

ACKNOWLEDGEMENT

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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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പ്ലാൻ-റേറ്റ് S Y N O P S I S

- **തീരുമാനം/Subject:** Review of Staff Strength of Engineering Department over Vijayawada Division.
- **നേതൃത്വം/Authority:** Annual Programme of Work studies 2020-21.
- **പ്രോജക്ട് നമ്പർ/Study No:** WSSCR-07/2020-21.
- **റഫറൻസ് ഫയൽ നമ്പർ/Reference File No:** G.276/2/WSSCR-07/ 2020-21.
- **പ്രദേശം/Area of Activity:** Engineering Department over Vijayawada 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 BZA 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:** Vijayawada 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 BZA 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.
- **Jan-2020 IR average and Bench Marking of BZA division is as follows.**

Organization	MPR of BZA	IR avg MPR	Bench Mark MPR
P.Way	1.18	1.26	0.70
Buildings	0.15	0.17	0.03
Bridges	0.10	0.08	0.02

- Even though Engineering department of BZA division is below IR average in P.Way & works organizations. Work Study team considered non-safety / noncore categories for surrender in order to bring the organisation 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	5259	4746	513
2	Works	476	384	92
3	Bridges	219	145	74
	Grand Total	5954	5275	679

➤ **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	8	11
Carpenter /works	41	21	20
Total	60	29	31

- **Painter:** This activity is a non-safety & noncore activity. Since most of the Painter, 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
Painter/P.WAY	14	8	6
Painter/works	13	11	2
Total	27	19	8

- **Brick Layer:**
This activity is a non-safety & noncore activity. Most of the Brick Layer 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
Brick Layer/P.WAY	18	5	13
Brick Layer/works	40	28	12
Total	58	33	25

- **S M Fitter:** 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
S M Fitter/P.WAY	12	2	10
S M Fitter /works	34	16	18
Total	46	18	28

- **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	Khalasi/caretaker/custodian	28	24	4
2	Comp. Gateman	11	7	4
3	Sanitary khalasi	4	4	0
4	Multipurpose Khalasi	208	185	23
	Total	251	220	31

- **Grinder/Moulder Striker:** This activity is a non-safety & noncore activity. Most of this activities in the Engineering (P.way) organization are outsource and the activity is not regular work. Hence, this activity became redundant and vacant posts may be surrendered.

Designation	Sanction	Actual	Vacancy
Grinder/Moulder Striker /P.WAY	15	2	13
Total	15	2	13

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

S.No.	Design	Sanction	Actual	Vacancy
1	Carpenter	60	29	31
2	Painter	27	19	8
3	Brick Layer	58	33	25
4	S M Fitter	46	18	28
5	Grinder/Moulder striker	15	2	13
6	Group-D Miscellaneous Category	251	220	31
	Total	457	321	136

- With the above table it is observed that there are 457 sanctioned posts, 321 on roll staff and 136 vacant posts in non safety/ noncore categories of Engineering Department over BZA Division.

- **In view of the above, it is recommended as follows.**

RECOMMENDATION:

It is recommended to surrender 136 vacant posts from sanctions of Engineering department over BZA 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 ÑßçðÃððãðÐðð 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.

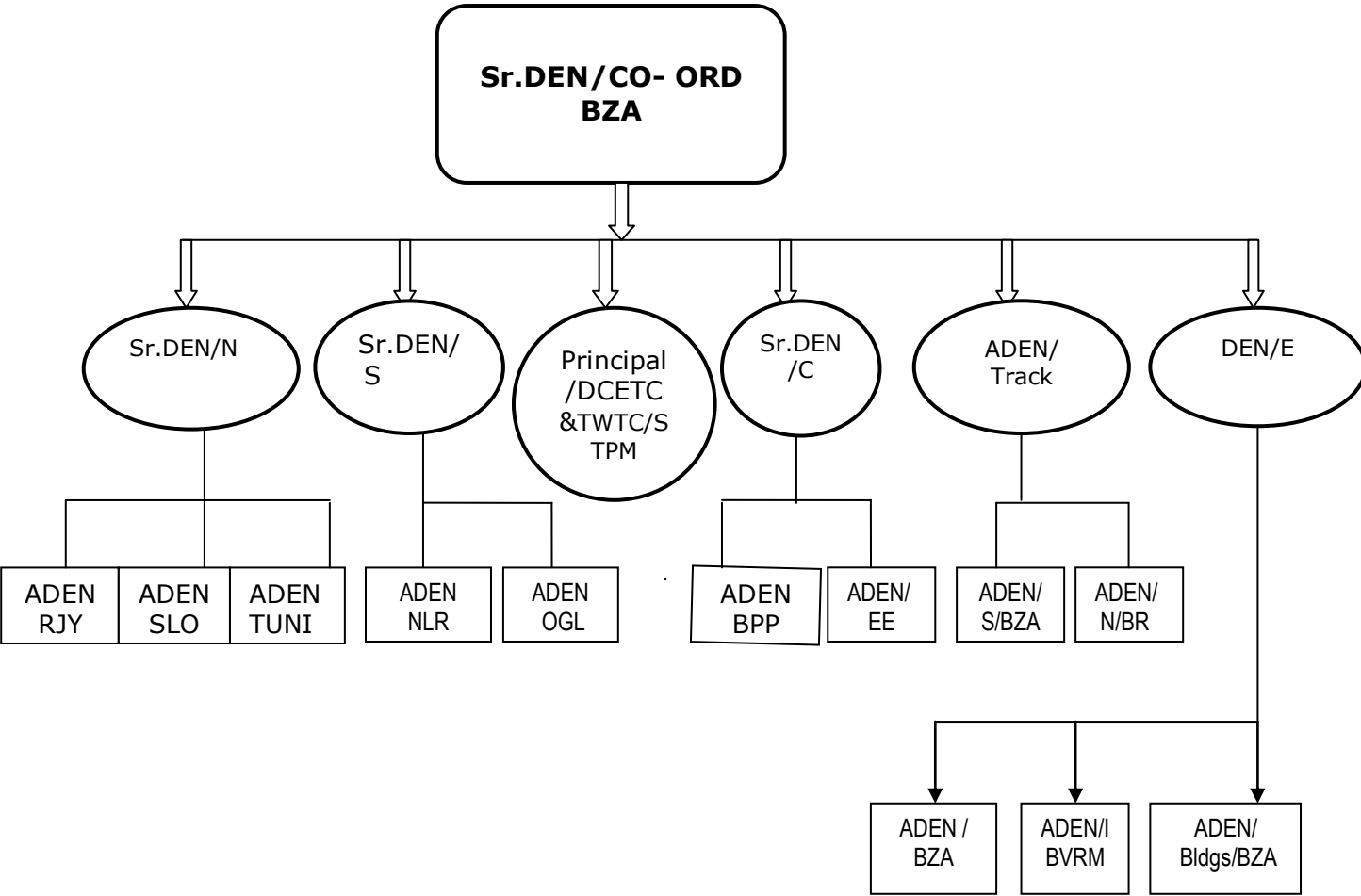
1.4 In view of the above, the Central Planning organization under the control of SDGM conducted work-study on Engineering department over BZA Division of South Central Railway.

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2.0 **EXISTING SCENARIO:**

2.1 ORGANISATION: The Civil Engineering Department of Vijayawada Division is headed by Sr. DEN/co-ord and assisted by Sr.DEN/South, Sr.DEN/North, Sr.DEN/C and DEN/East, ADEN/Track. 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/NLR	SSE/P.WAY/KVZ	SSE/Works/NLR	SSE/Works/GDV
SSE/P.Way/BTTR	SSE/P.Way/OGL	SSE/Works/GDR	SSE/Works/BVRM
SSE/P.Way/CLX	SSE/P.Way/NZD	SSE/Works/BTTR	SSE/Works/E/BZA
SSE/P.Way/BPP	SSE/P.Way/EE	SSE/Works/TEL	SSE/Works/W/BZA
SSE/P.Way/TEL	SSE/P.Way/SLO	SSE/Works/RJY	SSE/Works/WA/BZA
SSE/P.Way/TDD	SSE/P.Way/PAP	SSE/Works/NDD	SSE/WA/RYP
SSE/P.Way/RJY	SSE/P.Way/GDV	SSE/Works/BZA	SSE/Works/G.PET/BZA
SSE/P.Way/S/BZA	SSE/P.Way/KKLR	SSE/Works/OGL	SSE/Works/RYP
SSE/P.Way/N/BZA	SSE/P.Way/BVRM	SSE/Works/EE	SSE/Works/KCC
SSE/P.Way/TPL/ DEPOT	SSE/P.Way/TUNI	SSE/Works/KVZ	JE/Works/BPP
SSE/P.Way/AKP		SSE/Works/SLO	SSE/DCETC/STPM
		JE/Works/TUNI	SSE/TWC/STPM
		JE/Works/STPM	SSE/USFD/BZA

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

2.3.1 P.Way:

S. No	Designation	Pay Band	grade pay	Sanc tion	Actual	Vacancy
1	Senior Section Engineer (P.Way)	9300-34800	4600	140	100	40
2	Junior Engineer(P.Way)	9300-34800	4200	70	51	19
3	Senior Section Engineer(Drg)	9300-34800	4600	9	4	5
4	Junior Engineer(Drg)	9300-34800	4200	5	5	0
5	Senior Section Engineer(Design)	9300-34800	4600	0	1	-1
6	Senior Section Engineer(USFD)	9300-34800	4600	10	10	0
7	Junior Section Engineer(USFD)	9300-34800	4200	8	3	5
8	Instructor/P.Way	9300-34800	4200	5	7	-2
		Sub Total		247	181	66
8	Technician(MCM)/BL	9300-34800	4200	3	1	2
9	Technician I /BL	5200-20200	2800	6	0	6
10	Technician II /BL	5200-20200	2400	1	0	1
11	Technician III /BL	5200-20200	1900	0	0	0
	Khalasi /BL	5200-20200	1800	8	4	4
		Sub Total		18	5	13
12	Technician(MCM)/B.Smith	9300-34800	4200	12	5	7

13	Technician I /B.Smith	5200-20200	2800	23	3	20
14	Technician II /B.Smith	5200-20200	2400	4	3	1
15	Technician III /B.Smith	5200-20200	1900	2	0	2
	Khalasi /BS	5200-20200	1800	10	5	5
		Sub Total		51	16	35
16	Technician(MCM)/Carpenter	9300-34800	4200	3	1	2
17	Technician I /Carpenter	5200-20200	2800	7	0	7
18	Technician II /Carpenter	5200-20200	2400	1	1	0
19	Technician III /Carpenter	5200-20200	1900	0	0	0
	Khalasi /Carpenter	5200-20200	1800	8	6	2
		Sub Total		19	8	11
20	Technician(MCM)/Painter	9300-34800	4200	4	1	3
21	Technician I /Painter	5200-20200	2800	7	2	5
22	Technician II /Painter	5200-20200	2400	0	2	-2
	Technician III /Painter	5200-20200	1900	0	1	-1
	Khalasi /Painter	5200-20200	1800	3	2	1
		Sub Total		14	8	6
23	Technician(MCM)/Fitter	9300-34800	4200	2	0	2
24	Technician I /Fitter	5200-20200	2800	4	0	4
25	Technician II /Fitter	5200-20200	2400	1	0	1
26	Technician III /Fitter	5200-20200	1900	0	1	-1
	Khalasi /Fitter	5200-20200	1800	5	2	3
		Sub Total		12	3	9
27	Technician/MCM/GM Striker	9300-34800	4200	5	0	5
28	Technician I / GM Striker	9300-34800	2800	9	2	7
29	Technician I I/ GM Striker	9300-34800	2400	1	0	1
		Sub Total		15	2	13
30	Technician/MCM/Welder	9300-34800	4200	16	2	14
31	Technician I / Welder	9300-34800	2800	30	0	30
32	Technician I I/ Welder	9300-34800	2400	5	1	4
33	Technician III/ Welder	9300-34800	1900	9	2	7
	Khalasi /Welder	5200-20200	1800	45	19	26
		Sub Total		105	24	81
34	Khalasi(Load/unload) /TPL	5200-20200	1800	6	76	-70
		Sub Total		6	76	-70
	Artisans total	Sub Total		240	142	98
41	Track Maintainer IV	5200-20200	1800	2201	2587	-386
42	Track Maintainer III	5200-20200	1900	991	1007	-16
43	Track Maintainer II	5200-20200	2400	992	535	457
44	Track Maintainer I	5200-20200	2800	496	223	273
		Sub Total		4680	4352	328
49	Ch.OS	9300-34800	4600	17	10	7
50	OS	9300-34800	4200	43	30	13
51	Sr.Clerk	5200-20200	2800	6	1	5
52	Jr.Ckerk cum typist	5200-20200	1900	9	19	-10

	Technician-III/BTC	5200-20200	1900	0	1	-1
		Sub Total		75	61	14
53	Sr.Khalasi/USFD	5200-20200	1800	6	3	3
54	Technician(Fitter Civil)(MFT)	5200-20200	2800	1	0	1
55	Sr.Lascar	5200-20200	1800	10	7	3
		Sub Total		17	10	7
	P.Way	Total		5259	4746	513

2.3.2 Summary of P.Way organization

S. No	Designation	Sanction	Actual	Vacancy
1.	SSE/JE	247	181	66
2.	Technician & Khalasi/BL	18	5	13
3.	Technician & Khalasi /BS	51	16	35
4.	Technician/Carpenter	19	8	11
5.	Technician/painter	14	8	6
6.	Technician/Fitter	12	3	9
7.	Technician/GM Sticker	15	2	13
8.	Technician/Welder	105	24	81
9.	Khalasi (Loading/unloading)/TPL/USFD	6	76	-70
10.	Track maintainer	4680	4352	328
11.	Office staff	75	61	14
12.	Sr.Khalasi/USFD	6	3	3
13.	Technician(Fitter Civil)(MFT)	1	0	1
14.	Sr.Lascar	10	7	3
	Total	5259	4746	513

2.3.3 WORKS

S.No	Designation	Pay Band	grade pay	Sanctioned	Actual	Vacancy
1.	Senior Section Engineer (Works)	9300-34800	4600	26	20	6
2.	Junior Engineer(Works)	9300-34800	4200	23	18	5
3.	Sr. Inspector	9300-34800	4600	0	1	-1
4.	Senior Section Engineer(Drg)	9300-34800	4600	3	2	1
5.	JE (drg)	9300-34800	4200	3	2	1
	Sub Total			55	43	12
6.	Technician(MCM)/BL	9300-34800	4200	10	1	9
7.	Technician I /BL	5200-20200	2800	14	5	9
8.	Technician II /BL	5200-20200	2400	4	1	3
9.	Technician III /BL	5200-20200	1900	3	10	-7
10	Khalasi/BL	5200-20200	1800	9	11	-2
	Sub Total			40	28	12
11	Technician(MCM)/B.Smith	9300-34800	4200	2	1	1
12	Technician I /B.Smith	5200-20200	2800	4	0	4
13	Technician II /B.Smith	5200-20200	2400	1	2	-1
14	Technician III /B.Smith	5200-20200	1900	0	1	-1
15	Khalasi/BS	5200-20200	1800	4	1	3
	Sub Total			11	5	6

16	Technician(MCM)/Carpenter	9300-34800	4200	12	1	11
17	Technician I /Carpenter	5200-20200	2800	16	7	9
18	Technician II /Carpenter	5200-20200	2400	2	2	0
19	Technician III /Carpenter	5200-20200	1900	2	1	1
20	Khalasi/Carpenter	5200-20200	1800	9	10	-1
		Sub Total		41	21	20
21	Technician(MCM)/Painter	9300-34800	4200	5	0	5
22	Technician I /Painter	5200-20200	2800	8	4	4
23	Technician II /Painter	5200-20200	2400	0	1	-1
24	Technician III /Painter	5200-20200	1900	0	5	-5
25	Khalasi/Painter	5200-20200	1800	0	1	-1
		Sub Total		13	11	2
26	Technician(MCM)/SM Fitter	9300-34800	4200	11	4	7
27	Technician I /SM Fitter	5200-20200	2800	14	4	10
28	Technician II /SM Fitter	5200-20200	2400	3	2	1
29	Technician III /Fitter	5200-20200	1900	3	5	-2
30	Khalasi/SM Fitter	5200-20200	1800	3	1	2
		Sub Total		34	16	18
31	Crane/Field man/RR driver	5200-20200	2800	1	0	1
32	Technician I /Tinker	5200-20200	2800	0	1	-1
33	Khalasi(Works)/Welder	5200-20200	1800	1	0	1
34	Khalasi/ Caretaker	5200-20200	1800	28	24	4
35	Khalasi/Watchman/Chowkidar/ ORH	5200-20200	1800	5	0	5
36	Comp. Gateman	5200-20200	1800	11	7	4
37	Sanitary Khalasi	5200-20200	1800	4	4	0
38	Valveman	5200-20200	1800	0	21	-21
39	Gardener	5200-20200	1800	1	1	0
40	Khalasi (Multipurpose)	5200-20200	1800	208	185	23
		Sub Total		259	243	16
41	Ch.OS	9300-34800	4600	3	0	3
42	OS	9300-34800	4200	10	9	1
43	Sr.Clerk	5200-20200	2800	6	3	3
44	Jr.Clerk-cum-Typist	5200-20200	1900	4	5	-1
		Sub Total		23	17	6

2.3.4 Summary of Works organization

S.No	Designation	Sanc tion	Actual	Vacancy
1	Supervisors	55	43	12
2	Technician & Khalasi/BL	40	28	12
3	Technician & Khalasi /BS	11	5	6
4	Technician & Khalasi /Carpenter	41	21	20
5	Technician & Khalasi /painter	13	11	2
6	Technician & Khalasi /SM Fitter	34	16	18
7	Crane Driver/ Khalasis/ welder/ custodian/chowkidar/ M.Purpose	259	243	16

8	Office staff	23	17	6
	Total	476	384	92

2.3.5 BRIDGES

S.No	Designation	Pay Band	grade pay	Sanct ioned	Actual	Vacancy
1.	Senior Section Engineer (Bridges)	9300-34800	4600	12	6	6
2.	Junior Engineer(Bridges)	9300-34800	4200	5	4	1
3.	Senior Section Engineer(Drg)	9300-34800	4600	3	3	0
4.	Junior Section Engineer(Drg)	9300-34800	4200	2	2	0
	Sub Total			22	15	7
5.	Technician(MCM)/BL	9300-34800	4200	1	0	1
6.	Technician I /BL	5200-20200	2800	1	0	1
7.	Technician II /BL	5200-20200	2400	0	1	-1
8.	Khalasi/BL	5200-20200	1800	0	1	-1
	Sub Total			2	2	0
9.	Technician(MCM)/B.Smith	9300-34800	4200	4	2	2
10.	Technician I /B.Smith	5200-20200	2800	8	0	8
11.	Technician II /B.Smith	5200-20200	2400	1	0	1
12.	Technician III /B.Smith	5200-20200	1900	1	2	-1
13.	Khalasi/BS	5200-20200	1800	18	12	6
	Sub Total			32	16	16
14.	Technician(MCM)/Carpenter	9300-34800	4200	1	0	1
15.	Technician I /Carpenter	5200-20200	2800	2	0	2
16.	Khalasi/Carpenter	5200-20200	1800	2	1	1
	Sub Total			5	1	4
17.	Technician(MCM)/Painter	9300-34800	4200	1	0	1
18.	Technician I /Painter	5200-20200	2800	2	0	2
19.	Khalasi/Carpenter	5200-20200	1800	2	0	2
	Sub Total			5	0	5
20.	Technician(MCM)/Erector	9300-34800	4200	1	0	1
21.	Technician I /Erector	5200-20200	2800	2	0	2
	Sub Total			3	0	3
22.	Technician/MCM/Welder	9300-34800	4200	3	0	3
23.	Technician I / Welder	5200-20200	2800	6	1	5
24.	Technician I I/ Welder	5200-20200	2400	0	2	-2
25.	Technician III/ Welder	5200-20200	1900	2	3	-1
26.	Khalasi/Welder	5200-20200	1800	18	6	12
	Sub Total			29	12	17
27.	Technician/MCM/AC mechanic compressor	9300-34800	4200	2	1	1
28.	Technician I/MCM/AC mechanic compressor	5200-20200	2800	5	1	4
29.	Technician II/MCM/AC	5200-20200	2400	1	0	1

30.	Khalasi/ compressor	5200-20200	1800	5	7	-2
		Sub Total		13	9	4
31.	Technician/MCM/Riveter	9300-34800	4200	9	3	6
32.	Technician I/ Riveter	5200-20200	2800	18	0	18
33.	Technician II/ Riveter	5200-20200	2400	3	7	-4
34.	Technician III/ Riveter	5200-20200	1900	4	0	4
35.	Khalasi/ Riveter	5200-20200	1800	63	32	31
		Sub Total		97	42	55
36.	Spl. Cowkidar(Bridges)	5200-20200	1900	1	46	-45
	Sub Total			1	46	-45
37.	Ch.OS	9300-34800	4600	1	0	1
38.	OS	9300-34800	4200	4	1	3
39.	Sr.Clerk	5200-20200	2800	3	0	3
40.	Jr.Clerk-cum-Typist	5200-20200	1900	2	1	1
		Sub Total		10	2	8

2.3.6 Summary of Bridges organization

S.No	Designation	Sanction	Actual	Vacancy
1.	Supervisors	22	15	7
2.	Technician & Khalasi /BL	2	2	0
3.	Technician & Khalasi /BS	32	16	16
4.	Technician & Khalasi /Carpenter	5	1	4
5.	Technician & Khalasi /Painter	5	0	5
6.	Technician & Khalasi /Erector	3	0	3
7.	Technician & Khalasi /Welder	29	12	17
8.	Technician & Khalasi /AC compressor	13	9	4
9.	Technician & Khalasi /Riveter	97	42	55
10.	Spl. Cowkidar(Bridges)	1	46	-45
11.	Office staff	10	2	8
	Total	219	145	74

2.4 Summary of Engineering organization

S. No	Designation	sanction	Actual	Vacancy
1	P.Way	5259	4746	513
2	Works	476	384	92
3	Bridges	219	145	74
	Grand Total	5954	5275	679

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:

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

Field work: Inspection of

- a) staff Quarters
- b) Service / Welfare Buildings
- c) Roads sewage lines
- d) Maintenance of gardens after they are handed over by the contractor.
- e) 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.Trolley 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.Trolleyman:** 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/NLR	443.835	355.069	16.236	138.879	155.115	248.437	758.621
2	ADEN/OGL	377.360	301.888	15.178	127.134	142.312	112.551	556.751
3	ADEN/BPP	568.260	454.608	9.087	73.924	83.011	293.743	831.362
4	ADEN/EE	376.881	301.505	15.962	72.318	88.280	101.629	491.414
5	ADEN/RJY	379.114	303.291	14.970	186.675	201.645	222.905	727.841
6	ADEN/SLO	529.112	423.290	30.346	41.828	72.175	480.847	976.312

7	ADEN/TUNI	346.480	277.184	24.324	55.523	79.847	120.981	478.012
8	ADEN/BZA	258.969	207.175	6.729	152.457	159.186	90.069	456.430
9	ADEN/BVRM	407.253	325.802	19.453	22.732	42.185	180.627	548.614
10	ADEN/ Buildings	0	0	0	0	0	652.816	652.816
	Grand Total	3687.264	2949.812	152.285	871.47	1023.756	2504.605	6478.173

** ** *

3.0 CRITICAL EXAMINATION:

3.1 General: Vijayawada 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 BZA 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.

➤ **Jan-2020 IR average and Bench Marking of BZA division is as follows.**

Organization	MPR of BZA	IR avg MPR	Bench Mark MPR
P.Way	1.18	1.26	0.70
Buildings	0.15	0.17	0.03
Bridges	0.10	0.08	0.02

➤ Even though Engineering department of BZA division is below IR average in P.Way & works organizations. Work Study team considered non-safety / noncore categories for surrender in order to bring the organisation 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 BZA Division:

STATEMETNT SHOWING THE STATUS OF P.WAY & BUILDINGS WORKS IN Sr.DEN/ BZA						
Sl. No	Name of work	Agencyy Shri/M/s	A.Lr. No. & Date, Agt.No. & Date	Agt. Value	Currency	Remarks
P.WAY:						
1	SW-1:BZA-Proposed safety related track maintenance works in SSE/P.Way/SLO section of ADEN/SLO sub division. SE-II : Proposed safety related track maintenance works in SSE/P.Way/PAP section of ADEN/SLO sub division.	Shri.P Venkateswara Reddy	23/Sr.DEN/N orth /BZA/2018	24312579	12.11 .2018	Up to 24.07.2020
2	SW-I:BZA- Proposed safety related track maintenance works in SSE/P.Way/TUNI section of ADEN/TUNI sub division. SW-II: Proposed safety related track maintenance works in SSE/P.Way/AKP section of ADEN/TUNI sub division	Shri. K Ashok Kumar	24/Sr.DEN/N orth /BZA/2018	28774633	19.11 .2018	Up to 01.08.2020
3	SW-I:BZA- Proposed safety related track maintenance works in SSE/P.Way/RJY section of ADEN/RJY sub division. SW-II: Proposed safety related track maintenance works in SSE/P.Way/TDD section of ADEN/RJY sub division	Shri. K Ashok Kumar	25/Sr.DEN/N orth /BZA/2018	36019814	19.11 .2018	Up to 30.07.2020
4	SW-I: Proposed safety related repairs and maintenance works in SSE/P.Way/GDV section of ADEN/BVRM sub division. SW-II: Proposed safety related repairs and maintenance works in SSE/P.Way/KKLR section of ADEN/BVRM sub division. SW III: Proposed safety related repairs and maintenance works in SSE/P.Way/BVRM section of ADEN/BVRM sub division.	Shri. S Samba Siva Rao	20/DEN/ East /BZA/2018	31863754	28.09 .2018	Up to 05.07.2020

5	SW-I: Proposed safety related repairs and maintenance works in SSE/P.Way/N/BZA section of ADEN/Lines/BZA sub division. SW-II: Proposed safety related repairs and maintenance works in SSE/P.Way/S/BZA section of ADEN/Lines/BZA sub division.	M/s roshini Constructions	22/DEN/ East /BZA/2018	32332889	05.10 .2018	Up to 27.07.2020
6	BZA Division GDR-BZA section - Proposed safety related Track works and other Miscellaneous in SSE/P.way/KVZ and SSE/P.Way/OGI sections of ADEN/OGI sub division	Shri. T rama Krishna	11/South /BZA/2018	17807761	07.09 .2018	Up to 31.12.2020
7	BZA Division GDR-BZA section - Proposed safety related Track works and other Miscellaneous in SSE/P.way/NLR and SSE/P.Way/BTTR sections of ADEN/NLR sub division	Shri. P Srinivasa Reddy	15/South/ BZA/2018	18583708	22.11 .2018	Up to 13.08.2020
8	SW-I: Proposed safety related repairs and maintenance works in ADEN/BPP sub division. SW-II: Proposed safety related repairs and maintenance works in ADEN/EE sub division.	Shri. T rama Krishna	17/Sr.DEN/ BZA /2018	64332809	11.10 .2018	Up to 30.09.2020
Building works						
1	"SW-I ADEN/BVRM Section: Additions and alterations to circulating area at Akividu station, Drainage arrangements at KKL station, partition in VIP lounge and conversion of parcel Office as waiting room with toilets at Tanuku station in SSE/Works/BVRM of ADEN/BVRM sub-Division SW-II Repairs to drainage arrangements at staff quarters at BVRM, TNKU, KKL & NS stations in ADEN/BVRM section SW-III NS-a)CC flooring and open shed b) Construction of Bail out pump room c) CC flooring of IOH shed at North, South end d) CC flooring , GI sheet fencing – Scrap".	RVS Kumar	01/DEN/East /BZA/2019, dt: 07-1- 2019	17992908	18.09 .2019	Work in progress.
2	Up gradation & Improvements to COP shelters, Platforms and CIB/TIBs of BZA station SW_I Improvements to PF walls and COP roofs and gutters of BZA station SW-II- Provision of covered shelter (COP) on PF 8&9, 10 and extended portion of 2&3 and 4&5 of Vijayawada station.	M/S Koneru Constructions	04/DEN/East /BZA/2019, dated: 11-2- 2019	32579586	29.02 .2020	Work in progress.

3	<p>:- Up gradation & Improvements to booking areas, retiring rooms and façade of different entrances of BZA station. SW-I: Shiftinf of booking counters to cellar of EB-1. SW-II Construction of Retireing Rooms on 1st floor of EB-2 SW-III: proposed dismantling of station domestic water storage tanks and laying of pipe lines. SW-IV: Façade improvements on PF No.10 ornamental wall and West booking office. 2(b) : Improvements to circulating areas of East, South, West, and Tarapet entirements to BZA station. & 2 (c) Planning of traffic flows, Circulation fpatterns and universal accessibility of station amenities for disabled persons. SW-V- Improvements to circulating areas of BZA station, Planning of traffic flows, Circulation fpatterns and universal accessibility of station amenities for disabled persons. SW-VI:- Provision of Cluster of toilets at Tarapet, South entrance & East entrances and provision of Rooms urinals on Pf No. 273,4&5, 8&9. SW-VII- Vijayawada- Additions and Alterances of BRI-1 Office at BZA. SW_VIII; Vijayawada- Repairs to Bridge non-destructive laboratory at BZA. SW-IX: Provision of cubicles /Partitions in rest rooms of guard and drivers in old running room/BZA and 1st floor in SSE/W/West/BZA section</p>	M/S Srinivasa Edifice P Ltd.,	08/DEN/East /BZA/2019, dated: 22-2-2019	56448701	28.02 .2019	Work in progress
4	<p>SW-I : Rayanapadu-Provision of carriage watering arrangements including storage tank . SW-II Rayanapadu: Repair to pipe line from wagon work shop OH tank at RYP to KI Running room (Ryp-KI). SW-III Rayanapadu-Repairs to station building and platforms, booking offices etc, at Rayanapadu station</p>	Venkata Reddy Batukuri	10/DEN/East /BZA/2019, dated: 18.03.2019	28172762	25.03 .2019	Work in progress
5	<p>Vijayawada- Capacity augmentation of facilities to undertake routine overhauling of BCNHL wagons i) Provision of new store room, extension of ROH, Bogie shed etc., at Wagon depot. ii) Provision of Heavy Duty Ironade contrete flooring at Wagon depot.</p>	M/S Dhana Lakshmi Engineers	13/DEN/East /BZA/2019, dated: 21.03.2019	49310796	29.02 .2020	Work in progress . Variation is under process
6	<p>BZA& MTM: Development of minimum essential infrastructure facilities fo maintenance of Lince Hofmann Busch type Coaches</p>	K. Srinivasulu	16/DEN/East /BZA/2019, dated: 18.06.2019	44432539	07.02 .2020	Work in progress

7	SW-I- MTM- Augmentation carriage of water supply of 2nd pit line arrangements. SW-II: GDV-Repairs to raising of Platform on PF No.1	T.Venkataswara Rao	12/DEN/East /BZA/2019, dated: 21-3-2019	1,48,48,731	31.03.2020	Work in progress
8	Vijayawada-Electric Loco Shed-Repairs to flooring at LL bay, ML Bay, staff Canteen, Leads rest room with toilets, first Aid centre etc., at ELS/BZA.	N. Nagabhushanam	18/DEN/East /BZA/2019, dt: 09-7-2019	1,06,23,179	20.12.2019	Work in progress. Variation under process.
9	Vijayawada Division : Hiring of Multi-Utility Road vehicles for official use by ADEN/Lines/BZA, ADEN/Buildings/BZA & ADEN/BVRM for a period of two years.	M/S Suryadevara Engineers & Contractors	15/DEN/East /BZA/2019, dated: 29.05-2019	45,20,880	10.02.2021	Work in progress
10	BZA- Repairs and improvements to SR.DSTE/BZA office, Drawing section & Divisional Telephone exchange etc., SW-II STPM- ETTC/BZA _ repairs to scooter stand in cellar area, SW-III BZA- Repairs to existing masonry water storage tanks on old running rooms . SW-IV: vijayawada- Repairs to damaged approach road pipe lines to PF Hyderant lines, conventional booster lines and station taps pipe line from PF No. 1 to 10	J. Thandava Krishna	22/DEN/East /BZA/2019, dated:30.08-2019	1,12,58,915	03.01.2020	Work in progress
11	SW-I : BZA- Repairs to SSE/Tele/Wireless/BZA unit of S&T department located in Rawilay Junior College compound., SW-II:BZA-Repairs to brightening of old and New Running room at Loco colony/BZA in SSE/W/West/BZA section., SW-III: BZA- Repairs to Railway Mixed High school to accommodate Railway Magistrate Court in BZA.	K.Yeswanth	01/DEN/East /BZA/2020, DT.07.01.2020.	92,60,969		Work in progress
12	Provision of Smart Real Time Gate Position and Auto PN system at Non-interlocked LC's in BZA-BVRM-NDD-NS section in DEN/East/BZA jurisdiction in Vijaywada division.	M/S JS INFOTECH PRIVATE LIMITED, BANGALORE.	02/DEN/East /BZA/2020, DT.26.02.2020.	11,53,688		Work in progress
13	Provision of Smart Real Time Gate Position and Auto PN system at Non-interlocked LC's in BZA-MTM section in DEN/East/BZA jurisdiction in Vijaywada division.	M/S JS INFOTECH PRIVATE LIMITED, BANGALORE.	02/DEN/East /BZA/2020, DT.26.02.2020.	27,83,813		Work in progress
14	SW-I : BHIMAVARAM - Repairs to level crossing road surface between BVRM-NDD in ADEN/BVRM Sub division. SW-II : BHIMAVARAM : Repairs to Level crossing road surface between KCLR-NS section in ADEN/BVRM Sub division.	M/S Sree Murugan Constructions, VSKP.	04/DEN/East /BZA/2020, DT.02.03.2020.	1,69,96,243		Work in progress
16	SW-I: Nellore - Repairs to staff quarters at North western colony at	O. Janardhan	18/South/BZA/ 2017,	2,84,95,146/-	30.03.2020	Work in Progress

	<p>NLR station in SSE/W/NLR section.</p> <p>SW-II: GUDUR- Repairs to living facilities of staff quarters at South colony at GDR station in SSE/W/GDR section.</p> <p>SW-III: NELLORE - Construction of Boundary wall at encroachment prone locations between PGU - VKT stations in ADEN/NLR sub division.</p> <p>SW-IV: Repairs to roads and staff quarters in Railway colony at Ulavapadu in SSE/W/KVZ section.</p> <p>SW-V: GUDUR - Repairs to roof leakages and ceiling in crew rest room at GDR.</p> <p>SW-VI: GUDUR - Repairs to Galvalume sheet on PF No. 1, 2 & 3 shelter.</p> <p>SW-VII: (i) Replacement of corroded G.I sheet, Broken AC sheet and corroded gutter sheet on Platform shelters in Nellore sub division. (ii) Replacement of corroded G.I sheet, broken AC sheet and corroded gutter sheet on Platform shelters in Ongole sub-division.</p>	reddy	15.09.2017			
17	<p>"SW-I: PGU-Repairs to loading /unloading platform area of jumbo rake siding of up yard and down yard at PGU station in SSE/W/BTTR section. SW-II:NGPM-VRJN-Proposed construction of gate lodge at LC No.38 at km.99/2-4 bet. NGPM-VRJN stations. SW-III: SDM-Repairs and strengthening for existing approach road to SDM station in SSE/W/OGL section. SW-IV: OGL -Repairs to leakage by providing Galvalume sheets for cell kitchen ,sleeper & AC waiting hall, Ladies waiting hall and CTI/OGL office on PF No.1at OGL station in SSE/W/OGL sectionSW-V:GDR-BZA -Recouping of monsoon resrve stock on emergency basis at Nellore & OGL sub- divisions in DEN/South/BZA jurisdiction."</p>	M/s.Meghana Constructions	13/south/BZ A/2018 dt 14.09.2018	1,47,94,518/-	30.06.2020	work in progress
18	<p>Tender No. Zone-South-2018-2020(RI) for the work of "Zonbal contract works - ADEN/NLR and ADEN/OGL sub-divisions under DEN/South/BZA jurisdiction for the period from 01.07.2018 to 30.06.2020 (Two years).</p>	M/s Meghana Constructions	18/DEN/Sout h/BZA/2018, dated 26.12.2018	30318258/-	30.06.2020	Work in Progress
19	<p>VKT-Krishnapatnam sec.krishnapatnam-Providing path ways in krishnapatnam yard in SSE/W/NLR sec.</p>	Sri Gandavaram Jagadeesh Kumar	01/south/BZA /2019 dt 26.02.2019	65,57,834/-	13.03.2020	Work in Progress

20	SW-I GDR-DVD sec.-construction of gate lodge at LC Nos.106, 150, 153, 160, 161, 162, 166, 177, & 178 (9Nos) in DEN/South/BZA jurisdiction. SW-II:BTTR &GDR -Repairs and improvements to Health unit at BTTR and GDR sec. SW-III:GDR-BZA sec.-Improvements colony approach road and drains at SSE/W/GDR sec.	M/s.Madhavi constructions	03/DEN/South/BZA/2019, dt. 22.04.2019	1,49,84,758/-	17.06.2020	Work in Progress
21	"SW-I:-GDR-BZA sec..-Provision of standardization of LC gates and providing bore wells at LC gates etc. in ADEN/OGL sub-division. SW-II: BZA-GDR section. Repairs to rain water catch drain by providing protection wall in cutting bet. Km 235/20 & 236/6 on DN line underneath of yelurupaadu ROB bet KVZ and TTU stations. SW-III: BZA-GDR sec. Repairs to main pipe line from Gudur station to ground level reservoir in south colony of Gudur in SSE/W/GDR section.	Ch.Venkateswara Rao	05/DEN/South/BZA/2019, dt.30.05.2019	3,14,31,503/-	30.12.2020	Work in Progress
22	"SW-I:-DEN/South/BZA jurisdiction-Repairs and standardization of station platform name board in ADEN/NLR & OGL sub-division. SW-II: BTTR - Extension of PF - length up to 565 mand increasing of PF height up to HL at BTTR station in SSE/W/BTTR section. SW-III: TNR station- Extension of PF Nos.1 and 2 &3 length up to 470m at TNR station in SSE/W/OGL section. SW-IV: VKT - Extension of PF No.1 towards south end and PF No. 2&3 on north end up to 377m at VKT station in SSE/W/NLR section.	M.Swmisetty	06/DEN/South/BZA/2019, dt.31.05.2019	3,62,08,369/-	30.03.2020	Work in Progress
23	Vijayawada Gudur section: Ongole - Replacement of masonry tank with RCC overhead tank (2.0 Lakhs capacity) and provision of RO plant in SSE/Works/Ongole section.	M/s. Madhavi Constructions	07/DEN/South/BZA/2019, dt.05.07.2019	4,65,79,170/-	30.06.2020	Work in Progress
24	Vijayawada-Gudur section: Ongole Sub-division - Supply of Potable (soft) drinking water to station and colonies at OGL & TNR stations in ADEN/OGL sub-division.	Sri Koyi Rajesh Babu (Sramikkalyan Limit)	09/DEN/South/2019, dt. 30.08.2019	90,05,628/-	23.05.2020	work in progress
25	SW-I:GDR- Repairs to staff quarters in East & South Colony at GDR(Qtr. No. 101 A-B, 102A-B, 111A-E, 112 to 119A-D, 120A-B, 128A-B). SW-II:GDR-BZA section : Repairs to COP shelters and Service buildings in SSE/W/BTTR, NLR, GDR.	M/s. Meghana Constructions (Sramikkalyan Limit)	11/DEN/South/BZA/2019, dt. 27.09.2019	1,07,69,598/-	03.04.2020	work in progress

26	Hiring of Multi Utility road vehicle of loading capacity 1 tonne for usage of SSE/Works/Ongole, SSE/Works/NELLORE & SSE/Works/Gudur sections in DEN/South/BZA jurisdiction for a period of 24 months (Service Contract)	M/s. SLS Constructions (Sramikkalyan Limit)	12/DEN/South/BZA/2019,	39,96,878/-	31.12.2019	work in progress
27	Vijayawada Division: Provision of Smart Real Time Gate Position and Auto PN System at Non-Interlocked LCs (16 Nos) under DEN/South/BZA section in Vijayawada Division.	M/s. JS Infotech Pvt. Ltd. (Sramikkalyan Limit)	02/DEN/South/BZA/2020,	11,37,938/-	31.01.2020	work in progress
28	SW-I: Gudur - Provision of second entry to Gudur station duly providing station building on PF No.4 on Western side (Balance quantities). SW - II: Nellore - Repairs to staff quarters and service buildings in SSE/Works/Nellore section.	M/s. Meghana Constructions	04/DEN/South/BZA/2020,	1,22,10,828/-	24.04.2020	work in progress
29	SW-I: BZA--GDR section - Providing house keeping and hospitality services for the Officer's Rest House, Supervisor's Rest House and TTM staff rest house in SSE/W/GDR, BTTR and OGL section. (For period of 24 months). SW-II: BZA - GDR section- Nellore - Providing house keeping and hospitality services for the Officer's Rest House and Supervisor's Rest House in SSE/W/NLR section. (For a period of 24 months)	M/s. Inamadugu Narendra Reddy	06/DEN/South/BZA/2020,	41,07,166/-	17.06.2020	work in progress
30	BZA division: GDR-BZA section - Updating, reconciling, construction and certification of land boundary plans and fixing land boundary stones in ADEN/NLR & ADEN/OGL subdivisions in DEN/South/BZA jurisdiction (Balance quantities)	M/s. Veeramreddy Prasannakumar Reddy	ENGG/E-12/South-2020,	33,26,702/-	15.06.2020	work in progress
31	Annual Zonal Contract works from Bitragunta (inclusive) to OBVP (exclusive) section in ADEN/NLR jurisdiction for the period from 01.07.2020 to 30.06.2021	M/s. Madhavi Constructions	ENGG/E-Zone SI-NLR - 2020,	84,00,442/-	17.06.2020	work in progress
32	SW-I: OGL - Repairs to RPF office and provide kitchen room to RPF barracks at OGL station in SSE/W/OGL. SW-II: BZA-GDR section: KVZ - Repairs to staff quarters in North and RE colony at KVZ station in SSE/Works/KVZ section. SW-III: GDR - Repairs to station building, circulating area, platforms, VIP lounge, Retiring rooms, ORH, Crew RR and TTE's RR etc at GDR station in SSE/W/GDR section.	M/s. Meghana Constructions	ENGG/E-11/South-2020,	1,60,34,618/-	15.06.2020	work in progress

33	Annual Zonal Contract works from Srivenkateswarapalem (inclusive) to Karavadi (inclusive) section in ADEN/OGI jurisdiction for the period from 01.07.2020 to 30.06.2021.	M/s. Roshini Constructions	ENGG/E-Zone S2-OGI - 2020,	54,39,700 /-	07.07 .2020	work in progress
34	BZA-GDR section - Engagement of skilled Artisan staff for SSE//W/OGI, KVZ, BTTR, NLR & GDR sections in DEN/South/BZA Jurisdiction.	I. Narendra Reddy	ENGG/E-13-South-2020,	48,59,818 /-	17.07 .2020	work in progress

Position of Building agreements pertains to Sr.DEN/North/BZA jurisdiction - Position as on 22.07.2020

Sl. No		Name of the work and location	Agt. Value	Executed value Rs	TDC	Remarks
N.Koteswara Rao, Mulakalapalli, 9866186418						
1	AGT.No. 11/S.DEN/N/BZA dtd.31.05.2019 B/W.569/I/T.No.E-24/N/2018/T.North dt.09.01.2019	BZA-VSKP section SW-I NASP Raising of Rail level PFs coaching train at NASP SW-II GLU Raising of Rail level platforms 123 to high level and extension of platform upto 423 to cater the longest stopping coaching train SW-III REG Raising of Rail Level platform 123 to high level and Extension of pfs upto to cater the longest stopping coaching train SW-IV NRP Raising of platforms 1 2 to high level NRP.	7,17,36,570	1,51,23,314	30.06.2020	work in progress
2	B/W.569/I/T.No.E-05/N/2019/T.North dt.29.05.2019 Agt.No.14/N/BZA/2019 dtd.05.07.2019	BZA-VSKP SW-I Repairs to LC gate BT Roads and repairs to Height Guages in SSE/Works RJY section Under ADEN/RJY sub Division in view of GM/SCs annual inspection 2019-20.SW-II Repairs to LC gate BT roads and repairs to height guages in SSE/Works/NDD section under ADEN/RJY sub division in view of GM/SCs annual inspection 2019-20	13564378	10434386	28.01.2020 ,29.07.2020	work in progress
3	Agt.No.02/Sr.DE N/N/BZA/2019 Dt.11.02.2019	BZA-VSKP SW-I ADEN/SLO sub divisions standardization of level crossing gates including provision of Toilets , watering arrangements & Height gauges.	2,70,83,951/-	1,12,22,652/-	24.01.2019 ,04.11.2019,31.03.2020	

4	Agt.No.21/2018/ N/BZA dt.15.10.2018	BZA-VSKP section-Repairs to platform waiting halls rooms floors ceiling doors and sanitary fittings includings approaches gardens in stations premeisesof BMGM, CU,PSDA, KVR,GVN, &RJY sectionsSW-II BZA VSKP Section :Repairs to leaky ROOF slabs stair case walls dropped ceilings peeled off plastering colony drains and damaged sanitary fitting sof staff quarters at NDD & Tdd SW-III Bza vskp section : Repairs to waiting halls & Retiring room flooring duly elimating low level steps and sitting benches at NDD & TDD of Sr.DEN/N/BZA jurisdiction	1,40,50,554	1,10,04,904	26.02.2019 ,31.07.2019,31.12.2019,30.06.2020	work in progress
5	Agt.No.10 Sr.DEN/N/BZA dtd. 31.05.2019 B/W.569/I/24/T. No.E-30/N/2018/T.Nor th dt.06.02.2019	BZA-VSKP section-Repairs to officers rest house at VSKPand tuni in ADEN/TUNI sub Division SW-II:Repairs to OFFICERS & SUBORIDINATE REST HOUSE AT rjy Station Sw.III ADEN/SLO sub division repairs to ORH/CCT SW-IV:SLIO Repairs to circulating area and extension of parking area SW-V Repairs to LC Gates in ADEN/TUNI sub division	2,33,28,349	2,02,05,051	06.12.2019 ,04.03.2020, 30.10.2020	work in progress
6	Agt.No.04/Sr.DE N/NBZA/2018, Dt.14.03.2018.	SW-II : Repairs to boundary walls at km.13/5 to new COA station and 14/11 to old COAstation in ADEN /SLOsub Division of Sr.DEN/North/BZA jurisdiction.W-I: Vijayawada division :BZA-VSKP section : proposed repairs to running room at kakinada port statSW-III BZA-VSKP- Section COA -Development of minimum faciltities for maintenance of LHBCoaches	2,20,67,467/-	Rs.17710550/-	07.11.18 TO 05.4.19 without 06.04.19 TO 05.06.19 with penal ty of Rs.1000/- 31.12.2019 ,30.06.2020, 30.10.2020 Rs.1500/-	Work in progress
7	Tender No-E 27/North/2018 of dtd.06.02.2019 AGT.No.13/Sr/DE N/North/BZA/201 9 dtd.10.06.2019	Sw-I ATP Proposed replacement of Exisitng age old Building with RCC building SW-II PAP proposed replacement of existing age old jack roof stationbuilding with RCC building.SW-III-GLP -Proposed replacement of Existing age old Jack arch roof station building with RCC building	20085076	4613153	05.01.2020 ,31.12.2020	Work in progress

8	Tender No-E 03/North/ 2019 of dt.29.05.2019 AGT.No.15/Sr/DE N/North/BZA/ 2019 dtd.19.09.2019	SW-I BZA-VSKP section -TDD Repairs to age old water supply system under SSE/W/NDD IN ADEN/RJYSW- II BZA-VSKP NDD-Repairs to age old water supply system underSSE/W/NDD section in aden.rjy sub division SW-III ADEN/SLO SUB DIVISION - Repairs to water supply and sanitary arrangements on PFs taps, broken benches,PF edge tiles and repairs to wall surfaces of station buildingat ANV,PAP,SLO,APT & DWP.SW- IV BZA -VSKP section Brightening of service building ,staff quarters and platform shelters in SSE/WORK/TUNI section under ADEN/TUNI SUB DIVISION in view of GM/SCs ANNUAL INSPECTION 2019- 20	34723434	16840992	28.02.2020 ,31.07.202 0,	Work in progr ess
9	Agt.No.16/Sr.DE N/N/BZA/2017 of 28.6.2017 bldgs.	BZA-VSKP sectin-SW-I- Proposed boundary wall at Km.683/18-22, 682/34-48 and 680/30-681/18 on Dn line side and at Km680/15- 681/0 and 687/33-688/7 on Up line side between TUNI- glu stations in SS/Works/TUNI section of Sr.DEN/North/BZA jurisdiction SW-II-Repairs to the Bank adjacent to the water tanks and at the locations of water folowing parallel to the track in ADEN/SLO sub-division SW- III-Repairs to cess, side slopes, bank and sub-banks at approaches to the major bridges between CCT-KPLH stations in SSE/P.Way/SLO section of ADEN/SLO sub- division.	33284757	24245037	03.03.2018 30.09.2018 31.01.2019 , 03.07.2019 , 31.03.2020 T.P.Rs.100 0/- 31.03.2021 Rs.1500 per month	Work in progr ess.

10	Agt.No.13/Sr.DEN/ N/BZA/2018 of 13..07.2018	SW-I-constructions of waiting hall for both ladies & gents along with amenities toilets water supply water pedestals, Drainage & sewage and sitting arrangements in connection with modification of yard SW-II-Proposed Relay room at Rajahmundry station in connection with Modification of Yard SW-III-Proposed object controller room at Rajahmundry station in connection with modification of yard SW-IV-RJY Proposed construction of IRS Type & Tubular Shelter on NEW Platform 4&5 At RJY station in connection with modification of yard SW-V-RJY Modification to FOB connecting P.F.No.1 to east booking office SW-VI-RJY Provision of Additional High level platform in connection with modification of yard SW-VII-RJY Modification to existing yard FOB near Railway station	6,01,19,461/-	14797534	30.06.2020 31.03.2021	Work in progress.
11	Agt.No.14/Sr.DEN/ N/BZA/2018 of 13..07.2018/	SW-I-TUNI- Repairs to staff Quarters in SSE/Works /TUNI section under ADEN/TUNI SUB DIVISION SW-II-AKP-YLM- Repairs to staff Quarters in SSE/Works /TUNI section under ADEN/TUNI SUB DIVISION	1,10,58,439	10627837	07.03.2019 06.06.2019 31.03.2020	work in completed Final variation under process
12	B/W.496/I/4/T.No. E-25/North/2017/T.North dt.17.01.2019. Agt.No.05/Sr.DEN/ N/BZA/2019 of 23.04.2019	SW-I-TDD Extension of platform No.1 under SSE/W/NDD in ADEN/RJY sub-Division, Sw-II-CEL- Raising of platforms to High Level and extension of platforms up to 432 M in SSE/W/NDD section.	2,23,68,595	20965260	16.12.2019 16.12.2020 15.12.2020	work in progress

13	Agt.No.28/Sr.DEN/ N/BZA/2016 Dt.01.12.2016	BZA-VSKP section-SW-I- Repairs to damaged/broken ballast retaining walls on both Up & Dn lines & path way at LC gates in ADEN/TUNI sub-division SW- II- Repairs to damaged/broken ballast retaining walls on both Up & Dn lines at LC gate approaches in SSE/P.Way/PAP section SW- III-Repairs to damaged/broken ballast retaining walls on both Up & Dn lines & path way at LC gates in ADEN/RJY sub- division SW-IV-Repairs to gutters and roofing sheets of PF shelters in ADEN/RJY & SLO sub-divisions SW-V- Repairs to gang way & stair way steps of FOB at Anaparthi, Pithapuram and Annavaram stations.	11980999	5361661	31.12.2017 ,31.03.201 8with penalty of Rs.2,000/- per month,30.0 6.2018 Rs.1000/- per month, 31.12.2018 with penalty Rs.2000/- per month, 30.06.2019 with penalty of Rs.2500/- 31.12.2019 Rs.3000/- PM,31.03.2 020,30.10. 2020	Work in progres s.
14	Agt.No.32/Sr.DE N/N/BZA/2013 dt.24.12.2013	SW-I-BZA-VSKP Section- Proposed for shifting of pathway to the end of the PF at AKP and deveolpment of circulating area with greenery at TUNI in ADEN/TUNI sub-division SW-II-Repairs to quarters in ADEN/TUNI sub-division of SSE/Works/TUNI section TUNI, AKP, YLM, NRP and brightening of service buildings from TUNI to Thadi & Visakhapatnam	4938709	410566	22.08.2018 Rs.500/- per month 30/04/2019 with Penalty of Rs.2000/- per month,31.07. 2020	Work in Progres s. Bills passed up to CC/II.
15	Agt.No.19/Sr.DE N/N/BZA/2017 Dt.17/08/2017	BZA-Division-BZA-VSKP section-RJY-Augmentation of Memu rake maintenance facilities (Phase-III)	69087402	47865509	28.02.2019 (01.03.2017 to 31/03/2019 with TP of Rs.1,000/-)31.09.2019 of Rs.10000/- ,31.07.2020	Work in progres s
16	T.No.I/4/Zone/Nort h 2018- 2020/t.north dt.08.08.2018Agt. No.26/Sr.DEN/N/B ZA/2019 Dt.19.11.2018	Zone-N-4/2018-Annual Zonal Contract works from pulla to DVD, Branch lines samlkot to kakinadaport ,kakinada town to kotipalli and scrailway assest at VSKP in in ADEN/TUNI sub-division for the period from 1.7.2018 to 30.06.2020	2,89,87,312	2,29,77,188	30.06.2020	work in progres s

17	Agt.No.10/Sr.DEN/ NBZA/2018, Dt.20.06.18.	B/w.404/I/78/plg dt. 27.11.2017 SW-I- Repairs to staff Quarters at PAP, GLP,ANV & DWP station in ADEN/SLO sub division. B/W.375/I/1327/plg dt.21.11.2017. ADEN/SLO sub division - Repairs to Toilets on PF's & Waiting Halls, PF Taps, Broken PF Benches, PFEdges Tiles andRepairs to wall surface of station building at ANV,SLO, DWP, CCT and COA.	19137717	11511794	03.05.2019 ,31.03.202 0	Work in progr ess
18	T.No./E- 21/N/BZA/2018 dt.01.11.012018. AGT.No.03/N/BZA/ 2019	BZA-VSKP section-Providing house keeping and maintenance services for officers rest house at VSKP,TUNI,CCT,& RJYsection for a period of 24 months.B/W.422/I/56/Plg dt.05.09.2018 Rs.3572599/-	33,58,243	26,54,375	30.10.2020	work in progr ess
19	T.No.E-28/North- 2018 of 13.03.2019.Agt.No .12/.DEN/N/BZA 07.06.2019	SW-I BVL Propopsed Extension & Raising of PFs 123 from Rail level to High level to hold longest stopping Train SW-II :RVD Proposd Extension & Raising of PF 12 from rail level to High level to hold longest train SW-II GLP Raising of Rail level platforms 2 & 3 to hold longest train .weith costruction of culvert	8,53,84,691	7686874	31.12.2019 ,30.03.202 0, 31.12.2020 Rs.2000/- per month	Work in progres s.
20	Agt.No.15/Sr.DEN/ NBZA/ 2018, Dt.16.07.2018	B/W.405/I/266/plg.dt 16.11.17 SW-I kakinada & kakinada ToWN- Repairs to Drains,sanitary Arrangements, peeling off plastering , ceilings Damaged floorings, Drop walls and compound walls for staff quarters.(COA:74,75,76,77,8 0,81,82,94,107 Ty.I-78units and COA/78-8 units,108- 11units- TY-II 19 units &CCT:50,52 TYI- 16units,35,36,43TY-II 5 units) Total:118 units (TY-I 94 units &TY-II 24 units)B/W.231/I/48plg dt.20.10.17 SW-II: SLO- Repairs to Health units.B/W.100/I/468/plg dt.20.11.17 SW-III COA- Proposed accommodation to Goods shed office to Goods terminal building duly	18292290	17579833	30.03.2020	work in complet edFinal bill under process

		modifying the old booking concourse. B/W.375/V/1325/plg. dt.17.10.17.SW-IV: ADEN/SLO sub Division - Repairs to PF Name boards on the extended portion of PF's and painting of station Name boards at station in SSE/W/SLO section..				
21	AGT.no 28 Sr.Den/N BZA 2018 of 31.12.2018 dtd 31.12.2018	SW-I Repairs to toilets in waiting hall and pf toilets and provision of benches along station building walls & Re- arrangement of toilets in General; waiting hall. ADEN/SLO sub-division SW- II Repairs to circulating area and station approach roads at PAP MPU, BVL, & DWP station.	1,19,38,596	88,18,081	31.03.2020	work in progress
22	Agt.No.06Sr.DEN/N /BZA Dt.23.04.2019	SW-I APT-proposed construction of JE/Signal office .SW-II PAP proposed construction of JE/Signal office SW-III: CCT- Repairs to toilets in TTE's Room.SW-IV: CCT- of reroofing of age old kutch type staff quarters Type-II 4 units (Tuni/81 A-D)	14805287	2605072	21.01.2020	work in progress
23	B/W.569/I/T.No.E- 01/N/2019/T.North 29.05.2019 Agt.No.01Sr.DEN/N / BZA/2020 Dt.04.02. 2020	Proposed Hiring of pickup trucks/vans for day to day maintenance works under SSE/W/NDD, RJY, SLO & TUNI sections in Sr.DEN/North/Jurisdiction	63,97,835	894800	21.10.2021	work in progress
25	Agt.No.22/Sr.DEN/ NBZA/2018, Dt.16.10.2018	Vijayawada Division : CCT- KPLH section _ updating, reconciling, construction and certification of land plans and fixing land boundary stone from km 0.00 to km 45.00 (total = 45.00 kms).	15,66,476	15,66,476	30.12.18 with a penalty of Rs.1000/- per month.	
26	B/W.569/I/T.No.E- 11/N/2019/T.North dtd.09.09.2019 Agt.No.22/Sr.DEN/ NBZA/2019, Dt.05.02.2019(revenue)	Repairs to surfaces ornamental wall and repairs to PF benches & Taps and other passenger Amenities works at stations between KYM to HVM	1,34,76,503	1,11,73,951	08.03.2020	Work In progress
27	B/W.569/I/T.No.E- 09/N/2019/T.North dtd.26.08.2019 Agt.No.19/Sr.DEN/ NBZA/2019, Dt.04.11.2019 (revenue)	SW-I TDD Repairs to goods shed loading /unloading , platform replacement of damaged AC sheet with GI sheet and Repairs to Approach road SW-II NDD Repairs to Drains between PF.No.1&2 at NDD station SW-III NDD-	1,45,34,270	28,56,598	25.04.2020	work in progress

		Repairs to goods loop line 2 platform at NDD yard in JE/W/NDD section				
28	LOA.No.SCR/Engg/North/496/T.E.22/N/2019/dtd.08.01.2020 Agt.No.04/Sr.DEN/NBZA/2020, Dt.19.03.2020	SW-I TUNI Replacement SSE/W/O and store with new building in SSE/W/TUNI section SW-II Tadepalligudem-Improvement to approach road at GOODS Shed and unloading AREA	2,79,43,659	1382069	07.07.2020	work in progress
29	LOA.No.SCR/Engg/North/496/T.E.27/N/2019/dtd.18.03.2020 Agt.No.07/Sr.DEN/NBZA/2020, Dt.11.06.2020	SW-IBZA VSKP section-closing of LC gate No.375 at KM 540/6-8 & by providing Link rod from LC.No.375 to 376 in sse/PWAY/TDD section in ADEN/RJY SW-II BZA-VSKP section LC.No.385 at KM 560/2-4, by providing link road from LC.No.385- to 384 in Sse/PWAY/RJY section ADEN/RJY SW-III BZA-VSKP section Closing of manned LC gate No.390 at KM 566/02-04, by providing link road from LC No.390 to 391 SSE/PWAY/RJY	2,55,95,539	2,55,95,539	17.07.2020	LOA ISSUED
30	B/W.569/I/ T.No.E-25/N/2019/ T.North 27.01.2020 agt.No.08Sr.DEN/N/BZA 2020 dtd.19.06. 2020	Civil work(Sanctioned work) RJY Extension of platform shelters at A category station at RJYSr.DEN/North/BZA, division RJY Extension of platform shelters at A category station at RJYSr.DEN/North/BZA, division	1,44,82,778	1,44,82,778	26.09.2020	LOA ISSUED
31	B/W.569/I/T.No.E-020/N/2019/T.North 28.11.2019. Agt.No.02/Sr.DEN/NBZA/2020, Dt.13.02.2020	CIVIL work BZA-VSKP section Engagement of Skilled artisan staff in SSE/W/RJY, SSE/W/NDD, SSE/W/SLO and SSE/W/TUNI for a period of 12 months	32,89,614	738381	27.11.2020	Work in progress

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

S.No	Category	GP	San	Act	Vac
P. WAY WING					
Fitter/P.Way					
1	Sr.Tech	4200	2	0	2
2	Fitter.Gr.I/P.Way	2800	4	0	4
3	Fitter.Gr.II/P.Way	2400	1	0	1
4	Fitter/helper	1800	5	2	3
	Total		12	2	10
Painter/P.Way					
1	Sr.Tech	4200	4	1	3
2	Gr.I	2800	7	2	5
3	Gr.II	2400	0	2	-2
4	Gr.III	1900	0	1	-1
5	Khalasi	1800	3	2	1
	Total		14	8	6
Carpenter/P.Way					
1	Sr.Tech	4200	3	1	2
2	Gr.I	2800	7	0	7
3	Gr.II	2400	1	1	0
4	Fitter/helper	1800	8	6	2
	Total		19	8	11
Bricklayer/P.Way					
1	Sr.Tech	4200	3	1	2
2	Gr.I	2800	6	0	6
3	Gr.II	2400	1	0	1
4	Fitter/helper	1800	8	4	4
	Total		18	5	13
Grinder /Moulder Striker/P.Way					
1	Sr.Tech	4200	5	2	3
2	Gr.I	2800	9	0	9
3	Gr.II	2400	1	0	1
	Total		15	2	13
	Total in P.ay		78	25	53
Bridge .WING					
Carpenter/Bridges					
1	Sr. Tech	4200	1	0	1
2	Gr.I	2800	2	0	2
3	Fitter/Helper	1800	2	1	1
	Total		5	1	4
Painter/Bri					
1	Sr. Tech	4200	1	0	1
2	Gr.I	2800	2	0	2
	Total		3	0	3

Brick layer/Bri					
1	Sr. Tech	4200	1	0	1
2	Gr.I	2800	1	0	1
	Total		2	0	2
	Total in Br.wing		10	1	9
Works WING					
Brick layer/Works					
1	Sr.Tech	4200	10	1	9
2	Gr.I	2800	14	5	9
3	Gr.II	2400	4	1	3
4	Gr.III	1900	3	10	-7
5	Khalasi	1800	9	11	-2
	Total		40	28	12
Carpenter/Works					
1	Sr.Tech	4200	12	1	11
2	Gr.I	2800	16	7	9
3	Gr.II	2400	2	2	0
4	Gr.III	1900	2	1	1
5	Khalasi	1800	9	10	-1
	Total		41	21	20
SM Fitter/Works					
1	Sr.Tech	4200	11	4	7
2	Gr.I	2800	14	4	10
3	Gr.II	2400	3	2	1
4	Gr.III	1900	3	5	-2
5	Khalasi	1800	3	1	2
	Total		34	16	18
Painter/Works					
1	Sr.Tech	4200	5	0	5
2	Gr.I	2800	8	4	4
3	Gr.II	2400	0	1	-1
4	Gr.III	1900	0	5	-5
5	Khalasi	1800	0	1	-1
	Toatl		13	11	2
	Total in Works wing		128	76	52
Misc.Categories					
1	Khalasi/caretaker/custodian	1800	28	24	4
2	Comp. Gateman	1800	11	7	4
3	Sanitary khalasi	1800	4	4	0
4	Multipurpose Khalasi	1800	208	185	23
	Total		251	220	31
	Total Non-Safety Position		467	322	145

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	8	11
Carpenter /works	41	21	20
Total	60	29	31

- 3.9.2 Painter:** This activity is a non-safety & noncore activity. Since most of the Painter, 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
Painter/P.WAY	14	8	6
Painter/works	13	11	2
Total	27	19	8

3.9.3 Brick Layer:

This activity is a non-safety & noncore activity. Most of the Brick Layer 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
Brick Layer/P.WAY	18	5	13
Brick Layer/works	40	28	12
Total	58	33	25

3.9.4 S M Fitter: 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
S M Fitter/P.WAY	12	2	10
S M Fitter /works	34	16	18
Total	46	18	28

3.9.5 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	Khalasi/caretaker/custodian	28	24	4
2	Comp. Gateman	11	7	4
3	Sanitary khalasi	4	4	0
4	Multipurpose Khalasi	208	185	23
	Total	251	220	31

3.9.6 Grinder/Moulder Striker: This activity is a non-safety & noncore activity. Most of this activities in the Engineering (P.way) 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
Grinder/Moulder Striker /P.WAY	15	2	13
Total	15	2	13

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

S.No.	Design	Sanction	Actual	Vacancy
1	Carpenter	60	29	31
2	Painter	27	19	8
3	Brick Layer	58	33	25
4	S M Fitter	46	18	28
5	Grinder/Moulder striker	15	2	13
6	Group-D Miscellaneous Category	251	220	31
	Total	457	321	136

3.11 With the above table, it is observed that there are 457 sanctioned posts, 321 on roll staff and 136 vacant posts in non-safety/ noncore categories of Engineering Department over BZA Division.

3.12 In view of the above, it is recommended as follows.

RECOMMENDATION:

It is recommended to surrender 136 vacant posts from sanctions of Engineering department over BZA division.

3.13 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. Process of outsourcing may be intimated to this office for further review of the work-study.

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4.0 FINANCIAL IMPLICATIONS:

- 4.1 When the recommendations are accepted, the recurring savings on surrender of the following posts in Engineering department over BZA 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	31	20750	I	3528	752618	9031416
2	Painter	18000	23500	8	20750	I	3528	194224	2330688
3	Brick Layer	18000	23500	25	20750	I	3528	606950	7283400
4	S M Fitter	18000	23500	28	20750	I	3528	679784	8157408
5	Grinder/ Moulder striker	18000	23500	13	20750	I	3528	315614	3787368
6	Gr.D Misc	1800	23500	31	20750	1	3528	752618	9031416
	TOTAL			136					39621696

On implementation of the recommendations of Work-study report, an annual savings of **Rs.3.96 crores** can be achieved.

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R E C O M M E N D A T I O N / S U G G E S T I O N

Sl. No.	<u>òçðÒîðòÛäð</u> <u>Recommendation:</u>	Para No.
01	It is recommended to surrender 136 vacant posts from sanctions of Engineering department over BZA division.	3.13