी,
डीजल इंजन आधुनिकीकरण कारखाना,
पटियाला।

मुख्य यॉत्रिक अभियंता,

मध्य रेलवे, मुम्बई।
पश्चिम रेलवे,मुम्बई।
दक्षिण पूर्व रेलवे, कोलकाता।

उत्तर रेलवे, नई दिल्ली।
उत्तर पश्चिम रेलवे, जयपुर।
पूर्व रेलवे, कोलकाता।

विषयः डीजल लोकोमोटिव की 180 दिनों के अन्दर विफलता पुनःनिर्मित/नवनिर्मित.

जनवरी से मार्च 2014 की तिमाही के दौरान आवधिक ओवरहॉलिग में पुनःनिर्मित/नवनिर्मित डीजल इंजनों की विश्वसनियता रिपोर्ट पूर्णतः विवरण के साथ संलग्न **(अनुलग्नक–1)** यह रिपोर्ट सभी रेलवे से प्राप्त मासिक पीसीडीओ पर आधरित है।

उत्पादन इकाईयों/कार्यशालाओं से अनुरोध है कि वे सुधारात्मक कार्यवाही करें।

(आलोक कुमार मिश्रा)
निदेशक यॉंत्रिक अभियंता (कर्षण)
रेलवे बोर्ड

प्रतिलिपिः मुख्य यॉत्रिक अभियंता,

पूर्व मध्य रेलवे, हाजीपुर।
उत्तर मध्य रेलव, इलाहाबाद।
पूर्वोत्तर सीमांत रेलवे, गुवाहाटी।
दक्षिण पूर्व मध्य रेलवे, बिलासपुर।
पश्चिम रेलवे, मुम्बई।

पूर्व तट रेलवे, भुवनेश्वर
पूर्वोत्तर रेलवे, गोरखपुर।
दक्षिण मध्य रेलवे, सिकन्दराबाद।
दक्षिण पश्चिम रेलवे, हुबली।
पश्चिम मध्य रेलवे, जबलपुर।

Diesel loco failures on WS & PU account (within 180 days)
Jan-March'14 Ist Quarter

Source -PCDOs

Rly Wise

S.No.	Railway	DLW Failure	DMW Faillure	Work Shop Failure							Total failures
				CB	PR	GOC	JMP	KGP	All	Total	
1	CR	3	1	0	2	0	0	0	0	2	6
2	ER	4	1	0	0	0	9	0	0	9	14
3	ECR	1	3	0	2	0	4	0	0	6	10
4	ECoR	0	0	0	0	0	0	10	0	10	10
5	NR	4	2	10	0	0	0	0	0	10	16
6	NCR	0	0	9	5	0	0	0	0	14	14
7	NER	1	0	1	0	0	0	0	0	1	2
8	NFR	0	1	0	0	0	0	6	0	6	7
9	NWR	3	0	0	0	1	0	0	5	6	9
10	SR	0	0	0	2	4	0	0	0	6	6
11	SCR	3	1	0	0	0	0	0	0	0	4
12	SER	0	0	0	0	0	0	0	0	0	0
13	SECR	0	1	0	0	0	0	0	0	0	1
14	SWR	0	0	0	0	0	0	0	0	0	0
15	WR	3	4	0	5	0	0	0	3	8	15
16	WCR	8	4	0	7	0	0	0	3	10	22
IR		**30**	**18**	**20**	**23**	**5**	**13**	**16**	**11**	**88**	**136**

Diesel loco failures on WS & PU account (within 180 days)
Jan-Mar'14 Ist Quarter
System Wise

Source -PCDOs

System	DLW Failur	DMW Faillure	Work Shop Failure							Total failures
			CB	PR	GOC	JMP	KGP	All	Total	
Power pack &	2	6	4	7	0	2	3	2	18	26
% of total	6.7	33.3	20.0	30.4	0.0	15.4	18.8	18.2	20.5	19.1
Lube oil system	0	1	3	5	1	2	0	0	11	12
% of total	0.0	5.6	15.0	21.7	20.0	15.4	0.0	0.0	12.5	8.8
Fuel oil system	3	2	1	0	0	0	4	1	6	11
% of total	10.0	11.1	5.0	0.0	0.0	0.0	0.0	0.0	6.8	8.1
Water cooling system	7	0	2	1	2	2	1	0	8	15
% of total	23.3	0.0	10.0	4.3	40.0	15.4	0.0	0.0	9.1	11.0
Air brake system	6	0	0	0	0	0	0	1	1	7
% of total	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.1
Under gears	0	0	0	0	0	0	1	0	1	1
% of total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.7
Governor	1	1	0	1	1	1	1	0	4	6
% of total	3.3	5.6	0.0	4.3	20.0	7.7	6.3	0.0	4.5	4.4
Electrcal controls	3	1	0	0	0	0	0	1	1	5
% of total	10.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.7
Contractors/Re	1	0	1	4	0	1	2	1	9	10
% of total	3.3	0.0	5.0	17.4	0.0	7.7	0.0	0.0	10.2	7.4
Wiring/cables	0	3	4	1	0	1	0	0	6	9
% of total	0.0	16.7	20.0	4.3	0.0	7.7	0.0	0.0	6.8	6.6
Traction	1	0	1	0	1	1	3	3	9	10
% of total	3.3	0.0	5.0	0.0	20.0	7.7	0.0	0.0	10.2	7.4
Traction Generators	1	2	0	2	0	0	0	0	2	5
% of total	3.3	11.1	0.0	8.7	0.0	0.0	0.0	0.0	2.3	3.7
Aux. Mechanical	3	0	2	0	0	2	0	2	6	9
% of total	10.0	0.0	10.0	0.0	0.0	15.4	0.0	0.0	6.8	6.6
Aux. Electrical	1	1	2	2	0	1	1	0	6	8
% of total	3.3	5.6	10.0	8.7	0.0	7.7	0.0	0.0	6.8	5.9
Misc.	1	1	0	0	0	0	0	0	0	2
% of total	3.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Total failures	30	18	20	23	5	13	16	11	88	136

Detail of Causewise failure analysis of WS & PU acct with in 180 Days
(JANUARY 2014)

S.No	Rly's	Loco No.	System	Account	Details
1	CR	40165	ABS	DLW	Electronic Brake valve defective.
2	CR	40143	GOV.	DLW	Governor Defective.
3	ER	16046	Cont.Relay	JMP	BKT Power Contactor Broken.
4	ER	16040	P.PACK	JMP	Exhaust manifold broken.
5	ER	11441	Elect.wiring.	DMW	Wire no. 71 BT damage.
6	ER	16115	Aux.Elec.	JMP	Excitor Bearing Cover open.
7	ER	18572	WCS	JMP	Water lkg from cyl. head sleeve.
8	ER	13188	LOS	JMP	Lube oil int. leakage.
9	ER	12893	FOS	DLW	No. 12 cyl. Head plunger seize.
10	ER	12790	Aux.Mech.	DLW	After cooler out pipe joint crack.
11	ER	12795	WCS	DLW	Water leakage from L/Core.
12	ECOR	14653	FOS	KGP	Fuel oil leakage/change.
13	ECOR	14650	FOS	KGP	2L/7L FIP change.
14	NR	11142	WCS	CB	W/leakage starv.pipe coupling.
15	NR	18542	LOS	CB	Gear Teeth Broken.
16	NR	11147	P.PACK	CB	Engine block crack.
17	NR	12894	WCS	DLW	Water Leakage in radiator room.
18	NR	11459	P.PACK	DMW	TSC defective.
19	NR	11460	LOS	DMW	LO Pump out. pipe gasket burst.
20	NCR	18739	Cont.Relay	PR	S 21P/Contactor flashed
21	NCR	14162	Cont.Relay	CB	CK2 NCNo4 contactor broken.
22	NCR	16082	T.Motor	CB	T.M.no 6 Commu. Segments damage
23	NCR	14162	LOS	CB	Lub.oil leakake from out let pipe.
24	NCR	13295	Aux.Elec.	CB	L/c stand reversor handle sticking up.
25	NER	16025	P.PACK	CB	Water pump out let pipe leakage.
26	NFR	18667	U/F	KGP	Cattle guard founda. bolts not fitted
27	NFR	16758	P.PACK	DMW	R1,L1 & L2 cam lobs worn out.
28	NFR	17912	WCS	KGP	Rt/Radiator tube punctured.
29	NFR	17912	Gov.	KGP	Gov.defective.
30	NW	14016	T.Motor	All	T.M no 4 Brg.seized.
31	NW	18987	T.Motor	All	T.M no 5 DP gear not modified.
32	SR	14640	LOS	GOC	Moatti filter joint leakage.
33	SR	14123	GOV.	GOC	Gov.defective.
34	SC	12583	ABS	DLW	Both sides horn shell punctured.
35	SC	40150	WCS	DLW	Eng. block no. 4 water jacket crack.
36	SC	11440	T. Alt.	DMW	Stator winding burnt.
37	SC	12852	ABS	DLW	Short hood horn diaphragm punctured
38	WR	14098	Aux.Mech.	All	After cooler tube burst.
39	WR	14765	LOS	PR	Lube oil leakage in radiator room.
40	WR	13213	P.PACK	PR	Exh. Manifold no. 7 leakage.
41	WR	11479	FOS	DMW	L-8 FIP HP Pipe broken.
42	WR	11479	Elect.Control	DMW	SIM control system defective.
43	WC	14883	LOS	PR	L. Oil leakage from filter.
44	WC	13153	GOV.	PR	Gov. defective.
45	WC	14643	P.PACK	PR	L-6 piston sieze.
46	WC	12863	WCS	DLW	Internal water leakage.
47	WC	13153	T.Gen.	PR	T. Gen. not working.
48	WC	13318	FOS	All	FIP Zero.
49	WC	12822	Aux.Mech.	DLW	Air comp. L. Oil Drain.
50	ECR	13172	P.PACK	JMP	Power Pack assly. Damage.
51	ECR	11279	LOS	JMP	Moatti filter joint leakage.
52	ECR	11487	Cont.Relay	PR	GF contactor defective.
53	ECR	11465	LOS	PR	L. Oil leakage from filter.

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
11	7	7	8	9	5	2	4	53

Details of Causewise failure analysis of WS & PU account (with in 180 Days)

(FEBRUARY 2014)

S.No	Rly's	Loco No.	System	Account	Details	
1	CR	17910	Aux Elec.	PR	Excitor Gen. field cable lug broken.	
2	ER	12937	Elect.Control	DLW	TC1 to TC6 TM differen. Def.	
3	ECR	12877	P.PACK	DLW	Power assly damage.	
4	ECR	11495	Aux Elec.	DMW	Aux. Gen. Pinion slip.	
5	ECR	11290	Aux.Mech	JMP	ECC inner drum jam.	
6	ECR	16615	Misc	DMW	Speed < 5-6 kmph.	
7	ECR	16699	T.Gen	DMW	T. Alt. rotor mounting bolt broken.	
8	ECoR	13220	Aux Elec.	KGP	S/Hood controller change.	
9	ECoR	14673	Aux Elec.	KGP	L/Hood controller change.	
10	ECoR	16682	FOS	KGP	L1 FIP U/usual sound.	
11	ECoR	16682	P.PACK	KGP	Ext. gear shaft gear teeth broken.	
12	NR	11142	Aux.Mech	CB	After cooler tube burst.	
13	NR	18984	FOS	CB	R7 Banjo pipe screw broken.	
14	NR	15510	ElectWiring	CB	wire no. 43K & 43L worked out.	
15	NR	11161	Aux.Mech	CB	Air comp. HP suction valve def.	
16	NR	40080	ABS	DLW	MVCC valve malfunction.	
17	NR	12862	WCS	DLW	Y pipe dressor coupling leakage.	
18	NCR	16082	Cont.Relay	PR	BKT one contactor flashed.	
19	NCR	18682	LOS	CB	LO gauge pipe leakage.	
20	NCR	14162	P.PACK	CB	Exh. Manifold 7 broken.	
21	NCR	18682	ElectWiring	CB	Wire no. 50 broken,Throtle not respond.	
22	NCR	18739	ElectWiring	PR	Grid 3 nos. resistance burnt.	
23	NFR	18677	WCS	KGP	Right side radiator tube cracked.	
24	NFR	18677	P.PACK	KGP	L4 cyl. Head yoke broken.	
25	NFR	17912	P.PACK	KGP	R7 cyl. Head liner top broken.	
26	NWR	18708	P.PACK	All	TSC failed.	
27	NWR	12841	Elect.Control	DLW	LCC & CCB communication failure.	
28	SR	11454	T.Gen	PR	Alt. field circuit broken.	
29	WR	14097	Cont.Relay	All	L/s flasher unit defective.	
30	WR	12908	WCS	DLW	Y pipe dressor coupling leakage.	
31	WR	14765	TSC	PR	TSC compressor wheel get damaged.	
32	WR	11479	Gov	DMW	MCBG Gov. PRS box def.	
33	WR	11414	P.PACK	DMW	E/R/S L6 liner got broken.	
34	WCR	14793	LOS	PR	L.Oil filter out drum pipe gasket burst.	
35	WCR	13328	Elect.Control	All	Load meter zero.	
36	WCR	12926	WCS	DLW	Water glow rod leaking.	
37	WCR	16774	FOS	DMW	R2 cyl. Head banjo bolt broken.	
38	WCR	14882	WCS	PR	R/S bubble collector coupling leaking.	
39	WCR	16736	Elec Cable	DMW	Dyn. Braking Grid burnt.	
40	WCR	12863	ABS	DLW	MR zero.	
41	WCR	11462	Elec Cable	DMW	Dyn. Braking fuse burnt.	
42	WCR	11174	T.Gen	PR	TA fan bolts broken.	

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
8	8	1	7	8	7	0	3	42

Details of Causewise failure analysis of WS & PU account (with in180 Days) (MARCH 2014)					
S.No	**Rly's**	**Loco No.**	**System**	**Account**	**Details**
1	CR	11456	P.Pack	PR	L-7 connecting rod broken.
2	CR	11470	P.Pack	DMW	R-2 piston broken.
3	CR	40157	T.Gen	DLW	Alt.defective.
4	ER	18634	Wiring	JMP	Wire no50 was not tightened.
5	ER	16210	T.Motor	JMP	T.M.no-3 field IR=0.
6	ER	14724	WCS	JMP	Water leakage from A/cooler inlet pipe.
7	ER	14772	Aux.Mech	JMP	Exp. exh. Valve no. 3 piston seized.
8	EC	18524	Gov	JMP	Gov. malfunctioning.
9	ECOR	14675	T.Motor	KGP	T.M.no 5 armature seized.
10	ECOR	16691	T.Motor	KGP	T.M.no 4 armature seized.
11	ECOR	16185	Cont.Relay	KGP	LWS unit mal functioning.
12	ECOR	14674	T.Motor	KGP	TM no 6 flash.
13	NR	17943	Wiring	CB	Thimble of wire no 61K broken.
14	NR	15514	Wiring	CB	Wire no 61K broken.
15	NR	15053	P.Pack	CB	Crank shaft no9 crack.
16	NR	40080	P.Pack	DLW	No-7 injector jammed.
17	NC	18682	P.Pack	PR	TSC defective.
18	NC	18739	Cont.Relay	PR	MCO contactor tips flashed.
19	NC	14152	P.Pack	CB	L-8 Cy.head inlet valve broken
20	NC	16082	Aux.Elect	CB	Excitor Generator holders arm loose.
21	NE	40169	Aux.Mech	DLW	Inter cooler safety valve blowing
22	NW	16155	T.Motor	All	TM no 2 holder spring broken.
23	NW	18987	Aux.Mech	All	A/C. flexible coupling bolt broken.
24	NW	12847	T.Motor	DLW	TM no 5 pinion crack.
25	NW	12927	Elect.cont	DLW	Tractive Effort Zero
26	SR	11228	WCS	GOC	L1 riser pipe crack.
27	SR	11228	WCS	GOC	R1 riser pipe crack.
28	SR	14140	T.Motor	GOC	TM no 1 inter pole joint fused
29	SR	11452	P.Pack	PR	Water pump teeth broken.
30	SECR	16754	P.Pack	DMW	L-2 piston seized.
31	WR	14092	ABS	All	A9 valve was continuously air leaking.
32	WR	12906	Aux.Elect	DLW	SCR assembly output zero no excitation
33	WR	12909	Cont.Relay	DLW	BC relay valve in CCB defective.
34	WR	13213	P.Pack	PR	L-5 cylinder coller broken.
35	WR	18828	LOS	PR	Lub.oil leaking from filter housing.
36	WC	13318	P.Pack	All	OST Assembly tripping again and again.
37	WC	12948	FOS	DLW	Injector unit jammed.
38	WC	12964	FOS	DLW	FIP no-2 jammed.
39	WC	12863	Misc	DLW	ESD.
40	WC	12979	ABS	DLW	L/S horn defective.
41	WC	11192	P.Pack	DMW	L-6 connecting rod broken.

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
11	3	5	5	6	4	3	4	41