

WORK STUDY TO REVIEW THE STAFF STRENGTH OF SSE/ELEC/POWER/SA SALEM DIVISION SOUTHERN RAILWAY

SOUTHERN RAILWAY

PLANNING BRANCH

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WORK STUDY TO REVIEW

THE STAFF STRENGTH OF

SSE/ELEC/POWER/SA

SALEM DIVISION

SOUTHERN RAILWAY

STUDIED BY

WORK STUDY TEAM
OF
PLANNING BRANCH

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(i)

ACKNOWLEDGEMENT

The work study team acknowledges its gratitude to Sr.DEE/SA, ADEE/G/SA (Co-ordinating Officer), SSE/POWER/SA (Co-ordinating Supervisor) and all the signal staff of under SSE/POWER/SA for their valuable inputs and guidance in conducting and completing the study in time.

(ii) AUTHORITY

Annual programme of work studies, approved by SDGM for the year 2018-19.

(iii) TERMS OF REFERENCE

To review the staff strength of SSE/POWER/SAsection in SalemDivision/S.Rly.

(iv) METHODOLOGY

The following methodology has been adopted while conducting the study:

- 1) Collection of data
- 2) Discussion and interaction with officers of the Division and supervisors and staff of the unit.
- 3) Observation at Field Unit.
- 4) Working out the requirements on need base duly consideringbenchmarking, need basis, quantum of outsourcing and modernization.



(V) SUMMARY OF RECOMMENDATIONS

REVISED RECOMMENDATIONS:

The following posts in respect to SSE/ELEC/POWER/SA section are identified as surplus to the requirement and these posts may be surrendered and credited to the vacancy bank.

| | Category | Grade in Rs | No.of posts |
|-------|----------|-------------|-------------|
| SI.No | | | |
| 1 | Helper/P | 1800/- | 2 |
| | 2 | | |

Total Two (2) posts.



1.0 INTRODUCTION

1.1 Electrical Department:

Electrical Department of Indian Railways is responsible for the operation and maintenance of the Electrical Assets, as well as construction activities involving electrical installations.

Electrical Rolling Stock: Operation and maintenance of Electrical Locomotives, Electrical multiple units and Mainline electrical multiple units.

Electrical Traction Distribution Installations: Operation and Maintenance of Traction Sub-Stations, Switching stations and Traction overhead power supply systems and supervisory control and data acquisition systems.

Electrical General Services: Operation and maintenance of Train Lighting and Air-Conditioning equipment in coaches-Operation and maintenance of HT & LT Power Distribution, standby generators power backup systems, lighting, ventilation, Air-Conditioning, Lifts, Escalators and Pumping in stations, Offices, Workshops, Railway Colonies, Railway Hospitals, Passenger Reservation Systems, Level Crossings Gates etc..

In Southern Railway, power supply for Railway Electric Traction is availed from State Electricity Boards of Tamil Nadu (TANGEDCO), Kerala (KSEB), Andhra Pradesh (APTRANSCO) and the power supply for General Services is availed from State Electricity Board of Karnataka (KPTL) also in addition to the three other State Electricity Boards indicated above.

- 1.2 One of the main departments of the Indian Railways, Electrical department shoulders lot of responsibility in proper operation of railway services. With Railway Electrification on the rise, Electric traction hauls almost 60% of freight traffic and 48% of passenger traffic.
- **1.3** The Electrical department is headed Member/Traction(ex officio Secretary to the Govt. of India) at the Railway Board

level. At the Zonal Level, Principal Chief Electrical Engineer (PCEE) is the Principal Officer of the Electrical Department.Sr.Divisional Electrical Engineer (Sr.DEE) heads the organization at the Divisional Level. He is assisted by DEEs (General, Traction Operation, Traction Distribution & Electrical Locoshed) and ADEEs.

- **1.4** The department, at the Divisional level is divided into a number of functional units vested with one or more of the functions of the department elaborated in the previous paragraphs.
- **1.5** The unit considered for this study, SSE/P/SA of Chennai Division, takes care of General Services maintenance of the assets under its jurisdiction.
- The term Benchmark originates from the chiseled horizonal marks that surveyors made into which an angle iron could be placed to bracket (bench) and leveling rod, thus ensuring that the leveling rod can be repositioned in exactly the same location in future. Bench Marking is also a point of reference for a measurement. It is the process used in management in which organization evaluates various aspects of their process in relation to the best practice usually within their own sector.
- 1.7 Keeping the above aspects in view, the work study team has made an attempt to study the present system of working at SSE/POWER/SA Section, through Benchmarking and need basis as means of reducing cost and right sizing the work force. With increased activity of Outsourcing and further growth of Technology, the work load vs requirement of staff is critically examined in the ensuing chapters.



CHAPTER II

2.0 PRESENT SCENARIO

2.1 Southern Railway has six (6) Divisions namely MAS, MDU, TPJ, PGT, TVC & SA. Electrical Department of SA Division is functioning under the overall control of Sr.DEE/SA who is assisted by DEEs/SA, ADEEs/SA, SSEs and Supervisors in extending Co-operation for smooth and efficient functioning of the Department with sub units/sections. Among the six Divisions, Salem Division comes under the category of Divisions consuming less than 23,00,000 Units.

SSE/ELEC/POWER/SA is In-charge SSE for this section.

2.2 LOCATION OF THE OFFICE OF SSE/ELEC/POWER/SA:

Office of the SSE/ELEC/POWER/SA is located near RRI Cabin of Salem Junction.

2.3 STAFF STRENGTH:

The details of the Sanction, Actual, Vacancy and Excess are given in Page No.Error: Reference source not found as Annexure I.The total sanction is shown as 36 including SSEs and IE.Actual is 28 as per Sr.DPO/SA's list.Actual staff strength according to list of staff position issued SSE/ELEC/POWER/SA dated 16.10.2018. is 35 against sanctioned strength of 40. Work Study team reviews the staff strength based upon the S.A.V.E statement issued Sr.DPO/SA. Hence Sanctioned strength is taken as **36**.

2.4 ORGNISATIONAL SETUP:

| Sr.DEE/SA |
|-------------------|
| DEE/SA |
| ADEE/G/SA |
| SSE/ELEC/POWER/SA |
| JE/ELEC/POWER/SA |
| Sr.Tech/Power |
| Tech I/P |
| Tech II/P |
| Tech III/P |
| Helpers |

2.5 DUTY HOURS & DEPLOYMENT OF STAFF AT VARIOUS PLACES IN THIS SECTION:

The duty hours of the staff of this section is as below:

For SSEs and JE are General & Supervisory.

For Other staff

- a) 06.00 Hrs-14.00 Hrs;
- b) 14.00 Hrs-22.00 Hrs;
- c) 22.00 Hrs-24.00 Hrs& 00.00 Hrs-06.00 Hrs and
- d) 16.00 Hrs-24.00 Hrs& 00.00 Hrs-08.00 Hrs.

2.6 JURISDICTION AND SUB-SECTIONS OF THE SSE/ELEC/POWER/SA:

Jurisdiction of SSE/P/SAis between TPT-MVPM; SA-MTDM and SA-VRI and Sub-Sections of this Unit are

- 1) Salem
- 2) Tirupattur
- 3) Mettur Dam and
- 4) Attur

2.7 JURISDICTION: ROUTE KILOMETRES OF THE SECTION:

This section covers total route kilometers of 326.55. Route Kilometers is as shown below:

| Range of Kms | Kms. Covered |
|---------------------------|--------------|
| 218/32-219/2 to 369/15-17 | 150.85 |
| 00.00 to 37.47 | 37.47 |
| 59.27 to 197.50 | 138.23 |
| Total Section (Kms.) | 0 |

2.8 STATIONS IN THE SSE/ELEC/P/SA'S JURISDICTION:

There are Thirty Eight (38) stations in this Section as listed below.

| S.No. | Station Name | Station Code | At Km. |
|-------|------------------------|-----------------|--------|
| 1 | TIRUPATUR | TPT | 220.40 |
| 2 | KAGANKARAI | KEYR | 231.78 |
| 3 | KUNNATTUR H & IBP | KNNT | 237.28 |
| 4 | SAMALPATTI | SLY | 243.66 |
| 5 | DASAMPATTI | DST | 252.01 |
| 6 | DODDAMPATTI | DPIL | 260.29 |
| 7 | MORAPPUR | MAP | 267.28 |
| 8 | THONGANUR H & IBP | TNG | 273.59 |
| 9 | BUDDIREDDIPATTI | BDY | 279.83 |
| 10 | BOMMIDI | BQI | 289.97 |
| 11 | LOKUR | LCR | 300.04 |
| 12 | DANISHPET | DSPT | 309.35 |
| 13 | TINNAPPATTI | TNT | 316.34 |
| 14 | KARUPPUR | KPPR | 326.35 |
| 15 | MAGNESITE JN. | MGSJ | 329.72 |
| 16 | SALEM JN. | SA | 333.06 |
| 17 | VIRAPANDI ROAD | VRPD | 343.03 |
| 18 | MAGUDANCHAVADI | DC | 353.72 |
| 19 | MAVELIPALAIYAM | MVPM | 366.15 |
| | SALEM JN. | SA | 196.18 |
| 20 | SALEM MARKET | SAMT | 192.06 |
| 21 | SALEM TOWN | SXT | 190.03 |
| 22 | AYODHYAPATTANAM H | APN | 182.00 |
| 23 | MINNAMPALLI | MPLI | 176.39 |
| 24 | VALAPPADI GATE H | VGE | 163.07 |
| 25 | ETTAPUR ROAD | ETP | 155.76 |
| 26 | PEDDANAYAKKANPALAIYAM. | PDKM | 151.70 |
| | Н | | |
| 27 | ATTUR | ATU | 140.98 |
| 28 | TALAIVASAL H | TVS | 122.50 |
| 29 | MELNARIYAPPANUR H | MYLR | 115.30 |
| 30 | CHINNA SALEM | CHSM | 109.25 |
| 31 | SIRUVATTUR H | SRVT | 101.40 |
| 32 | PUKIRAVARI | PRV | 96.91 |
| 33 | KUTTAKUDI H | KKTI | 77.25 |
| 34 | MUKHASA PARUR | MKSP | 68.12 |
| - | SALEM JN. | SA | - |
| - | MAGNESITE JN | MGSJ | - |
| 35 | OMALUR | OML | 7.98 |
| 36 | MECHERI ROAD | MCRD | 24.20 |

| 37 | METTUR DAM | MTDM | 36.91 |
|----|------------|------|-------|
| | | | |

2.9 ASSETS AND INSTALLATIONS:

| 1. No. of stations | | - | 37 |
|----------------------------------------|---|------|------|
| 2. No. of Level crossing gates | | - | 114 |
| (80 manned & 34 unmanned gates) | | | |
| 3. No. of power line crossings | | - | 135 |
| 4. No. of service connections | | - | 207 |
| (2 HT & 205 LT Services) | | | |
| 5. No. of staff Quarters | | - | 1072 |
| 6. No. of service buildings | - | 120 | |
| 7. No. of sub-station | - | 02 | |
| 8. No. of pumps | - | 71 | |
| 9. No. of UPS | - | 63 | |
| 10. No. of generators | - | 19 | |
| (12Port Gen. & 7 Stationary type) | | | |
| 11. No. of Retiring Rooms | - | 04 | |
| 12. No. of ORH | - | 03 | |
| 13. No. of Running Rooms | - | 04 | |
| 14. No. of Rail kalyanamandapam | | - | 01 |
| 15. No. of Transformers | | - | 04 |
| 16. No. of HT earths | - | 35 | |
| 17. No. of LT earths | - | 960 | |
| 18. No. of Lights | - | 6770 | 0 |
| 19. No. of ceiling fans | - | 3210 | 0 |
| 20. No. of Air Circulator Fans | | - | 10 |
| 21. No. of Pre-Cooling Charging Points | - | 10 | |
| 22. No. of Pvt. Stalls | - | 32 | |
| 23. No. of PRS | - | 02 | |
| 24. No. of UTS | - | 29 | |
| 25. Signal Huts | - | 04 | |
| | | | |

2.10 MACHINERIES AND PLANTS:

| S.No | Name of the Assets | Quantit |
|------|--------------------|---------|
| | | у |
| 1 | Transformers | 02 |
| 2 | Generator | 07 |
| 3 | Portable Generator | 12 |
| 4 | UPS | 63 |
| 5 | Posts | 1067 |
| 6 | AC plants | 146 |
| 7 | Water coolers | 08 |
| 8 | Geysers | 77 |
| 9 | High masts | 15 |
| 10 | Tower light | 14 |
| 10 | HT Earths | 35 |
| 11 | LT Earths | 960 |

2.10.1LC GATES IN THE SSE/ELEC/P/SA's JURISDICTION:

There are **Eighty (80)**Manned Level Crossing Gates in the Jurisdiction of SSE/P/SA section, as listed below:

| | DETAILS OF LEVEL CROSSING GATES-SA SECTION | | | | | | |
|-----------|--------------------------------------------|--------------|-----------|--------------|-------------|--|--|
| Sl. No | LC No. | KM | Bet. STN | SC. No. | Remark s | | |
| 1 | 89 | 218/32-219/2 | JTJ-TPT | 414-008-458 | | | |
| 2 | 92 | 226/24-26 | TPT-KEY | 415-004-373 | | | |
| 3 | 93 | 230/8-10 | TPT-KEY | 415-011-40 | | | |
| 4 | 94 | 232/4-6 | KEY YARD | 415-008-49 | | | |
| 5 | 95 | 237/24-26 | KEY-SLY | 186-001-1100 | | | |
| 6 | 97 | 245/24-26 | SLY-DST | 135-017-376 | | | |
| 7 | 101 | 274/4-6 | MAP-BDY | 153-004-222 | | | |
| 8 | 103 | 27/32-34 | BDY YARD | 157-002-21 | | | |
| 9 | 104 | 283/18-20 | BDY-BQI | 157-012-807 | | | |
| 10 | 106/B | 292/9-11 | BQI-LCR | 157-011-471 | | | |
| 11 | 107 | 294/13-15 | BQI-LCR | 155-005-227 | | | |
| 12 | 108 | 309/20-22 | DSPT YARD | 129-012-34 | | | |
| 13 | 109 | 317/15-17 | KPPR-TNT | 140-006-332 | | | |
| 14 | 110 | 326/42-327/2 | KPPR YARD | 458-009-593 | | | |
| 15 | 115 | 337/16-18 | SA-VRPD | 464-003-497 | | | |

| 1.0 | 115/1 | 2/1/6 0 | CA VIDDD | 401 009 1444 |
|-----|-------|-------------------|--------------------|----------------|
| 16 | 115/A | 341/6-8 | SA-VRPD DC-MVPM | 491-002-1444 |
| 17 | 116/C | | | 166-002-179 |
| 18 | 116/E | 362/28-30 | DC-MVPM | 167-005-113 |
| 19 | 1 | 1/0-1 | MGSJ-OML | 460-007-298 |
| 20 | 7 | 6/4-5/ | MGSJ-OML | 126-007-67 |
| 21 | 10 | 9/1-2/ | OML-TOS | 126-009-224 |
| 22 | 11 | 10/2-3/ | OML-TOS | 126-009-700 |
| 23 | 13 | 12/11-12/ | OML-TOS | 461-001-254 |
| 24 | 15 | 15/13-14 | OML-MCRD | 136-001-230 |
| 25 | 16 | 17/1-2/ | OML-MCRD | 136-003-2464 |
| 26 | 17 | 19/14-15 | OML-MCRD | 108-010-953 |
| 27 | 18 | 24/10-11/ | MCRD YARD | 108-011-1057 |
| 28 | 20 | 26/14-15 | MCRD-MTDM | 106-005-1540 |
| 29 | 20/A | 29/4-5/ | MCRD-MTDM | 106-005-1650 |
| 30 | 21 | 31/9-10 | MCRD-MTDM | 106-003-247 |
| 31 | 21/A | 35/3-4 | MCRD-MTDM | 107-001-1503 |
| 32 | 22 | 35/20-36/1 | MCRD-MTDM | 107-011-280 |
| 33 | 23 | 36/7-8 | MCRD-MTDM | 107-011-573 |
| 34 | 187 | 192/400-500 | SAMT-SA | 451-002-207 |
| 35 | 185 | 190/400-500 | SAMT-SXT | 426-002-114 |
| 36 | 184 | 190/300-400 | SAMT-SXT | 426-002-62 |
| 37 | 183 | 189/500-600 | MPLI-SXT | 411-006-318 |
| 38 | 181 | 188/900- 189/0 | MPLI-SXT | 411-006-231 |
| 39 | 180 | 187/700-800 | MPLI-SXT | 411-011-224 |
| 40 | 179 | 187/100-200 | MPLI-SXT | 411-010-1231 |
| 41 | 178 | 186/900- 187/0 | MPLI-SXT | 433-009-977 |
| 42 | 176 | 185/600-700 | MPLI-SXT | 432-007-421 |
| 43 | 175 | 184/900- 185/0 | MPLI-SXT | new connection |
| 44 | 173 | 184/000-100 | MPLI-SXT | 432-013-192 |
| 45 | 171 | 183/200-300 | MPLI-SXT | 431-011-315 |
| 46 | 169 | 182/200-300 | MPLI-SXT | 431-006-217 |
| 47 | 167 | 178/000-100 | MPLI-SXT | 438-006-277 |
| 48 | 159 | 164/600-700 | ETP-MPLI | 526-005-43 |
| 49 | 156 | 163/000-100 | ETP-MPLI | 526-005-42 |
| 50 | 154 | 160/800-900 | ETP-MPLI | 536-005-696 |
| 51 | 153 | 159/700-800 | ETP-MPLI | 536-007-732 |
| | | 157/900- | | |
| 52 | 152 | 158/0 | ETP-MPLI | 536-003-400 |
| 53 | 149 | 154/800-900 | ATU-ETP | 537-004-444 |
| 54 | 145 | 151/600-700 | ATU-ETP | 535-009-3745 |

| 55 | 141 | 147/700-800 | ATU-ETP | | Solar |
|----|-----|-------------|----------|--------------|--------|
| 56 | 137 | 143/300-400 | ATU-ETP | 560-001-354 | |
| 57 | 136 | 142/200-300 | ATU-ETP | 561-001-84 | |
| 58 | 134 | 140/700-800 | ATU-ETP | 561-004-1472 | |
| 59 | 131 | 139/100-200 | CHSM-ATU | 552-005-1140 | |
| 60 | 128 | 133//0-100 | CHSM-ATU | 563-001-1440 | |
| 61 | 126 | 129/800-900 | CHSM-ATU | 563-003-570 | |
| 62 | 124 | 128/0-100 | CHSM-ATU | 563-001-752 | |
| 63 | 122 | 125/900- | | | |
| | | 126/0 | CHSM-ATU | 563-002-1394 | |
| 64 | 121 | 125/300-400 | CHSM-ATU | 563-002-1451 | |
| 65 | 118 | 119/900- | | | |
| 03 | 110 | 120/0 | CHSM-ATU | 566-004-118 | |
| 66 | 115 | 116/300-400 | CHSM-ATU | 566-001-1197 | |
| 67 | 114 | 15/0-100 | CHSM-ATU | 566-002-89 | |
| 68 | 109 | 110/900- | | | |
| 00 | 109 | 111/0 | CHSM-ATU | 561-002-254 | |
| 69 | 108 | 109/600-700 | CHSM-ATU | 560-006-757 | |
| 70 | 107 | 108/400-500 | PRV-CHSM | 560-001-1471 | |
| 71 | 104 | 103/900- | | | |
| /1 | 104 | 104/0 | PRV-CHSM | 564-004-228 | |
| 72 | 100 | 101/700-800 | PRV-CHSM | 563-009-340 | |
| 73 | 97 | 98/700-800 | PRV-CHSM | 563-013-189 | |
| 74 | 96 | 96/500-600 | PRV-CHSM | 563-012-490 | |
| 75 | 92 | 93/200-300 | MKSP-PRV | | Solar |
| 76 | 88 | 88/600-700 | MKSP-PRV | 559-001-472 | |
| 77 | 81 | 82//200-300 | MKSP-PRV | 091-006-372 | |
| 78 | 76 | | MKSP-PRV | 559-012-2 | |
| 79 | 69 | 67/600-700 | VRI-MKSP | 087-007-278 | DG-set |
| 80 | 64 | 59/600-700 | VRI-MKSP | | |

2.10.2DETAILS OF POWER LINE CROSSING IN SSE/P/SA SECTION:

There are One Hundred and Thirty Five (135) Power Line Crossings in this Section, which are enlisted below:

| | DETAILS OF POWER LINE CROSSING IN SSE/P/SA SECTION: | | | | | | | |
|----------|-----------------------------------------------------|--------------------------|-------------------|-------------------|--|--|--|--|
| S.N o | BETWEEN STATIONS | BETWEEN TRACTION MAST | SYSTEM VOLTAGE | OH/UG | | | | |
| 1 | TPT-JTJ | Km218/9-11&10-12 | 33 KV SC | OH below 33 kV | | | | |

| 2 | SLY-DST | km248/6-8 | 33 KV SC | |
|----|---------------|-----------------------|-----------|-------------|
| 3 | TNGR-MAP | Km-272/26-28 | 33KV SC | |
| 4 | BQI-LCR | km294/2-4,D/N | 11KV SC | |
| 5 | DSPT -TNT | km-311/2-4 | 11KV SC | |
| 6 | TNT-KPPR | km324/14-16 | 22KV SC | |
| 7 | SA-SSP-sdg | km SS2/6-7 | 22KV SC | |
| 8 | SA-SSP-sdg | km SS5/15-16 | 22KV SC | |
| 9 | SA-VRPD | km336-26,337/2 | 22kv SC | |
| 10 | VRPD-VBM | Km-346/10-12 | 22KV SC | |
| 11 | VBM-DVBH | km350/ 10-12 | 22KV SC | |
| 12 | DC-MVPM | km354/ 42-44,D/N line | 22KV SC | |
| 13 | DC-MVPM | km358/5-7Up/ line | 22kv SC | |
| 14 | DC-MVPM | km360/13-15,D/N line | 22KV SC | |
| 15 | DC-MVPM | km364/11-13, D/N line | 22KV SC | |
| 16 | MVPM-DC | km364/6-7,Up line | 22KV SC | |
| 17 | MVPM-SGE | Km369/15-17 | 22KV SC | |
| 18 | MGSJ-OML | km3/16-17 | 22KV SC | |
| 19 | OML-TOS | km-8/7-8 | 22KV SC | |
| 20 | MCRD- MTDM | km23/17-18 | 11KV SC | |
| 21 | MCRD- MTDM | km-33/9-10 | 11KV SC | |
| 22 | MCRD- MTDM | km-35/17-18 | 11KV DC | |
| 23 | MTDM- MTPP | Km 1093-94 | 33KV SC | |
| 24 | MCRD- MTDM | km-36/13-14 | 11KV DC | |
| 25 | KNNT-SLY | km240/12-3 | 230 KV SC | |
| 26 | SLY-DST | km249/30-32 | 110 kV SC | |
| 27 | TNGR- MAP | Km268/30-269/2 | 110 kV DC | |
| 28 | TNGR-BDY | km278/15-17 | 110 kV SC | OH above 33 |
| 29 | BBBH-BQI | km285/20-21 | 230 KV SC | kV |
| 30 | BQI-LCR | km289/2-4 | 110 kV SC | 1 X |
| 31 | BQI-LCR | km294/2-4,D/N | 110 kV SC | |
| 32 | KPPR-SA | km328/13-15 | 110 kV SC | |
| 33 | SA-VRPD | km-336/12-14 | 110 kV SC | |

| 34 | SA-VRPD | km226/11/16 | 230 KV SC |
|----|----------------------|----------------------------|------------------------|
| 35 | VRPD-VBM | km336/14-16 km345/4-5 | 400 kV SC |
| 36 | VRPD-VBM VRPD-VBM | km345/5-6 | 400 kV SC 400 kV SC |
| | VRPD-VBM VRPD-VBM | km347/2-4 | 230 KV SC |
| 37 | | <u> </u> | |
| 38 | VBM-DVBH | km347/20-21 | 230 KV SC |
| 39 | DC-MVPM | km360/28-30 D/Nline | 230 KV SC |
| 40 | DC-MVPM | km360/12-14,D/N line | 110 kV SC |
| 41 | DC-MVPM | D/N line,km363/B12-14 | 110 kV SC |
| 42 | DC-MVPM | km 363/B14-16,D/N/line/ | 230 KV SC |
| 43 | DC-MVPM | km363B/22-24 D/N line | 400 kV SC |
| 44 | MVPM-DC | km361/13-15 | 400 kV SC |
| 45 | MVPM-DC | km364/13-15 | 400 kV SC |
| 46 | DC-MVPM | km364/20-22, D/N line | 400 kV SC |
| 47 | MGSJ-OML | km1/5-6 | 110 kV SC |
| 48 | OML-TOS | km13/14-15 | 110 kV SC |
| 49 | OML-TOS | km14/10-11 | 400 kV SC |
| 50 | OML-TOS | km14/15-16 | 400 kV SC |
| 51 | OML-TOS | km14/17-18 | 400 kV SC |
| 52 | MCRD- MTDM | km-29/2-3 | 110 kV SC |
| 53 | MCRD- MTDM | km-30/7-8 | 230 KV SC |
| 54 | MCRD- MTDM | km-30/16-17 | 230 KV SC |
| 55 | SXT/APN | 185/8 | 230 KV SC |
| 56 | VGE/ETP | 157/00-01 | 110KVSC |
| 57 | ATU/TVS | 126/7-8 | 230KVDC |
| 58 | ATU/TVS | 126/7-8 | 220KVDC |
| 59 | ATU/TVS | 126/6-7 | 110KVDC |
| 60 | ATU/TVS | 126/6-7 | 110KVDC |
| 61 | ATU/TVS | 126/5-6 | 110KVDC |
| 62 | ATU/TVS | 126/5-6 | 110KVDC |
| 63 | ATU/TVS | 121/3-4 | 765KVDC |
| 64 | TVS/MLYR | 119/5-6 | 110KVSC |
| 65 | MLYR/CHSM | 113/1-3 | 400KVSC |
| 66 | CHSM/PRV | 107/2-3 | 110KVSC |
| 67 | MKSP/VRI | 62/2-3 | 110KVSC |
| 68 | MKSP/VRI | 60/0-1 | 110KVDC |
| 69 | JTJ-TPT | km218/15-219/1 | 11 Kv SC |

| 70 | עטע אינע | lm991/10 10 | 11 V CC |
|------------------|----------------------|--------------|--------------------|
| 70 | TPT-KEY | km221/18-10, | 11 Kv SC |
| 71 | TPT-KEY | km222/11-12 | 33 KV SC |
| 72 | TPT-KEY, | km229/3-4, | 11 kV SC |
| 73 | TPT-KEY | km231/20-22, | 11 KV SC |
| 74 | KNNY-SLY | km240/4-6 | 440 V |
| 75 7 5 | SLY-DST | km243/34-36 | 33 KV SC |
| 76 | SLY-DST | km247/20-22 | 33 KV SC |
| 77 | DST-DPI | km252/8-9 | 440 V |
| 78 | DST-DPI | KM255/14-12 | 11 KV SC |
| 79 | DPI-MAP | km265/20-22 | 11 KV SC |
| 80 | BDY-BBBH | Km280/15-17 | 11 KV SC |
| 81 | LCR-DSPT | Km300/24-26 | 11 KV SC |
| 82 | SA-VRPD | km339/26-28 | 433v SC/440v |
| 83 | SA-VRPD | Km334/18-20 | 22 kV |
| 84 | SA-VRPD | km335/6-8 | 22 kV |
| 85 | SAMT-SXT | 190/9-10 | 22KV'SC |
| 86 | SAMT-SXT | 190/8-7 | 22KV'SC |
| 87 | SXT-APN | 188/6-7 | 22KV'SC |
| 88 | SXT-APN | 187/3-4 | 22KV'SC |
| 89 | SXT-APN | 185/9-10 | 22KV'SC |
| 90 | SXT-APN | 185/0-1 | 22KV'SC |
| 91 | SXT-APN | 183/6-7 | 22 KV SC |
| 92 | APN-MPLI | 181/5-6 | 440V SC |
| 93 | APN-MPLI | 181/1-2 | 22KV'SC |
| 94 | APN-MPLI | 176/8-9 | 400VSC |
| 95 | MPLI-VGE | 175/4-5 | 22KV'SC |
| 96 | MPLI-VGE | 171/7-8 | 400 V SC |
| 97 | MPLI-VGE | 169/3-4 | 400 V SC |
| 98 | MPLI-VGE | 165/6-7 | 22KV'SC |
| 99 | VGE-ETP | 162/2-3 | 22KV'SC |
| 100 | VGE-ETP | 162/2-3 | 22KV'SC |
| 101 | VGE-ETP | 160/2-3 | 22KV'SC |
| 102 | ETP-PDKM | 156/5-6 | 22KV'SC |
| 103 | ETP-PDKM | 156/4-5 | 22KV'SC |
| 104 | ETP-PDKM | 154/155/0 | 22KV'SC |
| 105 | ETP-PDKM | 152/1-2 | 415VSC |
| 106 | PDKM-ATU | 150/00-1 | 415VSC |
| 107 | PDKM-ATU | 149/0-1 | 22KV'SC |
| 107 | PDKM-ATU | 145/00-1 | 22KV SC |
| 108 | PDKM-ATU | 143/7-8 | 22KV SC |
| 110 | PDKM-ATU | 143/7-8 | 22KV SC 22KV'SC |
| 110 | PDKM-ATU PDKM-ATU | 141/8-9 | 22KV SC 22KV'SC |
| 111 | L DVIM-VI O | 141/0-9 | 22KV 3C |

| 112 | ATU-TVS | 138/9-8 | 22KV'SC |
|-----|-----------|---------|----------|
| 113 | ATU-TVS | 137/9-8 | 440VSC |
| 114 | ATU-TVS | 136/8-9 | 22KV'SC |
| 115 | ATU-TVS | 125/6-7 | 22KV'SC |
| 116 | ATU-TVS | 125/6-7 | 22KV'SC |
| 117 | ATU-TVS | 125/3-4 | 22KV'SC |
| 118 | TVS-MLYR | 119/6-7 | 440VSC |
| 119 | TVS-MLYR | 116/3-4 | 440VSC |
| 120 | MLYR-CHSM | 112/8-9 | 440VSC |
| 121 | MLYR-CHSM | 111/8-9 | 22KV'SC |
| 122 | MLYR-CHSM | 109/6-7 | 22KV'SC |
| 123 | CHSM-PRV | 105/3-4 | 22KV'SC |
| 124 | CHSM-PRV | 105/0-1 | 440VSC |
| 125 | CHSM-PRV | 103/4-5 | 440VSC |
| 126 | CHSM-PRV | 101/4-5 | 440VSC |
| 127 | KKTI-MKSP | 74/8-9 | 11KVSC |
| 128 | KKTI-MKSP | 74/9-10 | 11KVSC |
| 129 | KKTI-MKSP | 73/9 | 11KVSC |
| 130 | KKTI-MKSP | 73/9 | 11KVSC |
| 131 | KKTI-MKSP | 71/5-6 | 440VSC |
| 132 | KKTI-MKSP | 70/1-2 | 11KVSC |
| 133 | MKSP-VRI | 67/6-7 | 440 VSC |
| 134 | MKSP-VRI | 66/6-7 | 11KVSC |
| 135 | MKSP-VRI | 64/1-2 | 22 KV SC |

2.10.3STAFF QUARTERS: SSE/E/SA has been entrusted to maintain and service of One Thousand and Seventy Two(1072) staff quarters.

DETAILS OF STAFF QUARTERS:

| S.No | Station | Type-I | Type-II | Type-III | Type-IV | Type-V | Total |
|------|---------|--------|---------|----------|---------|--------|-------|
| 1 | SA | 89 | 272 | 40 | 26 | 10 | 437 |
| 2 | MVPM | 10 | 1 | 2 | 0 | 0 | 13 |
| 3 | VBM | 0 | 1 | 0 | 0 | 0 | 1 |
| 4 | LC-116E | 2 | 0 | 0 | 0 | 0 | 2 |
| 5 | DC | 16 | 3 | 0 | 0 | 0 | 19 |
| 6 | VRPD | 8 | 3 | 0 | 0 | 0 | 11 |
| 7 | SAMT | 25 | 4 | 0 | 0 | 0 | 29 |
| 8 | OML | 5 | 3 | 0 | 0 | 0 | 8 |
| 9 | MCRD | 4 | 4 | 0 | 0 | 0 | 8 |

| 10 | MTDM | 57 | 39 | 4 | 2 | 0 | 102 |
|----|-------|-----|-----|----|----|----|------|
| 11 | KPPR | 6 | 6 | 0 | 0 | 0 | 12 |
| 12 | TNT | 3 | 3 | 1 | 0 | 0 | 7 |
| 13 | DSPT | 9 | 2 | 2 | 0 | 0 | 13 |
| 14 | LCR | 12 | 10 | 0 | 0 | 0 | 22 |
| 15 | BQI | 36 | 22 | 4 | 0 | 0 | 62 |
| 16 | BDY | 13 | 2 | 2 | 0 | 0 | 17 |
| 17 | TNGR | 0 | 1 | 0 | 0 | 0 | 1 |
| 18 | MAP | 24 | 7 | 3 | 0 | 0 | 34 |
| 19 | DPI | 12 | 1 | 0 | 0 | 0 | 13 |
| 20 | DST | 10 | 4 | 0 | 0 | 0 | 14 |
| 21 | SLY | 25 | 21 | 3 | 1 | 0 | 50 |
| 22 | KNNT | 10 | 2 | 0 | 0 | 0 | 12 |
| 23 | KEY | 12 | 1 | 1 | 0 | 0 | 14 |
| 24 | MOLK | 0 | 2 | 0 | 0 | 0 | 2 |
| 25 | TPT | 32 | 43 | 11 | 4 | 0 | 90 |
| 26 | SXT | 0 | 8 | 1 | 0 | 0 | 9 |
| 27 | ETP | 6 | 2 | 0 | 0 | 0 | 8 |
| 28 | PDKM | 1 | 2 | 1 | 0 | 0 | 4 |
| 29 | ATU | 22 | 9 | 5 | 1 | 0 | 37 |
| 30 | TVS | 0 | 0 | 1 | 0 | 0 | 1 |
| 31 | CHSM | 14 | 2 | 2 | 0 | 0 | 18 |
| 32 | SRVT | 1 | 0 | 0 | 0 | 0 | 1 |
| 33 | PRV | 0 | 0 | 1 | 0 | 0 | 1 |
| 7 | Total | 464 | 480 | 84 | 34 | 10 | 1072 |

2.10.4SUB-STATION DETAILS:

There aretwo 22 KV Sub-Stations catering to the needs of Salem Junction and Salem Divisional Office area, functioning with 2 transformers each, each one's capacity being 250 KVA at Salem Junction & 500 KVA at Salem Divisional Office Area. Details of the Transformers are tabled below:

| Transformer | Sub-St | ation A | Sub-Station B | | |
|----------------------|------------|------------|---------------|------------|--|
| Transformer | I | II | I | II | |
| Location | SA | SA | SA | SA | |
| Date of energization | 12.12.1987 | 02.01.1988 | 02.07.2012 | 02.07.2012 | |
| | Indo-Tech | Indo-Tech | Indo-Tech | Indo-Tech | |
| Make | Electro- | Electro- | Transform | Transforme | |
| | Chennai | Chennai | er Ltd | r Ltd | |

| Capacity | 250 KVA | 250 KVA | 500 KVA | 500 KVA |
|---------------------|--------------|---------------|---------------|---------------|
| Phase | 3 PHASE | 3 PHASE | 3 PHASE | 3 PHASE |
| Cycle | 50 HZ | 50 HZ | 50 HZ | 50 HZ |
| Voltage primary | 22 KV | 22 KV | 22 KV | 22 KV |
| Voltage secondary | 433V | 433V | 433 V | 433 V |
| Vector group | Dy-11 | Dy-11 | Dy-11 | Dy-11 |
| HT tapping's at | 2 | 2 | 1 | 1 |
| Amper HT | 6.56A | 6.56A | 13.12A | 13.12A |
| Amper LT | 333.3A | 333.3A | 666.69A | 666.69A |
| Impedance voltage | 4.74% | 4.74% | 5% | 4.50% |
| Nett. Wt. with oil | 1475 Kg | 1475 Kg | 2200 Kg | 2200 Kg |
| Thermometer | Yes | Yes | Yes | Yes |
| Type of cooling | Oil Cooled | Oil Cooled | Oil Cooled | Oil Cooled |
| Makers serial No | IT 11948 | IT 11947 | IT 43456 | IT 43457 |
| Yr.of Manufacturing | 1987 | 1987 | 2009 | 2009 |
| Max. temperature | 50· C | 50 · C | 50 · C | 50 · C |

2.10.5PUMP DETAILS:

There are Seventy One (71) pumpsin this section, maintained by SSE/P /SA.

| | Details of Pump under SSE/E/SA Jurisdiction | | | | | | | | |
|-------|---------------------------------------------|----------------|--------------|-------|-----|-------|--|--|--|
| S.No. | STATION | LOCATION | CPTY.(in HP) | TYPE | QTY | Total | | | |
| | | Asiriyarnagar | 12.5 HP | Sub | 1 | | | | |
| | | New GLR | 3 HP, 5 HP | Cent. | 2 | | | | |
| 1 | TPT | New BORE | 5 HP | Sub | 1 | 8 | | | |
| 1 | 111 | Old GLR | 5 HP, 5 HP | Cent. | 2 | 0 | | | |
| | | Institute Bore | 5 HP | Sub | 1 | | | | |
| | | Station Bore | 5 Hp | Sub | 1 | | | | |
| 2 | KEY | Bore Well | 2HP/1 | Sub | 1 | 1 | | | |
| 3 | CIV | TRD borewell | 5 Hp | Sub | 1 | | | | |
| ა | SLY | Station Bore | 5 Hp | Sub | 1 | 2 | | | |
| 4 | DST | Bore Well | 5 Hp | Sub | 1 | 1 | | | |
| 5 | DPI | Bore Well | 2 HP | Sub | 1 | 1 | | | |
| | MAD | Station Bore | 2HP/1 | Sub | 1 | 2 | | | |
| 6 | MAP | Old Bore | 5 Hp | Sub | 1 | Z | | | |
| 7 | BDY | Bore Well | 2HP/1 | Sub | 1 | 1 | | | |
| | | New Bore | 5 Hp | Sub | 1 | | | | |
| 8 | BQI | Old Bore | 2HP/1 | Sub | 1 | 4 | | | |
| | , | GLR | 2HP/1, 3HP | Cent. | 2 | | | | |
| 9 | LCR | Bore Well | 5 Нр | Sub | 1 | 1 | | | |
| 10 | DSPT | Bore well | 2HP/1 | Sub | 1 | 1 | | | |
| 11 | TNT | Bore Well | 5 Hp | Sub | 1 | 1 | | | |

| 10 | *************************************** | D 747 11 | | 0.1 | | | |
|----|-----------------------------------------|--------------------|---------------|-------|-------|----------|--|
| 12 | KPPR | Bore Well | 5 Hp | Sub | 1 | 1 | |
| 13 | SAMT | Bore Well | 2HP/1 | Sub | 1 | | |
| | | Bore Well | 1.5HP/1 | Sub | 1 | 2 | |
| | | Old IOW office | 2HP/1 | Sub | 1 | | |
| | | Ballast yard | 5 HP | Sub | 1 | | |
| | | Old IOW office | 12.5 HP | Cent | 1 | | |
| | | GLR | | | | | |
| | | Amravati SRH | 10 HP | Sub | 1 | | |
| | | W/C Colony | 5 HP | Sub | | | |
| | | Bore | F IID | 0 | 1 | | |
| | | W/C GLR | 5 HP | Cent. | 1 | | |
| | | W/C new GLR | 10 HP | Cent. | 1 | | |
| | | Station Sub | 3 HP | Sub | 1 | | |
| | | way Station Sub | | Sub- | 1 | | |
| | | | float | 2 | | | |
| 14 | SA | E/C Borewell | 5 HP | Sub | 1 | 22 | |
| 14 | SA | E/C GLR | 12.5 | Cent. | 1 | | |
| | | E/C 256 block | 12.5 | Cent. | | | |
| | | borewell | 2HP/1 | Sub | 1 | | |
| | | E/C 256 block | | | | | |
| | | GLR | 5 HP | Cent. | 1 | | |
| | | E/C 255 block | | | | | |
| | | | GLR | 5 HP | Cent. | 1 | |
| | | Officer Enclave | 2HP/1 | Sub | 1 | | |
| | | E/C-Div. office- | | | | | |
| | | GLR | 5 HP | Cent. | 3 | | |
| | | TRD office | 5 HP | Sub | 1 | | |
| | | E/C-Div. office- | 011D /1 F 11D | C . 1 | 0 | | |
| | | Garden Bore | 2HP/1,5 HP | Sub | 2 | | |
| 15 | VRPD | Bore well | 3 HP | Sub | 1 | 1 | |
| 16 | DC | Bore well | 5HP | Sub | 1 | 1 | |
| 17 | MTDM | GLR | 5 HP | Cent. | 2 | 2 | |
| | OML | Bore Well | 5HP | Sub | 1 | 3 | |
| 18 | OIVIL | GLR | 3HP,2 HP/1 | Cent. | 2 | <u> </u> | |
| | | Bore well | 1-1 HP | Sub | 1 | | |
| 19 | SXT | Bore well | 1-2 HP | Sub | 1 | 4 | |
| 17 | SA1 | Bore well | 1-2 HP | Sub | 1 | 4 | |
| | | Bore well | 3-5 HP | Sub | 1 | | |
| 20 | Yercaud | open well | 3-5 HP | Sub | 1 | 1 | |
| 21 | MPLI | Bore well | 1-2 HP | Sub | 1 | 1 | |
| 22 | ETP | Bore well | 1-2 HP | Sub | 1 | 1 | |
| | | Bore well | 1-2 HP | Sub | 1 | | |
| | | Bore well | 1-2 HP | Sub | 1 | | |
| 23 | ATU | Bore well | 3-3 HP | Sub | 1 | 5 | |
| 23 | AIU | Bore well | 3-5HP | Sub | 1 | | |
| | | · · | | | | | |

| 25 | CHSM PRV | Bore well Bore well | 3-2 HP 1-2 HP | Sub | 1 | 1 | |
|----------|-------------|---------------------|------------------|------------|---|---|--|
| 26 27 | MKSP | Bore well | 1-2 HP | Sub Sub | 1 | 1 | |
| | Total | | | | | | |

2.10.6BOREWELLS:There are 48 wells in the Jurisdiction of SSE/E/SA.

| S.No | Station | Location | BW/OL | Capacity (HP) | BL/OL Depth (M) |
|------|---------|--------------------------------------|--------------------|------------------|-----------------------|
| | | Asiriyarnagar | Bore Well | 12.5 HP | 120 |
| 1 1 | TPT | New BORE | Bore Well | 5 HP | 120 |
| 1 | 171 | Institute Bore | Bore Well | 5 HP | 120 |
| | | Station Bore | Bore Well | 5 HP | 120 |
| 2 | KEY | Bore Well | Bore Well | 2HP/1Ø | 90 |
| 3 | SLY | TRD borewell | Bore Well | 5 HP | 90 |
| 3 | SLI | Station Bore | Bore Well | 5 HP | 180 |
| 4 | DST | Bore Well | Bore Well | 5 HP | 90 |
| 5 | DPI | Bore Well | Bore Well | 2 HP | 90 |
| (| MAP | Station Bore | Bore Well | 2HP/1Ø | 90 |
| 6 | MAP | Old Bore | Bore Well | 5 HP | 90 |
| 7 | BDY | Bore Well | Bore Well | 2HP/1Ø | 54 |
| 8 | DΩI | New Bore | Bore Well | 5 HP | 78 |
| 0 | BQI | Old Bore | Old Bore Bore Well | | 78 |
| 9 | LCR | Bore Well | Bore Well | 5 HP | 108 |
| 10 | DSPT | Bore well | Bore Well | 2HP/1Ø | 108 |
| 11 | TNT | Bore Well | Bore Well | 5 HP | 108 |
| 12 | KPPR | Bore Well | Bore Well | 5 HP | 108 |
| 13 | CANTT | Bore Well | Bore Well | 2HP/1Ø | 108 |
| 13 | SAMT | Bore Well | Bore Well | 1.5HP/1Ø | 102 |
| | | Old IOW office | Bore Well | 2HP/1Ø | 140 |
| | | Ballast yard | Bore Well | 5 HP | 108 |
| 14 | | Amravati Supervisor rest house | Bore Well | 10 HP | 140 |
| 14 | SA | W/C Colony Bore | Bore Well | 5 HP | 108 |
| | | E/C Borewell | Bore Well | 5 HP | 108 |
| | | E/C 256 block borewell | Bore Well | 2HP/1Ø | 90 |
| | | Officer Enclave | Bore Well | 2HP/1Ø | 90 |

| | | TRD office | Bore Well | 5 HP | 120 |
|----|------|---------------------------------|-----------|---------|-----|
| | | E/C-Div. office- Bore | | 5 HP | 108 |
| | | E/C-Div. office- Garden Bore | Bore Well | 2HP/1Ø | 90 |
| 15 | VRPD | Bore well | Bore Well | 3 HP | 90 |
| 16 | DC | Bore well | Bore Well | 5HP | 140 |
| 18 | OML | Bore Well | Bore Well | 5HP | 108 |
| | | Bore well | Bore Well | 1Ø-1 HP | 90 |
| 10 | CVT | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 19 | SXT | Bore well Bore Well 1Ø-2 | | 1Ø-2 HP | 90 |
| | | Bore well | Bore Well | 5HP | 120 |
| 20 | MPLI | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 21 | ETP | Bore well | Bore Well | 1Ø-2 HP | 90 |
| | | Bore well | Bore Well | 1Ø-2 HP | 90 |
| | | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 22 | ATU | Bore well | Bore Well | 3 HP | 108 |
| | | Bore well | Bore Well | 5HP | 120 |
| | | Bore well | Bore Well | 6 HP | 140 |
| 23 | TVS | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 24 | CHSM | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 26 | PRV | Bore well | Bore Well | 1Ø-2 HP | 90 |
| 27 | MKSP | Bore well | Bore Well | 1Ø-2 HP | 90 |

2.10.7UPS@UTS LOCATIONS:
UPS is provided for at the following 29UTS locations in this section.

| | UPS at UTS location | | | | | | | | | |
|------|---------------------|-------------------|-------------------|------------|-----------------------------|----------|---------|--|--|--|
| S.No | Stn.Code | Code Station Name | | UPS No. | Back UP Time (Mts) | DOI | | | | |
| 1 | SAMT | SALEM MARKET | Е | I091503272 | 130 | 7.8.09 | | | | |
| 1 | SAMI | SALEM MARKET | Ľ | I091503295 | 130 | 7.8.09 | | | | |
| 2 | OMI | OML OMALUR | Е | I091503263 | 130 | 28.7.09 | | | | |
| | OML | | | I091503292 | 130 | 28.7.09 | | | | |
| 3 | MCDD MECHEDI DOAD | MCRD MECHERI ROAD | MODD MEGHEDI DOAD | Е | I091704194 | 130 | 13.8.09 | | | |
| ა | MCKD | MECHERI ROAD | L L | I091704195 | 130 | 13.8.09 | | | | |
| 1 | MTDM | METTID DAM | Е | I091704210 | 130 | 31.8.09 | | | | |
| 4 | MTDM | METTUR DAM | L L | I091704225 | 130 | 31.10.13 | | | | |
| 5 | VRPD | VEERAPANDI | Е | I091503282 | 130 | 24.7.09 | | | | |

| | | | I091503298 | 130 | 24.7.09 |
|-------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC | | E | | | 16.3.10 |
| DC | ADI | IO9 | | 130 | 16.3.10 |
| MWPM | MAVELLIPALAY | F | I091503260 | 130 | 14.3.10 |
| 101 0 1 101 | AM | ъ | I091503267 | 130 | 14.3.10 |
| тлт | THIMMADDATTI | E | I091704196 | 130 | 6.2.10 |
| 11/1 | IIIINNAFFAITI | E | I091704197 | 130 | 6.2.10 |
| рерт | DANICHDET | E | 1092305503 | 130 | 6.2.10 |
| DSF1 | DANISHPET | E | 1092305506 | 130 | 6.2.10 |
| I CD | IONID | E | 1092305518 | 130 | 8.2.10 |
| LCK | LUKUK | E | I092305526 | 130 | 8.2.10 |
| DDV | BUDDIEREDDIP | Б | I092305492 | 130 | 13.2.10 |
| BDI | ATTI | E | 1092305507 | 130 | 31.10.13 |
| DDI | | г | I092305496 | 130 | 16.2.10 |
| ואע | MAMIALLI | E | 1092305509 | 130 | 16.2.10 |
| ъст | DAGAN (DA TITI | | I091704202 | 130 | 15.2.10 |
| DST | DASAMPATTI | E | I092305498 | 130 | 15.2.10 |
| 07.77 | 0.43.64 X D 4 FFFT | | I091704212 | 130 | 18.2.10 |
| SLY | SAMALPATTI | E | I092305523 | 130 | 18.2.10 |
| ***** | | _ | I092305516 | 130 | 19.2.10 |
| KEY | KAKKANKARAI | E | I092305519 | 130 | 19.2.10 |
| 207 | 201 0 021 | | I092305493 | 130 | 11.2.10 |
| RÓI ROWWIDI D | BQI BOMMIDI | I092305511 | 130 | 11.2.10 | |
| SXT | Salem Town | D | I091503262 | 130 | 16.7.09 |
| SA | SALEM- II ENTRY | A | I091503277 | 130 | 16.7.09 |
|) (DII | 3.6. 11. | | I091503280 | 130 | 21.7.09 |
| MPLI | Minnampalli | E | I091503289 | 130 | 21.7.09 |
| AFRIT | | | I091503275 | 130 | 17.7.09 |
| ATU | Attur | ע | I091503297 | 130 | 17.7.09 |
| 07707.6 | 01. | | I091503264 | 130 | 23.07.09 |
| CHSM Chinna Salem D | D | | 130 | 23.07.09 | |
| | | _ | + | 130 | 12.8.09 |
| ETP | Ethapur Road | E | | | 14.7.12 |
| | Pethanaikkanpa | | + | | 16.10.12 |
| PDKM | layam | E | | | 16.10.12 |
| | | _ | | | 19.12.11 |
| MKSP | Mukhasaparur | E | | | 19.12.11 |
| | | _ | | | 23.11.12 |
| TPT | Tiruppatthur | D | | | 23.11.12 |
| PRV | Pukkaravari | Е | | 130 | 19.12.11 |
| | SXT SA MPLI ATU CHSM ETP PDKM MKSP TPT | MVPM MAVELLIPALAY AM TNT THINNAPPATTI DSPT DANISHPET LCR LOKUR BDY BUDDIEREDDIP ATTI DPI DODDAMPATTI DST DASAMPATTI SLY SAMALPATTI KEY KAKKANKARAI BQI BOMMIDI SXT Salem Town SA SALEM-II ENTRY MPLI Minnampalli ATU Attur CHSM Chinna Salem ETP Ethapur Road PDKM Pethanaikkanpa layam MKSP Mukhasaparur TPT Tiruppatthur | MVPM MAVELLIPALAY AM TNT THINNAPPATTI E DSPT DANISHPET E LCR LOKUR E BDY BUDDIEREDDIP ATTI E DPI DODDAMPATTI E DST DASAMPATTI E SLY SAMALPATTI E KEY KAKKANKARAI E BQI BOMMIDI D SXT Salem Town D SXT Salem Town D SXT SALEM-II E HNTRY A MPLI Minnampalli E ATU Attur D CHSM Chinna Salem D ETP Ethapur Road E PDKM Pethanaikkanpa layam MKSP Mukhasaparur E TTT Tiruppatthur D | DC MAGUDENCHAV ADI E I091704229 MVPM MAVELLIPALAY AM E I091503260 TNT THINNAPPATTI E I091503267 TNT THINNAPPATTI E I091704196 DSPT DANISHPET E I092305503 LCR LOKUR E I092305526 BDY BUDDIEREDDIP ATTI E I092305492 BDY ATTI E I092305507 DPI DODDAMPATTI E I092305509 DST DASAMPATTI E I092305509 SLY SAMALPATTI E I092305509 SLY SAMALPATTI E I092305523 KEY KAKKANKARAI E I092305516 I092305519 I092305516 I092305516 SXT Salem Town D I091503262 SA SALEM-II A I091503262 SA ENTRY A I091503270 MPLI Minnampalli E I09150 | DC MAGUDENCHAV ADI E 1091704229 130 MVPM MAVELLIPALAY AM E 1092305520 130 TNT THINNAPPATTI E 1091503267 130 DSPT THINNAPPATTI E 1091704196 130 DSPT DANISHPET E 1092305503 130 LCR LOKUR E 1092305506 130 BDY BUDDIEREDDIP ATTI E 1092305518 130 BDY BUDDIEREDDIP ATTI E 1092305507 130 DPI DODDAMPATTI E 1092305507 130 DST DASAMPATTI E 1092305509 130 SLY SAMALPATTI E 1091704202 130 KEY KAKKANKARAI E 1091704212 130 BQI BOMMIDI D 1092305516 130 SXT Salem Town D 1092305511 130 SX SALEM-II A 1091503262 13 |

| | | | | | 130 | 19.12.11 |
|-----|--------------------|-------------|---|------------|---------|----------|
| 9.7 | 27 KPPR Karuppur E | Б | | 130 | 6.2.10 | |
| 2/ | | rk Karuppur | | | 130 | 6.2.10 |
| 20 | 00 1417 14 | D | | 130 | 13.2.10 | |
| 28 | MAP | Morappur | D | | 130 | 31.10.13 |
| 20 | SA | SA SALEM | A | I091703988 | 90 | 2.9.09 |
| 29 | | | | I091703994 | 90 | 2.9.09 |

2.10.8UPS@PRS LOCATIONS:

UPS is provided for at the following 2 locations in this section.

| Sl. No | Locat- ion Code | Location Name | C A t | UPS No. | Backup Time (Mts) | DOI |
|-----------|-----------------------|------------------|-------------|----------------|-------------------------|----------|
| 1 | SA | Salem Junction | Α | I091703996 | 90 | 02.09.09 |
| | | | | I091703998 | 90 | |
| 2 | SXT | Salem Town | - | II100907258II1 | 130 | 28.01.11 |
| | | | | 10100515 | 130 | |

2.10.9DIESEL GENERATORS:

There are 7 (Seven) Diesel Generators under the jurisdiction of SSE/P/SA. Details of which are tabled below:

| Sl.No. | | | | IV |
|----------|-------|---------|-------|------|
| 10 | | SA Sub- | | |
| Location | Stn.A | Stn.B | Stn.B | Room |

2.10.10POWER SERVICE CONNECTION TO OUTSIDERS:

Forty Six(46) Outsiders within Railway Premises are provided with Service Connection from Railway Power Service, details of which are tabulated below:

| S.N o | Stn/Location | Name of Outsider | AuthorityAvb l. | Consumptio n Units | Stn |
|----------|---------------------------------------------|-------------------------------------------|--------------------|-----------------------|-----|
| 1 | SA (PF-IV | Catering Stall &Bakery (Malarvizhi) | Yes | 350 | SA |
| 2 | SA (Near IOW Office Salem) | Cycle Stand | Yes | 90 | SA |
| 3 | SA (PF-IV | Milk Stall | Yes | 400 | SA |
| 4 | outside Salem station | ATC booth | Yes | 20 | SA |
| 5 | PF-IV Salem station | Snacks and travel Accessories | Yes | 400 | SA |
| 6 | Near Cash Office,PF-III Salem Station | Surya Food AVM | Yes | 200 | SA |
| 7 | Near HI office | Surya Food AVM | Yes | 95 | SA |

| | Near AC waiting | Cumro Food | | | |
|-----|-------------------------------|-----------------------|----------|------|------------|
| 8 | Hall, Salem | Surya Food AVM | Yes | 50 | SA |
| | Station | 11 / 1/1 | | | |
| 9 | Near TLF | Surya Food | Yes | 350 | SA |
| 9 | room ,PF -IV Salem Station | AVM | ies | 330 |) SA |
| | Near Telephone | | | | |
| 10 | Exchange, | Surya Food | Yes | 210 | SA |
| | Salem Junction | AVM | | | |
| 11 | PF-IV Salem | Higginbotham' | Yes | 50 | SA |
| | station | s Book Stall | | | |
| 12 | PF-IV Salem station | AC waiting Hall | Yes | 2040 | SA |
| 13 | Near ATC Booth | Deluxe toilet | Yes | 570 | SA |
| | Near TLF | Fruit and Fruit | 100 | 070 | 011 |
| 14 | room ,PF -IV | Juice Stall | Yes | 980 | SA |
| | Salem Station | · | | | |
| 15 | PF-IV Salem | VRR | Yes | 1900 | SA |
| | station | | | 1700 | |
| 16 | PF-III & IV, | Pay &use | Yes | 70 | SA |
| | salem station | Toilet | | | |
| 17 | PF-I Salem Station | Pay &use Toilet | Yes | 110 | SA |
| 10 | PF-III & IV, | | V | 000 | CA |
| 18 | salem station | NVRR | Yes | 800 | SA |
| | | VINAYAGA | | | |
| 19 | outside Salem | MISSION | Yes | 90 | SA |
| | station Near GRP,PF-IV | HOSPITAL Salem child | | | |
| 20 | Salem station | line | Yes | 20 | SA |
| 0.1 | PF-IV Salem | | | 0100 | G.4 |
| 21 | station | Railtel | Yes | 3100 | SA |
| 22 | Near parcel | New RMS | Yes | 4380 | SA |
| | office | office | | 1000 | 011 |
| 23 | PF-I, Salem | Child Help | Yes | 70 | SA |
| 24 | station PF-III & IV, SA | desk Battery car | Yes | 60 | SA |
| 25 | SA Station | Murali ads | Yes | 4530 | SA |
| 26 | SA Station | RailtelWifi | Yes | 1100 | SA |
| 27 | Divisional office | canteen | Yes | 330 | SA |
| 28 | | Saraswati | Yes | 140 | SA |
| | E/C Salem | school | | | |
| 29 | E/C Salem | LEO office | Yes | 40 | SA |
| 30 | BQI MAP | Catering Stall GRP | Yes | 90 | BQI MAP |
| 32 | MAP | Cycle Stand | Yes | 50 | MAP |
| | IATLIT | Cycle Stallu | 103 | | IATL |

| 33 | TPT | GRP | | 110 | TPT |
|----|----------------------------|---------------------------------|-----|-----|-----|
| 34 | TPT | Cycle Stand | Yes | 65 | TPT |
| 35 | SXT | Canara bank atm | Yes | 290 | SXT |
| 36 | PF-V salem railway station | Catering Stall- thamaraikani | Yes | 220 | SA |
| 37 | SXT | Pay &use Toilet | Yes | 30 | SXT |
| 38 | PF- IV, SA | GRP | Yes | 630 | SA |
| 39 | PF-III, SA | Cleaning room | Yes | 20 | SA |
| 40 | Divisional office | Cleaning room | Yes | 20 | SA |
| 41 | Near running room | SRMU OFFICE | Yes | 100 | SA |
| 42 | div. office compound | SRMU OFFICE | Yes | 60 | SA |
| 43 | div. office ground floor | SRMU OFFICE | Yes | 150 | SA |
| 44 | div. office compound | sc-st office | Yes | 40 | SA |
| 45 | div. office compound | AIOBC office | Yes | 20 | SA |
| 46 | Officers club | near ac auditorium | Yes | 110 | SA |

2.10.11TEMPORARY POWER SUPPLY:

Power supply to private parties or contractors, in connection with Railway Works is being provided based upon instructions by the Divisional Authorities. Details of such temporary power supply from *September '2018* is listed below:

Total Consumption Units by Outsiders -September'18 -24750 Units.

| S. | Name of the | Supply | Phas | Related Work | |
|-----|----------------------|----------|--------|------------------------|--|
| No. | Contractor | @ | e | | |
| 1 | M/s.Gayathri | Back | Single | SCADA Annexure | |
| | Constructions | side of | | Building | |
| | | Div.Ofc. | | | |
| 2 | Thangamani | Portabl | Single | Engineering Zonal Work | |
| | | e Meter | | | |
| 3 | M/s Merit BMH | Mcrd | Single | OHE Constructions | |
| | Engineering Pvt.Ltd. | Station | | | |
| 4 | Power Electrical | Portabl | Single | New Wiring | |
| | | e Meter | | | |

2.10.12AC PLANTS:

There are One Hundred and Forty Six (146) AC Plants functioning in this Section. Details are enlisted below:

| S.No | Station | Location | Capacity (Ton) | Туре | Quantity |
|------|---------|---------------------|-------------------|------------------------------|----------|
| 1 | TPT | Running room | 2 | Inverter type Split plant | 7 |
| 2 | TPT | Tele. exchange | 1.5 | window type | 1 |
| 3 | SLY | VFR | 1.5 | window type | 2 |
| 4 | DST | UHF | 1.5 | window type | 2 |
| 5 | BQI | VFR | 1.5 | window type | 2 |
| 6 | LCR | UHF | 1.5 | window type | 2 |
| 7 | OML | UHF | 1.5 | window type | 2 |
| 8 | MTPP | Running room | 1.5 | window type | 3 |
| 9 | OML | Running room | 2 | Inverter type Split plant | 5 |
| 10 | SAMT | FOIS | 1.5 | window type | 1 |
| 11 | SA | Running room | 1.5 | Inverter type Split plant | 14 |
| 12 | SA | TTE REST ROOM | 1.5 | Inverter type Split plant | 3 |
| 13 | SA | VIP LAUNGE- PF-4 | 1.5 | window type | 2 |
| 14 | SA | VIP LAUNGE- PF-1 | 1.5 | SPLIT TYPE | 1 |
| 15 | SA | PRS | 1.5 | Inverter type Split plant | 2 |
| 16 | SA | VFR | 1.5 | Inverter type Split plant | 1 |
| 17 | SA | RETIRING ROOM | 1.5 | SPLIT TYPE | 3 |
| 18 | SA | RELAY ROOM | 1.5 | SPLIT TYPE | 2 |
| 19 | SA | RELAY ROOM | 1.5 | Inverter type Split plant | 2 |
| 20 | SA | Tele. exchange | 1.5 | Inverter type Split plant | 2 |
| 21 | SA | Health unit | 1.5 | Inverter type Split plant | 1 |
| 22 | SA | CMS/Health unit | 1.5 | SPLIT TYPE | 1 |
| 23 | SA | ADEN/south | 1.5 | Inverter type Split plant | 1 |

| | | | | | 1 |
|----|----|----------------------------------|-----|------------------------------|----|
| 24 | SA | Old ORH/East colony | 1.5 | Inverter type Split plant | 2 |
| 25 | SA | DRM saloon | 1 | SPLIT TYPE | 3 |
| 26 | SA | New AC auditorium | 1.5 | SPLIT TYPE | 18 |
| 27 | SA | New AC auditorium | 2 | SPLIT TYPE | 4 |
| 28 | SA | new ORH/east colony | 2 | Inverter type Split plant | 6 |
| 29 | SA | DRM bungalow | 1.5 | SPLIT TYPE | 2 |
| 30 | SA | DRM cabin | 1.5 | SPLIT TYPE | 1 |
| 31 | SA | DRM cabin | 1.5 | Inverter type Split plant | 1 |
| 32 | SA | old div. office/ Safety class | 1.5 | SPLIT TYPE | 1 |
| 33 | SA | Old div. office/ meeting room | 1.5 | SPLIT TYPE | 1 |
| 34 | SA | Sr. DFM cabin | 1.5 | Inverter type Split plant | 1 |
| 35 | SA | ADFM-I cabin | 1.5 | Inverter type Split plant | 1 |
| 36 | SA | ADFM-II cabin | 1.5 | Inverter type Split plant | 1 |
| 37 | SA | ACM cabin | 1.5 | Inverter type Split plant | 1 |
| 38 | SA | Sr.DCM cabin | 2 | SPLIT TYPE | 1 |
| 39 | SA | DCM cabin | 1.5 | window type | 1 |
| 40 | SA | DPO cabin | 1.5 | Inverter type Split plant | 1 |
| 41 | SA | APO-I cabin | 1.5 | SPLIT TYPE | 1 |
| 42 | SA | APO-II cabin | 1.5 | SPLIT TYPE | 1 |
| 43 | SA | DSC cabin | 1.5 | Inverter type Split plant | 1 |
| 44 | SA | DPO server room | 1.5 | SPLIT TYPE | 1 |
| 45 | SA | DRM cabin | 1.5 | SPLIT TYPE | 1 |
| 46 | SA | DSO cabin | 1.5 | Inverter type Split plant | 1 |
| 47 | SA | Sr. DOM cabin | 1.5 | SPLIT TYPE | 1 |
| 48 | SA | DOM cabin | 1.5 | Inverter type Split plant | 1 |
| 49 | SA | CRIS room | 1.5 | SPLIT TYPE | 2 |
| 50 | SA | ADEE/G cabin | 1.5 | SPLIT TYPE | 1 |

| 51 | SA | DSTE cabin | 1.5 | Inverter type Split plant | 1 | |
|-------|----|----------------------------------------------------|-----|------------------------------|---|--|
| 52 | SA | ADSTE cabin | 1.5 | SPLIT TYPE | 1 | |
| 53 | SA | Sr. DSTE cabin | 1.5 | Inverter type Split plant | 1 | |
| 54 | SA | DATA logger room | 1.5 | SPLIT TYPE | 2 | |
| 55 | SA | Sr. DEE/TRD | 1.5 | SPLIT TYPE | 1 | |
| 56 | SA | DEE/G cabin | 1.5 | SPLIT TYPE | 1 | |
| 57 | SA | Audit officer room | 1.5 | Inverter type Split plant | 1 | |
| 58 | SA | DEE/ operating | 1.5 | SPLIT TYPE | 1 | |
| 59 | SA | Sr. DEN/Co ord | 1.5 | SPLIT TYPE | 1 | |
| 60 | SA | DEN/WEST | 1.5 | SPLIT TYPE | 1 | |
| 61 | SA | DEN/EAST | 1.5 | SPLIT TYPE | 1 | |
| 62 | SA | DEN Central | 1.5 | Inverter type Split plant | 1 | |
| 63 | SA | DMM cabin | 1.5 | Inverter type Split plant | 1 | |
| 64 | SA | Sr. DME cabin | 1.5 | SPLIT TYPE | 1 | |
| 65 | SA | ADEE/TRD | 1.5 | Inverter type Split plant | 1 | |
| 66 | SA | Div. office- First floor(control section) | 5.5 | package type | 3 | |
| 67 | SA | Div. office- First floor(DRM section) | 5.5 | package type | 3 | |
| 68 | SA | Div. office- First floor(control section) | 11 | package type | 1 | |
| 69 | SA | Div. office- First floor(DRM section) | 11 | package type | 1 | |
| 70 | SA | Old div. office multipurpose room | 5.5 | package type | 3 | |
| Total | | | | | | |

2.10.13WATER COOLERS IN THIS SECTION:

Eight(8) Water Coolers (listed as below) are being maintained by the SSE/P/SA, which are installed for the use by the General Public.

| S.No. | Station | PF No. | Capacity (Ltrs.) | Quantit |
|-------|---------|------------------|------------------|--------------|
| | | | | \mathbf{y} |
| 1 | TPT | 1 | 250 | 1 |
| 2 | BQI | 1 | 250 | 1 |
| 3 | MAP | 1 | 250 | 1 |
| 4 | CHSM | 1 | 250 | 1 |
| 5 | SA | 3,4,5 | 250 | 4 |
| | | 3,4,5 & & Others | | |
| | 8 | | | |

2.10.14DETAILS OF GEYSERS OF THIS SECTION:

In this section, Seventy Seven (77) Geysers are maintained by SSE/P/SA.

| S.No | Station | Quantity |
|-------|---------|----------|
| • | | |
| 1 | TPT | 2 |
| 2 | MTDM | 2 |
| 3 | OML | 2 |
| 4 | SA Area | 71 |
| TOTAL | | 77 |

2.10.15FIRE EXTINGUISHERS:

There are Twenty Two (22) Fire Extinguishers are available in this section under the control of SSE/P/SA, to be used in case of Fires, Fire related accidents.

| S. No. | Station | Location | No. of FEs |
|--------|---------|-------------------------|------------|
| 1 | Salem | Sub-Station I | 4 |
| 2 | Salem | Sub-Station II | 4 |
| 3 | Salem | DRM Office Ground Floor | 2 |
| 4 | Salem | DRM Office First Floor | 2 |

| 5 | Salem | DRM Office Second Floor | 2 |
|-------|-------|-------------------------|----|
| 6 | Salem | Switch Room @PF 1 | 2 |
| 7 | Salem | TLF Room | 2 |
| 8 | Salem | Emergency Light Room | 2 |
| 9 | Salem | Spare @ SSE/P/SA Office | 2 |
| Total | | | 22 |

2.10.16ROLLING INSPECTION LIGHT DETAILS:

Rolling Inspection lights are provided for the use of Train Lighting staff at SA and maintained by SSE/P/SA.

| S.No. | Location | Capacity | No.of | Type of |
|-------|--------------|----------|----------|----------|
| | | | Fittings | Fittings |
| 1 | PF 1 JTJ End | 500 W | 2 | Halogen |
| 2 | PF 2 JTJ End | 500 W | 2 | Halogen |
| 3 | PF 3 JTJ End | 500 W | 2 | Halogen |
| 4 | PF 4 JTJ End | 500 W | 2 | Halogen |
| 5 | PF 5 JTJ End | 500 W | 2 | Halogen |
| 6 | PF 1 ED End | 500 W | 2 | Halogen |
| 7 | PF 2 ED End | 500 W | 2 | Halogen |
| 8 | PF 3 ED End | 500 W | 2 | Halogen |
| 9 | PF 4 ED End | 500 W | 2 | Halogen |
| 10 | PF 5 ED End | 500 W | 2 | Halogen |
| | | Total | 20 | |

2.10.17ELECTRICAL ASSETS Like Lights, Fans, Water Coolers, Lifts & _Escalators:

| Sl. No. | Station | No of Lights | No of Fans | No of Escalators | No. of lifts |
|------------|--------------------------|-----------------|---------------|---------------------|--------------------|
| 1 | Mavelipalayam | 40 | 10 | 0 | 0 |
| 2 | Magudanchavadi | 39 | 9 | 0 | 0 |
| 3 | DVBH Signaling Hut | 7 | 3 | 0 | 0 |
| 4 | Virapandi road | 40 | 10 | 0 | 0 |
| 5 | Salem | 2050 | 810 | 2 | 7 |
| 6 | Salem Market | 50 | 15 | 0 | 0 |
| 7 | magnesite Block stations | 25 | 10 | 0 | 0 |
| 8 | omalur | 60 | 30 | 0 | 0 |

| 9 | mecheri road | 40 | 10 | 0 | 0 |
|-------|--------------------|-----|----|---|---|
| 10 | mettur DAM | 80 | 30 | 0 | 0 |
| 11 | Mettur Thermal | 45 | 20 | 0 | 0 |
| 12 | Karuppur | 40 | 10 | 0 | 0 |
| 13 | Tinnapati | 39 | 9 | 0 | 0 |
| 14 | Danishpet | 41 | 11 | 0 | 0 |
| 15 | Lokur | 40 | 10 | 0 | 0 |
| 16 | Bommidi | 70 | 15 | 0 | 0 |
| 17 | ВВВН | 7 | 3 | 0 | 0 |
| 18 | Budderipatty | 40 | 10 | 0 | 0 |
| 19 | Tongunur | 4 | 1 | 0 | 0 |
| 20 | moruppur | 70 | 15 | 0 | 0 |
| 21 | Dodampatti | 41 | 10 | 0 | 0 |
| 22 | Dasampatti | 39 | 9 | 0 | 0 |
| 23 | Samalpatti | 50 | 13 | 0 | 0 |
| 24 | Kanuttur | 40 | 10 | 0 | 0 |
| 25 | kakankari | 40 | 10 | 0 | 0 |
| 26 | Molkarpatti | 3 | 1 | 0 | 0 |
| 27 | Tirupattur | 110 | 50 | 0 | 0 |
| 28 | Salem Town | 50 | 18 | 0 | 0 |
| 29 | Ayodhyapattanam | 40 | 10 | 0 | 0 |
| 30 | Minampalli | 40 | 9 | 0 | 0 |
| 31 | Valappdi Jn Halt | 5 | 2 | 0 | 0 |
| 32 | Ettapur Road | 40 | 10 | 0 | 0 |
| 33 | Pedanayakanpalayam | 38 | 8 | 0 | 0 |
| 34 | Attur | 70 | 30 | 0 | 0 |
| 35 | Thalaivasal | 20 | 5 | 0 | 0 |
| 36 | Melnariyapanur | 20 | 5 | 0 | 0 |
| 37 | Chinna Salem | 50 | 15 | 0 | 0 |
| 38 | Siruvattur | 20 | 7 | 0 | 0 |
| 39 | Pukkiravari | 40 | 10 | 0 | 0 |
| 40 | Kuttakudi | 15 | 5 | 0 | 0 |
| 41 | Mukhsaparur | 50 | 15 | 0 | 0 |
| 42 | All LC Gates | 800 | 80 | 0 | 0 |
| Total | | 0 | 0 | 2 | 7 |

2.10.18LAMP POST POPULATION IN THIS SECTION:

| S. no. | Station | No of Meter Box | No of Rail Post | No of stay insul ators | No tub ular Posts | No of High Masts | No of Poles | No. of Tower |
|-----------|--------------------------|-----------------------|-----------------------|---------------------------------|----------------------------|------------------------|----------------|--------------------|
| 1 | Mavelipalayam | 2 | 7 | 5 | 13 | 0 | 20 | 0 |
| 2 | Magdunchavadi | 2 | 6 | 6 | 14 | 0 | 20 | 0 |
| 3 | DVBH Siganalling Hut | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Virapandi road | 2 | 6 | 6 | 15 | 0 | 21 | 0 |
| 5 | Salem | 10 | 40 | 20 | 67 | 9 | 116 | 4 |
| 6 | Salem Market | 2 | 7 | 7 | 14 | 4 | 25 | 0 |
| 7 | magnesite Block stations | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | omalur | 3 | 7 | 5 | 15 | 0 | 22 | 0 |
| 9 | meccheri road | 2 | 7 | 5 | 15 | 0 | 22 | 0 |
| 10 | mettur DAM | 6 | 20 | 10 | 40 | 0 | 60 | 0 |
| 11 | MetturThermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Karuppur | 2 | 6 | 6 | 15 | 0 | 21 | 0 |
| 13 | Tinnapatti | 3 | 7 | 5 | 14 | 0 | 21 | 0 |
| 14 | Danishpet | 2 | 6 | 6 | 15 | 0 | 21 | 0 |
| 15 | Lokur | 2 | 6 | 6 | 15 | 0 | 21 | 0 |
| 16 | Bommidi | 5 | 20 | 10 | 25 | 1 | 46 | 0 |
| 17 | ВВВН | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | Budderipatty | 2 | 7 | 5 | 18 | 0 | 25 | 0 |
| 19 | Tongunur | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | moruppur | 5 | 20 | 10 | 15 | 1 | 36 | 0 |
| 21 | Dodampatti | 2 | 7 | 7 | 14 | 0 | 21 | 0 |
| 22 | Dasampatti | 2 | 6 | 5 | 15 | 0 | 21 | 0 |
| 23 | Samalpatti | 3 | 5 | 5 | 15 | 0 | 20 | 0 |
| 24 | Kanuttur | 2 | 6 | 6 | 10 | 0 | 16 | 0 |
| 25 | kakankari | 2 | 5 | 5 | 15 | 0 | 20 | 0 |
| 26 | Molkarpatti | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Tirupattur | 6 | 25 | 15 | 25 | 1 | 51 | 0 |
| 28 | Salem Town | 3 | 8 | 5 | 15 | 0 | 23 | 0 |
| 29 | Ayodhyapattanam | 2 | 6 | 6 | 15 | 0 | 21 | 0 |
| 30 | Minaampalli | 2 | 7 | 6 | 15 | 0 | 22 | 0 |
| 31 | Valappdi Jn Halt | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | Ettapur Road | 2 | 7 | 6 | 22 | 0 | 29 | 0 |
| 33 | Pedanayakanpalayam | 3 | 7 | 5 | 21 | 0 | 28 | 0 |
| 34 | Attur | 5 | 20 | 10 | 25 | 1 | 46 | 0 |
| 35 | Talaivasal | 1 | 2 | 2 | 1 | 0 | 3 | 0 |

| 36 | Melnariyapanur | 1 | 1 | 1 | 2 | 0 | 3 | 0 |
|----|----------------|----|-----|-----|-----|----|-----|---|
| 37 | Chinna Salem | 4 | 15 | 5 | 20 | 0 | 35 | 0 |
| 38 | Siruvattur | 2 | 5 | 2 | 10 | 0 | 15 | 0 |
| 39 | Pukkiravari | 3 | 7 | 5 | 10 | 0 | 17 | 0 |
| 40 | Kuttakudi | 0 | 1 | 1 | 1 | 0 | 2 | 0 |
| 41 | Mukhasaparur | 3 | 7 | 7 | 10 | 0 | 17 | 0 |
| 42 | All LC Gates | 80 | 40 | 20 | 120 | 0 | 160 | 0 |
| | Total | | 359 | 236 | 691 | 17 | 0 | 4 |

2.11 DETAILS OF ANNUAL MAINTAINENCE CONTRACT (AMC):

2.11.1AMC DETAILS:

| AMC DETAILS | | | | | | | | |
|-------------|-----------------------------------|----------------------------------------|--------------------------------------|---------------|--|--|--|--|
| Sl. No. | AMC for | AMC Awarded | No. of Items Included | Expiry of AMC | | | | |
| 1 | Lorry | M/s Muthukumar contractor | 1 no. 05 Tonne lorry | 06.10.2019 | | | | |
| 2 | Lift/Escalator manning | M/s Lotus Facility service -Chennai | 02nos. lift and 02 nos. Escalator | 06.06.2020 | | | | |
| | | 3. | 04 nos. DG-set, | | | | | |
| 3 | 3 DG set M/s. Zat Generate | | 10 nos. portable DG set | 06.10.2019 | | | | |
| 4 | AC plant- | M/s Coolvin Ac | 02 nos.11 tonne package type, | 31.03.2021 | | | | |
| 4 | Package type | Works | 09 nos. 5.5 tonne package type | | | | | |
| | 40.1 |) (P | 13 nos. 1.5 tonne Window type, | | | | | |
| 5 | AC plant- split/window type | M/s Everest engineering Salem | 01 no. 02 tonne split type, | 31.08.2021 | | | | |
| | турс | balem | 33 nos. 1.5 Tonne Split type | | | | | |
| 6 | Lift for DRM office | M/s. Johnson Lift private Ltd | 02 nos. Lift | 30.06.2019 | | | | |
| 7 | Lift for platforms | M/s. Johnson Lift private Ltd | 02 nos. lift | 03.12.2018 | | | | |

| 8 | Lift for Type IV Quarters | M/s. Johnson Lift private Ltd | 02 nos. lift | 31.01.2020 |
|---|------------------------------|----------------------------------|--------------|------------|
| 9 | Lift for Type V Quarters | M/s. Johnson Lift private Ltd | 01 no. lift | 31.03.2019 |

2.11.2 AMC FOR DG-SET:

LIST OF DG-SET FOR AMC:

| Sl no. | Station/ Location | Capacity in KVA | AMC Effect From |
|--------|---------------------|--------------------|--------------------|
| 1 | SA Sub-station-II | 250 | 07.10.2016 |
| 2 | SA/Sub-station-II | 62.5 | 07.10.2016 |
| 3 | SA/Sub-station-I | 160 | 07.10.2016 |
| 4 | Omalur Running room | 10 | 07.10.2016 |
| 5 | UTS/SXT | 2.1 | 07.10.2016 |
| 6 | PRS/SXT | 2.1 | 07.10.2016 |
| 7 | UTS/MPLI | 2.1 | 07.10.2016 |
| 8 | UTS/ETP | 2.1 | 07.10.2016 |
| 9 | UTS/ATU | 2.1 | 07.10.2016 |
| 10 | UTS/PDKM | 2.1 | 07.10.2016 |
| 11 | UTS/CHSM | 2.1 | 07.10.2016 |
| 12 | UTS/PRV | 2.1 | 07.10.2016 |
| 13 | UTS/MKSP | 2.1 | 07.10.2016 |
| 14 | Spare at SSE/E/SA | 2.1 | 07.10.2016 |

2.11.3At present, AMC is not in effect for UPS

2.12 ACTIVITIES OF SSE/POWER/SA SECTION:

2.12.122 KV/433V SUB-STATION/SA:

Maintenance of HT structure, HT earth, Ballast yard, Dropout fuse assembly, AB switch, 4 pole structure etc. This sectionthree HT structures and two Sub-stations, maintaining four transformer on monthly, Quarterly, half yearly and Yearly basis. ACBs, Distribution Panel and DG-setsat Sub-stations are maintained periodically. Meter reading noted down daily and closely monitored. Power

Supply is distributed on essential and non-essential basis, 30 kwp Solar plant in the field is maintained and closely monitored.

2.12.2PUMP HOUSE/PUMPS:

This section has Seventy (70) pumps of various types and capacities for interrupted water supply for staff Quarters, Station Buildings, Service Buildings, Platforms and more importantly for usage by Passengers. Continuous power supply to the pumps and pumphouse are maintained for smooth running of Pumps and their maintenance is also taken care of.

2.12.3STATION BUILDINGS AND PLATFORMS:

There are Forty (40) number of Stations, where following activities are performed to upkeep the assets:

- Based upon complaints received failure maintenance is attended for lamp posts, lights, ceiling fans, Switches, Sockets, UPS, AT Panel, Batteries, Air circulator fans water coolersetc.
- Procurement and commissioning of the above is done.
- Monitoring of 1/3 and 2/3 lighting circuiting.
- Periodical cleaning of LT earth pits, checking of earth resistance values and duly marking on them.
- Attention of Power Line Crossings.

2.12.4ACTIVITIES AT LC GATES:

The following work activities are performed by the staff at the manned Level Crossing Gates (80) in this section.

- Ensuring power supply either from TNEB or Solar Panel.
- Failure maintenance of lights and fans acting upon the complaints received from Gatemen or Station Master of the concerned station.
- Maintenance of LT earth for safety.

2.12.5PRS CENTRE& UTS CENTRE:

There are Eight (8) UPS with batteries installed at Two (02) PRS Centers, Five (05) IUTS Centres&Twenty Nine (29) UTS

Centresin this section. Activities at these Centers are enlisted below:

- Regular &Failure maintenance of UPS with batteriesperiodical cleaning, checking & greasing of battery terminals and periodical changeover of UPS etc.
- Regular and Failure maintenance of DG Set- filling of Lube Oil and Rope Cut Failure etc.
- Regular and Failure Maintenance of AC Plant, Supply, UPS, Batteries, Fans and Lighting.

2.12.6ACTIVITIES CONCERNED WITH AT/CLS PANEL:

- Ensuring EB supply toAUTO TRANSFORMER (AT) Panels (42).
- Ensuring of 1 FL and 1 Fan in working condition through AT supply at Station Master's Room/Office.
- Ensuring of AT supply to UTS counters.
- Ensuring emergency lights in FOB and Shelter (AT Supply) station.
- Ensuring of EB supply to CLS Panels.

2.12.7PRE-COOLING CHARGING OF AC COACHES:

- There are Ten (10) pre-cooling charging points provided for pre-cooling the AC Coaches maintained by Power wing staff.
- There is one (01) Secondary maintenance Rake and DRM Saloon, which needs to be charged daily.

2.12.8HIGH MAST LIGHTS AT GOODS SHED, STATION CIRCULATING AND APPROACH ROAD AREA:

In this section seventeen (17) high mast lights. Lighting arrangement Lighting is installed for all approach road areas of Thirty Eight (38) stations.

2.12.9ACTIVITIES RELATING TO STAFF QUARTERS:

There are 1072 Staff Quarters inclusive of DRM bungalow, ADRM bungalow, available in this Section.

Occupation: On production of proper requisition/ allotment orders from the competent authority, occupation of quarters is recorded in the registers maintained for the purpose; duly extending the power supply to that quarters. Handing over of electrical assets e.g. Meter Board, FL Fittings, Ceiling Fans, Switch Boards and Wirings.

Maintenance: Assets and installations in the Quarters, Quarters area and Colony areas are maintained as per maintenance schedule. Failures are duly attended as per complaints of the occupant.

Vacation of Staff Quarters: Based upon the proper requisition /Vacation Order from the competent authority, process of vacation is initiated. Power Supply is disconnected for the quarters and all the Assets and Installations handed over to occupant are removed from the quarters and Entry is made in the registers concerned.

2.13 ATTENTION OF FAILURES/COMPALINTS BY THE STAFF OF SSE/P/SA:

Failure attention is one of the major activity of SSE/P/SA. Number of failures attended Power Staff year wise from January'2016 to September'2018 are tabled below:

| S.No | Nature of failures | 2016 | 2017 | 2018 |
|------|---------------------------------------|------|------|------|
| 1 | Fan Failure | 1830 | 1850 | 960 |
| 2 | No of light failure in staff quarters | 3610 | 3640 | 1850 |
| 3 | No of failure in service buildings | 1840 | 1880 | 960 |
| 4 | Fan checking | 3110 | 3190 | 1590 |
| 5 | No of light failure in platform | 800 | 810 | 420 |
| 6 | Structure Maintenance | 36 | 36 | 36 |
| 7 | 7 Yard light failures | | 50 | 27 |
| 8 | Earth checking | 850 | 960 | 520 |

| 9 | Outstations Complaints | 230 | 250 | 150 | | | | | |
|-------------------------------------|-----------------------------------------------------------|------|------|------|--|--|--|--|--|
| 10 | LC Gate Complaints | 880 | 890 | 460 | | | | | |
| 11 | Solar Water heaters failures and attentions | 70 | 75 | 35 | | | | | |
| 12 | Pump House Maintenance | 360 | 380 | 180 | | | | | |
| 13 | LT Board Maintenance | 110 | 120 | 70 | | | | | |
| 14 | Lights and fans cleaning | 4990 | 5040 | 2590 | | | | | |
| 15 | Emergency light failure attention | 35 | 40 | 30 | | | | | |
| 16 | AT panel maintenance | 505 | 510 | 260 | | | | | |
| 17 | UPS maintenance | 780 | 780 | 400 | | | | | |
| 18 | Additional wirings and light provision | 105 | 115 | 60 | | | | | |
| 19 | High Mast lights failures | 100 | 120 | 65 | | | | | |
| 20 | Outstation staff quarters attentions | 1780 | 1800 | 920 | | | | | |
| 21 | Private stalls and other services Maintenances | 530 | 540 | 280 | | | | | |
| 22 | Cable failures and attentions | 35 | 40 | 25 | | | | | |
| 23 | Additional fan provisions | 100 | 110 | 70 | | | | | |
| 24 | platforms Pre-Cooling & battery chargers checking | 140 | 150 | 80 | | | | | |
| 25 | ICM shed Maintenances | 0 | 0 | 0 | | | | | |
| 26 | Capacitors KVArh checking | 0 | 0 | 0 | | | | | |
| 27 | Pit line lights gantry and cat walk | 0 | 0 | 0 | | | | | |
| 28 | LVT & Battery chargers checking | 0 | 0 | 0 | | | | | |
| 29 | Temporary & Advertisement electrical /supply connections. | 65 | 72 | 40 | | | | | |
| | TOTAL 0 23448 | | | | | | | | |
| | TOTAL FOR 33 MONTHS | | | | | | | | |
| AVERAGE FAILURE ATTENTION PER MONTH | | | | | | | | | |
| | AVERAGE FAILURE ATTENTION PER DAY | | | | | | | | |

2.14 CONSUMPTION OF ELECTRICAL UNITS IN SSE/POWER/SA: Summary of Energy Consumption:

| S. N o | SERVICES/MONTH | LC Gates-LT | Quarters-LT | Pumps-LT | Station-LT | PRS/ MBPM+GOOD SHED-(LT) | HT/SA-STN | HT/SA-DIV. OFFICE | HT/SA-QRS | MONTHLY TOTAL |
|--------------|----------------|-------------|-------------|----------|------------|--------------------------------|-----------|----------------------|-----------|---------------|
| 1 | Sept18 | 56997 | 73198 | 4750 | 56997 | 7100 | 79280 | 52120 | 4200 | 334642 |
| 2 | Aug18 | 35981 | 49653 | 920 | 35981 | 13120 | 76460 | 48841 | 3959 | 264915 |
| 3 | july18 | 65291 | 71464 | 4400 | 65291 | 6330 | 66180 | 48841 | 3959 | 331756 |
| 4 | June18 | 35935 | 57751 | 670 | 35935 | 16502 | 74280 | 45654 | 3986 | 270713 |
| 5 | May-18 | 53980 | 74833 | 4720 | 53980 | 6940 | 78380 | 47402 | 4918 | 325153 |
| 6 | Apr-18 | 45376 | 60798 | 270 | 45376 | 13216 | 71420 | 61032 | 5298 | 302786 |
| 7 | Mar-18 | 45960 | 63906 | 4090 | 45960 | 7820 | 63320 | 42500 | 3260 | 276816 |
| 8 | Feb18 | 31490 | 53014 | 5060 | 31490 | 10120 | 48160 | 59443 | 3053 | 241830 |
| 9 | Jan18 | 55576 | 65180 | 4358 | 55576 | 8500 | 46400 | 58338 | 2942 | 296870 |
| 10 | Dec17 | 34286 | 63100 | 300 | 34286 | 11180 | 48300 | 60347 | 3053 | 254852 |
| 11 | Nov17 | 54965 | 76005 | 4360 | 54965 | 8350 | 56060 | 66042 | 3598 | 324345 |
| 12 | Oct17 | 36500 | 73630 | 830 | 36500 | 10020 | 62860 | 57585 | 3975 | 281900 |
| 13 | Sept17 | 58315 | 79176 | 5310 | 58315 | 10180 | 64480 | 61046 | 4034 | 340856 |
| 14 | Aug17 | 35710 | 73297 | 1320 | 35710 | 17130 | 58500 | 69580 | 3660 | 294907 |
| 15 | july17 | 55860 | 85264 | 6570 | 55860 | 9040 | 59320 | 74915 | 3405 | 350234 |
| 16 | Jun-17 | 34954 | 75175 | 2930 | 34954 | 9484 | 64000 | 75074 | 4086 | 300657 |
| 17 | May-17 | 55080 | 85616 | 6230 | 55080 | 11610 | 63180 | 75864 | 4776 | 357436 |
| 18 | Apr-17 | 37920 | 80523 | 3840 | 37920 | 10746 | 63640 | 76571 | 5349 | 316509 |
| 19 | Mar-17 | 58710 | 77876 | 4680 | 58710 | 9150 | 52800 | 64321 | 3479 | 329726 |
| 20 | Feb17 | 35715 | 63974 | 2740 | 35715 | 10980 | 52860 | 66064 | 2696 | 270744 |
| 21 | Jan17 | 56225 | 77228 | 4130 | 56225 | 10360 | 53460 | 67803 | 2757 | 328188 |
| 22 | Dec16 | 39760 | 73208 | 4490 | 39760 | 10540 | 52280 | 60584 | 2936 | 283558 |
| 23 | Nov16 | 64592 | 82612 | 4619 | 64592 | 10400 | 61120 | 71385 | 3215 | 362535 |
| 24 | Oct16 | 26920 | 78801 | 2430 | 26920 | 9470 | 60840 | 67875 | 3645 | 276901 |
| 25 | Sept16 | 9408 | 85155 | 5310 | 51850 | 11030 | 65820 | 71460 | 3900 | 303933 |
| 26 | Aug16 | 10520 | 82568 | 3020 | 36000 | 8220 | 63000 | 75923 | 4037 | 283288 |
| 27 | july16 | 9655 | 86043 | 6250 | 50610 | 13740 | 58060 | 70897 | 3743 | 298998 |
| 28 | Jun-16 | 11150 | 78098 | 1510 | 41340 | 10020 | 66980 | 65474 | 3966 | 278538 |
| 29 | May-16 | 10324 | 90176 | 7190 | 51254 | 15710 | 80000 | 54627 | 4453 | 313734 |
| 30 | Apr-16 | 10377 | 68190 | 1860 | 39640 | 10236 | 86220 | 55636 | 4524 | 276683 |
| 31 | Mar-16 | 9504 | 87549 | 7350 | 47640 | 13740 | 74260 | 48527 | 3553 | 292123 |
| 32 | Feb16 | 10335 | 102820 | 3500 | 35693 | 8295 | 72300 | 46906 | 2925 | 282774 |
| 33 | Jan16 | 9977 | 78986 | 8150 | 49390 | 15380 | 65960 | 42795 | 2925 | 273563 |
| 34 | Dec15 | 10932 | 72691 | 1090 | 34608 | 6340 | 57200 | 41271 | 3089 | 227221 |
| 35 | Nov15 | 9435 | 85172 | 6860 | 54070 | 14600 | 58920 | 42270 | 3570 | 274897 |

| 36 | Oct15 | 11473 | 83465 | 250 | 33290 | 6090 | 62160 | 42263 | 3565 | 242556 |
|----|-------------------------------------------------------|---------|---------|--------|---------|--------|---------|---------|--------|----------|
| | Sub-Total | 1235188 | 2716195 | 136357 | 1637483 | 381689 | 2288460 | 2137276 | 134489 | 10667137 |
| | TOTAL ENERGY CONSUMPTION FOR 36 MONTHS: 10667137Units | | | | | | | | | |
| | TOTAL ENERGY COSUMPTION/MONTH: 296309Units | | | | | | | | | |

2.15 DUTIES PERFORMED IN THIS SECTION:

2.15.1DUTIES PERFORMED BY THE STAFF OF SSE/P/SA:

- Arrangement of Power Supply to the Whole Section
- Pumps are being operated wherever Station Staff are not specifically deputed for that purpose and maintenance of all pumps in this section.
- Operating AT Panels and Maintenance in this whole section.
- Electrical Maintenance of all Staff Quarters including DRM Bungalow and Officer's Quarters.
- Correspondence with TNEB.
- Maintenance of DG Set and Transformers, which are not included in the AMC.
- Maintenance of AC Plants and Water Coolers, which are not included in the AMC.
- Lighting and Power Supply arrangements during Special Functions held at Divisional Offices.
- Observations of power line crossings.
- Maintenance of Solar Water Heaters and Geysers, which are not included in the AMC.
- Observation and Solar Panel and Plant.
- Electrical maintenance of all Stations, LC Gates, Service Buildings including DRM Office.

- Electrical maintenance of all UPS at UTS, PRS and Divisional Office.
- Attending to Electrical works when Vacation and Occupation of Quarters.
- Maintaining and attending fuse calls in co-ordination with EB.
- Handing over bill receipts and collecting acknowledgements for the same.
- Initiating penalty for late payment of the Power Bills.
- Fan OH work.
- Monthly meter reading in Staff Quarters, Outsider supply and private stalls, to post in EMIS module for recovery.
- Collection of materials from stores and firms.
- Frequently used items e.g.FL, Choke, PVC Tape, HSD Oil and Lube Oil are procured from imprest cash duly obtaining special sanction.

2.15.2DUTIES OF SSE/ELECTRICAL:

- Observation of the rules and circulars issued by the CEE from time to time and ensuring that all the staffs under his charge updated with relevant rules and working method and efficiently performing their allotted duties.
- Inspection notes of higher authorities are duly received and immediate action to be initiated.
- Looking after the day to day maintenance activities of all electrical items in SA section.
- Looking after the maintenance, operation and utilization of all electrical assets related to electrical energy in their area of jurisdiction.
- Maintaining all the stores activities like as indenting the indents, collection of materials for section, attention of purchase order (P.O.), challan.
- Attention of daily positions of all parameters which is installed in the section.

- Attending major complaints like pump, transformer failure etc.
- Regular inspection of ongoing departmental work and contractors work in the section.
- Conducting Inspection periodically-routine, night and surprise inspection.
- Welfare measures to the staff- Issuance of PASS/PTO, other Forms/Applications etc.
- Regular maintenance of Registers and Files.
- Deployment of staff for lookout duties as and when necessary.
- Updating section assets records.
- Preparation of monthly statements, preparation of outsider and temporary supply meter reading statement.
- Proposal for new work.
- Inspection of all power line crossings.
- Conducting of Safety Check Drive of Ceiling Fans in all quarters, Stations Service Buildings and Shelter Areas once in a year.

Joint inspection

- Joint inspection of CLS Panel with SSE/Signal, once in a year.
- Joint inspection of CLS Panel with SSE/Tele, once in a year.
- Joint inspection of CLS Panel with SSE/PSI, once in a year.
- Joint inspection with SSE/Works- Qrs. New Buildings, once in a year.
- Joint Inspection with CCI & TI in regard to their departmental assets requiring power supply& UPS.
- Joint Inspection of the Station Premises of SA, with SIG Group: SS, SSE/Works, TI, SSE/SIG, RPF, CCI.
- Joint Inspection with CCI- Cycle stands, Private stalls, Commercialoffices, Advertisements & Hoardings which require Power, Sign Boards etc.

Stores

- Preparation of indent and collection of materials for maintenance purpose.
- Preparation of indents as pre-section requirement.
- Certification of bills and returns of supplied materials.

- Updating of Daily Book of Receipt (DBR) and Daily Book of Issues (DBI).
- Updating Revenue, Consumable, released and T&P ledgers.
- Preparation of returns of stores for T&P, Revenue, consumables and released ledgers.
- Preparation of DS8 to dispose scrap & DS8 of materials
- Sending letters regarding sectional requirements to divisional office.
- Issue of materials to staff for maintenance.
- Managing and coordinating with various inspecting officials from stores, personnel, accounts, audit etc.
- Preparation of challans for materials issued.
- Self-stock verification.

2.15.3DUTIES OF TECHNICIAN/POWER:

(Specific) Looking after the Efficient maintenance of all the existing installations is in good and working condition and also ensures that all the safety appliances related to the works spot is in good and working condition and they work on site with 2 or 3 nos. of Helpers according to the distribution of work/failure which is distributed by the SSE/JE.

2.16 SPECIAL WORKS ATTENDED BY SSE/P/SA AND STAFF:

- All Electrical Work Including Second Entry Opening for Salem Junction.
- Power Supply and Lighting arrangement during Independence Day, Republic Day and Salem Day. Etc.

2.17 OUTSOURCING:

- All Lifts, Escalators, DG Set, AC Plants are maintained by the AMC Staff.
- There is one (1) lorry on contract basis with a carrying capacity of 05 Ton available for usage at this Unit.



CHAPTER III

3.0 CRITICAL ANALYSIS

3.1 GENERAL ANALYSIS:

Indian Railway is the biggest transportation Service Industry and largest employer owned by the Government of India. Operation ratio of Indian Railwaysis quite high reaching 96.9% last year, its worst in 16 years, previous worst being 98% in the year 2000-01, estimated at 92.8% for 2018-19. Operating ratios of Indian Railways is tabulated as under:

| Year | 20 | 200 | 200 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 2018- |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | 07- | 8- | 9- | 10- | 11- | 12- | 13- | 14- | 15- | 16- | 17- | 19 |
| | 80 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| Oper | 75. | 90. | 95. | 94. | 94. | 90. | 93. | 91. | 90. | 94. | 96. | 92.8 |
| ating | 94 | 46 | 28 | 59 | 85 | 19 | 6 | 3 | 05 | 09 | 90 | (Estim |
| Ratio | | | | | | | | | | | | ated) |
| (%) | | | | | | | | | | | | |

Generally Operating Ratio of 80% or lower is considered desirable in Railways. But IR's Operating Ratio is yet to reach appreciable manner. To achieve the maximum "economy in operation" and maximize the productivity rightsizing of man power is the prime tool since staff cost has been taking a Lion's share in the Indian Railways Budget Expenditure.

The Committee on Restructuring Railways had observed that the expenditure on staff is extremely high and unmanageable. This expense is not under the control of Railways and keeps increasing with each Pay Commission revision. It has also been observed that employee costs (including pensions) is one of the key components that reduces Railways' ability to generate surplus, and allocate resources towards operations.

3.2 STAFF REQUIREMENT:

Staff requirement is calculated based upon latest techniques in practice. As Yard stick circulated is supposedly old and we cannot always rely on that, the Railway Board has framed a concept 'Benchmarking', to calculate workforce new requirement. This concept is Zero based, very useful in comparing units, as data of each unit is compared meticulously. helpful is verv in identifying lt problematic/slacking units by comparison, and allows other units to improve upon their score, with that of best unit in a phased and planned manner by setting different targets, achieving the Best Benchmark thereby finally. This work study team has, keeping this in view, based upon data and field study has arrived at numbers pertaining to requirement of staff of this section after thorough analysis.

3.3 The Division wise Man Power Ratio (MPR) per thousand units is given below:

| Divisio | MAS | PGT | TPJ | MDU | TVC | SA | IR |
|---------|------|------|------|------|------|------|------|
| n | | | | | | | |
| MPR | 0.18 | 0.14 | 0.17 | 0.18 | 0.16 | 0.14 | 0.14 |

3.4 FAILURE ANALYSIS:

The details of failure attention of Power side staff for the last 33 months i.e., Jan'16 – Sep'18 is tabulated in preceding chapter vide 2.13.

Theaverage failures attention-Power side =**59.05**per day

Complaint Attention of Power side is very high per day.

3.5 AVERAGE MONTHLY CONSUMPTION:

Average monthly consumption in units from October'2015 to September'2018 (36 months) is as below:

HT- SA Station : 2288460

SA DIV.OFFICE : 2137276

SA Quarters : 134489

4560225

LT- LC Gates : 1235188

Quarters : 2716195

Pumps : 136357

Stations : 1637483

PRS & Goods Shed : 381689

6106912

Grand Total for 36 Months : 10667137

Total Energy Consumption p.m. : 296309.36

The average power consumption for the SSE/P/SA jurisdiction per month is **296309.36 Units**, which is considered datum for manpower arrival by applying IR Bench Marking.

3.6 POWER SIDE-STAFF REQUIREMENT AS PER BENCHMARKING:

The work load of Power Maintenance is quantified in terms of Power Consumption of the Unit concerned.

Staff requirement of Power-Side is calculated as below:

| BASIS | Yardstick | Benchmark (BKN Division/ NWR-NR: 0.08) | BM-IR Average (0.22) |
|------------|-----------|-------------------------------------------------|----------------------------|
| CALCULATIO | 296309.36 | 296309.36 X | 296309.36 X |
| N | X | 0.08/1000 | 0.22/1000 |
| | 0.20/1000 | | |
| STAFF | 59.26 | 23.70 | 65.19 |
| REQUIRED | Say 59 | Say 24 | Say 65 |

Based upon Yardstick and IR average-staff requirement is ascertained at 59 & 65 respectively, which is on higher side considering the work and analysis. (Yard Stick-As per the

Railway Board's Circular No.2001/Elect/(G)/138/3 dated 16.03.2006, 0.20 staff per '000 units)

As per benchmarking staff requirement at SSE/P/SAwork out to be **24**(based upon September'2018's Benchmarking of BKN Division-NWR: 0.08 staff per '000 units), which is very low. Even though, it is stipulated by the Railway Board that all units achieve Bench Marking, based on field inspection, work study team, on need basis, allows **31**Staff at SSE/P/SA unit in for Power side activities.

3.7 STAFF REQUIREMENT - NIGHT STAFF : 02 STAFF

3.8 STAFF REQUIREMENT - DIVISIONAL OFFICE :03 STAFF

3.9 STAFF REQUIREMENT-STORE/OFFICE MAINTAINENCE: 01 STAFF

SSE/P/SA is maintaining a store for the requirement of this section. There is a necessity to maintain records and registers at Store and Office of the SSE/P/SA and it is noticed that there is a regular correspondence with Divisional Authorities. For this purpose, on need basis, work study team allows **one (1) staff** for the purpose of Store/Office Maintenance.

3.10 TOTAL STAFF REQUIREMENT AT SSE/P/SA:

Power Side (Incl.RG& LR) : 24 (as per Bench Mark)

Night Staff @ Office & Platform : 02

Divisional Office : 03

Store/Office Maintenance : 01

LR @ 12.5% : 01

TOTAL STAFF REQUIREMENT: 31

3.11 STATION/SUB-SECTION WISE STAFF REQUIREMENT:

It is observed by Work study team that actual requirement on need basis is much lower than that of Yardstick or Benchmarking.

| SUB-SECTION | NO OF POSTS REQUIRED |
|-------------|-------------------------|
| SALEM | 24 |
| ATU | 3 |
| MTDM | 1 |
| TPT | 3 |
| Total | 31 |

3.12 SUMMARY OF SANCTION VS REQUIREMENT:

| POST | SANCTIO | ACTUAL | REQUIREMEN | SURPLU |
|------------|---------|---------|------------|--------|
| | N | as on | T | S |
| | | 30.9.18 | | |
| SSE | 2 | 2 | 2 | 0 |
| JE | 1 | 1 | 1 | 0 |
| Sr.TECH | 5 | 2 | 5 | 0 |
| TECH I/P | 18 | 6 | 15 | 3 |
| TECH II/P | 1 | 7 | 1 | 0 |
| TECH III/P | 1 | 4 | 1 | 0 |
| HELPER | 8 | 12 | 6 | 2 |
| TOTAL | 36 | 0 | 0 | 5 |

Total requirement arrived is 31 and the study team recommends surrendering of Three (03) posts of Technician Grade I/P in GP Rs.2800/-Two (2) posts of Helper/P in GP Rs.1800/-.

3.13 RECOMMENDATION:

The following posts are surplus to the requirement and these may be surrendered and credited to the vacancy bank.

| SI.N | Category | Grade in Rs. | No.of posts |
|------|----------------------|--------------|-------------|
| 0 | | | |
| 1 | Technician Grade I/P | 2800/- | 3 |

| 2 | Helper/P | 1800/- | 2 |
|---|----------|--------|---|
| | Total | | 5 |

Total Two (5) Posts.



CHAPTER IV

4.0 PLANNING BRANCH'S REMARKS ON CO-ORDINATING OFFICER'S VIEWS:

CO-ORDINATING OFFICER'S VIEWS:

The Work Study Report conducted at SSE/Electrical/Power/SA depot has been receieved this office on 11.12.2018. After detailed study of the report, the following views/comments are given below for revising Final Work Study Report duly considering the co-ordinating officer's view.

The Work Study team conducted the study and given the details of Electrical assets, maintenance/breakdown activities etc. SA Depot was one of the power depot under the Palghat Division and at that time there was no Divisional Office setup, Divisional Office Sub-Station, Officers Quarters etc. bifurcation of PGT Division. Salem Division was formed on 01.11.2007. After formation of new Division, Divisional Office Building with complete Divisional Setup, various control offices viz. Operating Control, TPC, TLC are functioning in the Divisional Office. A Separate new HT substation with DG set provision, Officers Quarters etc are added one by one. For these new assets no man power has been created so far. A proposal was initiated and submitted to HQ for the creation of 8 Nos of power side staff for manning of new HT substation @ Divisional Office and for the control duty but the same not yet yielded any positive result. So with the available staff allotted for Salem Division as on 01.07.2007 has been suitably pin pointed between each depots and the staff strength of Salem Depot has been strengthened somewhat. Thus the existing staff strength at Salem Depot includes pin pointed posts from the other power side depots also.

Railway Board Norms allowed 0.2 staff per 1000 units of consumption for the power side. Salem Division is lagging behind with 0.14 staff. The same also mentioned in the report at Page No.46. Instead of recommending additional staff as per Railway Board norms, the work study report further reduced quoting BKN Division (0.08 staff). Considering 0.08 staff is not realistic and could not be accepted. The work study report neither takes Railway Board norms (0.2 staff) nor average of Southern Railway (0.16) and also not even taken IR average (0.14). Even Salem Depot Power side staff strength is less than the average of SA Division i.e., 0.12 as compared to 0.14. Taking BKN Division norms is strongly rejected.

There is no specific comparision about the details of Electrical assets, maintenance activities, Divisional office complete setup which is maintained by Salem depot and that of with BKN Division. If the BKN Division norms are applicable for the whole Railways there is no need of separate work study in each and every depot. That norm simply can adopted for the whole Indian Railways. The main concept of analyzing the actual work load, available assets, critical areas afected due to shortage etc are not at all studied or worried in the report.

There is no Emergency duty staff available in Salem Depot. The Salem Depot is having vast jurisdiction from TPT to MVPM and VRI-MTDM. The sensitive AT CLS panels are also under the control of SSE/Electrical/Power/SA. If any failures reported in odd hour's means, much difficulty is being experienced to arranging staff for attention. The station substation is kept unmanned due to shortage of staff. Minimum 7 staff are required for manning of both substations in Salem Depot. The same has not been included in the work study report. SSE/Electrical/Power/Salem Depot is the combined depot with Power, TL and AC staff. The 24 hours platform attention, other end attention of Train No.22153/22154, maintenance of DRM/SA saloon etc are under the control of SSE/Electrical/Power/Salem. The power side staffs are also utilsed in these activities due to shortage of staff in coaching activities.

Due to the new Divisional Office setup, there is no sanction for Electrical control duty staff. The sanction available in the SSE/Electrical/Power/Salem depot only utilised for control duty. Electrical Control is essentially required for

smooth functioning of the Division. The Electrical control is monitoring of the status of Power Supply in all the stations, LC Gates functioning of AT CLS panels, working of pumps, Lifts, Escalators, coaching failures, receiving various mode of complaints such as COMS, Tweeter, Coach Mitra, 139 etc and taking necessary action to attend the compalints, closing etc are also the duties of Electrical Controller. There is no sanction of staff Electrical Control. The available staff sanctioned for SSE/Electrical/Power/Salem office only now being utilised for Electrical Control duty.

Further of as part new Division, а SSE/Electrical/Power/Salem depot is also functioning with one SSE/Electrical. In the Electrical works depot there is no sanction for either ministrial staff or technical staff. There is lot of office works right from indenting, chasing, collecting PO, receiving materials, accounting, stocking, distributing to depot/ contractors for executing the work, preparation of bills, chasing with Divisional HQ for passing of bills etc. For these official works in Electrical works office is carried out through one staff which is under the sanction of SSE/Electrical/SA office.

Also meter reading is one of the sensitive and important work. The meter reader work includes taking reading of every quarters, outsiders stalls, service buildings over the entire jurisdiction of Salem Depot, registering, forwarding to Divisional office, collection of cheques for LT connections and handing over the concerned to AE office in the field. There is no provision given in the work study report regarding meter reading work.

Joint inspection of power line crossings, inspection of earths, safety checking of fans in Railway Platforms, service buildings and quarters are not all possible with the existing sanction. These activities are not highlighted in the work study. These works are could not be carried out in time due to acute shortage of staff as per Railway Board norms. It is to be noted that there is no ministertial staff sanctioned sanctioned for SSE/Electrical/Power/SA office.

The ministerial staff is essentially required to up keep of stores, updating of various registers, maintaining of staff particulars including leave, issuing pass, entering the NDA, TA statements etc.,in On line portal. Instead of proposing one minsterial staff deputing one technician is not accepted.

The Work Study report should contain suitable provisions for Control duty at Salem Divisional Office, sufficient technicians for SSE/Electrical/Works/SA office considering the work load, manning of station substation & Divisional office substation with RG/LR, meter reading duties, safety check for Earths and Fans etc.

Hence it is advised that the work study report to be suitably modified taking any one of the following norms and may be please be re-submitted for further action at this end please.

| (i) | Railway Board man power nor units) | rms (0.2 st | aff per 1000 |
|-------|---------------------------------------|-------------|--------------|
| (ii) | Southern Railway Average units) | (0.16 staff | per 1000 |
| (iii) | Indian Railway Average 1000 units) | (0.14 | staff per |
| (iv) | Salem Division average 1000 units) | (0.14 | staff per |

Hence it is once again requested to resubmit the audit report by taking any one of the above four norms. The recommendation of surrendering of 5 Nos of Posts in SSE/Electrical/Power/SA depot is not realistic and not accepted by the co-ordinating officer.

PLANNING BRANCH'S REMARKS:

Sufficient number of staff is allowed for each and every activity in the draft work study report. Moreover the CO remarks has contained the mandatory works.

However in addition to the already allowed 3 staff for the Divisional Office, 3 more staff is allowed for control office duty on need base.

REVISED SUMMARY OF SANCTION VS REQUIREMENT:

| POST | SANCTIO N | as on | REQUIREMEN T | SURPLU S |
|------|--------------|---------|-----------------|-------------|
| | | 30.9.18 | | |
| SSE | 2 | 2 | 2 | 0 |

| JE | 1 | 1 | 1 | 0 |
|------------|----|----|----|---|
| Sr.TECH | 5 | 2 | 5 | 0 |
| TECH I/P | 18 | 6 | 18 | 0 |
| TECH II/P | 1 | 7 | 1 | 0 |
| TECH III/P | 1 | 4 | 1 | 0 |
| HELPER | 8 | 12 | 6 | 2 |
| TOTAL | 36 | 0 | 34 | 2 |

Hence the revised total requirement arrived is 34 and the study team recommends surrendering of Two (2) posts of Helper/P in GP Rs.1800/-.



CHAPTER V

5.0 FINANCIAL SAVINGS:

If the revised recommendations of the study report are implemented, the annual recurring financial savings will be as under:-

| SI N o | Categor y | Grade pay(Rs) | No. of posts | Money Value(Rs.) | Annual Financial savings (Rs.) |
|--------------|--------------|----------------------|--------------------|-------------------------|--------------------------------------|
| 1 | Helper/P | 1800 | 2 | 40,821 | 9,79,704 |
| TOTAL | | | 2 | | Rs.9,79,704/- |



SAVE STATEMNT

ANNEXURE - I

| SAVE' STATEMENT of SSE/E/SA as on 23.08.2018 | | | | | | | |
|----------------------------------------------|-----------|---------|--------|-------|-------|--|--|
| Category | Grade Pay | Sanctio | Actual | Vacan | Exces | | |
| | (Rs.) | n | | су | S | | |
| SSE | 4600 | 2 | 2 | 0 | 0 | | |
| JE | 4200 | 1 | 1 | 0 | 0 | | |
| Sr. | 4200 | 5 | 1 | 4 | 0 | | |
| Technician | | | | | | | |
| Tech. Gr. I/P | 2800 | 18 | 4 | 14 | 0 | | |
| Tech. Gr. II/P | 2400 | 1 | 6 | 0 | 5 | | |
| Tech. Gr. III/P | 1900 | 1 | 4 | 0 | 3 | | |
| HELPER/P | 1800 | 8 | 10 | 0 | 2 | | |
| Total | 0 | 0 | 0 | 0 | | | |

SUMMARY OF ENERGY CONSUMPTION ANNEXURE II

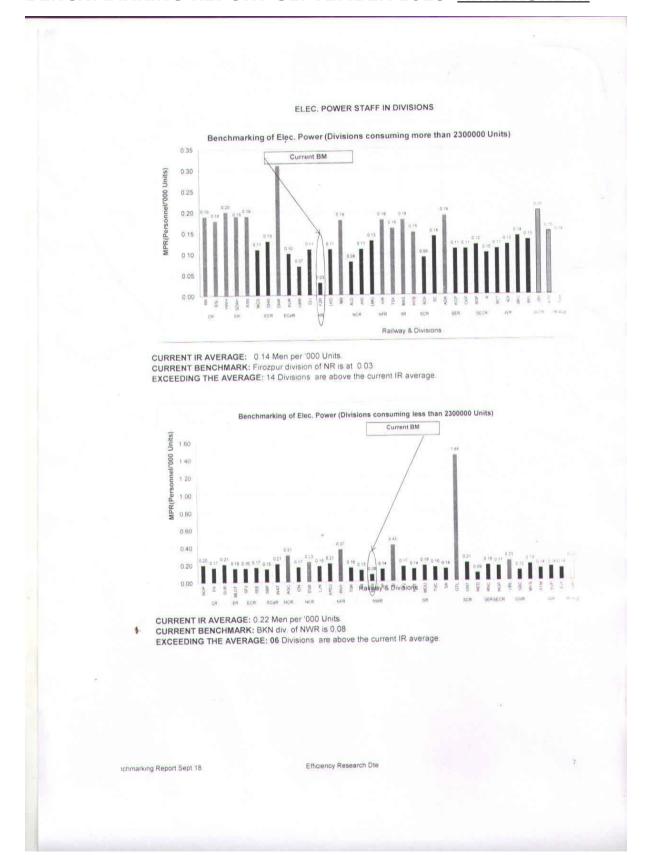
CONSUMPTION OF ELECTRICAL UNITS IN SSE/POWER/SA:

| | | | | Summar | y of Energy (| Consumptio | n: | | | |
|---------|--------------------|-----------|-----------|----------|---------------|--------------------------------|---------------|--------------------------|---------------|----------------|
| SI. No. | SERVICES /MONTH | LC Gates- | Quarters- | Pumps-LT | Station-L1 | PRS/MBP M+GOOD SHED-(LT) | HT/SA- STN | HT/SA- DIV. OFFICE | НТ/SA- QRS | MONTHL |
| 1 | Sept18 | 56997 | 73198 | 4750 | 56997 | 7100 | 79280 | 52120 | 4200 | _ < |
| 2 | Aug18 | 35981 | 49653 | 920 | 35981 | 13120 | 76460 | 48841 | 3959 | 33464 |
| 3 | july18 | 65291 | 71464 | 4400 | 65291 | 6330 | 66180 | 48841 | 3959 | 2649 |
| 4 | June18 | 35935 | 57751 | 670 | 35935 | 16502 | 74280 | 45654 | 3986 | 27073 |
| 5 | May-18 | 53980 | 74833 | 4720 | 53980 | 6940 | 78380 | 47402 | 4918 | 32515 |
| 6 | Apr-18 | 45376 | 60798 | 270 | 45376 | 13216 | 71420 | 61032 | 5298 | 30278 |
| 7 | Mar-18 | 45960 | 63906 | 4090 | 45960 | 7820 | 63320 | 42500 | 3260 | 27681 |
| 8 | Feb18 | 31490 | 53014 | 5060 | 31490 | 10120 | 48160 | 59443 | 3053 | |
| 9 | Jan18 | 55576 | 65180 | 4358 | 55576 | 8500 | 46400 | 58338 | 2942 | 24183 |
| 10 | Dec17 | 34286 | 63100 | 300 | 34286 | 11180 | 48300 | 60347 | 3053 | 29687 25485 |
| 11 | Nov17 | 54965 | 76005 | 4360 | 54965 | -8350 | 56060 | 66042 | 3598 | |
| 12 | Oct17 | 36500 | 73630 | 830 | 36500 | 10020 | 62860 | 57585 | 3975 | 32434 |
| 13 | Sept17 | 58315 | 79176 | 5310 | 58315 | 10180 | 64480 | 61046 | 4034 | 28190 |
| 14 | Aug17 | 35710 | 73297 | 1320 | 35710 | 17130 | 58500 | 69580 | 3660 | 34085 |
| 15 | july17 | 55860 | 85264 | 6570 | 55860 | 9040 | 59320 | 74915 | 3405 | 29490 |
| 16 | Jun-17 | 34954 | 75175 | 2930 | 34954 | 9484 | 64000 | 75074 | 4086 | 35023 |
| 17 | May-17 | 55080 | 85616 | 6230 | 55080 | 11610 | 63180 | 75864 | 4776 | 30065 |
| 18 | Apr-17 | 37920 | 80523 | 3840 | 37920 | 10746 | 63640 | 76571 | 5349 | 35743 31650 |
| 19 | Mar-17 | 58710 | 77876 | 4680 | 58710 | 9150 | 52800 | 64321 | 3479 | 32972 |
| 20 | Feb17 | 35715 | 63974 | 2740 | 35715 | 10980 | 52860 | 66064 | 2696 | 27074 |
| 21 | Jan17 | 56225 | 77228 | 4130 | 56225 | 10360 | 53460 | 67803 | 2757 | 32818 |
| 22 | Dec16 | 39760 | 73208 | 4490 | 39760 | 10540 | 52280 | 60584 | 2936 | 28355 |
| 23 | Nov16 | 64592 | 82612 | 4619 | 64592 | 10400 | 61120 | 71385 | 3215 | 362535 |
| 24 | Oct16 | 26920 | 78801 | 2430 | 26920 | 9470 | 60840 | 67875 | 3645 | 276903 |
| 25 | Sept16 | 9408 | 85155 | 5310 | 51850 | 11030 | 65820 | 71460 | 3900 | 303933 |
| 26 | Aug16 | 10520 | 82568 | 3020 | 36000 | 8220 | 63000 | 75923 | 4037 | 283288 |
| 27 | july16 | 9655 | 86043 | 6250 | 50610 | 13740 | 58060 | 70897 | 3743 | 298998 |
| 28 | Jun-16 | 11150 | 78098 | 1510 | 41340 | 10020 | 66980 | 65474 | 3966 | 278538 |
| 29 | May-16 | 10324 | 90176 | 7190 | 51254 | 15710 | 80000 | 54627 | 4453 | 313734 |
| 30 | Apr-16 | 10377 | 68190 | 1860 | 39640 | 10236 | 86220 | 55636 | 4524 | 276683 |
| 31 | Mar-16 | 9504 | 87549 | 7350 | 47640 | 13740 | 74260 | 48527 | 3553 | 292123 |
| 32 | Feb16 | 10335 | 102820 | 3500 | 35693 | 8295 | 72300 | 46906 | 2925 | 282774 |
| 33 | Jan16 | 9977 | 78986 | 8150 | 49390 | 15380 | 65960 | 42795 | 2925 | 273563 |
| 34 | Dec15 | 10932 | 72691 | 1090 | 34608 | 6340 | 57200 | 41271 | 3089 | 227221 |
| 35 | Nov15 | 9435 | 85172 | 6860 | 54070 | 14600 | 58920 | 42270 | 3570 | 274897 |
| 36 | Oct15 | 11473 | 83465 | 250 | 33290 | 6090 | 62160 | 42263 | 3565 | 242556 |
| Sub | Total | 1235188 | 2716195 | 136357 | 1637483 | 381689 | 2288460 | 2137276 | 134489 | 10667137 |

TOTAL ENERGY CONSUMPTION FOR 36 MONTHS:
TOTAL ENERGY COSUMPTION/MONTH: 296309 unit

शिक्ष अनुभाग इंजीनियर (बिजली) action Engineer (Electrical) विध्या रेल्ये, सेलम. दान Railway, Salem

BENCHMARKING REPORT-SEPTEMBER 2018 ANNEXURE III



CO-ORDINATING OFFICER'S VIEWS

ANNEXURE IV

Coordinating Officer's views on Work Study Report at SSE/Electrical/Power/SA

Ref: (i) Work study report No. G.275/WSSR -501819 / 2018-19
(ii) Dy. Chief Planning Officer/HQ Ltr No. G.275/WSSR-501819/2018-19
of dt.10.12.2018

The Work Study Report conducted at SSE/Electrical/Power/SA depot has been received this office on 11.12.2018. After detailed study of the report, the following views/ comments are given below for revising Final Work Study Report duly considering the co-ordinating officer's view

The Work study team conducted the study and given the details of Electrical assets, maintenance / breakdown activities etc. SA Depot was one of the power depot under Palghat Division and at that time there was no Divisional office setup, Divisional Office Substation, Officers Quarters etc. On bifurcation of PGT Division, Salem Division was formed on 01.11.2007. After formation of new Division, Divisional Office Building with complete Divisional Setup, Various control offices viz, Operating Control, TPC, TLC are functioning in Divisional office. A separate new HT substation with DG set provision, Officers Quarters etc are added one by one. For these new assets no man power has been created so far. A proposal was initiated and submitted to HQ for the creation of 8 Nos of power side staff for the manning of new HT substation @ Divisional office and for the control duty but the same not yet yielded any positive result. So with the available staff allotted for Salem Division as on 01.07.2007 had been suitably pin pointed between each depots and the staff strength of Salem Depot has been strengthened somewhat. Thus the existing staff strength at Salem Depot includes pin pointed posts from other power side depots also.

Railway Board norms allowed 0.2 staff per 1000 units of consumption for the power side. Salem Division is lagging behind with 0.14 staff, the same also has been mentioned in the report at page No. 46. Instead of recommending additional staff as per Railway Board norms, the work study report further reduced quoting BKN Division (0.08 staff). Considering 0.08 staff is not realistic and could not be accepted. The work study report neither takes Railway board norms (0.2 staff) nor average of Southern Railway (0.16) and also not even taken IR average (0.14). Even Salem Depot power side staff strength is less than the average of SA Division i.e. 0.12 as compared to 0.14. Taking BKN Division norms is strongly rejected.

There is no specific comparison about the details of Electrical assets, maintenance activities, Divisional office complete setup which is maintained by Salem depot and that of with BKN Division. If the BKN Division norms are applicable for whole Railways there is no need of separate work study in each and every depot. That norm simply can be adopted for whole Indian Railways. The main concept of analyzing the actual work load, available assets, critical areas affected due to shortage of staff etc are not at all studied or worried in the report.

There is no Emergency duty staff available in Salem Depot. The Salem Depot is having vast jurisdiction from TPT to MVPM and VRI – MTDM. The sensitive AT CLS panels are also under the control of SSE /Electrical/Power/SA. If any failures reported in odd hour's means, much difficulty is being experienced to arranging staff for attention. The station substation is kept unmanned due to shortage of staff. Minimum 7 Staffs are required for manning of both substations in Salem Depot. The same has not been included in the work study report.' SSE/Electrical/Power/Salem Depot is the combined depot with Power, TL and AC staff. The 24 hours platform attention, other end attention of Train No. 22153/22154, maintenance of DRM/SA saloon etc are under the control of SSE/Electrical/Power/SA. The power side staffs are also utilized in these activities due to shortage of staff in coaching activities.

Due to the new Divisional Office setup, there is no sanction for Electrical Control duty staff. The sanction available in the SSE/Electrical/Power/SA depot only utilized for Control duty. Electrical Control is essentially required for smooth functioning of the Division. The Electrical control is monitoring the status of power supply in all the stations, LC gates, functioning of AT CLS panels, working of pumps, Lifts, Escalators, coaching failures, receiving various mode of complaints such as COMS, Tweeter, Coach mitra, 139 etc and taking necessary action to attend the complaints, closing etc are also the duties of Electrical Controller. There is no sanction of staff for Electrical control. The available staff sanctioned for SSE/Electrical/Power/SA office only now being utilized for Electrical Control duty.

Further as a part of new Division, SSE/Electrical/Works/SA depot is also functioning with one SSE/Electrical. In the Electrical Works depot there is no sanction for either ministerial staff or technical staff. There is lot of office works right from indenting, chasing, collecting PO, receiving materials, accounting, stocking, distributing to depots / contractors for executing the work, preparation of bills, chasing with Divisional HQ for passing of bills etc. For these official works in Electrical works office is carried out through one staff which is under the sanction of SSE/Electrical/SA office.

Also meter reading is one of the sensitive and important work. The meter reader work includes taking reading of every quarters, outsiders stalls, service buildings over the entire jurisdiction of Salem Depot, registering, forwarding to Divisional office, Collection of cheques for LT connections and handing over the concerned to AE office in the field. There is no provision given in the work-study report regarding meter reading work.

Joint inspection of power line crossings, inspection of earths, safety checking of fans in Railway Platforms, service buildings and Quarters etc are not at all possible with the existing sanction. These activities are not highlighted in the Work study report. These works are could not be carried out in time due to acute shortage of staff as per the Railway Board norms. It is to be noted that there is no ministerial staff sanctioned for SSE/Electrical/Power/SA office.

The ministerial staff is essentially required to up keep of stores, updating of various registers, maintaining of Staff particulars including leave, issuing pass, entering the NDA, TA statements etc in On line portal. Instead of proposing one ministerial staff deputing one technician is not accepted.

The Work study report should contain suitable provisions for Control duty at Salem Divisional office, sufficient technicians for SSE/Electrical/Works/SA office considering the work load, manning of Station substation & Divisional office substation with RG/LR, meter reading duties, Safety check for Earths and Fans etc.

Hence it is advised that the work study report to be suitably modified taking any one of the following norms and may please be re-submitted for further action at this end please.

(i) Railway Board man power norms (0.2 staff per 1000 units) .

(ii) Southern Railway average (0.16 staff per 1000 units)

(iii) Indian Railway average (0.14 staff per 1000 units) (iv) Salem Division average (0.14 staff per 1000 units)

Hence it is once again requested to resubmit the audit report by taking any one of the above four norms. The recommendation of surrendering of 5 Nos of Posts in SSE/Electrical/Power/SA depot is not realistic and not accepted by the co-ordinating officer.

(REGI VARGHESE)

ADEE/G/SA

Co-Ordinating Officer