



WORK STUDY REPORT  
ON  
REVIEW OF STAFF  
WORKING IN TRACK SUPPLY DEPOT, GHAZIABAD  
2019-20

WORK STUDY TEAM

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NO.16-CP/15/WS/2019-20

CENTRAL PLANNING CELL  
NORTHERN RAILWAY  
BARODA HOUSE  
NEW DELHI.

## EXECUTIVE SUMMARY

This study was allotted to Central Planning Cell, HQ Office to identify redundant/unproductive activities and to suggest improved methods of working which necessitated due to closure of certain activities in the Track Supply Depot, Ghaziabad.

### STAFF POSITION

The total sanctioned and on roll strength of staff working in Track Supply Depot, Ghaziabad is detailed below:

S.No.	Category	S/S	O/R	Var.
1	SSE/CDMS/DMS/JE	07	-	07
2	Ch.OS/OS/Sr. Clerk/Clerk	05	03	02
3	MCM	13	08	05
4	Technician-I	26	03	23
5	Technician-II	03	03	-
6	Technician-III	04	04	-
7	Chokidar	10	04	06
8	Khallasi	39	12	27
15	Safaiwala	01	01	-
	Total	108	39	69

\*01 work charge post of SSE has not been included.

No. of posts identified surplus and recommended for surrender.

Group 'C' = 29 posts

Group 'D' = 30 posts

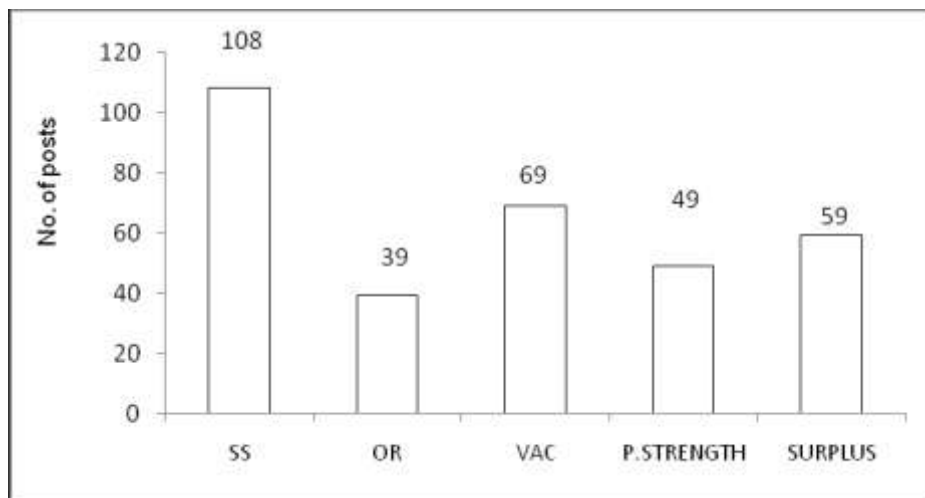
Total = 59 Posts

### FINANCIAL IMPLICATIONS

Anticipated recurring saving = ■ 403.69 lacs per annum

Capital Saving = Nil

Total recurring saving = ■ 403.69 Lacs per annum.



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## SYNOPSIS

Indian Railway is the world's second largest rail network which transports almost 2.5 crore passengers daily. Most often people travel through it. It can be easily accessed from anywhere. It is the best and comfortable medium of transportation. In Railways, Rail track are the main important components in track, it provides a smooth level surface for the movement of trains. Railway tracks play a significant role for safe movement of trains.

Track Supply Depot over Northern Railway is situated and functioning at Ghaziabad as a centralized Depot since independence. This depot is functioning additional facilities of reclamation work of P.Way materials to get economy by the reclaiming the released materials. Now the work of reclamation of steel sleepers has been closed which was earlier carried out by converting the BG steel sleepers in to MG/NG steel sleepers.

Initially the work of glued joints was carried out by the Butt Welding Plant, Meerut. Presently the activity of glued joints is being carried out at Track Supply Depot, Ghaziabad. Production of glued joints at Track Supply Depot, Ghaziabad is highly expensive as huge manpower is engaged for this work.

Basically, this depot is functioning for the production and issuance of P.Way material at the centralized place. The material received from firms or different sources is received and stocked and thereafter issued to the divisions to meet the day to day requirement of P.Way work i.e. for maintenance of track, replacement of sleepers etc. Due to modernization and systems development in every sphere of Railway working, a lot of departmental activities have become redundant/ obsolete. and unproductive because of technological changes

Keeping in view of above, SDGM/NR directed Central Planning Cell HQ to conduct a review of Track Supply Depot, Ghaziabad with a view to optimize the manpower due to advancements/modernization. The work study team suggested certain improved methods in working to increase the productivity. The team also kept in view the local working conditions and held discussions at various levels before assessing the requirement of manpower.

Finally, the team is of the opinion that if the recommendations made in the report are accepted and implemented in toto, a net recurring saving to the tune of ■ 403.69 lacs per annum is likely to be achieved after surrendering of 59 posts identified as surplus.

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### SUMMARY OF RECOMMENDATIONS

Rec No	Recommendations	Refer para no.	Accepting/ Implementing authority
1	It is proposed that 29 posts of Gr 'C' staff are identified as surplus from Track Supply Depot, GZB be surrendered. CDMS Grade 9300-3400-4600 =02 OS Grade 9300-34800-4200 =01 MCM Grade 9300-34800-4200=03 Tech.-I Grade 5200-20200-2800 =23 Total =29	2.2.4	DY.CE/TP/NRHQ Dy.CPO/HQ AEN/TSD/GZB
2	It is proposed that 20 posts of Gr 'D' staff are identified as surplus be surrendered. Chowkidar Gr. 5200-20200-1800 =06  Khallasi Gr. 5200-20200-1800 =24 Total =30	2.2.4	--DO--
3	It is proposed that possibility for outsourcing of glued joints production activity may be explored to bring economy in the system	2.2.5	--DO--

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## ACKNOWLEDGEMENT

The work study team is highly grateful to Shri Sunil Kumar, Dy.CE/TP/N .Rly, Baroda House, New Delhi, Shri Rakesh Sharma, AEN/TSD/GZB and other functionaries for giving valuable guidance and extending their full co-operation for providing requisite data/information during the conduct of study.

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## 1.0 INTRODUCTION

1.1 Track fitness is a basic need of train operation. This can be achieved only by the intensive care of P.Way tracks. Engineering department plays a vital role for its exclusive maintenance for providing greater safety, punctuality and reliability of train operation. With the increase in volume of traffic and due to introduction of high speed trains, good and robust track has become a necessity.  
In view of the above, each of the railways was supposed to establish a centralized track supply depot to keep close constant supervision to meet with the needs of P.Way requirements of the concerned railway for maintenance of track periodically and intensively.

1.2 Due to modernization and system development, a lot of activities have become redundant/obsolete which were essentially required due to excessive manual operations as well as departmental procurement of materials i.e. P.Way fittings etc. Under these circumstances, Track Supply Depot, Ghaziabad over Northern Railway was established to provide necessary P.Way material and fittings to various Divisions of N.Rly as per their requirement.

1.3 As a matter of fact, Track Supply Depot, GZB is functioning as a centralized depot over Northern Railway with the main function as issue and procurement of P.Way materials from Traders/Railway workshops and to distribute the same to various divisions/track depots as per their demand. The work of converting MG/NG steel sleepers carried out at Track Supply Depot, GZB has now been closed as these steel sleepers are now not being used on Railways.

1.4 Keeping in view of above, SDGM/NR directed to conduct the "Review of Gr.'C' & 'D' staff working in Track Supply Depot, Ghaziabad" to eliminate wasteful expenditure and to optimize utilization of assets and manpower. It was also emphasized that unproductive/obsolete activities be eliminated to increase productivity.

## 1.5 TERMS OF REFERENCE

The work study has been conducted under the following terms of reference: -

- i) To review staff strength vis-à-vis workload.
- ii) To suggest ways and means to identify redundant/unproductive activities to eliminate wasteful expenditure.
- iii) To suggest ways and means to improve the system economically in view of modernization and systems development.

## 1.6 METHODOLOGY ADOPTED

The following method study and work measurement techniques were adopted to conduct the study: -

- i) Data collection and its critical analysis.
- ii) Work sampling, analytical estimation, spot observations, physical checks and yardstick in vogue, if any, to assess the performance of staff.
- iii) Held discussions at various levels.

2.0.0 BRIEF DESCRIPTION, STAFF POSITION, WORKLOAD, CRITICAL ANALYSIS, REQUIREMENT OF STAFF, RECOMMENDATIONS & OBSERVATIONS

2.1.0 BRIEF DESCRIPTION

(i) WORKSHOP SIDE

The basic function of Track Supply Depot, GZB is to issue and to procure P.Way materials from traders as well as from zonal workshops. This depot works as a centralized depot to meet the divisional requirement for track maintenance of their jurisdiction. Since independence this depot used to carry out the activity of converging BG steel sleepers to MG and MG steel sleepers to NG steel sleepers. However, this activity has been closed after modernization in the P.Way. The other major activity carried out in this track depot is manufacturing of Glued Joints of rails.

Due to technological up gradations in Railways i.e. adoption of PRC sleepers instead of steel sleepers most of the activities of manufacturing has been closed. Under the above circumstances there is need for reviewing of staff in the Track Supply Depot, GZB.

(ii) DEPOT SIDE

The Track Supply Depot is a centralized depot of Northern Railway which is essentially required for providing the necessary track maintenance parts and fittings to avoid any failure or mishap. On the depot side the procurement of P.Way track materials is met from open market. The loading/unloading of transporting materials are done by the contractual labour.

2.1.2 In view of the above, a review was assigned to C.P.Cell to assess the actual utilization/requirement of staff engaged in workshop side and depot side of Track Supply Depot/GZB.

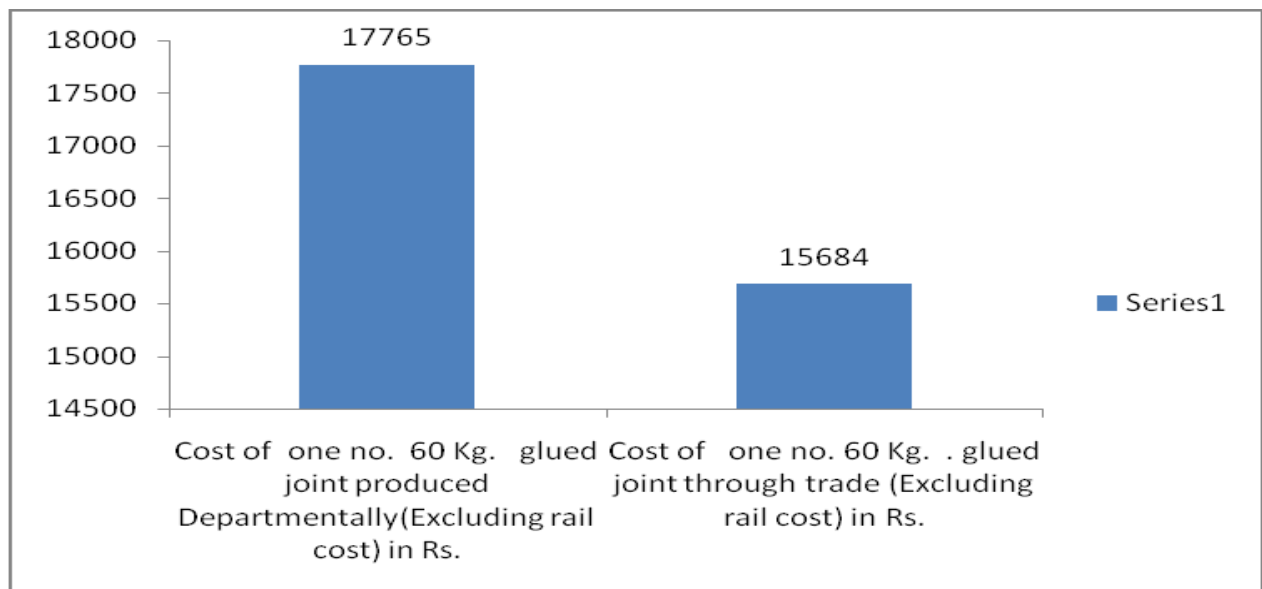
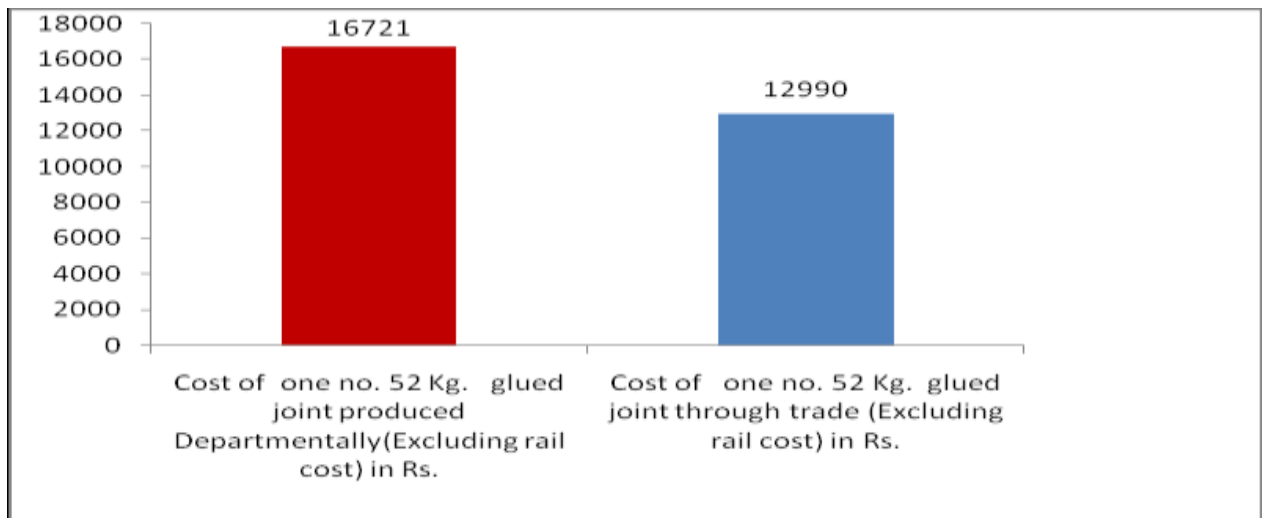
2.1.3 CRITICAL ANALYSIS

2.1.4 Since manpower is the biggest component of the expenditure of Indian Railways, rightsizing of manpower to reduce unit costs is an effective way to increase efficiency of Indian Railway.

2.1.5 The one of biggest advantage of outsourcing is cost savings. The lower cost of labour provided by outsourcing is very economical to the system.

Type of Glued joints	Cost of <b>one glued joint</b> produced in house(Excluding rail cost) in Rs.	Cost of <b>one glued joint</b> procured from the vendor(Excluding rail cost) in Rs.	Remarks
60 KG	17764.70	15684.00	Approx. 11.70% less than in house cost.
52 KG	16720.70	15281.00	Approx. 8.60 % less than in house cost.
		12990.00	Approx. 22.30 % less than in house cost.





2.1.6 In the Track Supply Depot, GZB, the glued joints produced costs much higher than the glued joints procured from the vendor.

2.1.7 Vide P.O. No. 50-19-2598-01-53192-36-NR dt. 20.05.2019, Indiana Track Engineers has to provide 2830 glued joints of 52 KG at the cost of Rs. 15281.00 and glued joints of 60 KG are still available in sufficient numbers. In some cases TSD/GZB provides raw material of glued joints to the concerned SSE/P.Way at the working site.

2.1.8 Vide P.O. No. 50-19-3031-01-53202-36-NR dt. 19.08.2019, Veera Techno, Sampla, Calcutta springs and Shivam enterprises, FDB has to provide 1000 glued joints of 60 KG at the cost of Rs. 15684.00.

2.1.9 Vide P.O. No. 50-19-3032-01-53222-36-NR dt. 19.08.2019, Veera Techno., Sampla, Indiana Track Engineers, Mohali and Tirupati Metals, FDB has to provide 2032 glued joints of 52 KG at the cost of Rs. 12990.00.

#### 2.1.8 WORK LOAD

As the study is confined to conduct a review of Track Supply Depot, GZB to assess the actual work done on both sides i.e. workshop and Depot unit. The team collected the production data of glued insulated joints of rails for the last three years. and the performance of the depot sections in terms of receipt and issue of materials being the main activity. The year wise production of glued joints and depot side is given below

#### WORK SHOP SIDE PERFORMANCE

TABLE NO. I : YEAR WISE PRODUCTION OF GLUED JOINTS AT TSD/GZB

S.No.	Description	2016-17	2017-18	2018-19	Remarks
1	Glued Joints 60 KG	-	-	-	Glued Joints 60 KG are not being fabricated in TSD/GZB
2	Glued Joints 52 KG	-	303 Nos.	688 Nos.	
Total		-	303 Nos.	688 Nos.	

TABLE NO.-II: YEARWISE POSITION OF GLUED DESPATCHED TO DIVISIONS

F.Y.	Types	Opening balance	Produced	Dispatched	Closing balance
2016-17	60 KG	1354	-	-	1354
	52 KG	187	-	19	168
2017-18	60 KG	1354	-	75	1279
	52 KG	168	303	212	259
2018-19	60 KG	1279	-	90	1189
	52 KG	259	688	891	56

TABLE NO.-III: DEPOT SIDE PERFORMANCE

F.Y.	Opening balance of all types of items	All types of items receipt in nos.	Total balance in nos.(All type)	All types of items issued in nos.	Closing balance of all types of items
2016-17	3600515	6815516	10416031	8639958	1776073
2017-18	1776073	8893075	10669148	9735959	933189
2018-19	933189	21727543	22660732	19792306	2868426

The list of the items being procured in Track Supply Depot, GZB has been provided as annexure –II in the report.

### 2.1.9 MEASURING TECHNIQUE

During the conduct of study, the work study team visited Workshop and depot side to assess the requirement of staff. There is no requisite yard stick, so the team calculated the requirement of staff by applying the analytical estimation technique and the spot observation. The team observed the working activity of the deployed staff and keeping in view the ground realities, the required man power has been provided.

### 2.2.0 STAFF POSITION

The team collected the staff position of Group 'C' and 'D'; staff working in Track Supply Depot, GZB which is placed as Annexure I in the report and detailed position is tabulated as under:-

S.No.	Category	S/S	O/R	Var.	Remarks
1	SSE	03	-	03	
2	JE	01	-	01	
3	Ch.OS	01	-	01	
4	O.S.	02	01	01	
5	Sr.Clerk	01	01	-	
6	Clerk	01	01	-	
7	CDMS	02	-	02	
8	DMS	01	01	-	
9	MCM	13	08	05	
10	Technician-I	26	03	23	
11	Technician-II	03	03	-	
12	Technician-III	04	04	-	
13	Chokidar	10	04	06	
14	Khallasi	39	12	27	
15	Safaiwala	01	01	-	
	Total	108	39	69	

\*One work charge post of SSE has not been included in the sanctioned strength of SSE.

## 2.2.1 DEPLOYMENT OF STAFF

### WORKSHOP SIDE & DEPOT SIDE

The workload & the activity of work shop side was collected by the team and interacted with the SSE/IC/Workshop to know about the working procedure. It was appraised that nowadays only the activity of glued joints manufacturing is being carried out.

The working activity of Depot side was observed by the team and also interacted with the SSE/IC/Depot to know about the working procedure. It was appraised that apart from manufacturing of glued joints, TSD/GZB also procures glued joints which are received from different firms being the centralized depot. It also procures the 13 meters rail length of 52kg and 60kg, 19 types of bolts and nuts, elastic rail clips, grudge rubber sole plates, CMS crossings of 52kg and 60kg, O/R switch of 52kg and 60kg, ordinary SEJ 52kg/60kg, derailing switch 52kg/60kg, D/crossing 52kg, GFN liners, Metal liners, joggle fishplate 52kg/60kg etc. These above mentioned items are received from different venders and staked here for onward supply to the divisions as per requirement.

The existing deployment is tabulated as under:-

S.No.	Category for activity of glued joints	Staff deployed
1	SSE	01
2	Shifting of rails, cutting and drilling of rail pieces.	11
3	Sand ballasting, cutting of rail pieces and fish plates.	02
4	FG cloth cutting for channel, end post, ferrool 12 sets.	01
5	Preparation of channel, end post and ferrools.	02
6	Febrication of G/joints 6 no.	10
7	Finishing, numbering and testing of 06 no.	03
8	Ministerial	03
9	DMS	01
10	Safaiwala	01
11	Chowkidar	04
Grant total		39

Note:- In the manufacturing of glued joints, there are about seventeen activities out of which most of the activities have been clubbed.

## 2.2.2 REQUIREMENT OF STAFF

### (A) WORKSHOP SIDE

S.No.	Description of activities	Staff required.
1	Over all supervision	SSE=01
2	To supervise production	JE=01
2	Cutting and drilling of rail pieces on Hacksaw machine and drilling machine for 6 nos. glued joints	MCM=03, Tech.=05, Helper=02 <b>Total=10</b>
3	Sand ballasting/cutting of rail pieces & fish plate	MCM =02 <b>Total =02</b>
4	Fabrication of glued joints 06 nos.	MCM=01, Fitter=02, Tech.=01, Helper=04 <b>Total=08</b>
5	Finishing and numbering and testing of 06 no. glued joints	Tech.=02, Helper=01 <b>Total =03</b>
6	Cutting of FG cloth for channel, end post, ferrels 12 sets	Fitter=01, <b>Total =01</b>
7	Preparation of channels, end posts and ferrels	Tech.=02, <b>Total =02</b>
8	Requirement of Tech. staff	18
	LR @12.5% on 18	2.25
	Total requirement of Tech. staff for Workshop side	20.25 or say 20 staff.
	Requirement of helper staff for workshop side	08
	LR @12.5% on 08	01
	Total requirement of helper staff for workshop side	09 staff.

### (B) DEPOT SIDE

The working activity of Depot side was observed by the team and also interacted with the SSE/IC/Depot to know about the working procedure. It was appraised that apart to manufacturing of glued joints, TSD/GZB also procures glued joints which received from different firms through P.O. as and when required on need basis being the centralized depot. It also procures the 13 meters rails of 52kg and 60kg, 19 types of bolts and nuts, elastic rail clips, grudge rubber sole plates, CMS crossings of 52kg and 60kg, O/R switch 52kg and 60kg, ordinary SEJ 52kg/60kg, derailing switch 52kg/60kg, D/crossing 52kg, GFN liners, Metal liners, joggle fishplate 52kg/60kg etc. These above mentioned items are received from different vendors and staked here for onward supply to the divisions as per requirement. The existing deployment is tabulated as under:-

S.N	Category	Working activity	Proposed requirement	
			Gr 'C'	Gr 'D'
1	SSE/G & SSE/ Depot (One work charge post)	01 SSE/G for general supervision of entire TSD/GZB. SSE/Depot to maintain inventory records of all receipt and dispatch items and attached to AEN/TSD/GZB for necessary correspondence.	02	-
2	Sr. Clerk	Issues gate pass, issue notes and prepares various statements and maintains stocks register, to maintain inventory receipts and dispatch of glued joints and other rail material.	01	-
4	Khallasi	For AEN office		01
		For SSE/G/Depot	-	01
		For COS office		
		To assist in different activities in depot (including LR)		04
Total			03	06

In depot side all the loading/unloading work is performed by the contractual labour, thus no staff has been provided for these activities.

(C) ESTABLISHMENT

The sanctioned strength of ministerial staff is 05 where as 03 are on roll. The two staff (OS-01,Clerk-01) have been proposed for depot side. The proposed ministerial staff in establishment section is as under:-

S.No.	Description of work	No. of staff required
1	To look after policy, establishment matters and correspondence work.	COS=01
2	To look after salary bills, leave accounts, pay orders and retirement cases.	OS=01
3	To look after pass/PTOs, Dak, stationary and staff quarter related cases.	Sr. Clerk=01

(D) Depot Material Supervisor(DMS):

The sanctioned strength of DMS is 03 whereas 01 is on roll. The team observed the working of DMS staff. He maintains the inventory of rails and other items used in the manufacturing of glued joints. The approx. production of glued joints is 03 per day for which 13 meters rails of 52kg and 60kg or say about 200 rails are procured by TSD/GZB and DMS maintains the ledger. The team analysed the working of DMS and opines that one DMS is sufficient to cope with the existing workload. As there are two posts of CDMS lying vacant may be surrendered.

### (E) OTHER GROUP 'D' STAFF

The category of other Gr 'D' staff working in TSD/GZB is chowkidar, khallasi and safaiwala. The requirement is given as under:-

S. N	Category	Working activity	Existing deployment	Proposed deployment
1	Chowkidar	Deployed at gate in 8-hrs shift.	04 (including LR/RG)	04 ( including LR/RG)
2	Safaiwala	Deployed for cleaning	01	01
Total			05	05

The sanctioned of chowkidar staff is 10 and 04 are on roll with 06 vacant posts. The 04 chowkidar are deployed at gate for opening/closing of main gate when loaded/empty trucks arrive. The team noted the workload and found that on an average 05 trucks arrive/depart per day. However, the chowkidar on duty explained that someday about 04 to 05 trucks arrive/depart and sometime none. The chowkidar opens/closes the gate and also looks after the railway material lying in the premises. It was also informed that there is another gate which was used when the consignment was arrived by rail wagons. This gate is non operational since long as the road traffic is preferred by the consignee.

Keeping above in view the team opines that the existing set up of 04 chowkidars is sufficient and 06 vacant posts to be surrendered.

#### 2.2.3

#### SUMMARY OF EXISTING AND PROPOSED REQUIREMENT OF STAFF

S.No.	Category	Sanctioned strength	Proposed Strength	Identified surplus	Remarks
1	SSE	03	03	-	
2	JE	01	01	-	-
3	COS	01	01	-	-
4	OS	02	01	01	
5	Sr. Clerk	01	01	-	-
6	Clerk	01	01	-	-
7	CDMS	02	-	02	-
8	DMS	01	01	-	
9	MCM	13	10	03	-
10	Technician-I	26	03	23	-
11	Technician-II	03	03	-	-
12	Technician-III	04	04	-	-
13	Chowkidar	10	04	06	-
14	Helper Khallasi	11	09	02	-
15	Safaiwala	01	01	-	-
16	khallasi	28	06	22	
Total		108	49	59	

### Recommendation No.1

It is proposed that 29 posts of Gr 'C' staff are identified as surplus from Track Supply Depot, GZB be surrendered.

S.No.	Category	Grade Rs.	No. of post identified surplus
1	CDMS	9300-34800-4600	02
2	OS	9300-34800-4200	01
2	MCM	9300-34800-4200	03
3	Technician-I.	5200-20200-2800	23
Total			29

### Recommendation No.2

It is proposed that 30 posts of Gr 'D' staff are identified from Track Supply Depot, GZB be surrendered.

S.No.	Category	Grade Rs.	No. of post identified surplus
1	Chawkidar	5200-20200-1800	06
2	Khallasi	5200-20200-2800	24
Total			30

2.2.4

### OBSERVATIONS

During the course of study, the team deeply observed the working of workshop engaged in the production of glued joints. As mentioned in the report approx. 03 glued joints are manufactured per day by TSD/GZB. This production is very less to meet out the demand of entire Northern Railway so railways have to procure glued joints from private firms .In the following table a comparison between the cost of the glued joints manufactured by the railways and by the private firms has been described.

Description	Manufacturing cost by Railway (in Rs)	Manufacturing cost by firms (in Rs)	Difference
Cost of one glued joints 52 kg.	16720.70	15281.00	1439.70
		12990.00	3730.70
Cost of one glued joints 60 kg.	17764.70	15684.00	2080.70

***The above table shows that cost of glued joints manufactured by railways is quite higher as compared to procuring through private firms. Hence it is proposed that possibility may be explored for outsourcing of glued joints production activity to bring economy in the system.***

### Recommendation No.3

It is proposed that possibility for outsourcing of glued joints production activity may be explored to bring economy in the system.



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### 3.0.0 FINANCIAL IMPLICATIONS

3.1.0 The annual expenditure as per 7<sup>th</sup> CPC on staff working in Track Supply Depot, GZB is as under:-

S.No.	Category	Grade Rs.	Monthly value per post	S/S	Monthly expenditure (In Rs.)	Annual expenditure (In Rs.)
1	SSE/CDMS/COS	9300-34800-4600	104888	06	629328	7551936.00
2	JE/OS/DMS/MCM	9300-34800-4200	82768	17	1407056	16884672.00
3	Tech.-I/Sr.Clerk	5200-20200-2800	68040	27	1837080	22044960.00
4	Tech.-II	5200-20200-2400	59696	03	179088	2149056.00
5	Tech.-III/Clerk	5200-20200-1900	46536	05	232680	2792160.00
6	Helper/Sr. Khallasi/Chowkidar/Safaiwala	5200-20200-1800	41944	50	2097200	25166400.00
Total				108		76589184.00

The above table reveals that the annual expenditure being incurred on 108 sanctioned posts of staff working in Track Supply Depot, GZB is Rs. 76589184.00

3.2.0 Proposed strength: The annual expenditure on the proposed strength of staff for Track Supply Depot, GZB is as under:-

S.No.	Category	Grade Rs.	Monthly value per post	P/S	Monthly expenditure (In Rs.)	Annual expenditure (In Rs.)
1	SSE/COS	9300-34800-4600	104888	04	419552	5034624.00
2	JE/OS/DMS/ MCM	9300-34800-4200	82768	13	1075984	12911808.00
3	Tech.-I/Sr.Clerk	5200-20200-2800	68040	04	272160	3265920.00
4	Tech.-II	5200-20200-2400	59696	03	179088	2149056.00
5	Tech.-III/Clerk	5200-20200-1900	46536	05	232680	2792160.00
6	Helper/Sr. Khallasi/Chowkidar /Safaiwala	5200-20200-1800	41944	20	838880	10066560.00
Total				49	-	36220128.00

The above table reveals that total annual expenditure on the proposed 49 staff for Track Supply Depot, GZB will be reduced to ■36220128.00 instead of ■76589184.00 and net annual recurring saving will be ■40369056.00

#### 4.0.0 ANTICIPATED RECURRING SAVING

S N	Category	Grade ■■■	Refer Recom No.	No. of surplus posts	Monthly value per post Rs.	Anticipated annual recurring saving ■■■
1	CDMS	9300-34800-4600	2.2.4	02	104888.00	2517312.00
2	OS	9300-34800-4200	2.2.4	01	82768.00	993216.00
2	MCM	9300-34800-4200	2.2.4	03	82768.00	2979648.00
2	Tech.-I	5200-20200-2800	2.2.4	23	68040.00	18779040.00
3	Chowkidar	5200-20200-1800	2.2.4	06	41944.00	3019968.00
4	Khallasi	5200-20200-1800	2.2.4	24	41944.00	12079872.00
		Total		59		40369056.00

No. of posts identified as surplus: -

Group 'C' = 29 posts

Group 'D' = 30 posts

Total = 59 posts

Anticipated recurring saving = ■■■ 403.69 lacs per annum

Capital saving=Nil

Total saving = ■■■ 403.69 lacs per annum

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### WORK STUDY REPORT DETAILED CHART

Department: -Civil Engineering.

Name of study: - Review of staff working in Track Supply Depot/GZB.

Activity Centre: - Track Supply Depot/GZB.

SN	Sub activity	Brief description of workload	Actual staff deployed	Work Study recommendation	Representative workload
1	TSD/GZB of Northern Railway is functioning for production of glued joints and procurement of P.Way materials.	The layout of TSD/GZB is divided into two portions i.e. workshop side and depot side. The workshop side produces approx. 03 glued joints per day. The depot side procures approx 82 items and glued joints from different firms being centralized depot for Northern Railway.	The entire strength of Gr.'C' and Gr.'D' staff working in TSD/GZB. SS=108 OR=38	The work study team recommended that 59 posts in different categories and grades have been proposed for surrender.	The departmental production of glued joints is costly in comparison to procured through market.. So the glued joints may be procured through open market to bring economy in the system.

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### LIST OF ANNEXURES

S.N.	Description	Annex. No.
1	Statement showing staff position of Track Supply Depot/GZB.	I
2	List of items being procured in the Track Supply Depot, GZB.	II
3	Letter of C.P.Cell to initiate the work study No. 16-CP/15/WS/19-20 dt.07/06/19	III

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Annexure-I

The total sanctioned and on roll strength of staff working in Track Supply Depot, Ghaziabad is detailed below:-

S.No.	Category	S/S	O/R	Var.	Remarks
1	SSE	03	-	03	
2	JE	01	-	01	
3	Ch.OS	01	-	01	
4	O.S.	02	01	01	
5	Sr.Clerk	01	01	-	
6	Clerk	01	01	-	
7	CDMS	02	-	02	
8	DMS	01	01	-	
9	MCM	13	08	05	
10	Technician-I	26	03	23	
11	Technician-II	03	03	-	
12	Technician-III	04	04	-	
13	Chowkidar	10	04	06	
14	Khallasi	39	12	27	
15	Safaiwala	01	01	-	
	Total	108	39	69	

\*01 work charge post of SSE has not been included.

## Annexure-II

### List of items being procured in the Track Supply Depot, GZB.

S.No.	Name of the item	S.No.	Name of the item	S.No.	Name of the item
1	ERC T-3701	25	GRSP CMS Xing 1 in 12 no. 41 to 54	51	GRSP/D/Xing double slip T5364
2	Anti theft ERC	26	CMS Xing 1 in 16 60KG	52	Diamond Xing S/S T 5363
3	ERC T-8258 J CLIP	27	OR Switch 60KG 1in 16	53	GRSP/D/Xing single slip T5363
4	GFN LINER T-3706	28	GRSP T/Out 1 in 16 60KG T5691	54	GR Pad D/Xing 1in 8.5 52KG T5362
5	GFN LINER T-3707/08	29	GRSP T/CMS/1in16 T 5693	55	Scissor-x-over 1in 8.5/60KG
6	GFN LINER T-3702	30	CMS Xing 1 in 20 60KG T 5860	56	GRSP for D/Xing scissor 1in 8.5T6092
7	METAL LINER T-3738	31	OR Switch 60KG 1in 20 T 5859	57	Scissor-x-over 1in 12/60KG
8	METAL LINER T-3740	32	GRSP 1in 20/60KG T 5858	58	GRSP for D/Xing scissor 1in 12 T8109
9	METAL LINER T-3741/42	33	Check Rail 52KG T 4773	59	IMP SEJ 60KG T-6922(double gap)
10	GR PADS T-3703	34	Check Rail 52KG T 4018	60	IMP SEJ 60KG T-6902(single gap)
11	Composite GRS Pad T6618	35	Three hole block T-4775/4776	61	IMP SEJ 52 KG T-6930 (double gap)
12	Composite GRS Pad T 8327	36	ORS Thick web switch 1 in 12 60KG	62	IMP SEJ 52 KG T-6914 (single gap)
13	CMS Xing 1 in 12 52 KG	37	ORS Thick web switch 1 in 8.5 60KG	63	SEJ 52 KG(with fittings) T-4160
14	OR Switch 52 KG/1in 12	38	ORS Thick web switch 1 in 16 60KG	64	SEJ 60 KG(with fittings) T-4165
15	GRSP ORS 1 in 12/52KG T4732	39	O/S Derailing 52 KG T5836	65	GR PAD T-4159
16	CMS Xing 1 in 12 60KG	40	GR/D/S/1 in 8.5/52KG T5836	66	J/F Plate 52KG
17	OR Switch 60 KG/1in 12	41	O/S Derailing 60KG T6068	67	Joogled clamps 52 KG T858
18	GRSP ORS 1 in 12/60KG T4218	42	GR/D/S/1 in 8.5/52KG T 6068	68	J/F Plate 60 KG
19	GRSP CMS Xing 1 in 12 no. 64 to 78	43	Derailing switch RH 52KG T 8153	69	Joogled clamps 60 KG T4017
20	CMS Xing 1 in 12 60 KG	44	GRSP for /D/S/ RH 52KG T 8153	70	F/Plate 52 KG/1 Meter
21	OR Switch 52 KG/1in 8.5	45	Derailing switch LH 60 KG T 8007	71	F/Plate 60 KG/1 Meter
22	GRSP ORS 1in 8.5/52 KG T4865	46	GRSP for /D/S/ LH 60 KG T 8153	72	COMP/F/Plate 90 R 52 KG
23	CMS Xing 1 in 8.5 60KG	47	Derailing switch RH 60 KG T 8007	73	COMP/F/Plate 60 KG
24	OR Switch 60 KG/1in 8.5	48	GRSP for /D/S/ RH 60 KG T 8007	74	J/F Plate 60 KG T 5849
25	GRSP ORS 1in 8.5/60 KG	50	Diamond Xing D/S T 5364	75	J/F Plate 52KG T 5848

	T4965				
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S.No.	Name of the item	S.No.	Name of the item	S.No.	Name of the item
76	F/Plate 52 KG/1 Meter T 5915	82	L-Xing 60 KG	88	Raw material for G/Joint 60 KG
77	F/Plate 60 KG/1 Meter T 5916	83	SCREWS, WASHERS, KEYS ETC.	89	Raw material for G/Joint 60 KG
78	Comb. F/Plate 52KG/90 R	84	Glued joints 52 KG	90	Spl. Machine check rail 7.5 meter 52 KG
79	Comb. F/Plate 52KG/60KG	85	Glued joints 60 KG	91	Spl. Machine check rail 9.5 meter 52 KG
80	Bolts & nuts	86	F/Plate 52 KG G/J T-5361	92	Spl. Machine check rail 11.5 meter 52 KG
81	L-Xing 52 KG	87	F/Plate 60 KG G/J T-4843		

### Salient features of the work study

**Name of the Work study:** Review of staff working in Track Supply Depot, GZB.

**No. 16-CP/15/WS/19-20**

- (A) The study was conducted to provide the actual requirement of staff in view of the existing workload in Track Supply Depot, GZB. The maximum man power is engaged in the fabrication of glued joints. The departmental work is costing much higher than the trade. The comparative table is given below:-

Type of Glued joints	Cost of <b>one glued joint</b> produced in house(Excluding rail cost) in Rs.	Cost of <b>one glued joint</b> procured from the vendor(Excluding rail cost) in Rs.	Remarks
60 KG	17764.70	15684.00	Approx. 11.70% less than in house cost.
52 KG	16720.70	15281.00	Approx. 8.60 % less than in house cost.
		12990.00	Approx. 22.30 % less than in house cost.

- (B) Staff proposed and identified surplus:-

(i) Total sanctioned strength	=108
(ii) On roll strength	=39
(iii) Vacancy	=69
(iv) Proposed strength	=49
(v) Surplus	=59

- (C) Net recurring saving.

If the recommendations made in the report are accepted and implemented in toto, a net recurring saving to the tune of ■ 403.69 lacs per annum will be achieved after surrendering of 59 posts identified as surplus and will also economize the system.



