

NORTHEAST FRONTIER RAILWAY



WORK STUDY REPORT

ON

**REVIEW OF STAFF STRENGTH OF ELECTRICAL
DEPARTMENT UNDER Sr. DEE/KIR OF N.F.RAILWAY**

GUIDED BY:

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CO-ORDINATING OFFICERS & PERSONNEL

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ASSOCIATED OFFICER: SHRI PANKAJ PAL , ADEE/KIR

DIVISIONAL SUPERVISOR: SHRI D.D. BISWAS, OS/ Sr.DEE's

OFFICE/KIR

CONDUCTED BY

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STUDY NO. WSNF/32/2017-18

CASE NO. Z/375/10/32/17-18

CENTRAL PLANNING ORGANISATION

N. F. RAILWAY/MALIGAON

GUWAHATI - 781011.

EXECUTIVE SUMMARY

SUBJECT: Review of Staff Strength of Electrical Department under Sr. DEE/KIR of N.F. Railway

STUDY NO: WSNF/32/17-18
CASE NO: Z/375/10/ 32/17-18
CONCERN DIV: KATIHAR
DEPARTMENT: ELECTRICAL

TERMS OF REFERENCE:

Approved Annual Work Study Programme.

NO. OF RECOMMENDATION: - One

The study team has identified 27 nos of vacant posts of different categories (Tech-II/FCD = 3, Tech-III/FCD=4, Tech-II/PF=2, Tech-III/PF=1, Tech-I/C-fitter= 2, Tech-II/C-Fitter = 1 and Khalashi/Helper=14) as surplus and proposed for surrender, which may be deleted from the working BOS.

PROJECTED MAN POWER SAVINGS: 27 Nos.

PROJECTED SAVING: Rs. 127.12 Lakh per annum.

MONTH AND YEAR OF CIRCULATION: MARCH/2018

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CHAPTER - I

1.0 INTRODUCTION:

Railway administration has made the best use of its resources including manpower keeping them at optimum level to attain financial viability. Taking into consideration to these objectives, the Railway Board have advised to take up review on staff strength of various departments in the Railway. The Board have emphasized to suggest improved methods for economizing the system of reducing wastage of staff expenditures and improve manpower productivity. In pursuance with these policies of Railway Board, the Central Planning Organization of N.F. Railway has conducted Work Study on requirement of Staff strength under Sr. Divisional Electrical Engineer/KIR. The SSE/SE concerns under the entire jurisdiction Senior Divisional Electrical Engineer/KIR normally deals with the entire colony residence, Railway office building, HT < line, Transformer, Pump and Level crossing including the long sectional jurisdiction.

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.
- Focussing 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
- Outsourcing of noncore activity.
- Availability of better process/technology.
- Reducing/removing redundancy in work.

1.2 AUTHORITY:

SDGM of N.F.Railway.

1.3 TERMS OF REFERENCE:

Approved Annual Work Study Programme

1.4 METHODOLOGY:

- a) Collection of data relating to workload.
- b) Discussion with Sr DEE/KIR & Subordinates and obtaining their views.
- c) Assess the workload for Electrical /field activity.
- d) Assess the workload for KIR division's field units.
- e) Assess the staff requirements for the above workload.

1.5 ACKNOWLEDGEMENT:

Work study team is grateful to Sri P.Sarkar, Sr DEE/KIR, Sri Poritosh Paul SSE/P/NJP , Sri M.Choudhary , SSE/P/KIR , Sri A. Moitra, SSE/BOE & Sri S.Kumar SSE/KNE for their kind guidance and co-operation for conducting this study. The work study team is thankful to Sri D.D. Biswas, OS/Sr DEE's office/KIR for his assistance rendered to the work study team for conducting the subject study.

CHAPTER-II

2.0

EXISTING ACTIVITIES, WORK LOAD & STAFF

Over the years, there has been tremendous increase in all round activities of Electrical Department. Electrical Engineering is increasingly playing a very vital and crucial role in virtually all facets of Railway working. In addition, due to continuous development of new products, there is very rapid induction of modern technologies on the Railway in general and Electrical Engineering in particular. All this has made it important that all those concerned with the operation and maintenance of these modern assets inspect them regularly and knowledgeably to ensure high degree of reliability and health of assets. Because of rapid development and introduction of new technologies, there will be inevitable need for constant review and updating of man power.

TECH/FCD:

The work load of Tech/FCD is to carry out maintenance of DG sets , Cleaning the DG sets, switching on/off during power failure, changing of Lubricating oil, replacement of fuses in power panel in case of over load blowing of fuses etc. Presently in electrical department annual maintenance of DG sets has been awarded to out agencies for all sub- stations/ power houses.

TECH/ELECTRICAL:

The work load Tech/Electrical is to feed & maintain electrical supply from electrical installation to Equipment/panel. Presently, all the electrical works are being maintained by power supply/electrical department. At TL & AC depot these Tech/Electrical are deployed to maintain the rolling stock equipments viz. alternators, battery, inverters, RMPU package units, V- belt providing/replacement, bogie lifting and ancillary electrical maintenance of lights/fans of coaches as well as depot premises etc.

TECH/ CELL FITTER :

TECH/CELL FITTER is responsible for charging and maintenance of cell in Battery bank as well as batteries fitted with train's coaches.

KHALASHI/HELPER:

The Khalashi/Helper category is engaged to assist the work of Tech/FCD is to carry out maintenance of DG sets , Cleaning the DG sets, switching on/off during power failure, changing of Lubricating oil, replacement of fuses in power panel in case of over load blowing of fuses etc. Also engaged with other Technicians for any other works and also deputed for any heavy departmental work under guidance of supervisors.

1. STAFF POSITION AT KIR UNIT UNDER SSE/P/KIR

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy
1	SSE/P/KIR	9300-34800/-	4600/-	6	7	0
2	Ch OS	9300-34800/-	4600/-	1	1	0
3	OS	9300-34800/-	4200/-	2	2	0
4	Jr.Clerk	5200-20200/-	1900/-	0	0	0
5	CMRS	9300-34800/-	4600/-	1	1	0
6	Sr MR Inspector	9300-34800/-	4200/-	1	0	1
7	Sr MR	5200-20200/-	2800/-	1	1	0
8	Jr MR	5200-20200/-	1900/-	0	1	0
		Total		12	13	-1
9	Sr Tech/ PF	9300-34800/-	4200/-	1	0	1
10	Tech –I /PF	5200-20200/-	2800/-	3	3	0
11	Tech –II /PF	5200-20200/-	2400/-	1	2	-1
12	Tech –III/PF	5200-20200/-	1900/-	0	0	0
13	Sr Tech FCD	9300-34800/-	4200/-	6	2	4
14	Tech –I /FCD	5200-20200/-	2800/-	14	13	1
15	Tech –I I/FCD	5200-20200/-	2400/-	04	5	-1
16	Tech –I II/FCD	5200-20200/-	1900/-	07	4	3
17	Sr Tech/ ELF	9300-34800/-	4200/-	05	5	0
18	Tech-I/ ELF	5200-20200/-	2800/-	15	16	-1
19	Tech-II/ ELF	5200-20200/-	2400/-	12	8	4
20	Tech-III/ ELF	5200-20200/-	1900/-	9	7	2
21	Sr Tech/ L - Man	9300-34800/-	4200/-	03	2	1
22	Tech-I/ L - Man	5200-20200/-	2800/-	6	4	2
23	TechII/ L - Man	5200-20200/-	2400/-	2	3	-1
24	Tech-III/ L - Man	5200-20200/-	1900/-	2	3	-1
25	Helper/I&II	5200-20200/-	1800/-	39	33	6
26	Sr Tech-I/ M Fitter	5200-20200/-	2800/-	1	0	1
27	Tech -II/ M Fitter	5200-20200/-	2400/-	0	1	-1
			TOTAL	130	111	25

STAFF POSITION AT PRNA UNIT UNDER SSE/P/KIR

1	Tech-I/ ELF	5200-20200/-	2800/-	1	1	0
2	Tech-III/ ELF	5200-20200/-	1900/-	1	1	0
3	Tech-III/ L - Man	5200-20200/-	1900/-	1	2	-1
4	SrTech /FCD	9300-34800/-	4200/-	1	1	0
5	Tech –I /FCD	5200-20200/-	2800/-	1	1	0
6	Tech –I I/FCD	5200-20200/-	2400/-	0	2	-2
7	Tech –I II/FCD	5200-20200/-	1900/-	2	2	0
8	Helper/I&II	5200-20200/-	1800/-	4	1	3
			TOTAL	11	11	6

STAFF POSITION AT FBG UNIT UNDER SSE/P/KIR

1	JE/P/FBG	9300-34800/-	4200/-	1	1	0
2	Tech-I/ ELF	5200-20200/-	2800/-	1	1	0
3	Tech –III/PF	5200-20200/-	1900/-	0	1	1
4	Sr Tech/ L - Man	9300-34800/-	4200/-	0	0	1
5	Tech-I/ L - Man	5200-20200/-	2800/-	0	0	1
6	Tech-II/ L - Man	5200-20200/-	2400/-	0	1	-1
7	Tech-III/ L - Man	5200-20200/-	1900/-	1	0	1
8	SrTech /FCD	9300-34800/-	4200/-	2	1	1
9	Tech –I /FCD	5200-20200/-	2800/-	1	1	0
10	Tech –I I/FCD	5200-20200/-	2400/-	1	0	1
11	Helper/I&II	5200-20200/-	1800/-	5	4	1
			TOTAL	14	10	6

STAFF POSITION AT JBN UNIT UNDER SSE/P/KIR

1	Tech –I /FCD	5200-20200/-	2800/-	2	2	0
2	TechI/ ELF	5200-20200/-	2800/-	1	0	1
3	Tech-III/ ELF	5200-20200/-	1900/-	0	1	-1
4	Helper/I&II	5200-20200/-	1800/-	2	1	1
			TOTAL	5	4	2

STAFF POSITION AT MHI UNDER SSE/P/KIR

Station	Type I	Type I-2R	Type II	Type III	Type IV	Type IV SPL	Type V	Transit
KIR/Baigna	1302	161	1314	53	56	04	08	08
DLF	05	07	03	--	-	-	-	-
RWA	06	15	03	-	-	-	-	-
RNX	05	06	05	-	-	-	-	-
PRNA	41	49	27	01	03	-	-	-
KUB	09	06	03	-	-	-	-	-
GBN	01	08	02	-	-	-	-	-
JAG	05	13	02	-	-	-	-	-
KSY	05	09	04	-	-	-	-	-
ARQ/ARR	04	21	05	-	-	-	-	-
SMH	04	08	01	-	-	-	-	-
GPE	-	07	-	-	-	-	-	-
DLZ	-	11	-	-	-	-	-	-
FBG	23	42	13	01	-	-	-	-
BTF	02	02	-	-	-	-	-	-
JBN	34	18	13	-	-	-	-	-
KUQ	01	06	13	-	-	-	-	-
SAJH	-	08	-	-	-	-	-	-
PQD	-	05	09	01	-	-	-	-
LAV	01	11	08	-	-	-	-	-
MNS	04	02	-	-	-	-	-	-
MHI/MHPR	40	-	66	-	-	-	-	-
NYT/DNQ	23	14	08	-	-	-	-	-
SI	07	14	03	-	-	-	-	-

Nos. of Electrified Quarter under SSE/P/KIR

5. Meter Boxes provided in service buildings and private quarters:

D/Govt. Offices : 04

Shops : 79 Nos

Private Quarters: 37 Nos

Schools : 06 Nos

Union offices :09

Institutes / Samities :04

TOTAL : 139 NOS .

6) Electricals Fittings/Points provided :

	Qtrs	Service Buildings	
		Outdoor	Indoor
No of points provided interior	19586	5112	6205
No of plug points provided	4448	597	648
No of fan provided	5895	995	1076
No of Geyser	82	10	85
No of Exhaust fans	220	140	198

7) Motors :

0.5 HP Motor at KM / 2 (L.C. Gate) Quarter (C+D).

8) Transfomer :

9) Generator : if any provided with capacity :

SL no	Capacity in KVA	Total Nos
1	750	1
2	500	2
3	200	1
4	125	3
5	50	3
6	30	6
7	15	1
8	7.5	1

10) Yard and Street light (in nos) i.e. exterior : 463.

11) Electrical pumps with capacity :

SL no	Capacity in HP	Total Nos
1	60 (Centrifugal)	2
2	50 (Centrifugal)	12
3	40 (Centrifugal)	8
4	30 (Centrifugal)	6
5	25 (Submersible)	8

6	20 (Submersible)	1
7	20(Booster)	2
8	10 (Centrifugal)	1
9	10 (Submersible)	1
10	7.5 (Submersible)	6
11	5 (Submersible)	1
12	2 (Submersible)	1
13	1 (Submersible)	11

12) Span HT/LT Overhead lines consisting of 2 to 6 wires

No of Spans : 4666.

13) AC plants : 247.nos

Water coolers : 40 nos.

Refrigerators : 26 nos.

14) No of LC Gates : 116.

15) Unit consumed per month : **1.352641 million units.**

1. STAFF POSITION AT NJP UNIT UNDER SSE/P/NJP

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy
1	SSE/P/NJP	9300-34800/-	4600/-	5	4	1
2	JE/P	9300-34800/-	4200/-	0	1	-1
3	OS	9300-34800/-	4600/-	2	2	0
4	Jr.Clerk	9300-34800/-	1900/-	0	1	-1
5	CMS	9300-34800/-	4600	1	1	0
5	Sr.MRI	9300-34800/-	4200/-	1	Nil	1
6	Jr.MRI	5200-20200/-	1900/-	1	Nil	1
7	Jr MR	5200-20200/-	2800/-	0	2	-2
8	SSE/P/HDB	9300-34800/-	4600/-	1	1	0
10	Tech –I /FCD	5200-20200/-	2800/-	13	12	1
11	Tech –I I/FCD	5200-20200/-	2400/-	04	5	-1
12	Tech –I II/FCD	5200-20200/-	1900/-	02	3	-1
17	Sr Tech/ PF	9300-34800/-	4200/-	01	1	0
18	Tech –I /PF	5200-20200/-	2800/-	02	2	0
19	Tech –II /PF	5200-20200/-	2400/-	02	0	2
20	Tech –III/PF	5200-20200/-	1900/-	00	1	-1
21	Sr Tech/ L - Man	9300-34800/-	4200/-	02	6	-4
22	Tech-I/ L - Man	5200-20200/-	2800/-	14	11	3
23	Tech-II/ L - Man	5200-20200/-	2400/-	5	3	2
24	Tech-III/ L - Man	5200-20200/-	1900/-	3	2	1
25	Sr Tech/ ELF	9300-34800/-	4200/-	03	3	0
26	Tech-I/ ELF	5200-20200/-	2800/-	9	7	2
27	Sr Tech-II/ ELF	5200-20200/-	2400/-	1	1	0
28	Sr Tech-III/ ELF	5200-20200/-	1900/-	3	4	-1
29	Kha/helper	5200-20200/-	1800/-	38	9	29
30	Khalasi	5200-20200/-	1900/-	0	19	-19
	TOTAL			119	106	13

STAFF POSITION AT JPG UNIT UNDER SSE/P/NJP

1	SrTech FCD/JPG	9300-34800/-	4200/-	-	2	-2
2	Tech –I /FCD/JPG	5200-20200/-	2800/-	2	Nil	2
3	Tech-II/ L - Man	5200-20200/-	2400/-	0	0	0
4	Tech-I/ ELF	5200-20200/-	2800/-	1	Nil	1
5	Helper	5200-20200/-	1800/-	2	2	0
	TOTAL			5	4	1

STAFF POSITION AT HDB UNIT UNDER SSE/P/NJP

1	Tech –I /FCD	5200-20200/-	2800/-	1	Nil	1
2	Tech-III/ L- Man	5200-20200/-	1900/-	1	Nil	1
3	Sr Tech-I/ ELF	5200-20200/-	2800/-	1	Nil	1
4	Helper	5200-20200/-	1800/-	2	2	0
			TOTAL	5	2	3

Particulars of Electrical fittings/Points under SSE/Elect/P/NJP.

SL no	Capacity in KVA	Total Nos
1	5000	1
2	3150	1
3	2500	2
4	1000	2
5	500	0
6	315	11
7	250	13
8	200	3
9	150	6
10	100	14
11	63	14
12	25	16
13	13	6

- 1) NJP power house (Contact Demand) Capacity – 1700KVA.
 - a) No of Sub-Stations – 30 nos
 - b) No of Railway Stations under SSE/P/Elect/NJP : 14 Nos.
- 2) Electrified (Outstation) stations – RNI, NJB, CAT, DMZ, TMH, MXJ, DBQ, ABFC, BLK,ROJ, JPG, MDG, KSBI, HDB.
- 3) Electrical Quarter under SSE/P/Elect/NJP -2707 nos (Where meter box provided)

STN	Type-1	Type-1 SPL	Type-II	Type-III	Type-IV	Type-V
NJP	1052	147	931	85	50	1
ABFC	15	-	7	-	-	-
BLK	6	10	7	1	-	-
RQJ	21	8	7	-	-	-
JPG	9	24	6	-	-	-
MDG	6	-	4	-	-	-
KSBI	-	6	-	-	-	-
HDB	12	10	14	-	-	-
RNI	25	20	25	-	-	-
NJB	8	16	6	-	-	-
CAT	16	14	4	-	-	-
TMH	22	15	4	-	-	-
DMZ	14	31	2	-	-	-
MXJ	8	13	3	-	-	-
DBQ	15	-	4	-	-	-
TOTAL	1229	314	1024	86	50	1

. Meter Box provided in service Buildings and private Quarters- 25

School- Nill

Institute/ Samities- 01

Union Offices- 08

Govt. Offices- 20

Private Quarters - 02

6. Electricals Fittings/Points provided :

	Qtrs	Service Buildings	
		Outdoor	Indoor
No of points provided interior	16633	2460	4718
No of plug points provided	5440	176	1648
No of fan provided	4312	-	1520
No of Geyser	70	-	127
No of Exhaust fans	64	-	355

7. Motors (if any) where provided with capacity:- Nill

8. Transformer (if any) where provided with capacity

SL no	Location	Capacity in KVA	Total Nos
1	Power House	3150	1
2		3000	1
3		2500	1
4		1000	1
5		1000	1
6		1000	1
7		500	1
8		100	1
9	Filter House	500	1
		500	1
10	Hospital	250	2
11	Kashmir Colony	500	1
		250	1
12	Pump House	250	2
13	North Colony	500	1
14	Sub-Station	500	1
		500	1
15	4 th Battalion	63	1
		200	1
		25	1
		100	1
16	Central Colony	500	2
17	Sister Colony	100	1
18	ROH	500	2
19	RPF Barrack	250	1
20	RPF Barrack	160	1
21	Store	100	1
22	Store	150	1
23	Running Room	500	2
24	Area Office	250	2
25	DS Colony	250	1
26	BTPN	250	1
27	TMD	250	1

28	Old Sub Station	250	1
29		500	1
30	South Colny	200	1
31	Air Brake	500-1 nos & 250 2 nos	3
32	Goods siding	100	1
33	Laundry	250	1
34	DMZ	25	1
35	MXJ	63	1
36	HDB	100	1
37	JPG	100	1
	TOTAL		51

9) Generator :

SL No	Location	Capacity in KVA	Total Nos
1	NJP Power House	750	2
2	Filter	125	1
3	ART	15	1
4	ARME	7.5	1
	TOTAL		5

10) Yard and Street Light :

- a) High Mast -41 nos
- b) Street Light -1812 Nos.

11) Electrical Pumps

SL No	Location	Capacity in HP	Total Nos
1	Mahananda Pump House	50	3
2		60	2
3	Filter House	50	2
4		25	2
5		33.5	1
6		40	3
7		20	4
8	Carriage Pump	15	1
9	4 th Bat	15	1
10	Pit Line	7.5	1
11	Loco Pump	15	1
12	Saloon Sliding	15	1
13	RCD	7.5	1
14	TMH	7.5	1
15	JPG	7.5	1
16	HDB	7.5	1
17	CAT	5	1
18	RNI	5	1
	TOTAL		25

12) Span HT/LT Overhead lines consisting of 2 to 6 wire - 1226 Span

13) AC Plants, Water Coolers, Refrigerators, Air Coolers, AC

SN	LOCATION	CAPACITY IN TON	QTY
1	Dy CMM/Chamber	1	2
2	Dy CMM/Ward	1	4
3	Power House Store	1.2	2
4	DRM Camp	1.5	2
5	ADRM Chamber	1.5	2
6	Railway Hospital	1.5	14
7	A Cabin	1.5	4
8	East Cabin	1.5	4
9	West Cabin	1.5	4
10	ROH/DME Chamber	1.5	1
11	NJP Control	1.5	1
12	RPSF 4 th Batt	1.5	1
13	Retiring Room	1.5	1
14	Goods Office	1.5	1
15	ORH	2	2
16	Power House	1.5	1
17	Lobby	1.5	2
18	JPG UTS	1.5	1
19	RNI Goods Office	1.5	1
20	AM Chamber	1.5	1
21	Telephone Exchange	1.5	3
22	Power House Store	1.5	12
23	FOIS Control	1.5	1
24	RNI Weight Bridge	1	1
25	RE Office	1.5	2
26	Audit Office	1.5	1
27	ORH	2	2
28	Power House	2	1
29	VIP Longe	2	4
30	CDMS Office	1.5	1
31	Dy CMM	1.5	1
32	Telephone Exchange	2	2
33	DRM Camp	2	3
34	PRS NJP	2	1
		1.5	1
35	Upper Class Waiting Room	7.5	2
36	ORH	2	11
37	Micro Wave	2	2
38	Telephone Exchange	2	1
39	Power House	2	1
40	ROH	2	1
41	PRS/JPG	2	2
42	SMG Chamber	2	1
43	Magistrate	2	2
44	Mahananda R/Room	2	10
45	ISS Control	2	2
46	Retiring Room	2	2
47	Booking NJP	2	5
48	1 st Class Waiting Room	2	3

49	Himalayan Rest House	2	4
50	Himalayan R/House	1.5	4
51	Power House Store	3	2
	TOTAL		142

Position of Water Cooler

SL	LOCATION	CAPACITY IN LTS	QTY IN NOS
1	Area manager Office Canteen	40	1
2	PF – 1, 1A, 2 & 3	120	12
3	Lobby, R/Room, Store, G/high School &ROH	120	7
4	P/House, JPG & HDB	150	4
	TOTAL		24

No's of LC Gates : 52 Nos.

Unit Consumed Per Month : 7754 MWH (Approx)

BOE

1. STAFF POSITION AT KIR UNIT UNDER SSE/P/BOE

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy
1	SSE	9300-34800/-	4600/-	1	1	0
2	JE	9300-34800/-	4200/-	1	1	0
3	OS	9300-34800/-	4200/-	1	1	0
4	Sr MR Inspector	9300-34800/-	4200/-	1	0	1
5	Tech –I /P-Fitter	5200-20200/-	2800/-	1	1	0
6	Sr Tech/ FCD	9300-34800/-	4200/-	1	1	0
7	Tech –I /FCD	5200-20200/-	2800/-	3	1	2
8	Tech –II /FCD	5200-20200/-	2400/-	2	1	1
9	Tech –I II/FCD	5200-20200/-	1900/-	2	1	1
10	Sr Tech/ L - Man	9300-34800/-	4200/-	1	1	0
11	Tech- I/ L - Man	5200-20200/-	2800/-	1	0	1
12	Tech -II/ L - Man	5200-20200/-	2400/-	1	0	1
13	Tech -III/ L - Man	5200-20200/-	1900/-	4	3	1
14	Sr Tech/ ELF	9300-34800/-	4200/-	1	2	-1
15	Tech-I/ ELF	5200-20200/-	2800/-	3	2	1
16	Tech-II/ ELF	5200-20200/-	2400/-	2	2	0
17	Tech-III/ ELF	5200-20200/-	1900/-	1	1	0

18	Kh.Helper	5200-20200/-	1800/-	15	10	5
19	Tech-III/ETS	5200-20200/-	1900/-	1	0	1
20	Tech- I/TL	5200-20200/-	2800/-	3	1	2
21	ETS/ELF	5200-20200/-	1900/-	0	2	-2
22	ETS-II/ELF	5200-20200/-	2400/-	0	1	-1
23	Tech-II/ELF	5200-20200/-	2400/-	0	1	-1
24	Sr.MR	5200-20200/-	2800/-	0	1	-1
			TOTAL	47	36	11

Particulars of electrical fittings/Points under SSE/Elect/P/BOE.

- 1) Main Power House (Capacity) – Transformer – 315KVA, DG Nos : 01=200 KVA , DG Nos : 02= 125 KVA.
- 2) A) Nos of Sub – Station – 19 Nos.
b)No of Railway Station under Jurisdiction SSE/Elect/P/BOE – 24 Nos.
- 3) Out Station Electrified are : 20 Nos .
- 4) Electrical QTS under SSE/Elect/P/BOE (Where meter Box Provided) – Format attached.
- 5) Meter Box Provided in service building & Private Quarters.
a) School – 01 Nos.
b) Union Office -4 Nos.
c) Tea Stall -2 Nos.
d) D/ Govt Office (Post Office/RMS -01 Nos, GRP- 04 Nos, Private QRTS –Nil).
e) Institute -1 NOS.
- 6) Motor if any where provided with capacity – At RDP Compressor Room under Mechanical -10 HP = 1 Nos.
- 7) Transformer if any where :-
a) BOE – 315 KVA -2 Nos , 250 KVA -1No , 100 KVA-3 Nos.
b) RGJ – 250 KVA -2 Nos.
c) DLX 25 KVA 1 No .
d) KAU – 50 KVA – 1 No.
e) RDP – 100 KVA – 1 No.
f) SUD – 100 KVA 1No.
g) TETA -100 KVA – 1 No.
h) JAU- 63 KVA-1 No .
i) SRI - 63 KVA -1 No.
j) MFA – 63 KVA – 1 No .
k) AZR- 63 KVA -1 No.
l) KWE - 63 KVA.-1 No.
m) Kamalpur -10 KVA -1 No.
n) Bisanpur -10 KVA-1 No.
o) Minapur – 10 KVA -1 No.
p) LC Gate No – KM- 14-10 KVA – 1 No.
q) LC Gate No – KM- 17-10 KVA – 1 No.
r) LC Gate No – KM- 18-10 KVA – 1 No.

- s) LC Gate No – KM- 58-10 KVA – 1 No.
t) LC Gate No – KM- 63 -10 KVA – 1 No.
u) LC Gate No – KM- 64 -10 KVA – 1 No.
v) LC Gate No – KM- 68 -10 KVA – 1 No.
w) LC Gate No – KM- 69 -10 KVA – 1 No.
x) LC Gate No – KM- 70 -10 KVA – 1 No.
y) LC Gate No – KM- 72 -10 KVA – 1 No.
z) LC Gate No – KM- 74 -10 KVA – 1 No.
9) Generator if any where :-
a) SUD – 20 KVA – 1 No.
b) TETA – 20 KVA.- 1 No.
c) RGJ – 62.5 – 1 No.
10) Yard and street light (In No) Exterior
a) Lattice tower at BOE - @ Nos (8 x 200 W LED fitted each) .
b) High mast tower at RGJ – 2 Nos (9 x 200 W LED fitted each) & KAJ -1 No (6 x 200 W LED fitted each) .
c) Street light = 744 Nos.
11) Electrical Pump with Capacity :-
a) BOE – 7.5 HP = 2 Nos.
b) RGJ – 0.5 HP = 1 No, 7.5 – 1 No.
c) KAJ - 0.5 HP = 1 No, 7.5 – 1 No.
d) RDP – 7.5 HP = 2 Nos.
e) TETA – 7.5 HP = 1 No.
f) SUD - 5 HP = 1No.
12) Span HT/LT overhead lines consisting 2 to 6 wires no of span – 1877.
13) AC Plant/Water Cooler/Refrigerator/ Air Cooler :-
a) BOE – Water Cooler -2 No -80 Lts Air Cooler -1no , AC plant – 2Nos (2 T Each Split Type at PRS), 2Nos (1.5 T Window type at Micro).
b)RGJ – Water Cooler – 1No -12 Lts. AC Plant -2 Nos(2 T Each Split Type at PRS) 1 No = 2 T Split Type at Officer Rest Room, 1 No 1.5 T Window type at Officers Rest Room.
c) RDP – Water Cooler – 120 lts – 1 No.
d) KAJ AC Plant – 2 T Split Type = 1 No, 1.5 T Window Type both PRS.
14)No of LC Gate = 52 Nos.

15) UNIT CONSUMED PER MONTH= 41754.

16) Electrical fitting and points provided :

.	Qtrs	Service Buildings	
		Outdoor	Indoor
No of points provided interior	4491	123	852
No of plug points provided	2677	-	403
No of C- fan provided	1038	-	278
No of Geyser	-	-	5
No of Exhaust fans	-	-	37

Particulars of Electrified Quarter position under jurisdiction of SSE/P/BOE

STN	T/ I	T/ I- SPL	T/ II	T/ III	T/ IV	T/V	Total QRS	Fittings	C Fan	Plug/Point	Meter Box
BOE	76	90	89	4	1	1	261	341	455	455	261
MFA	-	13	-	-	-	-	13	26	26	26	13
SRI	2	6	3	-	-	-	11	20	20	20	11
JAU	10	-	-	-	-	-	10	10	10	10	10
AZR	16	14	6	-	-	-	36	56	56	56	36
KWE	16	13	6	-	-	-	35	52	54	54	35
KAU	-	6	6	-	-	-	12	24	24	24	12
SUD	5	30	16	-	-	-	51	69	97	97	51
TETA	17	24	3	-	-	-	44	71	71	71	44
RGJ	5	6	15	2	1	-	29	57	57	75	29
BNG R	-	6	-	-	-	-	6	12	12	12	6
BJY	-	-	6	-	-	-	6	12	12	12	6
KAJ	15	12	6	1	-	-	34	54	54	54	34
DLX	-	-	8	-	-	-	8	16	16	16	8
RDP	13	10	4	-	-	-	27	41	41	41	27

Particulars of Electrical fittings/Points under SSE/Elect/P/KNE.

- 1) Main Power house (Capacity) : 260 KVA.
- 2) a) No of Sub- Station : 8 Nos (AUB,GEOR,KNE(2Nos) , HWR,KKA,SJKL,DLK.
b) No of Railway Station under jurisdiction, SSE/Elect/P/KNE : 9Nos.
- 3) Out Station Electrification are : DLK, AUB, GEOR, GIL, PJP, HWR, KKA, SJKL.
- 4) Electrified Quarters under SSE/Elect/P/KNE :

Stn	T/1	T/1 Spl	T/11	T/111	T/IV	T/V	
1	356	268	232	13	7	1	

- 5) Meter Box Provided in service building & Private Quarters.

- a) School – NIL.
- b) Union Office - 6 Nos.
- c) Shopl - 11 Nos.
- d) D/ Govt : 11 Nos
- e) Institute –NIL.

6. Electricals Fittings/Points provided :

	Qtrs	Service Buildings	
		Outdoor	Indoor
No of points provided interior	6044	420	1154
No of plug points provided	3454	-	604
No of fan provided	1421	-	286
No of Geyser	2	-	4
No of Exhaust fans	8	-	42
TOTAL	10929	420	2090

7) Motors –Nil.

8) Transformer : 13 Nos.

(KNE :500 KVA =1, 315 KVA =1 ,City Colony – 25KVA =2, AUB-200KVA=2, GEOR – 63 KVA = 2 , HWR -63-KVA =1, KKA – 25 KVA =2, SJKL – 25 KVA = 1, DLK – 250KVA = 1.)

9) Generator : KNE ; 3 Nos (380 KVA = 1 , 125 KVA =1,200KVA = 1)

10) Yard and Street Light (in nos) i.e. exterior : 13 Highmasts and street light =420 Nos.

11) Electrical Pump with Capacity : 6 Nos (KNE – 15 HP=3 Nos, AUB – 5 HP=1 No, DLK – 10 HP = 1 No & 7.5 HP = 1 No).

12) Spans HT/LT over head lines consisting of 2 to 6 wires . No of spans = 550 Nos .

13) AC Plant , Water Coolers, Refrigerator, Air Cooler : RAC = 11 Nos Water Cooler = 8 Nos , Refrigerator =1No.

14) No of LC Gates : 46 Nos.

15) UNIT CONSUMED PER MONTH : 173630 KWH

1. STAFF POSITION AT KIR UNIT UNDER SSE/P/KNE

SN	Category	Pay Band	G/Pay	BOS	On Roll	Vac
1	SSE	9300-34800/-	4600/-	1	1	0
2	JE	9300-34800/-	4200/-	1	1	0
3	OS	9300-34800/-	4200/-	1	1	0
4	Jr MR	5200-20200/-	1900/-	1	1	0
6	Sr Tech/ FCD	9300-34800/-	4200/-	1	1	0
7	Tech –I /FCD	5200-20200/-	2800/-	3	2	+1
8	Tech –II/FCD	5200-20200/-	2400/-	3	3	0
9	Tech –III/FCD	5200-20200/-	1900/-	2	1	+1
10	Sr Tech/ L -Man	9300-34800/-	4200/-	1	1	0
11	Tech-I/ L -Man	5200-20200/-	2800/-	4	1	+3
13	Tech- III/ L -Man	5200-20200/-	1900/-	1	2	-1
14	Sr Tech/ ELF/P	9300-34800/-	4200/-	0	3	-3
15	Tech-I/ ELF	5200-20200/-	2800/-	3	1	+2
16	Tech-II/ ELF	5200-20200/-	2400/-	1	0	+1
17	Tech-I/ ETS	5200-20200/-	2800/-	0	2	-2
18	Tech-II/ ETS	5200-20200/-	2400/-	3	0	+3
19	Tech-III/ETS	5200-20200/-	1900/-	3	2	+1
20	Khalasi/Helper/P	5200-20200/-	1800/-	10	8	+2
21	ETS/TL	5200-20200/-	1800/-	4	3	+1
			TOTAL	43	34	9

Staff Position of category Cell fitter in the different Train Lightning units under Sr DEE/KIR

SN	Category	Pay Band	G/Pay	BOS	Unit	On Roll	Vac	Remarks
1	Sr Tech/ C Fitter	9300-34800/-	4200	4	Sr.DEE Office	1	-2	During discussion with Sr.DEE/KIR, it is learnt that the work load of C/fitter is off-loaded . Hence , the vacant posts may be deemed to be surplus
					SSE/TL/KIR	4		
					SSE/TL/NJP	1		
2	Tech -I/ C Fitter	5200-20200/-	2800	10	SSE/TL/KIR	5	+5	
					SSE/TL/NJP	0		
3	Tech -II/ C Fitter	5200-20200/-	2400	4	SSE/TL/KIR	2	+1	
					SSE/TL/NJP	1		
4	Tech -III/ C Fitter	5200-20200/-	1900	2	SSE/TL/KIR	3	-1	
					SSE/TL/NJP	0		
				20	TOTAL	17	3	

CHAPTER-III

3.0 CRITICAL ANALYSIS OF EXISTING WORKLOAD AND STAFF REQUIREMENTS:

The activities and work load involved with the Staff under Sr.DEE/KIR is already discussed in CH-II. In reference of above, the requirement/ non-requirement of following category of staff is justified as below-

Calculation done on the basis of yard stick of electric department of various category vide Rly Board Circular No. 2001/Elect (G)/138/3. dt 16/03/06 (copy enclosed) as Annexure-II.

As per above circular, the requirement of man power is calculated on the basis of unit consumption per month.

Under heading of General Power Supply of sub-para 1.4 as mentioned as the requirement of is 0.2 staff/1000 units consumed per month.

3.1. As discussed with Ch.OS/Sr.DEE-KIR Office, the nominated supervisor for the study, vide Sr.DEE/KIR letter no- EL/268/0/K/WS/745 dt. 08/08/2017 (placed as Annex-I), data supplied as below-

Position of Unit wise (BOS, On roll) vis-a-vis post required as per Rly BD's MPP-norms.

Jurisdiction	BOS	On Roll	Total Unit Consumption Yearly	Total Unit Consumption Monthly	Post Calculation as per Rly Board L/No. 2001/Elect (G)/138/3. dt 16/03/06	13% Supervisor of Total Posts	SSE=67% OF TOTAL SUPERVISOR	Gross Total
KIR/PH	6	7	16039475	1336623	267	35	23	325
MLDT/PH	2	1	1965388	163782	33	4	3	40
BOE/PH	1	1	505789	42149	8	1	0.7	10
KNE/PH	1	1	2120665	176722	35	5	3	43
NJP/PH	6	5	9410124	784177	157	20	14	191
SGUJ/PH	3	2	4737285	394774	79	10	7	96
TDH/PH	1	1	373243	31104	6	1	0.5	7.5
KGN/PH	2	1	366408	30534	6	1	0.5	7.5
TOTAL	22	19	35518377	2959865	591	77	52	720

3.2. The man power required as per above circular on the basis of data submitted by the units itself-

Jurisdiction	Total Unit Consumption Monthly	Post Calculation as per Rly Board L/No. 2001/Elect (G)/138/3. dt 16/03/06	13% Supervisor of Total Posts	SSE=67% OF TOTAL SUPERVISOR	Gross Total
KIR/PH	1352641	271	36	24	331
MLDT/PH	163782	33	4	3	40
BOE/PH	41754	8	1	0.7	10
KNE/PH	173630	35	5	3	43
NJP/PH	775400	155	20	13	188
SGUJ/PH	394774	79	10	7	96
TDH/PH	31104	6	1	0.5	7.5
KGN/PH	30534	6	1	0.5	7.5
TOTAL	2963619	593	78	52	723

3.3. The total sanctioned strength of Technical staff & Sr.Sub-ordinate under Sr.DEE/KIR as on 01.04.2017

SN	CATEGORY	GRADE PAY	NOS. OF POST	REMARKS
1	Sr.Tech/PF	4200	2	
2	Tech –I /PF	2800	7	
3	Tech –II /PF	2400	3	
4	Tech –III/PF	1900	0	
5	SrTech FCD	4200	22	
6	Tech –I /FCD	2800	59	
7	Tech –II/FCD	2400	27	
8	Tech –III/FCD	1900	21	
9	Sr Tech/ ELF	4200	16	
10	Tech- I/ ELF	2800	44	
11	Tech- II/ ELF	2400	20	
12	Tech- III/ ELF	1900	20	
13	Sr Tech/ L -Man	4200	12	
14	Tech- I/ L -Man	2800	34	
15	Tech -II/ L -Man	2400	16	
16	Tech -III/ L -Man	1900	15	
17	Sr Tech/ ELF/P	4200	16	
18	Tech -I/ELF/P	2800	44	
19	Tech -II/ELF/P	2400	20	
20	Tech -III/ELF/P	1900	20	
21	Sr Tech/ AC	4200	12	
22	Tech -I/ AC(ETS)	2800	34	
23	Tech- II/ ETS	2400	49	
24	Tech- III/ ETS	1900	47	
25	Sr Tech/ TL	4200	27	Under Train lightning
26	Tech I/ TL	2800	75	
27	Sr Tech/ M Fitter	4200	2	Under Train lightning & AC
28	Tech- I/ M Fitter	2800	4	
29	Tech -II/ M Fitter	2400	2	
30	Tech -III/ M Fitter	1900	2	
31	Sr Tech/ C Fitter	4200	4	
32	Tech -I/ C Fitter	2800	10	
33	Tech -II/ C Fitter	2400	4	
34	Tech -III/ C Fitter	1900	2	
35	CMRS	4600	2	
36	Sr MR Inspector	4200	6	
37	Sr MR	2800	2	
38	Jr MR	1900	1	
39	Helper/P	1800	154	
40	Helper/ETS	1800	156	
41	Safaiwala	1800	3	
42	J/Peon	1800	6	
43	E/Peon	1800	1	
44	SSE/CTA	4600	46	
45	JE/TA	4200	20	
TOTAL -			1089	

The above Table (Para-3.3) shows the total sanctioned strength including Power, Train Lightning & AC

3.4. The total sanctioned strength against **Train lightning & AC** Units as below-

SN	CATEGORY	GRADE PAY	NOS. OF POST
1	Sr Tech/ AC	4200	12
2	Tech I/ AC(ETS)	2800	34
3	Tech II/ ETS	2400	49
4	Tech III/ ETS	1900	47
5	Sr Tech/ TL	4200	27
6	Tech I/ TL	2800	75
7	Sr Tech/ C Fitter	4200	4
8	Tech I/ C Fitter	2800	10
9	Tech II/ C Fitter	2400	4
10	Tech III/ C Fitter	1900	2
11	Sr Tech/ M Fitter	4200	2
12	Tech I/ M Fitter	2800	4
13	Tech II/ M Fitter	2400	2
14	Tech III/ M Fitter	1900	2
	TOTAL		274
15	JE		274X13%=36
16	SSE		36X67%= 24
	GROSS TOTAL		334

3.5. As discussed in above Tables, the total sanctioned strength (excluding SSE & JE) of staff in Electrical/ Branch under Sr.DEE/KIR in KIR division is (**Para-3.3 - Para-3.4**) = **755** .

3.6. Considering higher side of staff requirement , excluding SSE , JE & ministerial staff, The calculated strength is **593 nos.** (para-3.2) against sanctioned strength **755 nos.** , which has difference of **162 nos.** of posts. Moreover, as per Rly.Board's letter no- 2016/E&R/2(8)/1 DT-06/06/2017 the current MPR of Electrical(P) /KIR is 1.49, which is more than IR Avg by 609.52%, the letter enclosed as Annex-III
Which is reproduced below-

Railway	Work Centre	MPR UNIT	Current BM	IR Average	MPR of the work centre	% Variation wrt IR avg
N.F.R	Elect(Power)/KIR	Pers/'000 unit On Roll Strength	0.09 BKN	0.21	1.49	609.52

3.7. IDENTIFICATION OF SURPLUS STAFF UNDER Sr.DEE/KIR

1. STAFF POSITION AT KIR UNIT UNDER SSE/P/KIR

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy	Surplus
1	SSE/P/KIR	9300-34800/-	4600/-	6	7	-1	0
2	Ch OS	9300-34800/-	4600/-	1	1	0	0
3	OS	9300-34800/-	4200/-	2	2	0	0
4	Jr.Clerk	5200-20200/-	1900/-	0	0	0	0
5	CMRS	9300-34800/-	4600/-	1	1	0	0
6	Sr MR Inspector	9300-34800/-	4200/-	1	0	+1	0
7	Sr MR	5200-20200/-	2800/-	1	1	0	0
8	Jr MR	5200-20200/-	1900/-	0	1	-1	0
		Total		12	13		0
9	Sr Tech/ PF	9300-34800/-	4200/-	1	0	+1	0
10	Tech –I /PF	5200-20200/-	2800/-	3	3	0	0
11	Tech –II /PF	5200-20200/-	2400/-	1	2	-1	0
12	Tech –III/PF	5200-20200/-	1900/-	0	0	0	0
13	Sr Tech FCD	9300-34800/-	4200/-	6	2	+4	0
14	Tech –I /FCD	5200-20200/-	2800/-	14	13	+1	0
15	Tech –II /FCD	5200-20200/-	2400/-	04	5	-1	0
16	Tech –III FCD	5200-20200/-	1900/-	07	4	+3	1
17	Sr Tech/ ELF	9300-34800/-	4200/-	05	5	0	0
18	TechI/ ELF	5200-20200/-	2800/-	15	16	-1	0
19	Sr TechII/ ELF	5200-20200/-	2400/-	12	8	+4	0
20	Sr TechIII/ ELF	5200-20200/-	1900/-	9	7	+2	0
21	Sr Tech/ L - Man	9300-34800/-	4200/-	03	2	+1	0
22	Tech-I/ L - Man	5200-20200/-	2800/-	6	4	+2	0
23	Tech-II/ L - Man	5200-20200/-	2400/-	2	3	-1	0
24	Tech-III/ L - Man	5200-20200/-	1900/-	2	3	-1	0
25	Helper/I&II	5200-20200/-	1800/-	39	33	+6	4
26	Sr Tech-I/ M Fitter	5200-20200/-	2800/-	1	0	+1	0
27	Tech -II/ M Fitter	5200-20200/-	2400/-	0	1	-1	0
			TOTAL	130	111	18	05

2. STAFF POSITION AT FBG UNIT UNDER SSE/P/KIR

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy	Surplus
1	JE/P/FBG	9300-34800/-	4200/-	1	1	0	
2	Tech-I/ ELF	5200-20200/-	2800/-	1	1	0	
3	Tech –III/PF	5200-20200/-	1900/-	0	1	1	0
4	Sr Tech/ L -Man	9300-34800/-	4200/-	0	0	1	
5	Tech-I/ L -Man	5200-20200/-	2800/-	0	0	1	
6	Tech-II/ L -Man	5200-20200/-	2400/-	0	1	-1	
7	Tech-III/ L -Man	5200-20200/-	1900/-	1	0	1	
8	SrTech/ FCD	9300-34800/-	4200/-	2	1	1	
9	Tech –I /FCD	5200-20200/-	2800/-	1	1	0	
10	Tech –I I/FCD	5200-20200/-	2400/-	1	0	1	1
11	Helper/I&II	5200-20200/-	1800/-	5	4	1	1
			TOTAL	14	10	6	2

3. STAFF POSITION AT MHI UNDER SSE/P/KIR

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy	Surplus
1	Tech –I /FCD	5200-20200/-	2800/-	1	0	1	0
2	Tech –II /FCD	5200-20200/-	2400/-	1	0	1	1
3	Tech III/ ELF	5200-20200/-	1800/-	1	0	1	
4	Tech III/ L -Man	5200-20200/-	1800/-	1	0	1	
5	Helper/I&II	5200-20200/-	1800/-	2	1	1	1
			TOTAL	6	1	5	2

4. STAFF POSITION AT NJP UNIT UNDER SSE/P/NJP

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy	Surplus
1	SSE/P/NJP	9300-34800/-	4600/-	5	4	1	
2	JE/P	9300-34800/-	4200/-	0	1	-1	
3	OS	9300-34800/-	4600/-	2	2	0	
4	Jr.Clerk	9300-34800/-	1900/-	0	1	-1	
5	CMS	9300-34800/-	4600	1	1	0	
5	Sr.MRI	9300-34800/-	4200/-	1	Nil	1	
6	Jr.MRI	5200-20200/-	1900/-	1	Nil	1	
7	Jr MR	5200-20200/-	2800/-	0	2	-2	
8	SSE/P/HDB	9300-34800/-	4600/-	1	1	0	
9	SrTech /FCD	9300-34800/-	4200/-	06	5	1	
10	Tech –I /FCD	5200-20200/-	2800/-	13	12	1	0
11	Tech –II/FCD	5200-20200/-	2400/-	04	5	-1	
12	Tech –III /FCD	5200-20200/-	1900/-	02	3	-1	
17	Sr Tech/ PF	9300-34800/-	4200/-	01	1	0	
18	Tech –I /PF	5200-20200/-	2800/-	02	2	0	
19	Tech –II /PF	5200-20200/-	2400/-	02	0	2	2
20	Tech –III/PF	5200-20200/-	1900/-	00	1	-1	
21	Sr Tech/ L - Man	9300-34800/-	4200/-	02	6	-4	
22	Tech-I/ L - Man	5200-20200/-	2800/-	14	11	3	
23	Tech-II/ L - Man	5200-20200/-	2400/-	5	3	2	
24	Tech-III/ L - Man	5200-20200/-	1900/-	3	2	1	
25	Sr Tech/ ELF	9300-34800/-	4200/-	03	3	0	
26	Tech-I/ ELF	5200-20200/-	2800/-	9	7	2	
27	Sr Tech-II/ ELF	5200-20200/-	2400/-	1	1	0	
28	Sr Tech-III/ ELF	5200-20200/-	1900/-	3	4	-1	
29	Kha/helper	5200-20200/-	1800/-	38	9	29	5
30	Khalasi	5200-20200/-	1900/-	0	19	-19	
	TOTAL			119	106	13	07

5. STAFF POSITION AT BOE UNIT UNDER SSE/P/BOE

SN	Category	Pay Band	Grade Pay	Sanction	On Roll	Vacancy	Surplus
1	SSE	9300-34800/-	4600/-	1	1	0	
2	JE	9300-34800/-	4200/-	1	1	0	
3	OS	9300-34800/-	4200/-	1	1	0	
4	Sr MR Inspector	9300-34800/-	4200/-	1	0	1	
5	Tech –I /P- Fitter	5200-20200/-	2800/-	1	1	0	
6	Sr Tech/ FCD	9300-34800/-	4200/-	1	1	0	
7	Tech –I /FCD	5200-20200/-	2800/-	3	1	2	0
8	Tech –II /FCD	5200-20200/-	2400/-	2	1	1	1
9	Tech –III /FCD	5200-20200/-	1900/-	2	1	1	1
10	Sr Tech/ L -Man	9300-34800/-	4200/-	1	1	0	
11	Tech- I/ L -Man	5200-20200/-	2800/-	1	0	1	
12	Tech -II/ L -Man	5200-20200/-	2400/-	1	0	1	
13	Tech -III/ L -Man	5200-20200/-	1900/-	4	3	1	
14	Sr Tech/ ELF	9300-34800/-	4200/-	1	2	-1	
15	Tech-I/ ELF	5200-20200/-	2800/-	3	2	1	
16	Tech/ ELF-II	5200-20200/-	2400/-	2	2	0	
17	Tech/ ELF- III	5200-20200/-	1900/-	1	1	0	
18	Kh.Helper	5200-20200/-	1800/-	15	10	5	2
19	Tech-III/ETS	5200-20200/-	1900/-	1	0	1	
20	Tech-II/FCD	5200-20200/-	2400/-	1	1	0	
21	Tech- I/TL	5200-20200/-	2800/-	3	1	2	
22	ETS/ELF	5200-20200/-	1900/-	0	2	-2	
23	ETS-II/ELF	5200-20200/-	2400/-	0	1	-1	
24	Tech-II/ELF	5200-20200/-	2400/-	0	1	-1	
25	Sr.MR	5200-20200/-	2800/-	0	1	-1	
			TOTAL	47	36	11	4

6. STAFF POSITION AT UNDER SSE/P/KNE

SN	Category	Pay Band	G/Pay	BOS	On Roll	Vac	Surplus
1	SSE	9300-34800/-	4600/-	1	1	0	
2	JE	9300-34800/-	4200/-	1	1	0	
3	OS	9300-34800/-	4200/-	1	1	0	
4	Jr MR	5200-20200/-	1900/-	1	1	0	
6	Sr Tech/ FCD	9300-34800/-	4200/-	1	1	0	
7	Tech –I /FCD	5200-20200/-	2800/-	3	2	+1	0
8	Tech –II/FCD	5200-20200/-	2400/-	3	3	0	
9	Tech –III/FCD	5200-20200/-	1900/-	2	1	+1	1
10	Sr Tech/ L -Man	9300-34800/-	4200/-	1	1	0	
11	Tech I/ L -Man	5200-20200/-	2800/-	4	1	+3	
13	Tech III/ L -Man	5200-20200/-	1900/-	1	2	-1	
14	Sr Tech/ ELF/P	9300-34800/-	4200/-	0	3	-3	
15	Tech-I/ ELF	5200-20200/-	2800/-	3	1	+2	
16	Tech/II/ ELF	5200-20200/-	2400/-	1	0	+1	
17	Tech-I/ ETS	5200-20200/-	2800/-	0	2	-2	
18	Tech-II/ ETS	5200-20200/-	2400/-	3	0	+3	
19	Tech-III/ETS	5200-20200/-	1900/-	3	2	+1	
20	Khalasi/Helper	5200-20200/-	1800/-	10	8	+2	2
21	ETS/TL	5200-20200/-	1800/-	4	3	+1	
			TOTAL	43	34 34	9	9 3

3.8. The work load of Tech/FCD is to carry out maintenance of DG sets , Cleaning the DG sets, switching on/off during power failure, changing of Lubricating oil, replacement of fuses in power panel in case of over load blowing of fuses etc. Presently in electrical department annual maintenance of DG sets has been awarded to out agencies for all sub- stations/ power houses. **Thus, Work load of Tech/FCD is off-loaded**

The nos. of surplus posts identified as below-

SN	Category	Pay Band	G/Pay	Unit	Identified Surplus (Vacant)
1	Tech- II/ FCD	5200-20200/-	2400	SSE/P/KIR at FBG	1
				SSE/P/KIR at MHI	1
				SSE/P/BOE at BOE	1
2	Tech- III/ FCD	5200-20200/-	1900	SSE/P/KIR at KIR	2
				SSE/P/BOE at BOE	1
				SSE/P/KNE at KNE	1
				TOTAL	7

3.9. The work load of Tech/PF is to carry out maintenance of Pump sets , switching on/off for water supply. Presently in electrical department annual maintenance of Pump sets has been awarded to out agencies and Pumps are fitted with remote control switches , which can be operated from a centralized position from the Unit/Office itself. Moreover, Railways adopted the policy to supply water from deep boring, which also reduces the cost of purification of river water as well as savings of man power **Thus, Work load of Tech/PF is off-loaded**

The nos. of surplus posts identified as below-

SN	Category	Pay Band	G/Pay	Unit	Identified Surplus (Vacant)
1	Tech- II/ PF	5200-20200/-	2400	SSE/P/NJP at NJP	2
2	Tech- III/ PF	5200-20200/-	1900	SSE/P/KIR at FBG	1
				TOTAL	3

3.10. The Helper/P category is engaged to assist work load of Tech/FCD is to carry out maintenance of DG sets , Cleaning the DG sets, switching on/off during power failure, changing of Lubricating oil, replacement of fuses in power panel in case of over load blowing of fuses etc. Presently in electrical department annual maintenance of DG sets has been awarded to out agencies for all sub- stations/ power houses.

Thus, Work load of Khalashi/Helper is off-loaded many fold.

The nos. of surplus posts identified as below-

SN	Category	Pay Band	G/Pay	Unit	Identified Surplus (Vacant)
1	Khalashi/Helper	5200-20200/-	1800/-	SSE/P/BOE at BOE	2
				SSE/P/KIR at KIR	3
				SSE/P/NJP at NJP	5
				SSE/P/KNE at KNE	2
				SSE/P/KIR at FBG	1
				SSE/P/KIR at MHI	1
				TOTAL	14

- 3.11. The Cell Fitter category is engaged for maintenance of Battery cell, Charging of battery, etc.. But , presently batteries are initially charged by manufacturer and some other cases charging of batteries are included during supply against CA. Thus, work load of C/Fitter is off-loaded many fold.

The nos. of surplus posts identified as below-

SN	Category	Pay Band	G/Pay	Unit	Identified Surplus (vacant)
1	Tech I/ Cell Fitter	5200-20200/-	2800	SSE/TL/KIR	2
2	Tech II/ Cell Fitter	5200-20200/-	2400		1
				TOTAL	3

CHAPTER-IV

RECOMMENDATION

The study team has identified 27 nos. of vacant posts of different categories (Tech-II/FCD = 3, Tech-III/FCD=4, Tech-II/PF=2, Tech-III/PF=1, Tech-I/C-fitter= 2, Tech-II/C-Fitter = 1 and Khalashi/Helper=14) as surplus and proposed for surrender, which may be deleted from the working BOS.

CHAPTER-V

FINANCIAL IMPLICATION

EXPENDITURE / FINANCIAL SAVINGS PER ANNUM

SN	Category	Pay Band	G/Pay	Basic 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- II/FCD	5200-20200	2400	15,100	38,807	465684	3	1397052
2	Tech III/FCD	5200-20200	1900	14,600	37,522	450,264	4	2251320
3	Tech-II /PF	5200-20200	2400	15,100	38,807	465684	2	931368
4	Tech-III /PF	5200-20200	1900	14,600	37,522	450,264	1	450264
5	Tech- I/ C Fitter	5200-20200/-	2800	15,500	39,835	478,020	2	956040
6	Tech- II/ C Fitter	5200-20200/-	2400	15,100	38,807	465684	1	465684
7	Khalashi/Helper	5200-20200/-	1800/-	14,500	37,265	447,180	14	6260520
	TOTAL						27	12712248 (Say Rs 127.12 Lakh)

5.1. PROJECTED FINANCIAL SAVINGS PER ANNUM

If the recommendation of this study be implemented, the financial savings per annum will be **Rs 127.12 Lakhs (say) per annum**

CHAPTER - VI

6.0. READY RECKONER

Pay Band	Mean pay	GP	Basic Pay in Rs	M.F. of 7th & CPC(2.57) revised Pay	Salary per annum in INR
9300-34800	22050	4200	26,250	67,462.5	809,550
5200-20200	12700	2800	15,500	39,835	478,020
5200-20200	12700	2400	15,100	38,807	465,684
5200-20200	12700	1900	14,600	37,522	450,264
5200-20200	12700	1800	14,500	37,265	447,180

PP/1

Subject: Work study on “Review of Staff of Electrical Department under Sr.DEE/KIR of N.F. Railway.”

The draft study report on above subject is placed at SN/Side for your perusal and further advice please.

In this work study 27 nos of vacant posts of different categories (Tech-II/FCD = **3**, Tech-III/FCD=**4**, Tech-II/PF=**2**, Tech-III/PF=**1**,Tech-I/C-fitter= **2**,Tech-II/C-Fitter = **1** and Khalashi/Helper=**14**) has been identified as surplus and proposed for surrender , if agreed so.

The related savings against the surrender is at the tune of Rs **127.12** Lakh per annum.

Submitted please.

E.O