

NORTH EAST FRONTIER RAILWAY

WORK STUDY REPORT ON

REVIEW OF STAFF STRENGTH OF ENGINEERING(WORKS) DEPARTMENT AT APDJ UNDER Sr.DEN/C/APDJ OF ALIPURDUAR DIVISION.

GUIDED BY : SHRI R.K.MANGLA, SDGM.

: SHRI L.R.WARY, E.O.

CONDUCTED BY : SHRI ACHINTA BARUAH. WSI/MLG

: SHRI B.R.GHOSE DASTIDER. WSI/MLG

STUDY NO. : WSNF/77 /2018-19

CASE NO. : Z/375/10/77/18-19

AUTHORITY : SDGM.

CENTRAL PLANNING ORGANISATION

MALIGAON: GUWAHATI: 781011

NORTHEAST FRONTIER RAILWAY

WORK STUDY REPORT

ON REVIEW OF STAFF STRENGTH OF ENGINEERING(WORKS) DEPARTMENT AT APDJ UNDER Sr.DEN/C/APDJ OF ALIPURDUAR DIVISÏON

CO-ORDINATING OFFICERS & PERSONNEL

BRANCH OFFICER- SHRI YOGESH VERMA, SR.DEN/C/APDJ

ASSOCIATED OFFICER- SHRIMATI MAHUA PAUL, ADEN/II/NCB

ASSOCIATED INSPECTOR- SHRI B.M.ROY, SSE/W/COB

CONDUCTED BY:

SHRI ACHINTA BARUAH, WSI.

SHRI B. R. GHOSE DASTIDAR, WSI.

STUDY NO. WSNF/77 /2018-19

CASE NO. Z/375/10/77/2018-19

CENTRAL PLANNING ORGANISATION

N. F. RAILWAY/MALIGAON

GUWAHATI - 781011.

EXECUTIVE SUMMARY

SUBJECT: Work Study on "Review of staff strength of engineering(works) department at APDJ under Sr.DEN/C/APDJ of Alipurduar Division."

STUDY NO : WSNF/77 /18-19

CASE NO : Z/375/10/77/18-19

AUTHORITY: SDGM

CONCERN DIV. : ALIPURDUAR

DEPARTMENT : ENGINEERING

DATE OF COMMENCEMENT: 17.12.2018

DATE OF COMPLETION: 08.01.2019

DATE OF SUBMISSION: 17.01.2019

TERMS OF REFERENCE:

Review of staff strength of Engineering Department (Works) at APDJ Division under Sr.DEN/C/APDJ.

NOS. OF RECOMMENDATION: 1 (One).

The work study team, had identified that total 26 posts (Tech Carpenter- 04,Tech Fitter -06, Tech Mason – 06, Khalasihelper (M) - 09 & S/Cleaner -01,= 26) surplus and proposed that those posts may be surrender and deleted from the BOS of Engineering Department of APDJ Division

• PROJECTED MAN POWER: 26 Posts

• PROJECTED FINANCIAL SAVING: Rs. 121.20 Lakh per annum.

• MONTH AND YEAR OF CIRCULATION: JANUARY/ 2019

INDEX

	11/221				
Chapter	Chapter Contents				
I	Introduction	5			
п	Activities and work load	6-8			
ш	Critical analysis of staff requirements.	9-10			
IV	Recommendation.				
		11			
V	Financial implication.				
VI	Ready Reckoner	12			

CHAPTER - I

INTRODUCTION

1.0. INTRODUCTION:

The Railway administration has to make the best use of its resources including manpower keeping them at the optimum level to attain the financial viability. Taking into consideration to these objectives, the Railway Board has emphasized to take up review on staff strength of various departments in the Railway. In pursuance with this policy of Railway Board the Central Planning Organization has conducted this work-study on requirements of Engineering Staff of APDJ Division.

2.0

ACKNOWLEDEMENT:

Work study team is grateful to Shri Yogesh Verma, Sr DEN/C/APDJ and M.Paul ADEN/II/NCB for their kind guidance and co-operation for conducting this study.

The work study team is also thankful to for their assistance rendered to the Work Study team for conducting the subject study.

3.0. 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 (out put / input) either by improving the output (numerator) or by decreasing the input (denominator).
- Multi-skilling of existing Staff and combining various activities.
- Up gradation / introduction of automation / Innovations.
- Outsourcing of non core activity.
- Availability of better process/ technology.
- Reducing/ removing redundancy in work.

4.0. TERMS OF REFERENCE:

Annual programme of work study approved by SDGM/NFR

5.0. METHODOLOGY:

a) Discussion with ADEN/APDJ & SSE/Works/APDJ

During field work, discussion was done regarding present work load of Engineering staff in the category of Khalashi , B/smith, Mason, Carpenter and Fitter . Review of staff strength with respect to present workload. Discussion also done regarding modernisation of equipment as well as engagement of out agencies against the rightsizing of man power. In connection with this study, the Associated officers, Sri Mahua Paul ADEN/II/APDJ and Sri B.M.Roy SSE/W/COB the concerned Inspectors nominated by Sr.DEN/C/APDJ (enclosed as **Annex-I**).

b) Collection of data relating to workload

After discussion, the relevant data regarding present work load and staff position was obtained from concerned unit in-charge and other data regarding sanctioned strength, etc was gathered personal branch of engineering department, on the basis data obtained assessment of work load is done in the study report.

CHAPTER - II

SUMMARY OF WORKLOAD

- 2.0 They performs duty of both office and field. The works are broadly classified as follows:
 - a) Executive works.
 - b) Store works.
 - c) Establishment work
 - d) Industrial Relation & staff welfare etc.
- 2.1 The normal duty performed by SSE/Works are:
 - a) Inspection and maintenance of service buildings, staff Quarter, FOB & drainage system regularly.
 - b) Account, procurement and periodical verification of stores & tools required for regular revenue maintenance.
 - Maintenance of land boundaries of Railway as specified in Engineering code/Manual.
 - d) Execution of new /sanctioned works including Zonal works.
 - e) Measurement and bill pertaining to works including correspondence if any.

SUMMARY OF WORKLOAD

They performs duty of both office and field. The works are broadly classified as follows:

Executive works.

Store works.

Establishment work

Industrial Relation & staff welfare etc.

- 2.2 The normal duty performed by SSE/Works are:
- a) Inspection and maintenance of service buildings, staff Quarter, FOB & drainage system regularly.
- b) Account, procurement and periodical verification of stores & tools required for regular revenue maintenance.
- c) Maintenance of land boundaries of Railway as specified in Engineering code/Manual.
- d) Execution of new /sanctioned works including Zonal works.

Measurement and bill pertaining to works including correspondence if any.

2.3. WORK LOAD OF SSE/W-I/APDJ

1.RESIDENTIAL OUARTER

TYPE OF QUARTER	TOTAL NUMBER OF QUARTER
TYPE-I	137
TYPE-I (spl)	257
TYPE-II	1440
TYPE-III	80
TYPE-IV	NIL
TYPE-V	NIL
TOTAL	1910

Total plinth area of residential building/Qrs. 95000 sq.m.

- 2. SERVICE BUILDING (Office Building)
- a) List of service building under SSE. Works/
 - i)DRM Building ii) Microwave Building iii) Data Centre iv) Statistical Cell v) CHI Office
 - vi) Rly H.S.Schoolvii) Rly Institute viii) Rly Hospital ix) Electric ffice x) Electric sub station -4
 - xi) NFRWWO xii) Filter House xiii) Valve man Room xiv) Transit Hostel, xv) RPF Barrack(old)
 - xvi) RPF Barrack (2 Nos) xvii) Indoor Stadium

Total plinth area of service building/Office building 32,400 sq.m

OTHER WORKS LOAD

- i) ROAD =32,000 RM.
- ii) DRAIN MAJOR =37,500 RM and MINOR= NIL
- iii) BRIDGE-MAJOR = NIL and
- iv) MINOR==NIL
- v) LEVEL CROSSING =MANNED NIL

= UN-MANNED NIL

vi) PIPE LINE =32,000 RM.

3. FILTER PLANT

STATION	NUMBER	TYPE OF FILTER	CAPACITY
APDJ	01	Rapid sand filter	227000 lit/hour

4. DETAILS OF WORK LOAD FOR THE PERIOD FROM APRIL'14 TO

MAR'2015

Nature of works	Number of complaint				
	Received complied				
Leak proof	7300	4850			
Door changed	4300	780			
Masonry	4520	278			
Carpentry	3900	340			

5. WATER SUPPLY

Station	Tap water	Raw water	No of tube well	No of Deep tube well
APDJ	1910 nos.of Qtrs & Service Building	NIL	4 Nos	One at Hospital Chowpati

- 6. No of trolley NIL
- 7. No of Rest House NIL
- 8. RUB (Road Under Bridge) NIL
- 9. FOB (Foot Over Bridge) NIL
- 10. Retiring Room- NIL
- 11. No of Go down: 14 Nos(8+6-Group) at SSE(W)/I/APDJ.

2.2. Activities and Work load of Carpenter, Fitter, Mason and Khalasi,

Work load of Tech.Carpenter:

This category is engaged for Carpentry work as well as repairing of doors, windows and other wooden structures of buildings of Railway and Railway colonies. Presently these works are accomplished by engaging the contractor/agency.

• Work load of Fitter:

This category is employed to look after the plumbing, water pipeline repairing jointing work etc. of Railway premises and colonies and maintain the water line network trouble free in day to day working. Presently these works are accomplished by engaging the contractor/agency and these fitter categories are employed to keep vigil and monitor the same as and when it is required.

• Work load of S/Mason:

This category is engaged for masonry work of safety tanks, repairing the safety tanks, sewage lines of Railway buildings and premises. Presently these works are accomplished by the contractor/agency engaged.

Work load of Khalashi

Khalashi/ Kh helpers are entrusted to assist the artisan staff and other duties as directed by supervisors. Due to engagement of contractor/out-agencies for execution of works, the work load of Khalashi/ Kh helpers is reduced drastically.

DISTRIBUTION OF STAFF UNDER SR DEN/C/APDJ OF ALIPUDUAR DIVISION

SN	Station	Category	Pay band	Grade pay	BOS	On Roll strength	Vac
1	SSE/W-I/APDJ	Tech Carpenter.	Floating	-	6	2	4
		Tech Fitter.	Floating	-	7	1	6
		Tech Mason.	Floating	-	3	0	3
		Khalasi	5200-20200	1800	1	1	0
		Khalasi Helper (M)	5200-20200	1800	21	20	1
		Khalasi Helper (FP)	5200-20200	1800	4	3	1
2	SSE/W-II/APDJ	Tech Carpenter.	Floating	-	9	8	1
		Tech Painter.	Floating	-	1	1	0
		Tech Fitter.	Floating	-	6	5	1
		Tech Mason.	Floating	-	4	3	1
		Khalasi Helper (M)	5200-20200	1800	14	12	2
3	SSE/W/COB	Tech Carpenter.	Floating	-	4	4	0
		Tech Fitter.	Floating	-	2	1	1
		Tech Mason.	Floating	-	2	1	1
		Khalasi Helper (M)	5200-20200	1800	6	4	2
4	SSE/W/FKM	Tech Carpenter.	Floating	-	5	3	2
		Tech Painter.	Floating	-	1	0	1
		Tech Fitter.	Floating	-	5	3	2
		Tech Mason.	Floating	_	2	2	0
		Khalasi Helper (M)	5200-20200	1800	9	8	1
		Khalasi Helper (FP)	5200-20200	1800	2	2	0
5	SSE/W/DTX	Tech Carpenter.	Floating	-	4	3	1
		Tech Fitter.	Floating	-	3	1	2
		Tech Mason.	Floating	-	2	2	0
		Khalasi Helper (M)	5200-20200	1800	14	10	4
6	SSE/W/FLK	Tech Carpenter.	Floating	-	2	2	0
		Tech Fitter.	Floating	-	3	3	0
		Khalasi Helper (M)	5200-20200	1800	2	1	1
6	SSE/W/NMX	Tech Carpenter.	Floating	-	2	1	1
		Tech Fitter.	Floating	-	1	1	0
		Tech Mason.	Floating	-	1	1	0
		Khalasi Helper (M)	5200-20200	1800	3	2	1
7	SSE/W/NOQ	Tech Carpenter.	Floating	-	1	1	0
		Tech Fitter.	Floating	-	1	1	0
		Tech Mason.	Floating	-	1	1	0
		Khalasi Helper (M)	5200-20200	1800	9	8	1
8	SSE/W/MBZ	Tech Carpenter.	Floating	-	3	3	0
		Tech Painter.	Floating	-	1	1	0
		Tech Fitter.	Floating	-	3	2	1
		Tech Mason.	Floating	-	1	1	0
		Khalasi Helper (M)	5200-20200	1800	9	8	1
9	SSE/W/HSA	Tech Carpenter.	Floating	-	3	2	1
		Tech Fitter.	Floating	-	1	1	0
		Tech Mason.	Floating	-	2	2	0
		Khalasi	5200-20200	1800	1	1	0
		Khalasi Helper (M)	5200-20200	1800	14	12	2
		TOTA			201	155	46

CHAPTER - III

3.0 <u>CRITICAL ANALYSIS OF EXISTING WORKLOAD AND STAFF REQUIREMENTS:</u>

- **3.1.** The activities and work load involved against Mason , Carpentry, Fitter and Khalasi has already discussed in Chapter-II.
- **3.2.** The work load of Mason, Carpentry, Fitter is off-loaded in some Railways by engaging out-agencies in field of work and same policy also adopted in APDJ Division. Thus, redundancy of work load is analysed in view of proper utilisation of man power without disturbing the avenue of promotion of staff.

3.3. Tech Carpenter:

SSE/Works I&II/APDJ reported that Carpentry work of this unit had reduced due to shortage of supply of wood, as well as wooden structures are replaced by fiber/PVC make items day by day by engaging out agencies, which are more durable than wooden structure, such as PVC make door and frame, PVC water tank, PVC/ steel make office furniture, etc.

Thus, in conform to Railway's existing policy to reduce the utilization of wood in support of movement against deforestation, causes the redundancy of work load of carpenter.

3.4. Tech. B/Smith:

The present scenario of work load of B/smith is that smithy work is reduced many fold due to utilisation of out agencies in various works as well as welding work carried out as gas welding or electric welding at low cost and in less time and less effort.

3.5. Tech . Mason:

The work load of Mason is reduced abruptly due to maintenance work through contractual.

3.6. KHALASI

The work load of khalasi helper is reduced abruptly that due to out-sourcing of maintenance and operational work of works department.

IDENTIFICATION OF SURPLUS POSTS UNDER Sr.DEN/C/APDJ

Tech Fitter	SN	Station	Category	Pay band	Grade pay	BOS	On Roll strength	Vac	SURPLUS POSTS
Tech Masson, Floating - 3 2 1 1 1 1 1 1 1 1	1	SSE/W-I/APDJ			-	6	1		4
Khalasi			Tech Fitter.		-	7	2	5	3
Khalasi Helper (M) 5200-20200 1800 21 118 3 2			Tech Mason.		-	3	2	1	1
Rhalasi Helper (FP) \$200-20200 1800						1	1	ų.	
S/Cleaner S200-20200 1800 1						21	18	3	2
SSE/W- IVAPDI			* ` ′	5200-20200		4	3	1	
II/APDJ					1800	1	1	-	
Tech Hason. Floating -	2				-	9	6		
Tech Mason		II/APDJ			-	1	-		
Rhalasi Helper (M)					-				-
SSE/W/COB					-				
SSE/W/COB Tech Carpenter. Floating -			Khalasi Helper (M)		1800	14			2
Tech Fitter. Floating -				5200-20200	1800	1	2	-1	
Tech Mason. Floating -	3	SSE/W/COB	Tech Carpenter.	Floating	-	4	4	0	
SSE/W/FKM			Tech Fitter.		-	2	1	1	
A			Tech Mason.	Floating	-	2	1	1	1
Tech Painter. Floating - 1 0 1			Khalasi Helper (M)	5200-20200	1800	6	5	1	1
Tech Mason. Floating -	4	SSE/W/FKM	Tech Carpenter.	Floating	-	5	2	3	
Tech Mason. Floating - 2 2 0			Tech Painter.	Floating	-	1	0	1	
Khalasi Helper (M) 5200-20200 1800 9 8 1 1			Tech Fitter.	Floating	-	5	3	2	1
SSE/W/DTX			Tech Mason.	Floating	-	2	2	0	
SSE/W/DTX			Khalasi Helper (M)		1800	9	8	1	1
Tech Fitter. Floating - 3			Khalasi Helper (FP)	5200-20200	1800	2	2	0	
Tech Mason. Floating - 2 1 0 1	5	SSE/W/DTX	Tech Carpenter.	Floating	-	4	2	2	
Khalasi Helper (M) 5200-20200 1800 14 12 2 1			Tech Fitter.	Floating	-	3	1	2	1
Khalasi Helper (M) 5200-20200 1800 14 12 2 1			Tech Mason.		-	2	1	0	1
S/Cleaner S200-20200 1800 2					1800	14	12	2	1
6 SSE/W/FLK Tech Carpenter. Floating Tech Fitter. Floating Tech Fitter. Floating Tech Fitter. Floating Tech Carpenter. Floating Tech Fitter. Floating Tech Fitter. Floating Tech Mason. Floating Tech Mason. Floating Tech Fitter. Fl			* ` ` ′						1
Tech Fitter. Floating - 3 3 0	6	SSE/W/FLK	Tech Carpenter.		+	2	0	2	
Khalasi Helper (M) 5200-20200 1800 2 2 0					_		3		
6 SSE/W/NMX Tech Carpenter. Floating - 2 1 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 1 1 0 Khalasi Helper (M) 5200-20200 1800 3 2 1 7 SSE/W/NOQ Tech Carpenter. Floating - 1 1 0 Tech Fitter. Floating - 1 1 0 0 Tech Mason. Floating - 1 1 0 0 Khalasi Helper (M) 5200-20200 1800 9 7 2 0 9 SSE/W/HSA Tech Fitter. Floating - 1 1 0 0 Yes Filoating - 1 1 0 <td></td> <td></td> <td></td> <td></td> <td>1800</td> <td>2</td> <td>2</td> <td>0</td> <td></td>					1800	2	2	0	
Tech Fitter.	6	SSE/W/NMX						1	
Tech Mason. Floating - 1 1 0					_		1	0	
Name					_	1	1	0	
7 SSE/W/NOQ Tech Carpenter. Floating Floa					1800	3	2		
Tech Fitter. Floating - 1 1 0	7	SSE/W/NOO			+			0	
Tech Mason. Floating - 1 1 0					_	1	1	0	
Khalasi Helper (M)					_	1	1	0	
8 SSE/W/MBZ Tech Carpenter. Floating - 3 1 2 Tech Painter. Floating - 1 1 0 Tech Fitter. Floating - 3 2 1 Tech Mason. Floating - 1 1 0 Khalasi Helper (M) 5200-20200 1800 9 7 2 Posselw/HSA Tech Carpenter. Floating - 3 2 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2					1800				
Tech Painter. Floating - 1 1 0 Tech Fitter. Floating - 3 2 1 Tech Mason. Floating - 1 1 0 Khalasi Helper (M) 5200-20200 1800 9 7 2 SSE/W/HSA Tech Carpenter. Floating - 3 2 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2 2	8	SSE/W/MBZ					1		
Tech Fitter. Floating - 3 2 1 Tech Mason. Floating - 1 1 0 Khalasi Helper (M) 5200-20200 1800 9 7 2 9 SSE/W/HSA Tech Carpenter. Floating - 3 2 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2	0 002, 1111122		_		1		1		
Tech Mason. Floating - 1 1 0 Khalasi Helper (M) 5200-20200 1800 9 7 2 9 SSE/W/HSA Tech Carpenter. Floating - 3 2 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2									
Khalasi Helper (M)									
9 SSE/W/HSA Tech Carpenter. Floating - 3 2 1 Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2									
Tech Fitter. Floating - 1 1 0 Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2	9	SSE/W/HSA			-				
Tech Mason. Floating - 2 0 2 1 Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2	–				 _ 				
Khalasi 5200-20200 1800 1 1 0 Khalasi Helper (M) 5200-20200 1800 14 12 2 2								-	1
Khalasi Helper (M) 5200-20200 1800 14 12 2 2							1		1
1 \ /							12		2
TOTAL			TOTA		1000	205	147	57	26

CHAPTER-IV

RECOMMENDATION

The work study team, had identified that total 26 posts (Tech Carpenter- 04,Tech Fitter -06, Tech Mason -06, Khalasihelper (M) -09 & S/Cleaner -01,= 26) as surplus and proposed that those posts may be surrender and deleted from the BOS of Engineering Department of Alipurduar Division.

CHAPTER - V

FINANCIAL IMPLICATION

SN	Category	Pay Band	G/Pay	in Rs	Revised Pay as per 7 th CPC	Salary per annum in INR	Nos. of posts proposed for surrender	Total amount in Rs
1	Tech Carpenter.	5200-20200/-	2800/-	15,500	39,835	4,78,020	4	19,12,080
2	Tech Fitter.	5200-20200/-	2800/-	15,500	39,835	4,78,020	6	28,68,120
3	Tech Mason.	5200-20200/-	2800/-	15,500	39,835	4,78,020	6	28,68,120
4	Khalashi helper(M)	5200-20200/-	1800	14,500	37,265	4,47,180	9	40,24,620
5	S/Cleaner	5200-20200	1800	14,500	37,265	4,47,180	1	4,47,180
						TOTAL =	26	1,21,20,120.

5.1. PROJECTED FINANCIAL SAVINGS PER ANNUM

Rs. 121.20 Lakhs (say) per annum

CHAPTER - VI

6.0. READY RECKONER

Pay Band	GP	Mean pay	Basic Pay in Rs	M.F. of 7 th CPC(2.57) & revised Pay	Salary per annum in INR
9300-34800	4600	22050	26,650	68,490.5	8,21,886
9300-34800	4200	22050	26,250	67,462.5	8,09,550
5200-20200	2800	12700	15,500	39,835	4,78,020
5200-20200	2400	12700	15,100	38,807	4,65,684
5200-20200	2000	12700	14,700	37,779	4,53,348
5200-20200	1900	12700	14,600	37,522	4,50,264
5200-20200	1800	12700	14,500	37,265	4,47,180