

दक्षिण मध्य रेलवे
SOUTH CENTRAL RAILWAY
WORK STUDY REPORT
ON
REVIEW OF STAFF STRENGTH
OF
ENGINEERING DEPARTMENT
OVER
GUNTAKAL DIVISION

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मार्गदर्शक

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विधि METHODOLOGY

The Work Study department has applied the following techniques for completion of the Work Study.

1. Collection of the details of workload.
2. Interaction with the Officers and Staff.
3. Critical examination of the existing system of working and
4. Assessment of manpower requirement for the existing work Load

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रूपरेखा **SYNOPSIS**

- **विषय/Subject:** Review of Staff Strength of Engineering Department over Guntakal Division.
- **प्राधिकार/Authority:** Annual Programme of Work studies 2020-21.
- **अध्ययन सं/Study No:** WSSCR-11/2020-21.
- **संदर्भ फाइल सं/ Reference File No:** G.276/2/WSSCR-11/ 2020-21.
- **गतिविधि का क्षेत्र/ Area of Activity:** Engineering Department over Guntakal Division.
- As per the programme of work-studies 2020-21, the Central Planning Organisation of South Central Railway has taken up Work-study on "Review of staff strength of Engineering department over GTL Division".
- **Application of Benchmarking Norms:** Benchmarking is based on dynamic and comparative analysis and is a very useful tool to manage efficient deployment of staff and monitor effects of improvement in working practices, use of new technologies and level of outsourcing. Board in successive meetings has directed all units to achieve average of Indian Railway Benchmark.
- **General:** Guntakal Division is an important division in South Central Railway. The prime job of engineering department is to keep the wheels on Rail, either in motion or in stable condition. For this purpose, it has to keep on maintaining the track in good fettle from beginning to the end. In addition to this, there are many Service Buildings and residential buildings in the division to cater to the needs of the employees. Since train services are round the clock, water and other amenities are to be provided to the passenger so that smooth functioning is maintained. Round the clock water supply is also required for the Railway Hospitals and other service buildings in the division. In this direction Engg organization of GTL division plays a major role in up keep of the same.
- **Yardsticks:** In olden days, when these yardsticks were come into force, all these activities were managed by the depots' staff itself. However, nowadays Zonal Contracts are introduced to make easy and procurement of required material to achieve the early performance in a satisfactory level without the help of our labour, as we are under going into these contracts for early achievement along with an intention to save some work force. That is why the Work-study cell ignores them because yardsticks have become outdated and not suggest-able to implement in Engineering Organization from the date when the Zonal Contracts for the activities have been introduced.
- **Mar-2020 IR average and Bench Marking of GTL division is as follows.**

Organization	MPR of GTL	IR avg MPR	Bench Mark MPR
P.Way	1.37	1.27	0.79
Buildings	0.15	0.16	0.03
Bridges	0.08	0.08	0.02
- Though MPRs of Engineering department of GTL division is above IR average in P.Way & below IR average in works organizations. Work Study team considered non-safety / noncore categories for surrender in order to bring the organisation to IR average and further nearer to the IRBM.
- Major changes have taken in the working system of Engineering department, as some works are being done on zonal contract. Many works have been outsourced in Works organisation and some works are being outsourced such as track maintenance works in the P.Way organisation.

➤ **Summary of SAVE position of Engineering organization**

S.No	Designation	sanction	Actual	Vacancy
1	P.Way	4790	4166	624
2	Works	318	183	135
3	Bridges	35	20	15
	Grand Total	5143	4369	774

➤ **The Work-study team made an analysis on the requirement of staff based on the following parameters.**

- No. of activities under out sourcing in Engineering organization.
 - Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 stated
 - That carry out zero based review of staff (Para no.3)
 - Bring down the Divisions higher than the all India average to the AIBM (All India Benchmarking) level (Para no.5).
 - Outsource the Non-core activities which are not directly related with train operation and safety (Para no.6).
 - As per Railway board letter no.2011/E&R/2800/Rly.imp.vol VI/ (Corr) dated 09.06.2016 to bring down the manpower ratios for activities which are above the IR average at least to the current IR average.
 - Recommendation to surrender of posts due to Contract/outourcing activities and posts are lying vacant /redundant.
- As per letter no. E(MPP)96/1/15 dated 21.11.2017 [RBE No. 172/2017], the following activities come under safety category in Engineering Department:

S No	Designation/ Post
1.	JE/SSE / P.Way
2.	JE/SSE Track Machines
3.	JE/SSE / Bridges
4.	JE/SSE / Works
5.	Track Maintainer Gr.I, II, III,IV (i.e Mate, Keyman, Track man, Gate man, Petrol man, trolley man)
6.	Black Smith
7.	Welder
8.	Technician (Track Machine) of open line and repair & maintenance depot/ workshops
9.	Bridge Technician (Saran, Riveter, welder, Black smith, Grinder, Fitter, Machinist, Turner, Driller) of open line organization and Bridge workshop.
10.	Helper of Black smith/ Welder

➤ **Requirement of Staff:**

- Carpenter:** This activity is a non-safety & noncore activity. Most of the carpenter activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Carpenter /P.WAY	19	13	6
Carpenter /works	36	26	10
Total	55	39	16

- **Mason :**

This activity is a non-safety & noncore activity. Most of the Mason activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Mason/works	54	27	27
Total	54	27	27

- **Plumber :** This activity is a non-safety & noncore activity. Most of the plumbing activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Plumber /works	45	28	17
Total	45	28	17

- **Valveman:** This activity is a non-safety & noncore activity. Since most of the colonies and stations are having water distribution contracts, such activities in the Engineering organization are outsourced . Hence, this activity became redundant and posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Valveman	30	0	30
Total	30	0	30

- **Cook:** This activity is a non-safety & noncore activity. This activity became redundant and posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Cook	2	0	2
Total	2	0	2

- **Group-D Miscellaneous Category:** These categories are come under non safety /non core activity. As per Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 non safety/ non core activities to be outsource in order to reduce the expenditure. Hence the vacant posts may be surrendered.

1	Multipurpose Khalasi	78	57	21
	Total	78	57	21

➤ Summary of non safety/noncore staff position in Engineering Department:

S.No.	Design	Sanction	Actual	Vacancy
1	Carpenter	55	39	16
2	Mason	54	27	27
3	Plumber	45	28	17
4	Valveman	30	0	30
5	Cook	2	0	2
6	Group-D Miscellaneous Category	78	57	21
	Total	264	151	113

- With the above table it is observed that there are 264 sanctioned posts, 151 on roll staff and 113 vacant posts in non safety/ noncore categories of Engineering Department over GTL Division.
- **In view of the above, it is recommended as follows.**

RECOMMENDATION:

It is recommended to surrender 113 vacant posts from sanctions of Engineering department over GTL division.

- **SUGGESTION:** As per Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 non safety/ non core activities to be outsource in order to reduce the expenditure. The above non-safety/ non-core activities are outsourced considerably. Hence it is suggested to outsource the remaining activities and resultant posts may be surrendered. **Status of outsourcing may be intimated to this office for further review of the work-study.**

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1.0 प्रस्तावना INTRODUCTION:

1.1 RAILWAY'S ROLE:

Indian Railways is a premier transport service provider to the nation and is vested with the responsibility of carrying bulk of freight and passenger traffic across the country at rates affordable for public. The Indian Railways operates through 18 Zones with 73 Divisions to serve the above objective and its operations cover twenty nine states and seven union territories.

1.2 GENESIS OF THE REPORT:

Engineering Department consists of three organizations namely Permanent Way, Works, and Bridges. The prime job of engineering department is to keep on maintaining the track in good fettle from beginning to the end by Permanent Way. Works Organisation maintains the Railway properties such as buildings, stations etc and looks after the passenger amenities at station, supply of water to Railway Colonies & stations, and maintains the sewage lines, roads & premises of Railway colonies etc. Bridge Organisation constructs and maintains Railway Bridges where Railway Track is available.

1.3

Civil Engineering infrastructure is the largest static infrastructure of Indian Railways comprising of track, bridges, land, etc. Management of this huge infrastructure has to be done in accordance with the organization's vision. Civil engineering department of Indian Railways manages and maintains all these infrastructures. Further, it has key role in the area of infrastructure development, technological leap in various fields, high-speed travel and development of world-class stations.

1.4

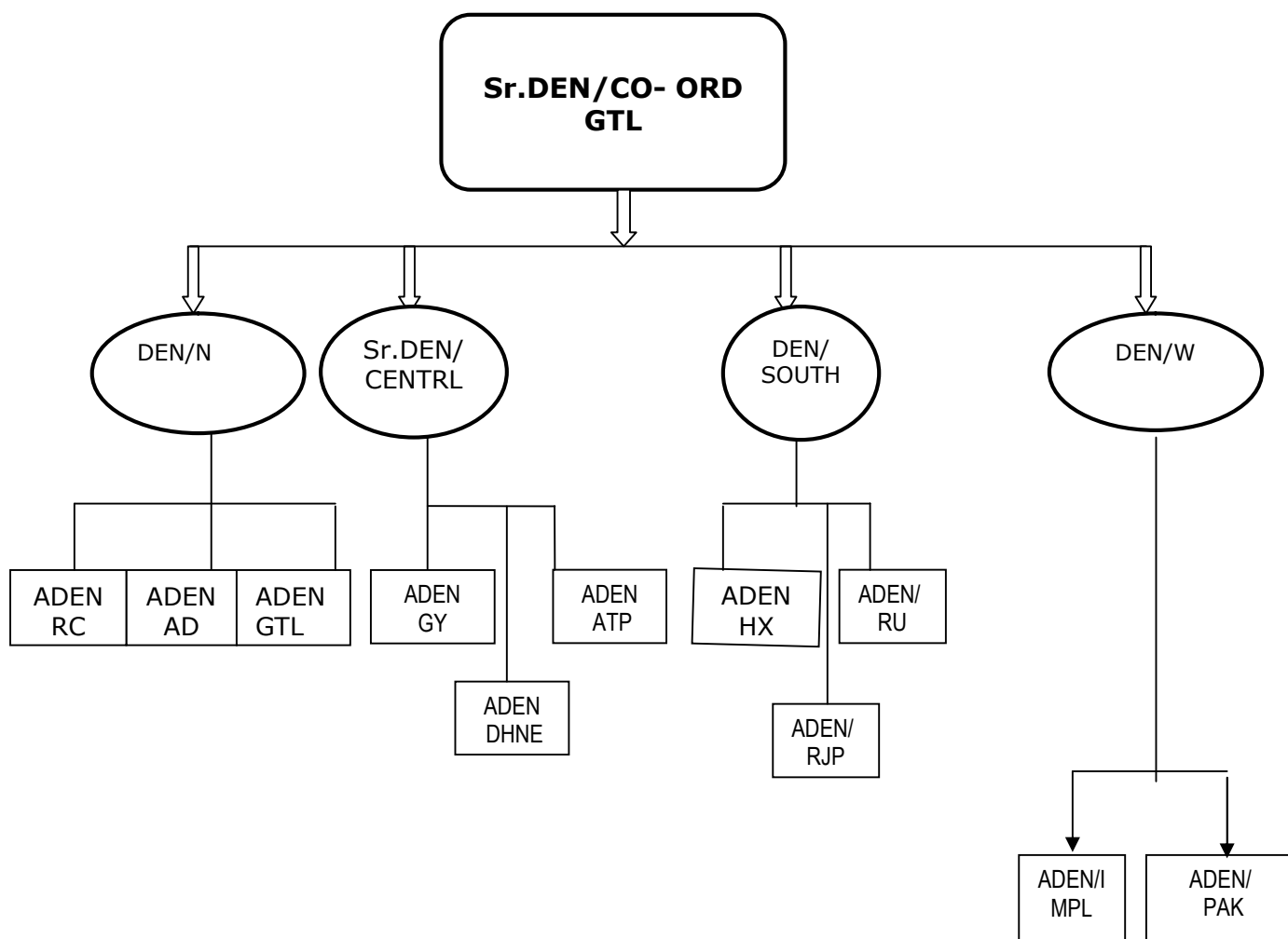
In view of the above, the Central Planning organization under the control of SDGM conducted work-study on Engineering department over GTL Division of South Central Railway.

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2.0 EXISTING SCENARIO:

2.1 ORGANISATION: The Civil Engineering Department of Guntakal Division is headed by Sr. DEN/co-ord and assisted by DEN/South, DEN/North, DEN/C and DEN/West. In turn, Sr.DENs and DEN are assisted by ADENs and SSE/SEs/JEs.

For the administrative convenience and close supervision and inspection, total KM over the division has been divided into small segments as far as practicable and kept under the control of Sr. Section Engineers, who are also responsible for their jurisdictions. These SSEs are controlled directly by ADENs posted at suitable places, so that coordination will be easy. These ADENs are answerable to Sr.DEN/DENs for their respective jurisdiction who are normally placed at division Headquarters which are detailed in the chart below:



2.2 The list of SSE/SE/JE's are working under the control of the respective ADENs as follows.

SSE/P.WAY/RU	SSE/P.WAY/HX	SSE/Works/RU	SSE/Works/PAK
SSE/P.Way/VKI	SSE/P.Way/JMDG	SSE/Works/NRE	SSE/Works/TPTY
SSE/P.Way/KOU	SSE/P.Way/DHNE	SSE/Works/GY	SSE/Works/CRS/TPTY
SSE/P.Way/NRE	SSE/P.Way/NDLP	SSE/Works/DMM	SSE/Works/MPL
SSE/P.Way/KDP	SSE/P.Way/BAY	SSE/Works/RC	SSE/Works/Bridges
SSE/P.Way/GY	SSE/P.Way/CTO	SSE/Works/AD	JE/WORKS/W/GTL
SSE/P.Way/ATP	SSE/P.Way/PAK	SSE/Works/HX	SSE/USFD/GTL
SSE/P.Way/GTL	SSE/P.Way/KRY	SSE/Works/DHNE	SSE/Engineering Control
SSE/P.Way/YG	SSE/P.Way/MPL	SSE/Works/GTL	SSE/TM/GTL
SSE/P.Way/RC	SSE/P.Way/KCI	SSE/Works/S/GTL	SSE/BRIDGES/S/GTL
SSE/P.Way/MALM		SSE/Works/N/GTL	SSE/BRIDGES/N/GTL
SSE/P.Way/AD		SSE/Works/BG/GTL	SSE/BRIDGES/C/GTL
SSE/P.Way/YA		SSE/Works/MG/GTL	

2.3 SCALE CHECK: The consolidated Scale check of Staff of Civil Engineering/GTL is furnished below as on Sept-2020:

2.3.1 P.Way:

S. No	Designation	Pay Band	grade pay	Sanc tion	Actual	Vacanc y
1	Senior Section Engineer (P.Way)	9300-34800	4600	106	85	21
2	Junior Engineer(P.Way)	9300-34800	4200	86	44	42
3	Senior Section Engineer(Drg)	9300-34800	4600	14	7	7
4	Junior Engineer(Drg)	9300-34800	4200	9	9	0
5	Senior Section Engineer(Design)	9300-34800	4600	1	0	1
6	Senior Section Engineer(USFD)	9300-34800	4600	9	11	-2
7	Junior Section Engineer(USFD)	9300-34800	4200	0	4	-4
		Sub Total		225	160	65
8	Technician(MCM)/B.Smith	9300-34800	4200	9	2	7
9	Technician I /B.Smith	5200-20200	2800	21	6	15
10	Technician II /B.Smith	5200-20200	2400	3	3	0
11	Technician III /B.Smith	5200-20200	1900	5	4	1
		Sub Total		38	15	23
12	Technician(MCM)/Carpenter	9300-34800	4200	2	0	2

13	Technician I /Carpenter	5200-20200	2800	1	1	0
14	Technician II /Carpenter	5200-20200	2400	10	5	5
15	Technician III /Carpenter	5200-20200	1900	6	7	-1
		Sub Total		19	13	6
16	Technician/MCM/MTD	9300-34800	4200	0	0	0
17	Technician I / MTD	9300-34800	2800	1	0	1
18	Technician I I/ MTD	9300-34800	2400	1	1	0
19	Technician III/ MTD	9300-34800	1900	1	2	-1
		Sub Total		3	3	0
20	Technician(MCM)/Painter	9300-34800	4200	3	1	2
21	Technician I /Painter	5200-20200	2800	14	4	10
22	Technician II /Painter	5200-20200	2400	3	5	-2
23	Technician III /Painter	5200-20200	1900	1	0	1
		Sub Total		21	10	11
24	Technician/MCM/Welder	9300-34800	4200	6	1	5
25	Technician I / Welder	9300-34800	2800	10	6	4
26	Technician I I/ Welder	9300-34800	2400	1	1	0
27	Technician III/ Welder	9300-34800	1900	48	3	45
		Sub Total		65	11	54
	Artisans total	Sub Total				
28	Track Maintainer IV	5200-20200	1800	1972	2032	-60
29	Track Maintainer III	5200-20200	1900	838	780	58
30	Track Maintainer II	5200-20200	2400	838	647	191
31	Track Maintainer I	5200-20200	2800	419	413	6
		Sub Total		4067	3872	195
32	Ch.OS	9300-34800	4600	16	10	6
33	OS	9300-34800	4200	39	21	18
34	Sr.Clerk	5200-20200	2800	5	6	-1
35	Jr.Ckerk cum typist	5200-20200	1900	9	16	-7
		Sub Total		69	53	16
36	Khalasi	5200-20200	1800	283	29	254
		Sub Total		283	29	254
	P.Way	Total		4790	4166	624

2.3.2 Summary of P.Way organization

S. No	Designation	Sanction	Actual	Vacancy
1.	SSE/JE	225	160	65
2.	Technician /SMITHY	38	15	23
3.	Technician/Carpenter	19	13	6
4.	Technician/MTD	3	3	0
5.	Technician/painter	21	10	11
6.	Technician/ Welder	65	11	54
7.	Track maintainer	4067	3872	195
8.	Office staff	69	53	16

9.	Khalasi(Multipurpose)	283	29	254
	Total	4790	4166	624

2.3.3 WORKS

S.No	Designation	Pay Band	G.P	Sanc	Actual	Vacancy
1.	Senior Section Engineer (Works)	9300-34800	4600	11	12	-1
2.	Junior Engineer(Works)	9300-34800	4200	6	10	-4
	Sub Total			17	22	-5
3.	Technician(MCM)/Welder	9300-34800	4200	1	0	1
4.	Technician I / Welder	5200-20200	2800	4	0	4
5.	Technician II / Welder	5200-20200	2400	0	0	0
6.	Technician III / Welder	5200-20200	1900	1	0	1
	Sub Total			6	0	6
7.	Technician(MCM)/B.Smith	9300-34800	4200	4	2	2
8.	Technician I /B.Smith	5200-20200	2800	6	2	4
9.	Technician II /B.Smith	5200-20200	2400	1	1	0
	Technician III /B.Smith	5200-20200	1900	2	0	2
	Sub Total			13	5	8
10	Technician(MCM)/Carpenter	9300-34800	4200	10	2	8
11	Technician I /Carpenter	5200-20200	2800	21	11	10
12	Technician II /Carpenter	5200-20200	2400	3	6	-3
13	Technician III /Carpenter	5200-20200	1900	2	7	-5
	Sub Total			36	26	10
14	Technician(MCM)/Painter	9300-34800	4200	6	2	4
15	Technician I /Painter	5200-20200	2800	6	1	5
16	Technician II /Painter	5200-20200	2400	5	1	4
17	Technician III /Painter	5200-20200	1900	3	4	-1
	Sub Total			20	8	12
18	Technician(MCM)/Plumber	9300-34800	4200	12	2	10
19	Technician I / Plumber	5200-20200	2800	23	15	8
20	Technician II / Plumber	5200-20200	2400	4	5	-1
21	Technician III / Plumber	5200-20200	1900	6	6	0
	Sub Total			45	28	17
22	Technician(MCM)/Mason	9300-34800	4200	15	2	13
23	Technician I / Mason	5200-20200	2800	31	10	21
24	Technician II / Mason	5200-20200	2400	5	5	0
25	Technician III / Mason	5200-20200	1900	3	10	-7
	Sub Total			54	27	27
26	Khalasi	5200-20200	1800	78	57	21
27	Assistant/Watchman/Chowkidar	5200-20200	1800	7	0	7
28	Valveman	5200-20200	1800	30	0	30
	Sub Total			115	57	58
29	OS	9300-34800	4200	4	2	2
30	Sr.Clerk	5200-20200	2800	6	6	0
31	Jr.Clerk-cum-Typist	5200-20200	1900	2	2	0

		Sub Total		12	10	2
	Works(IOW) TOTAL			318	183	135

2.3.4 Summary of Works organization

S.No	Designation	Sanction	Actual	Vacancy
1	Supervisors	17	22	-5
2	Technician Welder	6	0	6
3	Technician BSmith	13	5	8
4	Technician Carpenter	36	26	10
5	Technician painter	20	8	12
6	Technician Plumber	45	28	17
	Technician Mason	54	27	27
7	Khalasis /chowkidar/ valveman	115	57	58
8	Office staff	12	10	2
	Total	318	183	135

2.3.5 BRIDGES

S.No	Designation	Pay Band	grade pay	Sanctioned	Actual	Vacancy
1.	Senior Section Engineer (Bridges)	9300-34800	4600	7	5	2
2.	Junior Engineer(Bridges)	9300-34800	4200	3	2	1
	Sub Total			10	7	3
3.	Technician(MCM)/B.Smith	9300-34800	4200	0	0	0
4.	Technician I /B.Smith	5200-20200	2800	2	1	1
5.	Technician II /B.Smith	5200-20200	2400	1	1	0
6.	Technician III /B.Smith	5200-20200	1900	1	1	0
	Sub Total			4	3	1
7.	Technician/MCM/Riveter	9300-34800	4200	1	0	1
8.	Technician I/ Riveter	5200-20200	2800	2	0	2
9.	Technician II/ Riveter	5200-20200	2400	1	0	1
10.	Technician III/ Riveter	5200-20200	1800	0	0	0
	Sub Total			4	0	4
11.	Technician/MCM/Welder	9300-34800	4200	1	1	0
12.	Technician I / Welder	5200-20200	2800	2	1	1
13.	Technician I I/ Welder	5200-20200	2400	1	1	0
14.	Technician III/ Welder	5200-20200	1900	1	1	0
	Sub Total			5	4	1
15.	Technician/Erector	5200-20200	2800	1	1	0
16.	Technician /Dollyman	5200-20200	2800	1	1	0
17.	Trolleyman/Trackmaintainer IV	5200-20200	1800	7	2	5
	Sub Total			9	4	5
18.	Technician(MT Driver)	5200-20200	1800	1	1	0
	Sub Total			1	1	0
19.	Chowkidar	5200-20200	1900	1	0	1
	Sub Total			1	0	1

20.	OS	9300-34800	4200	1	1	0
		Sub Total		1	1	0
	BRIDGES TOTAL			35	20	15

2.3.6 Summary of Bridges organization

S.No	Designation	Sanc tion	Actual	Vacancy
1.	Supervisors	10	7	3
2.	Technician B.Smith	4	3	1
3.	Technician Rivetter	4	0	4
4.	Technician Welder	5	4	1
5.	Technician Erector/Dollyman/TM	9	4	5
6.	Technician MTD	1	1	0
7.	Chowkidar	1	0	1
8.	Office staff	1	1	0
	Total	35	20	15

2.4 Summary of Engineering organization

S. No	Designation	sanc tion	Actual	Vacancy
1	P.Way	4790	4166	624
2	Works	318	183	135
3	Bridges	35	20	15
	Grand Total	5143	4369	774

2.5 DUTIES OF ENGINEERING STAFF (WORKS):

SSE/SEWORKS: SSE/SE (Works) performs duties both in office and in field. The works are broadly classified as follows:

- Executive works.
- Store Works.
- Establishment works.
- Industrial relations, staff welfare etc.

Official work:

- Maintenance of registers connected to staff quarters and service buildings.
- Periodical verification of stores and placement of indents for procurement of material.
- Maintain attendance, leave, pass and other staff welfare matters and office correspondence.

Field work: Inspection of

- staff Quarters
- Service / Welfare Buildings
- Roads sewage lines
- Maintenance of gardens after they are handed over by the contractor.
- Encroachment their removal and eviction of unauthorized occupants.

Maintenance work: Carries out maintenance works of staff quarters, service buildings etc. The repairs are undertaken based either on complaints lodged or on routine Inspection. Cob webs cleaning, Cleaning of shrubs and bushes in the around railway premises. Maintain registers to keep record of maintenance and repair works undertaken.

Stores: Periodical indents are to be placed on various stores depots for the procurement of material. Loading / un-loading of material. After procurement of material, the same are to be entered in respective ledgers. Day to day issues of materials are to be entered in 'voucher book' maintained in the office.

Water Supply: SE (Works) is responsible for procurement and supply of water to service buildings and residential buildings. In order to keep continuous supply of water, he has to maintain water pipe line, bore wells, reservoirs and overhead tanks and keep them in good fettle.

Roads: SSE/SE (Works) has to maintain and repair the roads when warranted.

Sewerage Line: SSE/SE (Works) arranges staff to attend under ground drainage lines, and cleaning/de- sledge of septic tanks.

Maintenance of gardens: After the plantation and maintenance by the contractor for one year, the gardens will be taken over by the SE/JE (Works) for further maintenance and are being maintained with the help of a valve-man for watering the plants.

2.6 DUTIES OF ENGINEERING STAFF (P.Way):

- **Gang mate:** He supervises the work done by trackmen, custodian of tools, introducing patrolling attention in case of emergencies, weekly twice key-man duty.
- **Keyman:** He performs daily daytime patrolling of track for observing any rail failure and in time protection for safe running of trains and tightens all fittings.
- **Spl. Gr. Trackmen:** He is entrusted with duties of Monsoon patrolling, Hot Weather patrolling, cold weather patrolling, watchmen at vulnerable locations, pilot men at work spots of special works.
- **Sr. Trackmen:** He performs the duties of Monsoon patrolling, Hot Weather patrolling, cold weather patrolling, watchmen at vulnerable locations, patrol men at work spots of special works.
- **Jr.Trackmen:** For assisting working of small track machines i.e. transportation/carrying to loading and unloading, replacement of glued joints, SEJs, trucking of rails, rail renewals, stacking of rails and various other P. Way materials for declaring scraping, jungle clearance, through gauging for improving TGI values, curve greasing, points and crossing, L.C. approach screening of pumping joints, cleaning of waterways of bridges longitudinal drains, cross drains, cache water drains.
- **Spl.Gr.Store watchman:** For watching store materials and to watching out side dump P. Way materials, temperature, rain fall measuring, Mail collection, stocking of P. Way materials, cleaning of office compound, Receive phone message and passing the message controlling in charges.
- **Sr.Gr.Store Watchman:** He is entrusted with duties of watching store materials and to watching out side dump P. Way materials, temperature, rain fall measuring, Mail collection, stocking of P. Way materials, cleaning of office compound, Receive phone message and passing the message controlling in charges.
- **Spl.Gr.Trolly man:** Pushing of Trolley, Measuring along with PWI i.e. curves, points and crossings, SEJ's Pre and post Tampering measurements, L.C. Gates measuring, Attending emergency Rail/Weld failures along with PWI's, Ballast stocks measurements, P. Way material Inventory, Scrap rails Inventory, ASV/DSK, Accompanying along with PWI's, Joint Inspection with SSE/Signals, Traffic Inspector, SE/Bridges and collecting of various details of track works.
- **Jr.Gr.Trollyman:** Pushing of Trolley, Measuring along with PWI i.e. curves, points and crossings, SEJ's Pre and post Tampering measurements, L.C. Gates measuring, Attending emergency Rail/Weld failures along with PWI's, Ballast

stocks measurements, P.Way material Inventory, Scrap rails Inventory, ASV/DSK, Accompanying along with PWI's, Joint Inspection with SSE/Signals, Traffic Inspector, SE/Bridges and collecting of various details of track works.

- **Carpenter Khalasi:** Deployed for laying and adjusting Wooden layouts Points and crossings rail screw prodding and tightening of wooden blocks, cutting and drilling, providing of wooden block at the time of R/W failures, and attending Section Trolley's repairs.
- **Painter:** Painting of curves, points and crossings, SEJ Pillars, Fouling Marks, Km stones, LC. Gates Boards Caution Order Boards, curve Boards, Points Boards letter painting, checking rails, painting, Bridges DL, HFL Level Markings Bridges Nos. paintings, Scrap rails measurements marked with paint, Stencil cutting, Weld collar painting.

2.7 WORK LOAD of Works Department: Integrated Track Kilometers (ITKMS):

The work Load of P.Way Organisation is represented in the form of ETKMs (Equated track Kms) & Work Load of works Organisation is Integrated Track Kilometers (ITKMS) of the concerned units, which is shown below to throw light on the workload of the various units.

- buildings (i.e Plinth area in sqms),
- Pipe line length (ie. Water pipe line and sewage pipe line)
- Roads (Length in metres)
- Pump stations and sewages schemes (Measured in numbers)
- Circulating area (Area sqmts)
- Platforms.

2.7.1 All the above factors are converted into ETKMS & ITKMS and furnished in the following table

Sl. No	Depot	ETKM	ITKM					
			Track	Bridges			Buildings	Total ITKMS
				Minor	Major	Total		
1	ADEN/RC	429.90	343.92	26.77	108.37	135.14	215.97	695.03
2	ADEN/AD	374.29	299.43	24.32	32.22	56.54	85.16	441.13
3	ADEN//BG/GTL	402.12	321.70	21.20	70.77	91.97	84.75	498.42
4	ADEN/GY	390.82	312.66	19.81	117.45	137.26	264.06	713.98
5	ADEN/DHNE	423.12	338.50	40.84	66.27	107.11	161.88	607.49
6	ADEN/ATP	283.03	226.42	19.81	51.68	71.49	178.83	476.74
7	ADEN/HX	459.93	367.94	46.08	159.01	205.09	103.85	676.88
8	ADEN/RJP	398.78	319.02	32.67	97.97	130.64	100.42	550.08
9	ADEN/RU	333.26	266.61	17.12	53.12	70.24	170.73	507.58
10	ADEN/PAK	215.73	172.58	25.34	25.50	50.84	567.3	790.72
11	ADEN/MPL	293.52	234.82	34.39	50.02	84.41	168.21	487.44
12	ADEN/SW/GTL	0	0	0	0	0	401.17	401.17
	Grand Total	4004.5	3203.6	308.35	832.38	1140.73	2502.33	6846.66

** ** *

3.0 CRITICAL EXAMINATION:

3.1 General: Guntakal Division is an important division in South Central Railway. The prime job of engineering department is to keep the wheels on Rail, either in motion or in stable condition. For this purpose, it has to keep on maintaining the track in good fettle from beginning to the end. In addition to this, there are many Service Buildings and residential buildings in the division to cater to the needs of the employees. Since train services are round the clock, water and other amenities are to be provided to the passenger so that smooth functioning is maintained. Round the clock water supply is also required for the Railway Hospitals and other service buildings in the division. In this direction Engg organization of GTL division plays a major role in up keep of the same.

3.2 Yardsticks: in olden days, when these yardsticks were come into force, the depots' staff itself managed all these activities. However, nowadays Zonal Contracts are introduced to make easy and procurement of required material to achieve the early performance in a satisfactory level without the help of our labour, as we are under going into these contracts for early achievement along with an intention to save some work force. That is why the Work-study cell ignores them because yardsticks have become outdated and not suggest-able to implement in Engineering Organization from the date when the Zonal Contracts for the activities have been introduced.

3.3 Application of Benchmarking Norms: Benchmarking is based on dynamic and comparative analysis and is a very useful tool to manage efficient deployment of staff and monitor effects of improvement in working practices, use of new technologies and level of outsourcing. Board in successive meetings has directed all units to achieve average of Indian Railway Benchmark.

➤ **Mar-2020 IR average and Bench Marking of GTL division is as follows.**

Organization	MPR of GTL	IR avg MPR	Bench Mark MPR
P.Way	1.37	1.27	0.79
Buildings	0.15	0.16	0.03
Bridges	0.08	0.08	0.02

➤ Though MPRs of Engineering department of GTL division is above IR average in P.Way & below IR average in works organizations. Work Study team considered non-safety / noncore categories for surrender in order to bring the organisation to IR average and further nearer to the IRBM.

3.4 Major changes have taken in the working system of Engineering department, as some works are being done on zonal contract. Many works have been outsourced. In the P.Way wing, some works are being outsourced such as track maintenance works.

➤ **The Work-study team made an analysis on the requirement of staff based on the following parameters.**

- a) No. of activities under out sourcing in Engineering organization.
- b) Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 stated
 - That carry out zero based review of staff (Para no.3)
 - Bring down the Divisions higher than the all India average to the AIBM (All India Benchmarking) level (Para no.5).
 - Outsource the Non-core activities which are not directly related with train operation and safety (Para no.6).
- c) As per Railway board letter no.2011/E&R/2800/Rly.imp.vol VI/ (Corr) dated 09.06.2016 to bring down the manpower ratios for activities which are above

the IR average at least to the current IR average.

- d) Recommendation to surrender of posts due to Contract/outsourcing activities and posts are lying vacant /redundant.

3.5 Details of outsourcing activities of GTL Division:

Sl.no	PWAY contracts in GTL Division
1.	Engg-GTL-South-0299-RU-GTL&GDR-RU Sections;proposed safety related track maintenance works in SSE/P.Way/VKI jurisdiction under ADEN/RU sub division.
2.	Engg-GTL-0158;Guntakal Division;Gudur-Renigunta section;Supply and stacking 50mm gauge hard and durable machine crushed stone Ballast at YLK depot and loading the same in to hoopers/Traffic ballast wagons by mechanical means (2,70,000 Cum).(Two packet system)
3.	Engg-GTL-South-0101;1)Guduru-Renigunta section (UP);TRR(P) of Exg.52Kg/90UTS rails on PSC5/6/Channel sleepers 1540/1660 Nos/Km with new 52Kg/90UTS rails (LWR)for a total length of 2.160Km.over the bridges including approaches between Kondagunta and Renigunta stations 2)Gudur;Renigunta section (UP/DN lines);TBR;Through Ballasting of track along with deep screening of ballast by BCM between from Km;12.600-18.700;19.800@45'46@980&kM;44.090-61.000 of Dn line and Km;73.150-83.00 of UP line for a total length of 48.040 Kms.
4.	Engg-GTL-South-0468- Guntakal Division:-GDR-RU Section: - Proposed repairs to existing cess at different locations of SSE/P/RU jurisdiction and proposed earth work for providing sub bank at Km:8/0-9/8 DN line between KQA-VDD Stations of SSE/P/VKI jurisdictions under sub division ADEN/RU.
5.	RU-GTL Sections: - Proposed safety related track maintenance works in SSE/P.Way/RU jurisdiction under ADEN/RU sub division
6.	Proposed collection and supply of monsoon emergency reserve stock on wheels/ground at Renigunta for a period of one year
7.	GTL-South-0452-GDR-RU ;Through welds renewal of existing AT welds with flashButt welding for a length of 19.685 Km.
8.	ENGG-GTL;South-GDR-RU&RU-GTL sections;Reconditioning of wornout CMS/Heat treated crossings and tongue rails (Switches Curved/straight)of 1in 8.50 , 1in 12, 1 in 16,52/60 Kg rail section turnouts with RDSO approved H-3C class welding electrodes in Sr.DEN/South/GTL jurisdiction.
9.	Engg-GTL-South-0774-;SW-I:GUDUR - RENIGUNTA (UP)section: TRR(P) of Exg. 52Kg/90UTS rails on PSC6 sleepers M+7 density with new 60Kg/90UTS rails (LWR) for a total length of 6.459KM. SW-II:Renigunta-Guntakal section: TRR(P) of Exg. 60Kg/90UTS rails on PSC6 sleepers/1660/1540 density with new 60Kg/90UTS rails (LWR) for a total length of 16.376 KM..
10.	ENGG-GTL;South-0260-GuntakalDivisionGDR-RU&RU-GTL sections;Proposed In-situ reconditioning of worn out CMS crossings of 1 in 8 ½,1in 12 and 1 in 16 (60Kg/52Kg/90R rail section) with RDSO approved transmatic Robotic technology in Sr.DEN/South/Guntakal jurisdiction.
11.	Proposed collection and supply of monsoon emergency reserve stock on wheels/ground at Renigunta for a period of one year
12.	Renigunta- Guntakal Section(UP/DN):(1)Complete Track Renewal (Primary) from Km. 176.560- 176.970 & 181.100182.090 on UP line for a total length of 1.400km.(2) Proposed Through Rail Renewal (Primary) of existing 60Kg/90UTS rails with new 60Kg/90UTS rails for a length of 10.839 Km. (Details are shown in annexure-A).(3) Proposed deep screening with BCM from Km: 157.000 to 172.500 of DN line and Km:172.500 to 176.000, 242.500 to 244.100, 254.000 to 255.000 & 258.500 to 262.000 of UP line for a total length of 25.100Km. (Details are shown in annexure-B).(4) Proposed Through Turnout Rail Renewal of existing 60Kg switches, crossings and lead rails with new 60Kg switches, crossings and lead rails of 1 in 12-51 nos and 1 in 8½-04 Nos(Details are shown in annexure-C).(5) Proposed renewal of switch expansion joints-67 nos
13.	Engg-GTL-South-0420-RU-GTL Section: Through Fittings Renewal (All fitting-123.317km & Pads only-40.891km)
14.	proposed safety related track maintenance work in SSE/P.Way/HX and SSE/P.Way/KOU jurisdiction under ADEN/RJP section

15.	Engg-GTL-South-0762-RU-GTL section;proposed track related maintenance works in ADEN/RJP jurisdiction in connection with GM's annual inspection.
16.	Engg-GTL-South-0581-GTL Divn:-RU-GTL Sections:- Proposed safety related track maintenance works in SSE/P.Way/NRE jurisdiction (Km:191.00 to 244.800 UP & DN).
17.	proposed safety related track maintenance work in SSE/P.Way/KOU jurisdiction under ADEN/RJP sub division
18.	proposed transportation of P.Way materials required for casual renewals of SSE/P.Way/VKI and RU sections ADEN/RU sub division,SSE/P/KOU&NRE sections of ADEN/RJP sub division and SSE/P/HX&YA sections sub divisions
19.	Engg-GTL-South-0843- Guntakal Division: SW-I-RU-GTL Section;SW-1;TTR(Rails); Through turn out renewals of existing 52Kg/60Kg switches lead rails and crossings on running lines with new 60Kg curved/thick web switches lead rails.CMS/WCMSC for a total of 20 sets(TWS-1 sets,WCMSC;1set TWS+WCMSC;6 sets)SW-II;Renewal of existing 52 Kg/60Kg Glud joints with new 60Kg Glued joints-16nos SW-III SEJ;Through renewal of switch Expansion Joints-34nos SW-IV;TBR;-Through Ballasting of track along with deep screening of ballast by BCM for a length of 4.69 Kms(pertains to ADEN/RJP Jurisdiction)
20.	: Engg-GTL-South-0732-;: Proposed repairs to Sand Humps in SSE/P/KOU, SSE/P/NRE and SSE/P/HX jurisdictions
21.	GTL Division: (1) GTL-RU section: Proposed construction of boundary wall at isolated location from km.240/5-262/0 on up and down lines between VNM-HX stations in SSE/P.way/HX section (2) RU-GTL Section: Proposed construction of boundary wall at isolated locations from km.297/7 to 298/7 down between YGD-YA stations (3) GDR-TPTY Section: Proposed construction of boundary wall at isolated location from 1/10 -3/24 on up and sown lines between Kondagutta -Gudur stations.
22.	Proposed safety related track maintenance works in SSE/P/HX jurisdiction (km:244.80 to 293.80 UP & DN lines) and SSE/P/YA jurisdiction (Km:293.80 to 337.00 UP &DN lines).
23.	Engg-GTL-South-0318-NDL-YA section;Flash Butt welding of 60kg/52Kg (90/72 UTS)rails/rail panels,including USFD testing of welded joints confirming to Indian Railway Manual for Flash Welding & Indian Railway Manual for Ultrasonic testing of Rails and welds respectively using contractors own Mobile Flash Butt welding plan and Usfd machine in-situ on non running lines/running lines or cess/ballated bed in existing lines etc.,at location on Guntakal Division of South Central Railway
24.	Engg- GTL-South -0579 Divn:- NDL-YA Sections:- Proposed safety related track maintenance works from Km:63/0 to Km:123/0 in SSE/P.Way/JMDG jurisdiction including station yards for a period of 1 year.
25.	Engg-GTL-South-0523- Guntakal Division -Renigunta-Guntakal Section:(SW-I): ADEN(HX)- Supply of drinking water to operating and gang staff at Mangapatnam,kallamala, Yerragudipadu, Ganhayapalle, Krishnapuram & kanamalopalle for a period of 2 years and potable water at Muddanuru, Yerraguntla & Kadapa stations for a period of 4 months per year for 2 years by private agencies through cans/tankers and (SW-II):ADEN(RJP):Supply of drinking water to operating and gang staff at Mamanduru, Balapalle, Settigunta, Anantarajupeta, Mantapampalle, Ontimitta, Bhakrapeta, Hast avaram stations for a period of 2 years
26.	Engg-GTL-South-0347;- NDL-YA Section;- Ancillary works like loading and unloading of rails,cutting of rails, drilling of holes,leadings of rails, through rail renewal in connection with TWR by Mobile flash butt welding between JMDG and YA stations.
27.	Engg-GTL-South-0380; 1)proposed through sleeper renewal(P)from Km;312/6-313/8 of DN line in SSE/P/YA jurisdiction (2)proposed interchanging of rail in curves in SSE/P/HX jurisdiction (3)Renewal of rubber pads on points and crosings in SSE/P.Way/HX section (4) Renewal of 52 Kg/60Kg guard rail with 52/60 Kg rail over the bridge No.601(UP) and 579(DN) of SSE/P.Way/HX section.(5) Overhauling of switches in SSE/P.Way/HX section.(6) Renewal of heat treated crossings and built up crossings of 37A(YA) and 24A(YA) respectively duly renewing the points and crossings sleepers in crossings length.(7)Distressings of LWR track for a length of 60m in SSE/P/YA jurisdiction.(8) NDL-YA section;proposed maintenance of BG track from Km;90/200 to Km;123/000 between JMDG and YA stations.
28.	Guntakal Division;-RU-GTLsection (UP/Dn)proposed TRR(P) of existing 60kg/90UTS rails with new 60kg/90UTS rails with new 60kg/90UTS with new rails for a length of 2.44 Km (2)GTL division;RU-GTL proposed deep screening with BCM for a tototal lengthof 44.900Km (3) GTL Divn; RU-GTL section (Up/Dn)proposed TFR from Km.315.50 to 327.00 of Dn line and Km 321.98 to 327.10 of up line for a tototal length of 16.62 Kms

29.	ENGG-GTL-South-0570-NDL-YA section-proposed lifting of track on approaches of bridges making cess repairs to bank on approaches of bridges and reapirs to bridge like raising of wing walls/return walls, ballast retaining walls at bridge approaches etc., in DEN/Central/GTL and DEN/South/GTL jurisdiction of NDL-YA section.
30.	Guntakal Division:- South-0709-Repairs and upkeeping of Level crossings in ADEN/HX jurisdiction in view of annual GM inspection
31.	Engg-GTL-South-0484- Guntakal Division: (I)RU-GTL Section(DN): Proposed Through Rail Renewal (Primary) of existing 60 Kg/90UTS rails with new 60Kg/90UTS rails for a length of 4.59Km. (Details are shown in annexure-"A"). (II)RU-GTL Section: Through Turnout Rails Renewal-30no {CR+CMSC-02 (1 in 12/60Kg), CS-08 (1 in 12/60Kg) &TWS-20 (1 in 12/60Kg)}(Details are shown in annexure-"B"). (III)GDR-RU Section(DN): Proposed Through Rail Renewal (Primary) of existing 52 Kg/90UTS rails with new 60Kg/90UTS rails on bridges for a length of 2.99 Km. (Details are shown in annexure-C). (IV)GDR-RU Section: Renewal of Switch Expansion Joint -27no. (60kg-08 & 52kg-19) (Details are shown in annexure-"D").(V)GDR-RU Section: Renewal of Glued Joints -64no. (60kg-13 & 52kg-51) (Details are shown in annexure-"E"). (VI)GDR-RU Section(UP): Through Fittings Renewal (Pads only). (VII)GDRRU Section: Through Turn Out Rail Renewal (TTRR)-08 no. {CR+CMSC-02 (1 in 8½/60Kg), CS-05 (1 in 8½/60Kg) & CS-01 (1 in 16/60Kg)
32.	Engg-GTL-South-0842- Guntakal Division: SW-I-RU-GTL Section;SW-1;TTR(Rails); Through turn out renewals of existing 52Kg/60Kg switches, lead rails and crossings on running lines with new 60Kg curved/thick web switches lead rails.CMS/WCMSC for a total of 06 sets(TWS-6 sets)SW-II;Renewal of existing 52 Kg/60Kg Glud joints with new 60Kg Glued joints-131nos SW-III SEJ;Through renewal of switch Expansion Joints-36nos SW-IV;TBR;-Through Ballasting of track along with deep screening of ballast by BCM for a length of 2.40 Kms(pertains to ADEN/HX Jurisdiction)
33.	Engg-GTL-Central-0310: GTL Div: SW.I: Repairs to cess of existing formatinoa nd trolley refuges between GTL-NDL & NDL-PDL section so of SSE/P.Way/DHNE & NDL Jurisdictions. SW.II: Proposed cess repairs of existing formation of CTR(P) locatiosn for ao total length of 29.099 Kms betwene DHNE-NDL stations
34.	9981/Central -Guntakal division;Renigunta-Guntakal section ;supply and stacking of 50mm gauge hard and durable machine crushed stone ballast at GY (2,70,000Cum)
35.	Engg-GTL-Central-0296 GTL Division:-AT Welding of 52Kg/60/Kg rail Joints with compressors air pertol/LPG Pre-Heating with Automatic tapping thimble & single shot crucibles with htree piece pre-fabricated moulds in accordance with IRS specification No.IRST-19-2012 with A&C correction slip No.1 of April 2013.
36.	supply and stacking 50 mm gauge hard and durable machine crushed stone at ZPL (1,35,000Cum)
37.	9876/Central/2016-(SW.I). Renigunta- Guntakal (UP/DN line) section- Through Rail Renewal(Primary) of exg.60Kg/90UTS rails on PSC6 sleepers 1660/1540km density with new 60kg/90UTS rails (LR) on existing PSC6 sleepers for a length of 3.510Kms on plain track and on various bridges. (Locations given in annexure). (SW-II). Gooty- Dharmavaram(SL) section- Complete Track Renewal of exg.52Kg/72/90UTS rails on PSC5 sleepersM+7 density with new 60kg/90UTS rails (LWR) on new PSC6 sleepers 1660 Nos/KMs density including recoupment and increasing of ballast cushion to 35 cm and deep screening of ballast for a total length of 1.27 KMs.(Locations given in annexure).(SW-III). Renigunta-Guntakal Section (UP/DN): Through Fittings Renewal on PSC6 Sleepers track for total length of 13.62kms(Details given in annexure).(SW-IV) Gooty- Pendekallu (SL) section: TFR: Through renewal of fittings on PSC sleepers track from Km.2.00 to Km.9.00 between Gooty-Pendekallu stations
38.	ENGG-GTL-Central-0425: Guntakal Division: SW-I: DMM-GY section (SL): Proposed Through Turnout Rails renewal-5 nos (CC+CMSC-) (1 in 12/60Kg), (details are shon in Annexure-"A").SW-II DMM-GY Section (SL): Through Fittings Renewal(Pads only) for a length of 20.003 (Details are shown in annexure-"B"). SW-III DMM-GY section(SL): Renewal of Switch Expansion Joint- 28 Sets. (60kg) (Details are shown in annexure-"C"), SW-IV-DMM-GY section(SL): renewal of Glued Joints-143 no. (60kg)(details are shown in annexure-"D").SW-V-RU-GTL section: Through Fittings Renewal (all fittings) for a length of 13.249Km (details are shown in annexure- "E"), SW-VI-RU-GTL Section: Renewal of Switch Expansion Joint-44 sets. (Details are shown in annexure-"F") SW-VII-RU-GTL section: Renewal of Glued Joints-118 no. (60kg) (Details are shown innannexure-"G"). SW-VIII-DHNE-GTL section (SL): proposed Through Turnout Rails Renewal-6 nos(CS) (1 in 12/60Kg), (Details are shown in Annexure-"H"), SW-IX-DHNE-GTL section (SL): Renewal of Switch Expansion joint-19 sects (60kg) (Details are shown in annexure-"I"), SW-X-DHNE-GTL section (SL);Renewal of Glued

	joints-69 no. (60kg) (Details are shon in annexure-“J”).
39.	ENGG – GTL - Central – 0605: Guntakal Division: DEN/Central Section : Hiring of Pick up trucks of 1 tone capacity for SSE/JE/P.WAY at TU, RLO, KLU, GTL, BMH, PDL & GTL – 1 who are stationed away from In charge station (Total- 7 Nos) for a period of 2 year
40.	ENGG-GTL-CENTRAL-0763: Guntakal Division: SW-I- RU-GTL Section: TRR(P) of Exg. 60Kg/90UTS rails on PSC 6 sleepers/1660/1540 density with new 60Kg/90UTS rails (LWR) for a total length of 7.509km, SW-II-DMM-GY sec-TFR: Though renewal of all fittings on PSC sleeper track for a length of 29.425km. SW.III- RU-GTL-TWR- 60kgs-4.067km, SW-IV- (I)CTR(S) of exg. 90R (SH)/52Kg(SH) rails on CST9(SH) sleepers M+3 density with 52kg (SH) rails (SWR) on PSC5 (SH) sleepers 1310Nos/km Nos./Km including recoupment and increasing of ballast cushion to 200mm and deep screening of ballast for a total length f 1.40Km and (ii) TRR (S) of exg. 52Kg (SH) rails on PSC5 (SH)sleepers M+7 density with 52kg (SH) rails SWR for total length 1.666Km (iii) TSR (S) of exg. ST(SH) sleepers 1310Nos./Km density laid under 52kg (SH) rails with PSC5 (SH) sleepers 1540Nos/km including deep screening, recoupment and increasing of ballast cushion to 20cm for a length of 0.245Km in yard lines. SW-V- TTR(Rails)- Through turn out Rail renewals of existing 52kg/60Kg switches, lead rails and crossings on running lines with new 60Kg curved/thick web switches, lead rails CS+CMSC: 1 in 8.5 – 2 sets. SW-VI – SEJ: Through renewal of Switch Expansion Joints- 9 sets, SW-VII- GJs- Renewal of existing 52Kg/60Kg Glued joints with new 60Kg Glued joints-41nos, SW-VIII- Guntakal Yard- Proposed CTR(S) for length of 1.96Km from km:442.679 to 443.659 at Road no. 1&2 lines of Existing 52 kg Rails on PSC 5 sleeper replaced with 60Kg Second Hand Rails on PSC6 Second hand sleepers with 1540 density.
41.	Guntakal Division: ATP- Proposed construction of boundary wall along the track to prevent encroachments/trespassing in ADEN/ATP jurisdiction.
42.	ENGG-GTL-Central-0551: GUNTAKAL-DIVISION-YERRAGUNTLA-NANDYAL single line section: Proposed strengthening of weak formation from Km.2/8-18/0 with Geogrid and Geotextile along with blanketing material to RDSO :GE-0014 specifications (Two Packet systems)
43.	0086/Engg-GTL-Central-0086 ;SW-1:Kalluru-Gooty & Kalluru-Guntakal section Transportation of P.Way materials from various locations to SSE/P.Way/MG/GTL section of ADEN/ATP sub division
44.	0105/SW;I;Improvements to GY station yard and SW;II proposed repairs to existing sandhumps at various stations in ADEN/GY
45.	ENGG-GTL-Central-0493: Guntakal Division: Dharmavaram –Gooty & Kalluru-Guntakal Section: Proposed Safety Related Maintenance of Track (Single Line) including Station Yards lines in SSE/P.Way/ATP & MG/GTL sections of ADEN/ATP sub-Division.
46.	Engg-GTL-Central-0604: GTL Divn: GTL-DHNE-NSL & GY-PDL (SL) sections: Proposed Safety Related repairs and maintenance of Track between Guntakal(Excl)- Nandyal (Excl) and GY (Excl)- PDL stations including station yards lines in SSE/P.Way/DHNE & NDL(P) sections of ADEN/DHNE sub- division
47.	0084 GTL Div ADEN/DHNE : provision of Rails arricading to guard road- traffic running at close proximity of track in ADEN/DHNE
48.	9847/Central/2016-Guntakal division-Reconditioning of worn out CMS/Heat treated crossings and reconditioning of worn out T/Rails ADEN/DHNE
49.	Engg-GTL-Central-0642: GTL Divn: RU-GY section: Proposed renewal of Broken/Unserviceable PSC sleepers at Isolated locations in SSE/P.Way/GY and SSE/P.Way/KDP sections under ADEN/GY Sub-Division
50.	Engg-GTL-Central-0791 RU-GY Sec: Proposed Safety Related Maintenance of Track (UP/DN lines) including Station yards lines in SSE/P.Way/KDP & GY section of ADEN/GY sub-division.
51.	Engg-GTL-Central-0726: GTL Divn: Supply of drinking water to operating and gang staff in NDL-GTL, NDL-YA, PDL-GY-KDP & DMM-GY & KLU-GTL section in DEN/Central/GTL Jurisdiction for a period of 2 years (Details as per annexure) G/W548/central/239/DB of 27.4.2019

52.	Engg-GTL-Central-0740 Guntakal Division:- Reconditioning of wornout CMS/Heat treated crossings and reconditioning of wornout tongue rails (Switches curved/straight) of 1 in 8.50, 1 in 12. 1 in 16 52/60kg rail section turnouts with RDSO approved H-3C class welding electrodes in ADEN/GY/ADEN/ATP and ADEN/DHNE sub divisions in Divisional Engineer/Central/Guntakal Jurisdictions
53.	Guntakal Division : Annual Maintenance Contract for Digital Ultrasonic Flaw Detector Ultrasonic Digital Double Rail tester711D under SSE/P.Way/ USFD / Guntakal jurisdiction.
54.	Guntakal Division:Guntakal: Repairs to storm water drain from new circulating area upto Bridge No.872 towards BAY end in Guntakal station.
55.	Guntakal Division:Proposed unloading of P.Way materials at SSE/P.Way/Guntakal store depot(Two years)
56.	Guntakal Division: Automation of PN exchange system working at Non-Interlocked Level Crossings in DEN/Central and DEN/West Jurisdictions.
57.	Guntakal Division-Supply, installation , commissioning and maintenance of track based wayside lubricator (Electronic type) with dual applicator/wiper bar as per RDSO specification (complete) at various locations in Guntakal division.
58.	Ultrasonic testing of Rails and welds (excluding flange testing) on track using contractors hand operated ultrasonic Rail Tester covering area of rail section as per the sketch given in the Indian Railway Standard Specification for Ultrasonic Testing of Rails/Welds (Provisional) - Revised 2012 issued by RDSO and with latest amendments issued from time to time over CC+8+2t and CC+6+2t routes on South central Railway under need based concept testing (NBC) under two packet system
59.	GTL-KLU (Doubling) Section - Provision of drainage arrangements at Kalluru end of Guntakal yard including protection of side slopes.
60.	TTR rails: Through Turnout rail renewal of exg.52kg switches lead rails and crossings in running lines with new 52kg /60kg curved switches lead rails and CMS xings etc.
61.	GTL-WD Section: Supply and stacking of 50mm gauge hard and durable stone ballast at Kuppagal Depot and loadign the same in to Hopper wagons by mechanical means. (50,000 Cum)
62.	GTL-WD Section: Total length of 3.20kms: Proposed through sleeper renewals (P) of existing PSC-5 sleepers with 1310 density etc.,
63.	Guntakal division: GTL-GY section-Supply and stacking of 50mm hard and durable machine crushed stone ballast at Timmancherla Depot
64.	Guntakal division: Guntakal-Wadi section:TWRfor alength of 29.90kms in ADEN/Ad sub division.
65.	Guntakal division: Bellary-Guntakal Section: Through formation treatment rehabiliation of weak formation with moorum blanketing for 15.00kms
66.	Guntakal division: GTL-WD : Section: Supply and st5ocking of 50mm gauge hard and durable machine crushed stone ballast at Raichur Depot and loading the same into hopper/Traffic ballast wagons by mechanical means Qty: 2,50,00 Cum) Two packet sytem.
67.	SW:I-GY-GTL:Section Proposed TRR(P) on Bridge for length on 1.025 (Locations Ann-A) SW:II- GTL-WD Section-Proposed TTRR 2 sets (both CMS+CS) (Locations Ann-B) SW:III: GTL-WD Section Proposed replacement of existing 60 nos of GJ (Locations Ann-D) & SWV:- BAY-GTL Section Proposed TTRR 16 sets (CS only) (Locations Ann-E)
68.	GY-WD Section: Through weld renewal for length of 15.890kms. Under jurisdiction of ADEN/N/GTL and AD
69.	Guntakal Division: GTL-WD section: Through formation treatment (TFTR):-Rehabilitation of weak formation with moorum blanketing for length of 5.500 Kms. (626.500-631.500 DN 5.000 Km. 633.00-633.500 Up 0.500KM) in jurisdiction of SSE/P.Way/YG
70.	Guntakal Division: BAY-GTL, GY-WD Sections: TBR of track with deep screening of ballast by BCM for length of 43.91kms
71.	CTR(P) of exg. 52/90UTS raials on PSC-5 Sleepers M+7 density with new 60kg/90UTS rails LWR ib bew PSC-6 sleepers1660 nos/km.
72.	GY-GTL Section: NKDO station: Proposed IOCL siding @ NKDO station(1) Laying of new formation and track from chainage 445m to 855 m including extension of 2 bridges (2) Laying of three cross overs two overshooting lines and one sandhump on extension of up loop line (Deposit work)
73.	Guntakal Division: GY-GTL-RC-WD & GTL-BAY sections:- Reconditioning of wornout CMS/Heat treated crossings and reconditioning of wornout tongue rails (Switches curved/straight) of 1 in 8 1/2 in 12 I in 16 52/60kg rails section turnout with RDSO approved H-3Class welding electrodes in Divisional Engineer/North/Guntakal jurisdiction.

74.	Guntakal Division: DEN/North Section: Repairs to boundary stones, trolley refugees, sand humps dead ends and supply and fixing of new P.Wayname boards.
75.	Guntakal Division: Recoupment of sand and polythene bags in connection with Emergency Reserve stock in ADEN/BG/Guntakal & ADEN/Raichur Section
76.	Proposed hiring of road vehicles/Trucks of 4.5 tonnes capacity in connection with track maintenance in SSE/P.Way/BG/GTL, SSE/P.Way/AD and SSE/P.Way/YG (total 3 nos) for a period of 2 years.
77.	DEN/North Section: Proposed manual deep screening of ballast in station yards and points and crossings under ADEN/Rc jurisdiction
78.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/YG section of ADEN/RC sub division
79.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/BAY section of ADEN/N/GTL sub division
80.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/MALM section of ADEN/AD sub division
81.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/AD section of ADEN/AD sub division
82.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/RC section of ADEN/RC sub division
83.	Guntakal Division: GTL-WD Section -Proposed safety related maintenance of track (UP/DN) lines including station yards in SSE/P.Way/BG/GTL section of ADEN/N/GTL sub division
84.	Guntakal Division: DEN/North Section: Proposed Manual deep screening of ballast in station yards and points and crossings
85.	Guntakal Division: Repairs to boundary stones, Trolley refugees, Sand humps, dead ends and supply & fixing of new P.Way name boards in view of GMs annual inspection in ADEN/RC Section

Sl.no	IOW contracts in GTLDivision
1.	Provision of 2 nos of lift at Sri Khalahasti station
2.	GTL-South-0327-Renigunta; Repairs to existing damaged antiskid tiles, Granite/Ceramic tiles in waiting halls, doors/windows in waiting hall and retiring rooms, sanitary fittings and open drains etc., station building on all platforms
3.	Engg-GTL-South-0329 ; SW-I:Renigunta-Repairs to Washable Apron of platform No.5 (Road No.7) Renigunta –Repairs to Washable Apron of Platform No 3&4 (Road No 4&5)
4.	Guntakal division : (SW-I): VENKATAGIRI - PROPOSED CONSTRUCTION OF STAFF QUARTERS TYPE-III-1 unit AND TYPE-II-4 units.(SW-II): GUDUR-PROPOSED CONSTRUCTION OF STAFF QUARTERS TYPE-III-1 unit AND TYPE-II-6 units
5.	Engg-GTL-South -0564- SW-I Renigunta - Repairs to ceilings, main/toilet doors, windows, CC flooring in front and court yard & toilet/bath flooring, mosquitoes mesh etc., for staff quarters in CBID colony,East colony and RE Colony. SW-II Muddanuru - Repairs to Exg. doors/Windows, flooring,masquito mesh, roads, court yard doors, drinking water pipe line & rear verandah of Staff Quarters.
6.	Engg-GTL-South-0320;GDR-RU and RU-GTL section;proposed Track machine siding at settigunta,Razampeta stations of RU-GTL section and Yerpedu station of GDR-RU section with rest room facilities
7.	Engg-GTL-South-0433-Guntakal; Maintenance, Repairs/ replacement in respect of petty works in staff Quarters, station buildings, service buildings etc., in SSE(Works)/Renigunta Jurisdiction for a period of one year.
8.	Engg-GTL-South-0433-Guntakal; Maintenance, Repairs/ replacement in respect of petty works in staff Quarters, station buildings, service buildings etc., in SSE(Works)/Renigunta Jurisdiction for a period of one year.
9.	Engg-GTL-South-0286-Sw-1-Renigunta-Provision of 2 Nos of lifts on platform No 1&2 (Now PF No 4&5) and 5 (Now PF No1) & SW-II;Renigunta – Up gradation of Renigunta running

	room.
10.	Engg-GTL-South-0708-Renigunta-Supply of potable water to station and colony
11.	Engg-GTL-South-0565-Guntakal Division: Development of goods sheds for paving, approach road, drinking water, circulating area, merchants room, toilet, labour room at Koduru, Krishnapuram & Rachagunneri stations
12.	Engg-GTL-South-0563; RU-GTL Section - Obulavaripalli - Proposed construction of Boundary wall for vacant land.SW-II RU-GTL sec- Balapalle - Proposed construction of protection wall at Km 157/500-158/250 (up line side) near cutting.
13.	Engg-GTL-South-0530-Rajampeta: Proposed Construction of Type-IV-4 Units for newly created SSE/OHE,SSE/P.Ways(2 Nos)&SMR
14.	Engg-GTL-South-0622:- (SW-I): Proposed construction of GLR 65,000 ltrs capacity at Yerraguntla & Muddanur stations and(SW-II): Provision of water softeners for RO plants 3.00 lakh ltrs cap at Kadapa station and 50,000 ltrs capacity at Yerraguntla & Muddanur stations
15.	Engg-GTL-South-0702-Guntakal Division-Repairs to staff quarters at Nandalur,Rajampeta,Koduru and Mamnduru stations in ADEN/RJP sub-Division
16.	Engg-GTL-South-9818-Guntakal Division-Up dation,certification and construction etc., of land plans in Sr.DEN/South jurisdiction
17.	Engg-GTL-South-0621- : GTL-RU section - Proposed extension of Platforms to hold 24/26/LHB coaches at Koduru and Rajampeta Stations.
18.	Engg-GTL-South-0704 –Guntakal Division : Providing housekeeping and Maintenance services for Track Machine Rest Houses, Officers Rest Houses/Subordinate Rest Houses etc., available at various stations under DEN/South Jurisdiction for a period of 24 months (Details as per annexure
19.	Engg-GTL-South-0754; Repairs to VIP Lounge at MOO&YA stations &SW-II;Repairs to VIP lounge and improvements to circulating area at RJP&KOU
20.	GTL-South-0196; 1)Repairs to septic tanks for 20 users 7 Nos (i.e at KOU -02 Nos, ANE-01 No,OBVP-01 No,PMT-01 No.,BKP-01 No&RJP-01 No stations) and Repairs to septic tanks for 50 users 3 Nos, at Nandalur station in ADEN/RJP sub-division.SW-II ;GTL-RU section - Improvements to drinking water arrangements in ADEN/HX & RJP sub-division.SW-III RU-GTL sec; proposed central drain of 800m length and CC pathways at KPU,GPY,YGD and KMH stations..
21.	Guntakal Division:- South-0707; Guntakal Division-Repairs to station buildings at Nandalur,Rajapeta and Koduru stations in ADEN/RJP sub-division.
22.	(SW-I): Replacement of old dilapidated station building with New Station Building and circulating area at Settigunta, Yerpedu & Nidigallu stations. (SW-II):Kadapa & Koduru Replacement of damaged old jack arched with HX slab roof of station building.
23.	Supply of RO water and maintenance of RO plant for two years
24.	Engg-GTL-South-0575; SW-I: GTL-RU section- Proposed extension of PFs to hold 24/26/LHB coaches at Kada, pa and Yerraguntla stations and SW-II: GTL-RU section - Proposed extension of PFs to hold 24/26/LHB coaches and Raising of HL PFs at Muddanuru station.
25.	Engg-GTL-0531-Yerraguntla-Nandyal(Newly Opened section): Execution of residual and Repairs to GC work at all stations at (a) Proddutur (b) Jammalamadugu (c) S.Uppalapadu (d)Nossam (e)Sanjamala (f)Kovelakuntla &(g)Banaganapalli stations
26.	Engg-GTL-South-0333-Kadapa-Repairs to service building including roof leakages in existing station building , existing drainage system, flooring in concourse/portico,all waiting rooms, circulating area, CC flooring in RUB near station,COP gutter leakages etc.
27.	ENGG-GTL –South-0350;- SW-I:GTL- Provision of MEA facilities including Toilet facility for DIVYANG People at various Stations over Guntakal division and long term/short facilities for Persons with Disability(PwD)(in DEN/South/GTL Jurisdiction). SW-II: GTL Division: Provision of short term facilities like toilets, water taps, Ramp, Braille Script Display board ,Trolley path etc., for Divyang people physically challenged person at D,E & F category stations over GTL Division
28.	Engg-GTL-South-0285;SW-1 RU-GTL Sec;provision of required facilities in trackmachine siding at nandalur, Mamandur and srikalahasthi stations SW-II;RU-GTL Sec; Provision of required facilities in trackmachine siding at Kamalaouram, kadapa and ontimitta stations
29.	Engg-GTL-South-0349; Maintenance, Repairs/replacement in respect of petty works in staff quartrs, station buildings, service buildings etc., in SSE(Works) /Kadapa jurisdiction for a period of one year.

30.	Guntakal Division - SW-(I) Repairs to existing platform floorings, fencing walls, trolley paths,water tap pedestals, benches, brightening of station buildings & service buildings, etc., in ADEN/HX Sub - Division. SW-(II) Guntakal - Renigunta Section - Krishnapuram - Proposal for extension of existing loading / unloading platform by 140m length with rail level platform.
31.	Engg-GTL-South-0575; SW-I: GTL-RU section- Proposed extension of PFs to hold 24/26/LHB coaches at Kada, pa and Yerraguntla stations and SW-II: GTL-RU section - Proposed extension of PFs to hold 24/26/LHB coaches and Raising of HL PFs at Muddanuru station.
32.	Guntakal Division;-Engg-GTL-South-68-SW-1 Renigunta-Provision of 01 No.Escalator.SW-II; Guntakal Division; Provision of 01 No passenger light on platfor at Kadapa.
33.	Guntakal Division:- South-0701-Maintenance, Repairs/replacement in respect of petty works in staff quartrs, station buildings, service buildings etc., in SSE(Works) /Kadapa jurisdiction for a period of one year.
34.	ENGG-GTL-Central-0212;Guntakal Divn ;Dhone ;-Replacement of staff quarters Type -II -10 units and type-II-10units and type-10 units and type-iii-5 units for engineering staff and (SW-II)Dhone;Repairs to flooring in hall,bed rooms, toilets, bath ,court yard etc
35.	ENGG-GTL-Central-0456: GTL DivisionLSW-I): RU-GTL Sec: Provision of required facilities in Track Machines siding at Vanganuru, Kondapuram and Muddanuru stations, (SW-II):RU-GTL Section: Provision of required facilities in track Machine siding at rayalacheruvu station. SW-III): GY: Proposed construction of compound wall to Diesel shed. (SW-IV): GY- Replacement of Type-V staff quarter (1 unit) for Sr DME.Dsl.GY in lieu of condemned.No. GY-38A, (SW-V): Development of goods sheds for paving, approach road, drinking water, circulating area, merchants room, toilet, labour room at Rayalacheruvu station, (SW_VI): GY: Proposed Leveling of the undulated Railway play Ground at Railway Institute and provision of Running-Walking track, (SW-VII): GY-DMM section: Repairs to Road Over Bridge at Railway Km.211-4-5 and 262-4-5 in stations between GY-ATP in SSE-P.Way-DMM section
36.	ENGG-GTL-Central-0456: GTL DivisionLSW-I): RU-GTL Sec: Provision of required facilities in Track Machines siding at Vanganuru, Kondapuram and Muddanuru stations, (SW-II):RU-GTL Section: Provision of required facilities in track Machine siding at rayalacheruvu station. SW-III): GY: Proposed construction of compound wall to Diesel shed. (SW-IV): GY- Replacement of Type-V staff quarter (1 unit) for Sr DME.Dsl.GY in lieu of condemned.No. GY-38A, (SW-V): Development of goods sheds for paving, approach road, drinking water, circulating area, merchants room, toilet, labour room at Rayalacheruvu station, (SW_VI): GY: Proposed Leveling of the undulated Railway play Ground at Railway Institute and provision of Running-Walking track, (SW-VII): GY-DMM section: Repairs to Road Over Bridge at Railway Km.211-4-5 and 262-4-5 in stations between GY-ATP in SSE-P.Way-DMM section
37.	Engg-GTL-Central-0606: Guntakal Division: Hiring of pick up trucks asTATA 497 SP/Kargo- king Mahendra NC-640 DP for SSE(Works) Dhone, Gooty and Dharmavaram for Urgency/Preventive maintenance attending repairs to bridge/buildings works in Sub- division jurisdiction for two years (24months) (3 Vehicles x24 months)
38.	GTL-division:-BOX-N/ROH/GY:-extension of sick wagon attention shed for ROH and C Category repairs to Wagons
39.	GTL-DIV: GY-SW-I Proposed augmentation of water supply distribution pipe line arrangeents in GY colonies and SW-II Proposed replacement of leaky RCC HL tank 0.9lakhs capacity with a new tank of 1.5 lakhs leters capacity.
40.	ENGG-GTL-Central-0456: GTL DivisionLSW-I): RU-GTL Sec: Provision of required facilities in Track Machines siding at Vanganuru, Kondapuram and Muddanuru stations, (SW-II):RU-GTL Section: Provision of required facilities in track Machine siding at rayalacheruvu station. SW-III): GY: Proposed construction of compound wall to Diesel shed. (SW-IV): GY- Replacement of Type-V staff quarter (1 unit) for Sr DME.Dsl.GY in lieu of condemned.No. GY-38A, (SW-V): Development of goods sheds for paving, approach road, drinking water, circulating area, merchants room, toilet, labour room at Rayalacheruvu station, (SW_VI): GY: Proposed Leveling of the undulated Railway play Ground at Railway Institute and provision of Running-Walking track, (SW-VII): GY-DMM section: Repairs to Road Over Bridge at Railway Km.211-4-5 and 262-4-5 in stations between GY- ATP in SSE-P.Way-DMM section
41.	ENGG _ GTL Central – 0525: Guntakal Division : Renigunta – Guntakal Section : SW- I: Proposed extension of Platforms No:1 and 2 & 3 to hold 24/26/LHB coaches at Tadipatri station.(SW –II):Gooty :Diesel shed: Repairs /Conversion of GY/15 into staff canteen in diesel shed for Diesel shed staff and (SW- III):Komali : Repairs to flooring in equipment/Battery/Tele/Dy SS rooms, toilets and repairs to circulating area, platform surface.

42.	9763/Nandyal -GTL section provision of rail level platform at Rangapuram, Maliyala and Tuggali stations including provision of CC pathway to inter connecting the two platforms end
43.	ENGG-GTL-Central-0458: GTL Division: (SW-I): Development of goods sheds for paving, approach road, drinking water, circulating area, merchants room, toilet, labour room at Malliyala, Malkapuram, Panyam, Rangapuram stations in DEN/Central/GTL jurisdiction, (SW-II):- Repairs to open drainage system in Dhone yard between Km.331/8 to 331/2 on LH & RH side and (SW-III): Proposed construction of boundary wall between Km.331/8 to 332/2 between Dhone and Malkapuram station.
44.	ENGG-GTL-Central-0572 : Guntakal Division: Renigunta- Guntakal Section: (SW-I): Provision of new water supply source to Kondapuram from Chitravathi river (parallel to railway boundary) in lieu of submerged in connection with formation of Gandikota Dam reservoir, (SW-II): Proposed extension of platforms to hold 24/26 LHB coaches at Kondapuram station and (SW-III): Ragadipalle: Repairs to flooring in equipment/Battery/Tele/Dy.SS rooms, toilets and repairs to circulating area, platform surface.
45.	9964/Central/2016 Guntakal Divn(SW-1);DHNE;Repairs to existing service building to accommodate additional beds to TTEs rest room& (SW-II)PGRI;Repairs to roof leakage, flooring, drainage &sewage pipelines, providing of shelves improvements to kitchen etc
46.	Engg-GTL-Central-0727: GTL Divn: Gooty: Provision of 2 Nos of Passenger lift on platform at Gooty station. (Civil Engineering portion)
47.	ENGG-GTL-Central-0794 GTL-KLU (doubling) section-Execution of residual works at all stations
48.	ENGG-GTL-Central-0675: NDL-GTL Section: Repairs to store shed in SSE/P.Way/DHNE and SSE/P.Way/NDL office.
49.	0190/DMM-GY section repairs to PF flooring and FOBs (safety border antiskid chequered tiles)
50.	ENGG-GTL-Central-0555: Guntakal Division: Renigunta- Guntakal Section: Maintenance, Repairs/ replacement in respect of petty works in station buildings, service buildings and staff Quarters, etc., in SSE/Works/Gooty section for a period of One year.
51.	ENGG-GTL-Central-0558: Guntakal Division: Guntakal & Pendekal- Gooty section: Maintenance, Repairs/ replacement in respect of petty works in station buildings, service buildings and staff Quarters, etc., in SSE(Works)/Dhone section for a period of One year.
52.	ENGG-GTL-Central-0572 : Guntakal Division: Renigunta- Guntakal Section: (SW-I): Provision of new water supply source to Kondapuram from Chitravathi river (parallel to railway boundary) in lieu of submerged in connection with formation of Gandikota Dam reservoir, (SW-II): Proposed extension of platforms to hold 24/26 LHB coaches at Kondapuram station and (SW-III): Ragadipalle: Repairs to flooring in equipment/Battery/Tele/Dy.SS rooms, toilets and repairs to circulating area, platform surface.
53.	9964/Central/2016 Guntakal Divn(SW-1);DHNE;Repairs to existing service building to accommodate additional beds to TTEs rest room& (SW-II)PGRI;Repairs to roof leakage, flooring, drainage &sewage pipelines, providing of shelves improvements to kitchen etc
54.	9615/Central/2014;Guntakal Divn;Nandyal-Guntakal section; Repairs to service buildings, platforms, circulating areas, including all passenger amenities at Dhone
55.	SW-I: Guntakal-Agumentation opf capacity of RO water plant and storage tank capacity of 50000 gallon capacity SW-II: Guntakal-Provision of clarifier, filter,GLR
56.	GTL: Repairs to existing COP facia PF No. 5 & 6 to suite new electrtic loco pantograph of size 2032mm at Guntakal station
57.	Guntakal-Raising of existing summer storage tank bund to increase water storage capacity
58.	Guntakal -Proposed mass tree plantation around Railway land/boundary to avoid encroachments including maintenance of tree plantation for One year in South colony under SDEN/SW sub divisionn
59.	GTL Divn-Guntakal repairs to Staff Qrs. SW; I: Qrs. No. 395/A-D,396/A-D, 408/A-D, 426/A-D and 327/A-j,
60.	Sw-II: Qtrs No. 714/A-D to 719/A-D, 728/A-D to 738/A-D, 397/C-H and 380/A-F,
61.	SW-III:Qtrs No. 432/A-D to 435/A-D, 637/A-D to 644/A-D, 372/K and 373/A-H,
62.	SW-IV: Repairs/ improvements to Officers Quarters No.987/B,1043,618,619, 1083, 1084, 17, 18,1158 to 1162 and 1163 (Type-V) in Prabhath nagar,
63.	SW-V: Provision of compound wall, front and rear court yard flooring, two wheeler parking shed, wire mesh to doors and windows, cooking platform, repairs to wall plastering to hanuman nagar quarters for Model colony &

64.	SW-VI: Repairs to leaky proof for service building Nos. GTL/1022 (ORH), GTL/1065(DTTC), GTL/823 (TM school), GTL/1055-A (Rly. Jr. College and staff quarters No. 766-776,792,819,781- 783, 988-989 at V.V.Nagar/Guntakal.
65.	GTL-Division : SW-I: Provision of butterfly shelters at Guntakal station& SW-II : Provisioun of one (01) escalator at Guntakal station on new platform (Civil Engineering portion)
66.	Guntakal Divn: (SW-I): Guntakal-Repairs to existing water pipe line arrangement including provision of water storage tank for staff quarters nos. 14,157,158 and 864 to 904 (90units) in Hanuman Nagar and (SW-II): Guntakal: Repairs to corroded/damaged water hydrant pipe line on platform nos. 3,4,5 & 6.
67.	Guntakal: (SW-I): Provision of essential amenities to Officer's quarters Nos. 987/B, 1043, 618, 619, 1083, 1084, 17, 18, 1158, 1159, 1160, 1161, 1162 and 1163 (Type-IV) in Prabath Nagar, (SW-II): Provision of accommodation for DEN/West, ADEN/Bridges office for staff on first floor of DRM/Office/GTL, (SW-III): Repairs to officers chambers, drawing branch, works branch office (i.e. drawing branch, store section, steno rooms etc.) in Divisional office/Guntakal, (SW-IV): Provision of 1 nos of passenger lift to the new platform of Guntakal new station building & (SW-V):GTL:Proposed construction Dormitory for Female trainees in Divisional civil Engg Training Centre (DCETC/GTL).
68.	Guntakal Division:(SW-I):Repairs to Toilets, Bathrooms, Rising of compound wall, Shuttle court, Office room, Sanitary arrangements, Lawn Tennis ball Guarding, stage etc., in Railway Institute at Guntakal,(SW-II):Repairs to toilets, pathway, playground, compound wall, stage, Perished doors and windows etc., in Chandamama school in North colony at Guntakal & (SW-III):Repairs to toilets and urinal at Chandamama school in South Colony/Guntakal, (SW-IV): Proposed construction of compound wall around the sports pavilion ground at Guntakal,(SW-V):Repairs to girls toilets, auditorium room, compound wall, replacement of perished windows, ventilators etc., in K.V.School and (SW-VI):Repairs to flooring, cooking platform, repairs to wall plastering, perished doors and windows etc in Railway Hospital Canteen at Guntakal.
69.	Guntakal Division: Redevelopment of new station building at Guntakal-(SW-I): Improvements to facade Entry, exit location concourse/ longue areas etc.,and(SW-II): Improvements to circulating area, traffic flow pattern landscape and Entry arches etc.
70.	Guntakal Division: Redevelopment of Guntakal Railway station:(SW-I): Improvements to existing waiting halls, Dy.SS.Chambers, platform surface etc., on platform no.5&6, Development of new circulating area, parking area Beautification of station through local artists and (SW-II): Provision of open waiting hall, development of interior & exterior of new PF& Buildings etc., Provision of various facilities to divyangjan, Provision of water supply arrangements in circulating area & along approach road of new station building and Provision of common toilets in all existing platforms, other miscellaneous works.
71.	Guntakal Divn : Guntakal : (SW.I): Pro.Construction of Parcel Office, provision of cubicles in Dormitory , Retiring rooms in first floor of new station building and other related passenger amenities like PF benches , PF taps, PF surfaces etc., On new PF no.1, (SW.II): Pro.construction of meeting hall in first floor of personnel branch with toilet facilities etc., in DRM's Office, (SW.III): Pro.construction of visitors room and cycle stand near control office in DRM's Office compound and (SW.IV):Pro.construction of lunch and rest room for working female employees in the first floor of Account Office building as annexe in DRM's Office compound.
72.	Guntakal: Improvements to greeneries, plantation and maintenance of lawns, shrubs and trees at various parks at V.V. Nagar, Prabhat Nagar, Shanthi Nagar, Ambedkar park, Tank side gardens in colonies in connection with Environment related works/items
73.	Guntakal Division: Proposed extension of new Platform to hold 24/26 LHB coaches at Guntakal station
74.	Guntakal division: Repairs to washable apron on platform No.6(Road-6) of Guntakal station yard
75.	Guntakal Division: Guntakal: Provision of various facilities like Rest House, boundary wall, RCC pit lines, approach Road, Garage and OH Tank, etc in Satellite Track Machine Depot at Timmancherla station
76.	Guntakal division: Provision of Toilets and Borewells at Manned Level Crossings in DEN/Central, South and West Jurisdictions
77.	Guntakal : Improvements of Greeneries along the colony roads at Guntakal
78.	Guntakal : Development of Greeneries and joining to new circulating area and along Prabhat Nagar road in connection with environment related works/items

79.	Guntakal Division : Guntakal : Beautification of station building:Provision of Art Work like Murals,Glass painting,3D-Painting., in New Station Building
80.	Guntakal Division: Guntakal:(SW-I) : Provision of RCC washable apron on new platform and (SW-II): Provision of CC pathway (Trolley path) interconnection to all platforms end towards Wadi end
81.	GTL Divn: Providing house keeping services-Maintenance of service office buildings , at Guntakal (Cosy Rail Cottage/ORH, Supervisors /Subordinate Rest House , Gr 'D" staff rest house, Divisional office, CETC/ Officer's Club, Railway Highschools, (TM & EM), Railway Junior College other allied service/Offices etc.,) including maintenance of circulating area, compound, roads, roofs, Pathways, drainages, etc., & maintenance of gardens/Lawns etc for 24 months
82.	Guntakal Division:Guntakal:(SW-I):Provision of individual water storage tanks for staff amenities & various service buildings like ORH, Schools, Railway Institute, Community hall etc., & (SW-II):Improvements to Divisional Civil Engineering Training Centre.
83.	Guntakal Division : Guntakal: Provision of Additional summer storage tank(adjacent/ near to existing Summer storage tank at Guntakal West)
84.	SW-I:-Guntakal- Replacement of existing CI pipe line and GI pipe line with PPR pipe line for RO treated water in Prabhat nagar and Hanuman nagar. SW-II:- Guntakal - Replacement of filter media of rapid sand filter 1&2 at GTL GLR.
85.	Guntakal Division : Guntakal: Maintenance, Repairs/replacement in respect of petty works in Staff Quarters, station buildings, service buildings etc., in ADEN/SW/GTL Jurisdiction for a period of one year.
86.	SW-I:- Guntakal - Provision of 400 KLD sewage treated Plant etc., for South Colony, SW-II:- Guntakal - Provision of sewage treatment Plant 400 KLD with GLR for North Colony, SW-III:- Guntakal - Provision of dedicated pipeline for distribution of treated sewage water to Greeneries, apron and platform washing etc.,.
87.	Guntakal: Cleaning of water tank under SSE/W/WW/GTL jurisdiction for one year.
88.	Guntakal: SW.I Supply of treated water and maintenance of RO water plant for two years . SW.II. Supply of treated water and maintenance of R.O plant for two years (North colony)
89.	Guntakal:-Improvements to facade of DRM's office building, improvements to staff amenities and special wards in Railway Hospital/GTL
90.	GTL Divn: Proposed painting of Diesel Loco Sheds at Guntakal, Gooty, CRS/Tirupathi including sleeper seating painting on Girder Bridges over Guntakal division.
91.	GTL-KLU (Doubling Section) - Execution of Residual works at all stations (FOBs at HNMN, GPU, VPL and KDT stations)
92.	Guntakal Division: SW:I- GTL-WD section:- Provision of deep bore wells pipe lines stage arrangements (tank) including staging arrangements for staff quarters. SW:II- Guntakal Division:-Provision of Toilets and Bore wells at Manned Level crossings in DEN/North jurisdiction.
93.	Guntakal: Proposed construction of building for ADEN/N/GTL at Guntakal SW:II-MALM-Proposed construction of office buildings for SSE/P/Way/MALM
94.	Krishna-Augmentation of coach watering arrangements at Krishna station
95.	Guntakal Division: Development of goods sheds for paving,approach road, draining water circulating area goods sheds merchants room, toilet, labour room for stations (Adoni, guntakal West, Yadir)
96.	Guntakal Division - replacement of old existing dilapidated condition station building with new station building at HDD, VP,BNL in BAY - GTL section and MRC, CGI station in GTL-WD section.
97.	Provision of GLR & OHT and Rapid sand filter at Yadgir station and SW:II -Provision of Rapid sand filter at MALM, KSN stations
98.	Guntakal Division: Updation, Certification and construction etc., of land plans in DEN/North jurisdiction.
99.	Guntakal: Provision of additional accommodation for DTTC Hostel with individual cubicles and SW:II- Repairs to Scout Den (White house)
100.	GTL Divn. GY-WD, BAY-GTL Section: Supply of water to gang staff and colonies in DEN/North/GTL jurisdiction through private agency for a period of two years.
101.	Guntakal Division: Providing housekeeping and maintenance services for track machine staff subordinate houses orh etc., at various stations in DEN/North/GTL jurisdiction for the

	period of 24 months
102.	Guntakal Division: Extension of swimming pool in Rail Club to 25m length , Provision of additional accomodation for table tenninis & Culteral activities. Etc.,
103.	Guntakal Division: GTL-WD Section: Maintenance repairs /replacement in respect of petty works in station buildings and service buildings and staff qrs. In Sse/Works/R section

Sl.no.	Bridges contracts in GTL Division
1.	Guntakal division ;- Guduri-Renigunta section; proposed construction of new Bridge No. 29A @km.29/1-3 as 1 x 5.00 X 3.74m RCC Boxes between NDZ –VKI stations 15m away from existing Bridge No.30 towards Guduru by Box oushing methos.SW-II; GDR-RU section; proposed construction of new Bridge No 30A @Km 29/1-3 as 2 x 5.00 x 3.70m RCC Boxes between NDZ-VKI stations 15m away from existing Bridge No.30 towards Renigunta by Box pushing method
2.	Guntakal division ;- Gudur-Renigunta section; proposed construction of new Bridge No.33A@km.30/0-1 as 2 x 6.00 x 3.75m RCC Boxes 35m away from existing bridge No.33 towards Renigunta by Box pushing method between NDZ-Venkatagiri Stations.
3.	Guntakal division ;- Guduri-Renigunta section; proposed construction of new bridges No.13 A & at Km.18/8-9 as 2x4.00x2.65m RCC Boxes @VDD station yard 10m away from existing Bridge No.14 towards Guduru by BOX pushing method.SW-II Guntakal Division;GDR-RU section; proposed construction of new Bridge No.14A @Km.18/8-9 as 1x4..00x2.60 RCC Boxes &VDD station yard 10m away from existing Bridge No.14 towards Renigunta by Box pushing method.
4.	Engg-GTL-South-0667-GTL Division;Gudur-Renigunta section;proposed extension of bridge No 106(UP)Existing 2x6.10m RCC slab to be extended with 2 x 6.10m PSC slab (Post tensioned)
5.	Engg-GTL-South-0368;SW-1; Gudur- Renigunta section;Protective works to Bridge no.59 and 118 and providing katcha earthe drain at Km.49/16-52/6 between Yellakaru-Sri Kalahasthi station in SSE/P.Way/RU section.SW-II Guntakal division; Repairs to to bridge protective works in Renigunta-Gudur section in ADEN/RU section.SW-III.Guntakal Division;proposed construction of toe wall at Km.57/21-27 and central drain at Km.58/5-59/1 at major bridge no.70 approach between yellakaru-Sri Kalahasthi in SSE/P.Way/RU section.
6.	Engg-GTL-0467-GTL Division ;(1)GDR-RU&RU-GTL section;-proposed inter changing of rails in curves in SSE/P/RU,VKI,KOU,NRE sections pertains to DEN/South jurisdiction (II)proposed repairs to Bridges in SSE/P/KOU&NRE sections.(III)proposed design mode tamping in SSE/P/KOU &NRE sections.
7.	Engg-GTL-South-0492-Renigunta-Guntakal Section: Proposed Rebuilding of Br.no 516 up @ km.261/9-262/0, 518 up @ Km.626/1-2, 519 up @ Km.262/2-3, 521 up @ Km.262/4-5, 522 up @ Km.262/6-7, 523 up @ Km.262/6-7, 524 up @ Km.262/7-8, 525 up @ Km.262/9263/0, 526 up @ Km.263/0-1, 531 up @ Km.264/5-6, 532 up @ Km.264/6-7, 544up @ Km.270-6-7 STC existing STCs to RCC Boxes
8.	Engg-GTL-South-0379-RU-GY section; SW-1;proposed rebuilding of stone top culverts in th jurisdiction of ADEN/RJP(Bridge No.243 UP,244UP,247 UP,318 UP,371UP Loop) SW;II RU-GY section;proposed rebuilding of stone top culverts in the jurisdiction of ADEN/Kadapa (Bridge No-508,515UP,516UP,526 UP,529 UP)
9.	SW(I).Guntakal Division: Renigunta - Guntakal section : ADEN/Kadapa Sub division : Proposed reparis to CC steps , construction of drop walls/ curtain wall/ wing /return wall and construction of Ballast retaining wall and parapet wall, providing toe walls and pitching and other repair works for minor and major brides in Up line and down line SW.(II). RUGooty section : ADEN/ Rajampeta sub section : Proposed repairs to bridges having condition rating number as ORN - 3 and 4 SW.(III) RU- Gooty section : Repairs to base plates for the bridge no. 537 on HX - Krishnapuram stations
10.	Engg-GTL-Central-0386:-GTL Division:SW-I DMM-GY section:- Proposed construction of RUB(Subway) of Size 1X6.00X5.00m RCC Box in lieu of LC.No.118(Manned) at Km.187/2-3.SW-II:-DMM-GY :-Proposed construction of retaining nwalls for approach roads of Proposed RUB at LC.No.118.

11.	ENGG-GTL-Central-0601: Guntakal Division: Guntakal –Nandyal section; (SW-I) Proposed replacement of RCC slabs for Bridge for Bridge no. 215(4x7.59m), (SW-II) Bridge no. 58 (1 x 6.10m), Bridge NO. 211(1 x6.10) with PSC slabs with Post tensioned.
12.	Engg-GTL-Central-0550: Guntakal Division: Guntakal-Nandyal Section: Proposed replacement of RCC slabs for Bridge no.210(9 x 6.10) post tensioned
13.	ENGG – GTL - Central- 0554:Guntakal Division : Guntakal – Nandyal section : Proposed replacement of Existing RCC slabs for Bridge No.59(span 5 X 6.10m)(Post tensioned).
14.	9942/Central/2016: SW-I:- Guntakal –Nandyal Section- Proposed replacement of RCC slab for Br No.61 (1x6.1) and 191 (1x6.1). SW-II:- Proposed replacement of RCC slab for Bridge No. 155 (1x6.1), 189 (1x6.1) and 198(1x6.1) (5 bridges with 5 spans)
15.	ENGG-GTL-Central-0607: GTL Division: SW(I) GTL Division: Renigunta- Gooty Section: Proposed replacement of Girder bridge with PSC slabs for Br No. 794(UP) Exg. 8 x 9.15m GB to be replaced with 8 x 9.15m PSC slab (Post tensioned) SW-(II) GTL Division: Renigunta – Gooty section: Proposed replacement of Girder Bridge with PSC slabs for no. 795 (Down) Exg.4 x9.15m GB to be replaced with 4 x 9.15m PSC slab (post tensioned).
16.	Engg-GTL-Central-0597: Guntakal Division: DHARMAVARAM- GOOTY SECTION: Proposed construction of Road Under Bridges in lieu of Manned LC NO. 132-A as 1 x 6.00 x5.00m RCC Box by open cut and cover method in stations between Taticherla- Garladinne stations.
17.	Engg-GTL-Central-0386:-GTL Division:SW-I DMM-GY section:- Proposed construction of RUB(Subway) of Size 1X6.00X5.00m RCC Box in lieu of LC.No.133(Manned) at Km.223/2-3.SW-II:-DMM-GY Proposed RUB(sub way) of size 1x6.00x5.00 m RCC Box in lieu of LC.No.144(manned) at Km 244/2-3.SW-III:-GTL division DMM-GY section:-Proposed construction of retaining nwalls for approach roads of Proposed RUB at LC.No.133. SW-IV:- DMM-GY:- Proposed construction of retaining wall for approach Propiosed RUB at LC.No.144
18.	ENGG-GTL-Central-0385: SW(I). Dharmavaram-Gooty section: Proposed construction of Road Under Bridge (Subway) of size 1X6.00X5.00m RCC Box in lieu of LC no 136(Manned) at Km 232/7-8 between GDE-KLU stations by cut and cover method. SW.(II).Dharmavaram-Gooty section: Proposed construction of Road Under Bridge (Subway) of size1X6.00X5.00m RCC Box in lieu of LC no.140(Manned)at km 236/2-3 between GDE-KLU stations by cut and cover method. SW(III) Guntakal Division: DMM-GY section: Proposed construction of retaining walls for approach roads of proposed RUB at LC No.136 & 140
19.	ENGG-GTL-Central-0385: SW(I). Dharmavaram-Gooty section: Proposed construction of Road Under Bridge (Subway) of size 1X6.00X5.00m RCC Box in lieu of LC no 136(Manned) at Km 232/7-8 between GDE-KLU
20.	Engg-GTL-Central-0280: GTL Div: SW.I: GY-KLU & KLU-GTL section: Proposed repairs to major and minor bridges SW.II: DMM-KLU section: Proposed repairs to Major and Minor bridges

3.6 Non-Safety position of Engg Dept over GTL Division as on 15.7.2020. :

S.No	Category	GP	San	Act	Vac
P. WAY WING					
Carpenter/P.Way					
1	Sr.Tech	4200	2	0	2
2	Gr.I	2800	1	1	0
3	Gr.II	2400	10	5	5
4	Gr.III	1800	6	7	-1
	Total		19	13	6
	Total in P.way		19	13	6
Works WING					
Carpenter/Works					
1	Sr.Tech	4200	10	2	8
2	Gr.I	2800	21	11	10
3	Gr.II	2400	3	6	-3
4	Gr.III	1900	2	7	-5
	Total		36	26	10
Mason/Works					
1	Sr.Tech	4200	15	2	13
2	Gr.I	2800	31	10	21
3	Gr.II	2400	5	5	0
4	Gr.III	1900	3	10	-7
	Total		54	27	27
Plumber/Works					
1	Sr.Tech	4200	12	2	10
2	Gr.I	2800	23	15	8
3	Gr.II	2400	4	5	-1
4	Gr.III	1900	6	6	0
	Total		45	28	17
Cook					
1	Cook	1800	2	0	2
	Total		2	0	2
Valveman					
1	Valveman	1800	30	0	30
	Total		30	0	30
Misc.Categories					
1	Multipurpose Khalasi	1800	78	57	21
	Total		78	57	21
	Total in Works wing		245	138	107
	Total Non-Safety Position		264	151	113

3.7 The activities permitted to work under Contract in Engineering organization. some works are being done on Zonal contract Viz; white washing, colour washing, Distempering & painting, polishing & varnishing, Road and platform works, and Water proofing etc.

3.8 As per letter no. E(MPP)96/1/15 dated 21.11.2017 [RBE No. 172/2017], the

following activities come under safety category in Engineering Department:

S No	Designation/ Post
11.	JE/SSE / P.Way
12.	JE/SSE Track Machines
13.	JE/SSE / Bridges
14.	JE/SSE / Works
15.	Track Maintainer Gr.I, II, III,IV (i.e Mate, Keyman, Track man, Gate man, Petrol man, trolley man)
16.	Black Smith
17.	Welder
18.	Technician (Track Machine) of open line and repair & maintenance depot/ workshops
19.	Bridge Technician (Saran, Riveter, welder, Black smith, Grinder, Fitter, Machinist, Turner, Driller) of open line organization and Bridge workshop.
20.	Helper of Black smith/ Welder

3.9 Requirement of Staff:

3.9.1 Carpenter: This activity is a non-safety & noncore activity. Most of the carpenter activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Carpenter /P.WAY	19	13	6
Carpenter /works	36	26	10
Total	55	39	16

3.9.2 Mason :

This activity is a non-safety & noncore activity. Most of the Mason activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Mason/works	54	27	27
Total	54	27	27

3.9.3 Plumber : This activity is a non-safety & noncore activity. Most of the plumbing activities in the Engineering organization are outsourced and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Plumber /works	45	28	17
Total	45	28	17

3.9.4 Valveman: This activity is a non-safety & noncore activity. Since most of the colonies and stations are having water distribution contracts, such activities in the Engineering organization are outsourced . Hence, this activity became redundant and posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Valveman	30	0	30
Total	30	0	30

3.9.5 Cook: This activity is a non-safety & noncore activity. This activity became redundant and posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Cook	2	0	2
Total	2	0	2

3.9.6 Group-D Miscellaneous Category: These categories are come under non safety /non core activity. As per Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 non safety/ non core activities to be outsource in order to reduce the expenditure. Hence the vacant posts may be surrendered.

1	Multipurpose Khalasi	78	57	21
	Total	78	57	21

- Summary of non safety/noncore staff position in Engineering Department:

S.No.	Design	Sanction	Actual	Vacancy
1	Carpenter	55	39	16
2	Mason	54	27	27
3	Plumber	45	28	17
4	Valveman	30	0	30
5	Cook	2	0	2
6	Group-D Miscellaneous Category	78	57	21
	Total	264	151	113

- With the above table it is observed that there are 264 sanctioned posts, 151 on roll staff and 113 vacant posts in non safety/ noncore categories of Engineering Department over GTL Division.
- **In view of the above, it is recommended as follows.**
- RECOMMENDATION:**
It is recommended to surrender 113 vacant posts from sanctions of Engineering department over GTL division.
- **SUGGESTION:** As per Railway Board Lr. No. E(MPP) 2016/1/59 dated 10/01/2017 non safety/ non core activities to be outsource in order to reduce the expenditure. The above non-safety/ non-core activities are outsourced considerably. Hence it is suggested to outsource the remaining activities and resultant posts may be surrendered. **Status of outsourcing may be intimated to this office for further review of the work-study.**

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अध्याय-4
CHAPTER – 4

4.0 वित्तीय परिणाम FINANCIAL IMPLICATIONS:

- 4.1 When the recommendations are accepted, the recurring savings on surrender of the following posts in Engineering department over GTL Division will be as follows:

S N o	Category	Scale		No. of po sts	Mean Pay	Level	DA @ 17%	Emolumen ts P.M (in Rs.)	Total Emoluments P.A (in Rs.)
		From	10 th level						
1	Carpenter	18000	23500	16	20750	I	3528	388448	4661376
2	Mason	18000	23500	27	20750	I	3528	655506	7866072
3	Plumber	18000	23500	17	20750	I	3528	412726	4952712
4	Cook	18000	23500	2	20750	I	3528	48556	582672
5	Valveman	18000	23500	30	20750	I	3528	728340	8740080
6	Gr.D Misc	1800	23500	21	20750	1	3528	509838	6118056
	TOTAL			113					32920968

On implementation of the recommendations of Work-study report, an annual savings of **Rs.3.29 crores** can be achieved.

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સંસ્તુતી / સુઝાવ

RECOMMENDATION / SUGGESTION

Sl. No.	<u>સિફારિશ</u> <u>Recommendation:</u>	Para No.
01	It is recommended to surrender 113 vacant posts from sanctions of Engineering department over GTL division.	3.12