

NORTHEAST FRONTIER RAILWAY



WORK STUDY REPORT ON ADEQUACY OF STAFF STRENGTH OF MECHANICAL DEPT (DIESEL SHED/MLDT) UNDER Sr. DME/D/MLDT

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STUDY NO. WSNF/34/2019-20

CASE NO. Z/375/10/34-19

CENTRAL PLANNING ORGANISATION

N. F. RAILWAY/MALIGAON

GUWAHATI - 781011.

EXECUTIVE SUMMARY

**SUBJECT: ADEQUACY OF STAFF STRENGTH OF MECHANICAL DEPT.
(DIESEL SHED/MLDT) UNDER Sr.DME/D/MLDT, N.F. RAILWAY**

STUDY NO: WSNF/34/19-20

CASE NO: Z/375/10/34-19

AUTHORITY: SDGM of N.F.Railway.

CONCERN DEPOT: MLDT DIESEL SHED

DEPARTMENT: MECHANICAL

TERMS OF REFERENCE: To assess the requirements of Staff Strength of Mechanical Dept. (Diesel Shed)/MLDT

NO. OF RECOMMENDATION: One

After critical examination of the workload and activities out of 82**vacant posts** total **26Nos of posts** (Viz. 04Nos Posts LP Shunter category, 05NosTech/I/M/Category, 05Nosof Tech/I/E/ category, 05Nosof Tech/I/M/Ancl category, Helper, 06 Nos&01 No.M/Driver) under Sr. DME/D/MLDT are surplus, which may be surrendered and the BOS may be corrected accordingly.

PROJECTED MAN POWER SAVINGS:26Nos.

PROJECTED FINANCIAL SAVING: Rs.95.84 Lakhs per annum.

MONTH AND YEAR OF CIRCULATION: May 2019

I N D E X

Chapter	Contents	Page No.
I	Introduction	4
II	Summary of work load	5-13
III	Critical analysis of staff requirements.	13-24
IV	Proposed staff & surplus posts (category & scale wise).	24
V	Recommendation.	25
VI	Financial implication.	25
VII	Ready reckoner	26

CHAPTER – I

1.0 INTRODUCTION:

2.0 BRIEF HISTORY

Malda Diesel Shed was established in 1984 and the foundation stone of the Shed was laid by Late Mr. A.B.A.Gani Khan Chowdhury, the then Honorable Railway Minister on November 13, 1982. Malda Diesel Shed was originally a Steam Shed but with the introduction of Diesel Traction, this Shed was converted to Diesel and became the first BG Diesel Shed in Northeast Frontier Region. Its holding increased from 20 locos to 57 locos from 1984 to 2008. Today, this Diesel Shed is reputed for the quality of its faculty and maintenance standard for diesel locomotives in Indian Railway.

At present holding are 78 locomotives. This depot is ISO certificate holder and reputed for quality maintenance standard of locomotives in Indian Railway.

1.1 RATIONALE FOR CONDUCTING THIS STUDY:

- Man power is the most costly and precious resource over Indian Railway and right sizing is the need of the hour.
- Focusing attention on core activities by reducing/elimination of non- core activities.
- Improving the efficiency (output/input) either by improving the output (numerator) or by decreasing the input (denominator).
- Up-gradation/introduction of automation/innovations
- Availability of better process/technology.
- Reducing/removing redundancy in work.

1.2 AUTHORITY:

SDGM of N.F.Railway.

1.3 TERMS OF REFERENCE:

Review of Staff Strength of Mechanical department (Diesel Shed) of MLDT.
Under Sr. DME/MLDT.

1.4 METHODOLOGY:

- a) Collection of data relating to workload.
- b) Discussion with AMM/MLDT & Subordinates and obtaining their views.
- c) Assess the workload for various wards of store depot.
- d) Assess the staff requirements for the above workload.
- e) Collection & evaluation of data in respect of receipt & Issue transactions of different wards & sections.
- f) Examination of facts & figure keeping in view the present work load vis – a – vis Man power available .
- g) View and suggestions.
- h) Arriving at the optimum requirement of Man power for the present workload.

1.5 ACKNOWLEDGEMENT:

Work study team is grateful to **Shri Satya Ketu Singh, Sr.Dme/D/Mldt**, **Sri Anjan Bardhan, Adme/D/Mldt**, **Shri Vikash Kr. Bibhu, SSE/Drg/D/Mldt & Shri Anup Guha, OS/E/Mldt**. for their kind guidance and co-operation for conducting this study.

CHAPTER-II

2.0 SUMMARY OF WORK LOAD

Malda Diesel Shed was established in 1984. This is an ISO certificate holder diesel shed and known for its quality maintenance of locomotives for mail express trains. Present main line loco holding of this shed becomes 78 nos locos which are mostly WDM3A (58 nos) & WDM3D (15 nos.). MLDT Diesel shed has 60 locos homing capacity and there are 68 locos in passenger link. This shed has 02 nos. LR bays and 02 nos. HR bays and both having capacity of 03 locos maintenance in each bay. This depot is equipped with under floor wheel lathe, whiting jack, over head EOT crane, lube dispensing plant, RCD, laboratory etc. which are essential for quality maintenance of locomotives.

2.1 WORK LOAD & STAFF STRENGTH OF MALDA DIESEL SHED FOR THE YEAR-2018-19.

A - JURISDICTION OF MALDA DIESEL SHED.

- I) Entire NF Railway and Eastern Railway.

B. Work Load of Wards and Sections (From April, 2018 to March, 2019):- MALDA DIESEL SHED

1. Air brake section

Activities: Testing & overhauling of valves related to Air brakes Viz. F-I Selector, A-9, SA-9, C-2 Relay, Addl. C-2, D-1 Emergency, NI reducing, 3/8" pressure regulated valve, Feed Valve Etc.

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	JE/M	L6	1
3	Sr Tech/M	L6	5
4	Tech/I/M	L5	1
5	Tech/II/M	L4	4
6	Helper	L1	3
		Total	15

2. Under gear section

Activities: Schedule maintenance work (Viz. M4, M8, M12, M24) & non schedule changing & Spl repair of under truck of loco bogie frame.

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	2
2	JE/M	L6	2
3	Sr Tech/M	L6	6
4	Tech/I/M	L5	7
5	Tech/II/M	L4	8
6	Tech/III/M	L3	8
7	Helper	L1	1
		Total	34

3. Diesel control room

Activities: Control over phone for total controlling of IC & OG loco, feeding communication to HQ Etc.

SN	Category	Payband/Level	On Roll
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1	OS	L6	1
2	Tech /III/M	L3	3
3	Tech/III/E	L3	1
		Total	5

4. Diesel Training School

Activities:: Impart training of locomotives to Diesel loco LP & ALP & conduct refresher course.

SN	Category	Payband/Level	On Roll
1	SrInst/M	L7	1
2	SrInst/E	L6	1
3	Tech-III	L3	1
		Total	3

5. Tool room section

Activities: To supply tools as per requirement to various section of diesel shed

SN	Category	Payband/Level	On Roll
1	Sr Tech/M	L5	1
		Total	1

6. Loco Fueling point

Activities: To feed locomotives fuel

SN	Category	Pay band/Level	On Roll
1	SSE/M	L6	1
2	Tech/II/M	L2	3
3	Tech-III/M	L1	1
4	Helper	L1	2
5	OS	L6	1
		Total	8

7. Mechanical Heavy schedule section:

Activities: Major schedule maintenance and repair of loco from mechanical side

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	3
2	JE/M	L6	1
3	Sr Tech/M	L6	3
4	Tech-I/M	L5	9
5	Tech-II/M	L4	14
6	Tech-III/M	L3	02
7	Helper	L1	03
		Total	35

8. Electrical Heavy schedule section:

Activities: Major schedule maintenance and repair of loco from Electrical side

SN	Category	Payband/Level	On Roll
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1	SSE/E	L7	2
2	JE/E	L6	1
3	Sr Tech/E	L6	5
4	Tech-I/E	L5	8
5	Tech-II/E	L4	12
6	Tech-III/E	L3	03
7	Helper	L1	04
		Total	35

9. Mechanical running section :

Activities: Minor schedule maintenance of loco in shift (Mechanical work)

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	4
2	JE/M	L6	4
3	Sr Tech/M	L6	12
4	Tech-I/M	L5	13
5	Tech-II/M	L4	4
6	Tech-III/M	L3	6
7	Helper	L1	4
		Total	47

10. Electrical running section :

Activities: Minor schedule maintenance of loco in shift (Electricall work)

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	4
2	JE/E	L6	2
3	Sr Tech/E	L6	10
4	Tech-I/E	L5	02
5	Tech-II/E	L4	07
6	Tech-III/E	L3	04
7	Helper	L1	06
		Total	35

11. Speedo meter section :

Activities: Maintenance & O/H of Speedo meter of loco. Download memory card of recorder of S/Meter and analyze loco failure.

SN	Category	Payband/Level	On Roll
1	JE/M	L6	1
2	Sr Tech/M	L6	3
3	Sr Tech/E	L6	1
4	Tech/I/M	L5	1
5	Tech/I/E	L5	1
6	Tech/III/M	L3	2
		Total	9

12. Statistical cell

Activities:

SN	Category	Payband/Le	On Roll
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		vel	
1	JE/M	L6	1
2	Sr Tech/E	L6	1
3	Tech/I/M	L5	1
4	Tech/II/M	L4	2
		Total	5

13. Laboratory :

Activities: Testing of lube oil, fuel oil, rubber gasket, Ultra sonic of axle, non destructive testing of loco component, cooling water, spectrographic testing of lube oil etc

SN	Category	Payband/Level	Grade pay	On Roll
1	CMS	L7	4800	4
2	CMS	L7	4600	1
3	CMA	L7	4800	1
4	CMA	L6	4200	1
5	Lab Attd	L1	2000	1
6	Lab Attd	L1	1900	1
7	Lab Attd	L1	1800	1
8	Tech/III/M	L1	1900	2
9	Helper	L1	1900	1
			Total	13

14. Expresser section

Activities: Testing & overhauling of air compressor & maintaining major/minor schedule of loco

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	2
3	Sr Tech/M	L6	4
4	Tech-I/M	L5	2
5	Tech-II/M	L4	4
6	Tech-III/M	L3	2
7	Helper	L1	2
		Total	16

15. Fuel injection pump & Governor section :

Activities: Testing & overhauling of FIP, Nozzle, HP tube, Governor, Fuel Booster pump etc

SN	Category	Payband/Level	On Roll
1	JE/M	L6	1
2	Tech/I/M	L5	1
3	Tech/II/M	L4	1
4	Tech/III/M	L3	2
5	Helper	L1	1
		Total	6

16. Mechanical Test section :

Activities: Testing & overhauling of various small pumps of loco viz. water pump, lube oil pump, rear/front track, traction motor blower, FIP support etc.

SN	Category	Payband/Level	On Roll
1	Sr Tech/M	L6	2
2	Tech/I/M	L5	1
3	Tech/II/M	L4	4
4	Tech/III/M	L3	1
5	Helper	L1	1
		Total	9

17. Cylinder head & Turbo Super Charger section :

Activities : Cylinder head, turbo super charger, after cooler, lube oil, schedule maintenance & overhauling. Failure attention of various loco parts under this section

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	Sr Tech/M	L6	5
3	Tech/I/M	L5	2
4	Tech/II/M	L4	1
5	Tech/III/M	L3	3
6	Helper	L1	1
		Total	13

18. Electrical Test Room :

Activities: Testing & overhauling of converter, flasher lights, pressure switch, engine control sw. load metre, sensor, load water switch etc.

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	Sr Tech/E	L6	1
3	Tech/II/E	L4	1
		Total	3

19. Electrical Component section ::

Activities : Testing & overhauling of power contactor, Reverser, BKT (Braking contactor), Master controller, CK-1, CK-2, CK-3 (Cranking contactor), General field contactor , Field shunt contactor, Resistance, field control panel, Fuel pump contactor (FPC) etc

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	Sr Tech/E	L6	1
3	Tech-I/E	L5	1
4	Tech-II/E	L4	1
5	Tech-III/E	L3	2
6	Helper	L1	1
		Total	7

20. Small Motor Section

Activities: Loco small motor Viz. fuel pump, crank case ,DEBM motor overhauling & maintenance.

SN	Category	Payband/Le	On Roll
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		vel	
1	Sr Tech/E	L6	1
2	Tech-I/E	L5	1
3	Tech-II/E	L4	1
4	Tech-III/E	L3	1
		Total	4

21. Battery Section :

Activities: Maintenance of battery for secondary cells. Preparation of electrolyte, checking of Specific gravity, Checking voltage and ampere etc

SN	Category	Payband/Level	On Roll
1	Sr Tech/E	L6	1
2	Tech-III/E	L3	5
3	Helper	L`1	1
		Total	7

22. Ancillary section :

Activities :Maint. Overhauling & repairing of ancillary equipments of locos

SN	Category	Payband/Level	On Roll
1	JE/M	L6	2
2	Sr Tech/M	L6	7
3	Tech/I/M	L5	5
4	Tech/II/M	L4	7
5	Tech/III/M	L3	5
6	Helper	L1	3
7	S/Cleaner	L1	2
		Total	31

23. SSE/Diesel/Office

Activities: Preparation of muster roll of entire D/shed, leave record, sick, pass-PTO issue of Diesel shed worker

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	SSE/E	L7	1
3	Ch OS	L7	2
4	OS	L6	3
		Total	7

24. General Section 1:

Activities :Dealing with all administrative work related to confidential work, loco monitoring ,loco inspection etc

SN	Category	Payband/Level	On Roll
1	Ch OS	L7	4
2	OS	L6	4
3	E/Peon	L1	1
		Total	9

25.General Section 2:

Activities :Dealing with all administrative work related to confidential work, loco monitoring ,loco inspection etc

SN	Category	Payband/Level	On Roll
1	ConfAsst	L7	1
2	CLI	L7	2
3	MV Driver	L6	1
4	MV driver	L1	1
		Total	5

26.Material Inspector Cell :

Activities: Procurement of non stock&imprest material, preparation of indent of BHEL, MICO , DMW Patiala & IRSP items

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	SSE/Drg	L7	1
3	JE/M	L6	3
4	OS	L6	2
5	Tech-II/M	L4	1
6	Tech-II/E	L4	1
7	Tech-III/M	L3	2
8	Tech-III/E	L3	1
9	Helper	L1	3
		Total	15

27.Establishment:

Activities: Regular establishment work Viz. salary, settlement, leave, pass , PTOs etc

SN	Category	Payband/Level	On Roll
1	OS	L6	3
2	Jr Clerk	L3	1
		Total	4

28.SSE/Store

Activities: To feed entire store for Diesel loco maintenance of this shed

SN	Category	Payband/Level	On Roll
1	Ch OS	L7	1
2	OS	L6	3
3	Helper	L1	2
4	S/Cleaner	L1	1
		Total	7

29.LRMS

Activities: Monitoring on line loco activity through computer

SN	Category	Payband/Level	On Roll
1	Sr Tech/E	L6	1
2	Tech/II/E	L4	2
		Total	3

30. Rotating Equipment section :

- Traction motor
- Alternator
- Auxiliary excitor generator
- Dynamic braking blower motor
- Eddy current clutch

Activities: Overhauling maintenance of the above vide schedule, non schedule checking, fault finding & failure attention.

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	JE/E	L6	1
3	Sr Tech/E	L6	3
4	Tech/I/E	L5	1
5	Tech/II/E	L4	4
6	Tech/III/E	L3	3
7	Tech-II/Ancl	L3	1
8	Tech-III/Ancl	L3	2
		Total	16

31. LP/Shunter

Activities: To move the loco from Diesel shed.

SN	Category	Payband/Level	On Roll
1	LP/Shunter	L6	2
		Total	2

➤ Safety Category Vacancy Position of MLDT/ Diesel Shed is furnished below:

S N	CATEGORY	SCALE	SANCTION	ON ROLL	VACANCY
1	Sr.SE/D/Mech	09300-34800/-L7	20	16	04
2	JE/D/Mech	09300-34800/-L6	09	14	(-)05
3	Sr.SE/D/E	09300-34800/-L7	11	10	01
4	JE/D/E	09300-34800/-L6	04	04	0
5	Sr.LI	09300-34800/-L7	03	02	01
6	LP/Shunter	09300-34800/-L6	10	02	08
7	JE/D/Ancl.	09300-34800/-L6	02	01	01
8	Sr.Tech/D/M	09300-34800/-L6	44	41	03
9	Tech. Gr I / M	05200-20200/-L5	87	35	52
10	Tech. Gr II / M	05200-20200/-L4	14	54	(-)40
11	Tech. Gr III / M	05200-20200/-L3	26	21	05
12	Sr.Tech/D/E	09300-34800/-L6	25	24	01
13	Tech. Gr I / E	05200-20200/-L5	49	06	43
14	Tech. Gr II / E	05200-20200/-L4	08	24	(-)16
15	Tech. Gr III / E	05200-20200/-L3	14	14	0
16	Sr.Tech/M/Ancl.	09300-34800/-L6	09	07	02
17	Tech.GrI/M/Ancl.	09300-34800/-L6	18	07	11
18	Tech.GrII/ M/Ancl.	05200-20200/-L5	02	03	(-) 01

19	Tech.GrIII / M/Ancl.	05200-20200/-L4	03	06	(-)03
20	Sr.Tech/E/Ancl.	05200-20200/-L3	03	01	02
21	Tech.GrI/E/Ancl.	05200-20200/-L5	06	0	06
22	Tech.GrII/ E/Ancl.	05200-20200/-L4	01	01	0
23	Tech.GrIII / E/Ancl.	05200-20200/-L3	0	06	(-)06
24	Helper	05200-20200/-L1	53	40	13
			421	339	82

Non-Safety Category Vacancy Position of MLDT./ Diesel Shed is furnished below

1	CMS	09300-34800/-L7	06	05	01
2	CMA	09300-34800/-L7	04	02	02
3	Lab.Asst. Gr.I	05200-20200/-L5	01	0	01
4	Lab.Asst. Gr.II	05200-20200/-L4	01	0	01
5	Lab.Asst. Gr.III	05200-20200/-L3	03	0	03
6	Lab.Attendant.	05200-20200/-L1	04	03	01
7	CHIEF OS/G	09300-34800/- L-7	06	07	(-)01
8	OS/(G)	09300-34800/- L-6	09	06	03
9	SR. CLERK	05200-20200/- L-5	04	0	04
10	JR. CLERK(G)	05200-20200/- L-2	01	0	01
11	CDMS	09300-34800/- L-7	06	06	0
12	DMS	09300-34800/- L-6	02	01	01
13	Typist	05200-20200/- L-5	01	0	01
14	Peon	05200-20200/- L-1	01	01	0
15	M/DRIVER,GR-II	05200-20200/- L-4	03	02	01
16	Helper	05200-20200/- L-1	18	15	03
17	S.Cleaner	05200-20200/- L-1	01	01	0
18	M/Cleaner	05200-20200/- L-1	01	0	01
			72	49	23

CHAPTER-III

3.0CRITICAL ANALYSIS OF EXISTING WORKLOAD AND STAFF REQUIREMENTS:

While going through the work study of MLDT Diesel Shed it is observed that there is no specific yard stick to measure the volume of work load. It is recommended that yard sticks should be fixed based on a scientific work study and reviewed periodically to account for the changes in the competence profile of the staff, the market condition and other environmental factors. Considering 290 working days in a year (excluding holidays) the workload of different sections in a year have been worked out per day basis. The work study team then critically analyzed these activities with respect to how much activities a normal person can handle per day. Based on this, the requirement of different categories of staff have been worked out which are shown below section wise.

3.1 REQUIREMENT OF STAFF :- (Ref. chapter II)

- **WORK LOAD OF LP SHUNTER:**

This category is entrusted to move loco from yard to diesel shed or light repair to heavy repair or vice versa for working loco ,light loco, dead loco movement.

Against the sanctioned strength of 10Nos of LP Shunter, presently the Diesel Shed is running with 02 Nos & Keeping 08 posts are vacant.. Considering promotional avenue and future expansion of work load only **04 Nos LP Shunter**, out of 08 **vacant posts of this category may be recommended for surrender.**

- **WORK LOAD OF TECH/I/M:**

This category is engaged for mechanical accessories & spares maintenance work of locomotives component & schedule maintenance work Viz. T1, T2. M2, M4, M8, M12, M24 & M48 of locomotives

Against the sanctioned strength of Tech/M category (44 + 87 + 14 + 26) = 171, presently **20 posts are vacant** .Considering promotional avenue and future expansion of work load only **05 vacant posts Tech-/I/M Category may be recommended for surrender.**

- **WORK LOAD OF TECH/I/E:**

This category is engaged for Electrical accessories & spares maintenance work of locomotives component & schedule maintenance work Viz. T1, T2. M2, M4, M8, M12, M24 & M48 of locomotives

Against the sanctioned strength of Tech/E category (25+49+8+14) = 96, presently **28 posts are vacant** .Considering promotional avenue and future expansion of work load only **05 vacant posts of Tech-/I/E Category may be recommended for surrender.**

- **WORK LOAD OF TECH/ I/M/AncI:**

This category is engaged for ancillary painting, carpentry work of locomotive maintenance and schedule maintenance work Viz. T1, T2. M2, M4, M8, M12, M24 & M48 of locomotives

Against the sanctioned strength of Tech/AncI category (09+18+02+03) = 32, presently **09 posts are vacant** .Considering promotional avenue and future expansion of work load only **05 vacant posts of Tech-/I/AncI Category may be recommended for surrender.**

- **WORK LOAD OF HELPER:**

This category is the assistance category of Technicians in shed as well as office. For regular day to day work of the shed this category is employed to assist the technicians in mechanical, electrical & ancillary work of locomotive maintenance.

Against the 53nos sanctioned posts, the Depot is running with 42 posts & keeping 11nos post vacant. By considering the work load the vacant 06nos post of Helper category may be recommended for surrender and left 05 vacant posts are kept aside for future expansion of this shed.

- **WORK LOAD OF MV/DRIVER:**

This category is engaged for driving Motor vehicle, regular checking and monitoring the running vehicle as and when attention required.

Against the sanctioned strength of 03Nos.post, presently the Depot is running with 02 nos. M/Driver keeping 01 post vacant. At present scenario, Railway is engaging vehicles in contract basis and in that case there is no use to retain the vacant post of M/Driver. **Moreover, this category is already declared as diminishing category vide GM/P/MLG's letter no. E/59/III-4(C) Pt. V-B, Dtd. 16/10/2010.** Considering the work load the vacant 01 no post of M/Driver category may be recommended for surrender.

The detail staff position along with additional post proposed at all different wards/section under Sr.DME/D/MLDT is furnished below:

1 Air brake section

Activities: Testing & overhauling of valves related to Air brakes Viz. F-I Selector, A-9 , SA-9, C-2 Relay , Addl. C-2, D-1 Emergency, NI reducing, 3/8" pressure regulated valve, Feed Valve Etc.

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	JE/M	L6	1
3	Sr Tech/M	L6	5
4	Tech/I/M	L5	1
5	Tech/II/M	L4	4
6	Helper	L1	3
		Total	15

02. Under gear section

Activities: Schedule maintenance work (Viz. M4, M8, M12, M24) & non schedule changing & Spl repair of under truck of loco bogie frame.

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	2
2	JE/M	L6	2
3	Sr Tech/M	L6	6
4	Tech/I/M	L5	7
5	Tech/II/M	L4	8
6	Tech/III/M	L3	8
7	Helper	L1	1
		Total	34

03. Diesel control room

Activities: Control over phone for total controlling of IC & OG loco, feeding communication to HQ Etc.

SN	Category	Payband/Level	On Roll
1	OS	L6	1

2	Tech /III/M	L3	3
3	Tech/III/E	L3	1
		Total	5

04. Diesel Training School

Activities:: Impart training of locomotives to Diesel loco LP & ALP & conduct refresher course.

SN	Category	Payband/Level	On Roll
1	SrInst/M	L7	1
2	SrInst/E	L6	1
3	Tech-III	L3	1
		Total	3

05. Tool room section

Activities: To supply tools as per requirement to various section of diesel shed

SN	Category	Payband/Level	On Roll
1	Sr Tech/M	L5	1
		Total	1

06. Loco Fueling point

Activities: To feed locomotives fuel

SN	Category	Pay band/Level	On Roll
1	SSE/M	L6	1
2	Tech/II/M	L2	3
3	Tech-III/M	L1	1
4	Helper	L1	2
5	OS	L6	1
		Total	8

7. Mechanical Heavy schedule section:

Activities: Major schedule maintenance and repair of loco from mechanical side

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	3
2	JE/M	L6	1
3	Sr Tech/M	L6	3
4	Tech-I/M	L5	9
5	Tech-II/M	L4	14
6	Tech-III/M	L3	02
7	Helper	L1	03
		Total	35

8. Electrical Heavy schedule section:

Activities: Major schedule maintenance and repair of loco from Electrical side

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	2
2	JE/E	L6	1
3	Sr Tech/E	L6	5
4	Tech-I/E	L5	8
5	Tech-II/E	L4	12
6	Tech-III/E	L3	03
7	Helper	L1	04
		Total	35

9. Mechanical running section :

Activities: Minor schedule maintenance of loco in shift (Mechanical work)

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	4
2	JE/M	L6	4
3	Sr Tech/M	L6	12
4	Tech-I/M	L5	13
5	Tech-II/M	L4	4
6	Tech-III/M	L3	6
7	Helper	L1	4
		Total	47

10. Electrical running section :

Activities: Minor schedule maintenance of loco in shift (Electrical work)

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	4
2	JE/E	L6	2
3	Sr Tech/E	L6	10
4	Tech-I/E	L5	02
5	Tech-II/E	L4	07
6	Tech-III/E	L3	04
7	Helper	L1	06
		Total	35

11 Speedo meter section :

Activities: Maintenance & O/H of Speedo meter of loco. Download memory card of recorder of S/Meter and analyze loco failure.

SN	Category	Payband/Level	On Roll
1	JE/M	L6	1

2	Sr Tech/M	L6	3
3	Sr Tech/E	L6	1
4	Tech/I/M	L5	1
5	Tech/I/E	L5	1
6	Tech/III/M	L3	2
		Total	9

12. Statistical cell

Activities: Nos. of loco failure analysis, performance of loco, out turn etc

SN	Category	Payband/Level	On Roll
1	JE/M	L6	1
2	Sr Tech/E	L6	1
3	Tech/I/M	L5	1
4	Tech/II/M	L4	2
		Total	5

13. Laboratory :

Activities: Testing of lube oil, fuel oil, rubber gasket, Ultra sonic of axle, non destructive testing of loco component, cooling water, spectrographic testing of lube oil etc

SN	Category	Payband/Level	Grade pay	On Roll
1	CMS	L7	4800	4
2	CMS	L7	4600	1
3	CMA	L7	4800	1
4	CMA	L6	4200	1
5	Lab Attd	L1	2000	1
6	Lab Attd	L1	1900	1
7	Lab Attd	L1	1800	1
8	Tech/III/M	L1	1900	2
9	Helper	L1	1900	1
			Total	13

14. Expresser section

Activities: Testing & overhauling of air compressor & maintaining major/minor schedule of loco

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	2
3	Sr Tech/M	L6	4
4	Tech-I/M	L5	2
5	Tech-II/M	L4	4
6	Tech-III/M	L3	2
7	Helper	L1	2
		Total	16

15. Fuel injection pump & Governor section :

Activities: Testing & overhauling of FIP, Nozzle, HP tube, Governor, Fuel Booster pump etc

SN	Category	Payband/Level	On Roll
1	JE/M	L6	1
2	Tech/I/M	L5	1
3	Tech/II/M	L4	1
4	Tech/III/M	L3	2
5	Helper	L1	1
		Total	6

16. Mechanical Test section :

Activities: Testing & overhauling of various small pumps of loco viz. water pump, lube oil pump, rear/front track, traction motor blower, FIP support etc.

SN	Category	Payband/Level	On Roll
1	Sr Tech/M	L6	2
2	Tech/I/M	L5	1
3	Tech/II/M	L4	4
4	Tech/III/M	L3	1
5	Helper	L1	1
		Total	9

17. Cylinder head & Turbo Super Charger section :

Activities : Cylinder head, turbo super charger, after cooler, lube oil, schedule maintenance & overhauling. Failure attention of various loco parts under this section

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	Sr Tech/M	L6	5
3	Tech/I/M	L5	2
4	Tech/II/M	L4	1
5	Tech/III/M	L3	3
6	Helper	L1	1
		Total	13

18. Electrical Test Room :

Activities: Testing & overhauling of converter, flasher lights, pressure switch, engine control sw. load metre, sensor, load water switch etc.

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	Sr Tech/E	L6	1
3	Tech/II/E	L4	1
		Total	3

19. Electrical Component section :

Activities : Testing & overhauling of power contactor, Reverser, BKT (Braking contactor), Master controller, CK-1, CK-2, CK-3 (Cranking contactor), General field contactor , Field shunt contactor, Resistance, field control panel, Fuel pump contactor (FPC) etc

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	Sr Tech/E	L6	1
3	Tech-I/E	L5	1
4	Tech-II/E	L4	1
5	Tech-III/E	L3	2
6	Helper	L1	1
		Total	7

20. Small Motor Section

Activities: Loco small motor Viz. fuel pump, crank case ,DEBM motor overhauling & maintenance.

SN	Category	Payband/Level	On Roll
1	Sr Tech/E	L6	1
2	Tech-I/E	L5	1
3	Tech-II/E	L4	1
4	Tech-III/E	L3	1
		Total	4

21. Battery Section :

Activities: Maintenance of battery for secondary cells. Preparation of electrolyte, checking of Specific gravity, Checking voltage and ampere etc

SN	Category	Payband/Level	On Roll
1	Sr Tech/E	L6	1
2	Tech-III/E	L3	5
3	Helper	L`1	1
		Total	7

22. Ancillary section :

Activities :Maint. Overhauling & repairing of ancillary equipments of locos

SN	Category	Payband/Level	On Roll
1	JE/M	L6	2
2	Sr Tech/M	L6	7
3	Tech/I/M	L5	5
4	Tech/II/M	L4	7
5	Tech/III/M	L3	5
6	Helper	L1	3
7	S/Cleaner	L1	2
		Total	31

23. SSE/Diesel/Office

Activities: Preparation of muster roll of entire D/shed, leave record, sick, pass-PTO issue of Diesel shed worker

SN	Category	Payband/Level	On Roll
1	SSE/M	L7	1
2	SSE/E	L7	1
3	Ch OS	L7	2
4	OS	L6	3
		Total	7

24. General Section 1:

Activities :Dealing with all administrative work related to confidential work, loco monitoring ,loco inspection etc

SN	Category	Payband/Level	On Roll
1	Ch OS	L7	4
2	OS	L6	4
3	E/Peon	L1	1
		Total	9

25. General Section 2:

Activities :Dealing with all administrative work related to confidential work, loco monitoring ,loco inspection etc

SN	Category	Payband/Level	On Roll
1	ConfdAsst	L7	1
2	CLI	L7	2
3	MV Driver	L6	1
4	MV driver	L1	1
		Total	5

26. Material Inspector Cell :

Activities: Procurement of non stock&imprest material, preparation of indent of BHEL, MICO , DMW Patiala & IRSP items

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	SSE/Drg	L7	1
3	JE/M	L6	3
4	OS	L6	2
5	Tech-II/M	L4	1
6	Tech-II/E	L4	1
7	Tech-III/M	L3	2
8	Tech-III/E	L3	1
9	Helper	L1	3
		Total	15

27 .Establishment:

Activities: Regular establishment work Viz. salary, settlement, leave, and pass, PTOs etc

SN	Category	Payband/Level	On Roll
1	OS	L6	3
2	Jr Clerk	L3	1
		Total	4

28. SSE/Store

Activities: To feed entire store for Diesel loco maintenance of this shed

SN	Category	Payband/Level	On Roll
1	Ch OS	L7	1
2	OS	L6	3
3	Helper	L1	2
4	S/Cleaner	L1	1
		Total	7

29. LRMS

Activities: Monitoring on line loco activity through computer

SN	Category	Payband/Level	On Roll
1	Sr Tech/E	L6	1
2	Tech/II/E	L4	2
		Total	3

30. Rotating Equipment section:

- Traction motor
- Alternator
- Auxiliary exciter generator
- Dynamic braking blower motor
- Eddy current clutch

Activities: Overhauling maintenance of the above vide schedule, non schedule checking, fault finding & failure attention.

SN	Category	Payband/Level	On Roll
1	SSE/E	L7	1
2	JE/E	L6	1
3	Sr Tech/E	L6	3
4	Tech/I/E	L5	1
5	Tech/II/E	L4	4
6	Tech/III/E	L3	3
7	Tech-II/Ancl	L3	1
8	Tech-III/Ancl	L3	2
		Total	16

31. LP/Shunter

Activities: To move the loco from Diesel shed.

SN	Category	Payband/Level	On Roll
1	LP/Shunter	L6	2
		Total	2

➤ **Safety Category Vacancy Position of MLDT./ Diesel Shed is furnished below:**

S N	CATEGORY	SCALE	SANCTION	ON ROLL	VACANCY	PROPOSED BOS	PROPOSED SURPLUS
1	Sr.SE/D/Mech	09300-34800/-L7	20	15	05	20	0
2	JE/D/Mech	09300-34800/-L6	09	16	(-)07	09	0
3	Sr.SE/D/E	09300-34800/-L7	11	11	0	11	0
4	SSE/Drg	09300-34800/-L7	01	01	0	01	0
5	JE/D/E	09300-34800/-L6	04	04	0	04	0
6	Sr.LI	09300-34800/-L7	03	02	01	03	0
7	LP/Shunter	09300-34800/-L6	10	02	08	06	04
8	Sr.Tech/D/M	09300-34800/-L6	44	41	03	44	0
9	Tech. Gr I / M	05200-20200/-L5	87	38	49	82	05
10	Tech. Gr II / M	05200-20200/-L4	14	46	(-)32	14	0
11	Tech. Gr III / M	05200-20200/-L3	26	35	(-) 09	26	0
12	Sr.Tech/D/E	09300-34800/-L6	25	25	0	25	0
13	Tech. Gr I / E	05200-20200/-L5	49	14	35	44	05
14	Tech. Gr II / E	05200-20200/-L4	08	29	(-)21	08	0
16	Tech. Gr III / E	05200-20200/-L3	14	20	(-)06	14	0
17	Sr.Tech/M/Ancl.	09300-34800/-L6	09	07	02	09	0
18	Tech.GrI/M/Ancl.	09300-34800/-L6	18	05	13	13	05
19	Tech.GrII/ M/Ancl.	05200-20200/-L5	02	07	(-) 05	02	0
20	Tech.GrIII / M/Ancl.	05200-20200/-L4	03	05	(-)02	03	0

21	Tech.GrII/ E/Ancl.	05200-20200/- L4	01	01	0	01	0
22	Tech.GrIII / E/Ancl.	05200-20200/- L3	0	02	(-)02	0	0
23	Helper	05200-20200/- L1	53	38	15	47	06
			411	364	47	386	25

**Non-Safety Category Vacancy Position of MLDT./ Diesel Shed is
furnished below**

S N	CATEGORY	SCALE	SANC TION	ON ROLL	VACA NCY	PROPO SED BOS	PROPO SED SURPL US
1	CMS	09300-34800/- L7	06	05	01	06	0
2	CMA	09300-34800/- L7	04	02	02	04	0
3	SrInst/M	09300-34800/- L9	01	01	0	01	0
4	SrInst/E	09300-34800/- L9	01	01	0	01	0
5	Lab.Attendant.	05200-20200/- L1	04	03	01	04	0
6	CHIEF OS/G	09300-34800/- L-7	06	07	(-)01	06	0
7	OS/(G)	09300-34800/- L-6	09	12	(-)03	09	0
8	OS/(E)	09300-34800/- L-6	05	05	0	05	0
9	JR. CLERK(E)	05200-20200/- L-2	01	01	0	01	0
10	Steno	05200-20200/- L-5	01	01	0	01	0
11	E/Peon	05200-20200/- L-1	01	01	0	01	0
12	M/DRIVER,GR- II	05200-20200/- L-4	03	02	01	02	01
13	S.Cleaner	05200-20200/- L-1	01	03	(-) 02	01	0
			43	44	(-)01	42	01

CHAPTER-IV

4.0

PROPOSED & SURPLUS STAFF

As discussed in critical analysis in para-3 of Chapter- III, the proposed strength and proposed surplus staff of various categories are tabulated below:

SUMMARISED STRENGTH OF MLDT GENERAL/STORE WITH ON ROLL & PROPOSED SURRENDER

➤ **BOS, On Roll & Vacancy Position at Sr DME/D/MLDT is furnished below:**

SN	CATEGORY	SCALE	Level	SAN CTIO N	ON ROL L	VACA NCY	Proposed BOS	Proposed Surplus
1	LP/Shunter	09300-34800/-	L6	10	02	08	06	04
2	Tech. Gr I / M	05200-20200/-	L5	87	38	49	82	05
3	Tech. Gr I / E	05200-20200/-	L5	49	14	35	44	05
4	Tech.GrI/M/ Ancl.	09300-34800/-	L6	18	05	13	13	05
5	Helper	05200-20200/-	L1	53	38	15	47	06
6	M/DRIVER GR-II	05200-20200/-	L4	03	02	01	02	01
			Total					26

CHAPTER-V

5.0 RECOMMENDATION:

After critical examination of the workload and activities out of 82 **vacant posts** total **26Nos of posts** (Viz. 04Nos Posts LP Shunter category, 05NosTech/I/M/Category, 05Nosof Tech/I/E/ category, 05Nosof Tech/I/M/Ancl category, Helper, 06Nos&01 No.M/Driver) under Sr. DME/D/MLDT are surplus, which may be surrendered and the BOS may be corrected accordingly.

CHAPTER-VI

6.0 EXPENDITURE / FINANCIAL SAVINGS PER ANNUM

The expenditure involved in surplus posts per annum is as follows-

SN	SCALE (In Rs)	Level	Pay as per 7 th CPC	Category	No. of Posts surplus	Expenditure per month as Salary in Rs	Total Expenditure incurred per annum due to staff salary in Rs
1	9300-34800	L-6	39648/-	LP Shunter	04	39648X4=158592/-	19,03,104/-
2	5200-20200	L-5	32704/-	Tech-I/M	05	32704/X5=163520/-	19,62,240/-
3	5200-20200	L-5	32704/-	Tech-I/E	05	32704/X5=163520/-	19,62,240/-
4	5200-20200	L-5	32704/-	Tech-I/M/Ancl	05	32704/X5=163520/-	19,62,240/-
5	5200-20200	L-1	20160/-	Helper	06	20160/- X 6=120960/-	14,51,520/-
6	5200-20200	L-4	28560/-	MV Driver	01	28560/-	3,42,720/-
Total					26		95,84,064/-

Total surplus = 26 posts
Projected Recurring saving / annum =Rs. 95.84 lakhs.

CHAPTER – VII

7.0

READY RECKONER

SCALE (In Rs)	Level	Pay as per 7 th CPC (In Rs)	DA (12 %) (In Rs)	Total Salary PM (In Rs)
5200-20200	L1	18000/-	2160/-	20160/-
5200-20200	L4	25500/-	3060/-	28560/-
9300-34800	L5	29200/-	3504/-	32704/-
9300-34800	L-6	35400/-	4248/-	39648/-
