

EAST CENTRAL RAILWAY

WORK STUDY REPORT

To assess the utility of Mason, Painter, Plumber, Carpenter & chowkidar of Engg. Department of Samastipur Division

EFFICIENCY CELL EAST CENTRAL RAILWAY HAJIPUR

STUDY NO. ECR/EFF./WSR/SPJ/20-21/04

REVIEW

OF

STAFF STRENGTH

OF

MASON, PAINTER, PLUMBER, CARPENTER & CHOWKIDAR OF ENGINEERING DEPARTMENT

WORKING

AT

SAMASTIPUR DIVISION

(ECR/Effi/WSR/SPJ/20-21/04)

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WORK-STUDY CELL

East Central Railway

HAJIPUR

EXECUTIVE SUMMARY

Study No.	(ECR/Effi/WSR/SPJ/20-21/04)				
Subject	REVIEW OF STAFF STRENGTH OF MASON, PAINTER, PLUMBER, CARPENTER & CHOWKIDAR OF ENGINEERING DEPARTMENT WORKING AT SAMASTIPUR DIVISION.				
Area	SAMASTIPUR				
Division	SPJ				
Department	ENGINEERING .				
Terms of Reference	Assessment of Man Power requirement				
Total No. of Recommendations	01				
No. of posts recommended for surrender	10				
Financial Implication	76.62 Lakh				
Month of Circulation	AUGUST 2020				

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TERMS OF REFERENCE

The study has been conducted under the following terms of references:

- a) To review staff strength vis-à-vis workload of Engineering Department of Samastipur Division with a view to identify the surplus manpower in different section.
- b) To assess the effective utilization of Mason, Painter, Plumber, Carpenter & Chowkidar working in Engineering Department of Samastipur Division.
- c) To suggest ways and means to improve working of Mason, Painter, Plumber, Carpenter & Chowkidar in Engineering Department of Samastipur Division.

METHODOLOGY ADOPTED

The following techniques have been applied to conduct the study:-

- Data collection and its critical analysis to arrive on factual status of present working.
- ii) Reassessment of manpower requirement by applying on need base.
- iii) Discussion with Sr.DEN(Co-ord)/SPJ
- iv) Discussion with ADEN/SPJ, ADEN Land/SPJ, AEN I&II DBG, AEN/NKE, AEN /BMKI & AEN/SHC.
- v) Discussion with SSE/P.Way & SSE(W) of SPJ Division.

SYNOPSIS

examely and an example for the process of the control of the cont

- In Railways, the process of absorption of modernization has been started and still in progress in every sphere of system. These technological up gradations have shown considerable improvement in the efficiency and manpower productivity in Railways.
- 2. Keeping in view, all these constraints, the Work Study Cell was assigned to conduct work study of staff strength of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division with a view to assess the staff requirement as per the existing workload.
- 3. Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department also plays a vital role in Indian Railways and leads in performance of any Zonal Railway. At present 87 men are working against Sanction Strength 130 in Engineering Department of Samastipur Division as on Sr.DEN(Coord) letter no- WE/283/BOS-III/2020-21/W-6/89 dt. 18.08.2020

Chapter-I

TO THE WASTER BUILDINGS TO A STATE OF THE WASTER AS A

INTRODUCTION

Benchmarking is a continuous process of comparing different units and identifying which one is the best in the business and then learning how this excellence was achieved and setting out to improve the efficiency of those units, which were behind. If this concept is implemented it will result large reduction in the cost and make significant contribution in improving the efficiency of various divisions of Railways, but Samastipur Division has not infrastructure developed than other Division of Indian railway. Hence, reassessments of man power on need base is done.

Mason work, Painting work, Plumbing work, Carpentry work & Chowkidary are done by Mason, Painter, Plumber, Carpenter & chowkidar of Engg. Department of Samastipur Division. Mason, Painter, Plumber, Carpenter & Chowkidar are under control of Sr.DEN(Co-ord) and assisted by Sr.DEN, DEN, AEN and other staff. At present overall 87 Mason, Painter, Plumber, Carpenter & chowkidar are working against the Sanction Strength 130 in Engineering Department of Samastipur Division.

The working culture of Mason, Painter, Plumber, Carpenter & chowkidar are different, the bench marking norm is difficult for calculation of staff. The work study team observed that need base is best option for calculation of staff. Competent Authority has approved a Work Study on "Review of staff strength of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division.

CHAPTER-II

2.1 Work Load: - Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division is divided into the following sections with the job entrusted to:-

Sl.No.	P.Way Section
01	SSE/ P.Way /SPJ
02	SSE/ P.Way /DBG
03	SSE/ P.Way /BMKI
04	SSE/ P.Way /SHC
05	SSE/ P.Way /KGG at SHC
06	SSE/ P.Way /E/NKE
07	SSE/ P.Way /W/NKE
08	SSE/ P.Way /RXL
09	SSE/ P.Way /JNR
10	SSE/P.Way/JJP
11	SSE/P.Way/SKI
12	SSE/P.Way/SGL
13	SSE/P.Way/HPO
14	SSE/P.Way/TD/SPJ
15	SSE/P.Way/BNKI
16	SSE/P.Way/RGV
	WORKS Section
01	SSE/W/South SPJ
02	SSE/W/North / SPJ
03	SSE/W/Line
04	SSE/WS/SPJ
05	SSE/W/BNKI
06	SSE/W/RGV
07	SSE/W/SHC

08	SSE/W/DBG	
09	SSE/W/MBI	
10	SSE/W/JJP	
11	SSE/W/RXL	
12	SSE/W/NKE	
13	SSE/W/BMKI	
14	SSE/W/SGL	
15	SSE/BRI/SPJ	

DRM &ADEN office	
DRM office	
ATEN /SPJ	
ADEN/SPJ	
ADEN/I/DBG	
ADEN/II/DBG	
ADEN/BMKI	
ADEN/NKE	
ADEN/SHC	
	ATEN /SPJ ADEN/SPJ ADEN/I/DBG ADEN/II/DBG ADEN/BMKI ADEN/NKE

- 2.2 Duties of Mason-: A large number of Building office stations are repaired by Mason.
- 2.3 Duties of Painter-: A large number of equipments are paint by painter.
- 2.4 Duties of Plumber-: A large number of pipe fitting work are dune by plumber.
- 2.5 Duties of Carpenter-: A large number of repairing of doors and windows of quarters and office are dune by carpenter.
- 2.6 Duties of Chowkidar-: A large number of equipment items, assets of railway has been kept in store of P.WAY, IOW & BRI units and office of DRM & ADEN/ATEN. Chowkidar is utilized for look after of store.

CHAPTER-III

- 2.0.0 CRITICAL ANALYSIS, REQUIREMENT OF STAFF VIS-À-VIS WORK LOAD AND RECOMMENDATIONS:
- 2.1.0 Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division is working under control of Sr. DEN(Coord)/SPJ. To arrive at a factual conclusion on requirement of Mason, Painter, Plumber, Carpenter & Chowkidar in Engineering Department of Samastipur Division, the work study team collected workload of all activities. For calculation of manpower required, the team applied on spot observations and discussions at various levels and applied on need base.

Since manpower is the biggest component of the expenditure of Indian Railway, rightsizing of manpower to reduce unit costs is an effective way to increase efficiency of Indian Railway.

There is no specific yardstick for measuring workload of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering department of Samastipur division. It is very difficult to assess the efficiency of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering department of Samastipur Division, different sections are established in different important station.

2.2.1 Staff cadre in Division:-

SI NO	Category	Scale	Grade pay	SS	Men on Roll	Vacancy
1.	Mason (MCM)	9300-34800	4200	05	01	04
2.	Mason (Gr.I)	5200-20200	2800	09	01	08
3.	Mason (Gr.II)	5200-20200	2400	01	04	+3
4.	Mason (Gr.III)	5200-20200	1900	03	01	02
5.	Painter (MCM)	9300-34800	4200	07	04	03
6.	Painter (Gr.I)	5200-20200	2800	13	00	13
7.	Painter (Gr.II)	5200-20200	2400	02	04	+2
8.	Painter (Gr.III)	5200-20200	1900	03	03	00
9	Plumber (MCM)	9300-34800	4200	02	00	02
10.	Plumber (Gr.I)	5200-20200	2800	01	00	01
11.	Plumber (Gr.II)	5200-20200	2400	00	01	+1
12.	Plumber (Gr.III)	5200-20200	1900	01	00	01
13.	Carpenter (MCM)	9300-34800	4200	05	05	00
14.	Carpenter (Gr.I)	5200-20200	2800	13	00	13
15.	Carpenter (Gr.II)	5200-20200	2400	02	05	+3
16.	Carpenter (Gr.III)	5200-20200	1900	05	02	03
17.	Chowkidar	5200-20200	1800	58	56	02

CHAPTER IV

實施。1967年8日上午18日,60年日月19日,才介,1950年19日,年春,40年18日,1867年11日第1日第1日第1日第1日 1867年11日 1867年11日 1867年11日 1867年11日 1867年1

RECOMMENDATION

As there is no yardstick for calculation of Mason, Painter, Plumber, Carpenter & Chowkidar, the work study team has made its assessment of staff on the need base, it is observed that at present 10 posts of Mason, Painter, Plumber, Carpenter & Chowkidar is excess than requirement.

Total Sanction Strength = 130

Total Men on Roll = 87

Total Vacant post =43

Total Staff required =120

Excees post =130-120=10 Staff

After going through the requirement of Mason, Painter, Plumber, Carpenter & Chowkidar, the work study team observed that the 10 posts of Mason, Painter, Plumber, Carpenter & Chowkidar may be recommended for surrender and financial saving will be 76.62 Lac per annum. The work is going on without any hindrance.

CHAPTER - V

FINANCIAL SAVINGS:-

If the recommendation of the study report is implemented, the annual recurring financial savings will be as under:

SL. No.	Category	Scale of pay (Rs.)	Grad e pay	Level	No. of	Mean pay per	Annual financial
					pos	year per	savings in
					t	staff	Lacs (Rs.)
			ļ			(Rs.)	, ,
1.	Mason	19900-63200	1900	02	01	583368	583368
2.	Painter	29200-92300	2800	05	03	852936	2558808
3.	Plumber	19900-63200	1900	02	01	583368	583368
4.	Carpenter	29200-92300	2800	05	04	852936	3411744
5.	Chowkidar	5200-20200	1800	01	01	525804	525804
	Total		-		10		7662092i.e. 76.62 lacs

CHAPTER VI

Summary:-

After critically examining the work load of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division, the work study team proposes as below:-

S.No.	Designation	BOS	Requirement as per WS	Proposed surrender	Remark
01	Mason	18	17	01	01 vacant post may be Surrendered.
02	Painter	25	22	03	03 vacant posts may be Surrendered
03	Plumber	04	03	01	01 vacant post may be Surrendered
04	Carpenter	25	21	04	04 vacant posts may be Surrendered
05	Chowkidar	58	57	01	01 vacant post may be Surrendered
Total		130	120	10	

Annexure -I

Staff position of Mason, Painter, Plumber, Carpenter & Chowkidar of Engineering Department of Samastipur Division as on 18.08.2020

SI	Category	Scale	Grade	SS	Men	Vacancy
NO	0.		pay		on	
•			\$4. VOS		Roll	
l.	Mason (MCM)	9300-34800	4200	05	01	04
2.	Mason (Gr.I)	5200-20200	2800	09	01	08
3.	Mason (Gr.II)	5200-20200	2400	01	04	+3
4.	Mason (Gr.III)	5200-20200	1900	03	01	02
5.	Painter (MCM)	9300-34800	4200	07	04	03
6.	Painter (Gr.I)	5200-20200	2800	13	00	13
7.	Painter (Gr.II)	5200-20200	2400	02	04	+2
8.	Painter (Gr.III)	5200-20200	1900	03	03	00
9.	Plumber (MCM)	9300-34800	4200	02	00	02
10.	Plumber (Gr.I)	5200-20200	2800	01	00	01
11.	Plumber (Gr.II)	5200-20200	2400	00	01	+1
12.	Plumber (Gr.III)	5200-20200	1900	01	00	01
13.	Carpenter (MCM)	9300-34800	4200	05	05	00
14.	Carpenter (Gr.I)	5200-20200	2800	13	00	13
15.	Carpenter (Gr.II)	5200-20200	2400	02	05	+3
16.	Carpenter (Gr.III)	5200-20200	1900	05	02	03
17.	Chowkidar	5200-20200	1800	58	56	02