

CENTRAL RAILWAY
WORK STUDY REPORT ON
“REVIEW OF CONSERVANCY SAFAIWALA
STAFF OVER
BHUSAWAL DIVISION”



WORK STUDY CELL
CENTRAL RAILWAY
BHUSAWAL DIVISION

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WORK STUDY REPORT ON “REVIEW OF CONSERVANCY SAFAIWALA STAFF OVER BHUSAWAL DIVISION”

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SYNOPSIS

01	Study Number	WSCR/Misc/BSL/6/18-19.
02	Study Name	Review of Conservancy Safaiwala staff over Bhusawal division.
03	Department	Medical
04	Division	Bhusawal
05	Approved by	AGM (C.R)
06	Date of commencement	28/06/2018
07	Date of completion	27/09/2018
08	Date of Submission	28/09/2018
09	No. of Men Studied	326
10	No. of Recommendation	02
11	No. of posts Proposed for Surrender	85
12	Financial Implication	Rs 4,21,14,180/-

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AUTHORITY & TERMS OF REFERENCE

With the approval of AGM(C.R), “Work Study on Review of conservancy safaiwala staff over Bhusawal division” has been included in the “Annual Work Study Programme” for the year 2018-19 with study no : WSCR/Misc/BSL/6/18-19.

The terms of reference for the study are to assess the staff requirement vis-à-vis present workload.

METHODOLOGY

1. Collection of data in details with reference to nature and quantum of workload of each of the working staff.
2. Assessment of need based requirement of the staff.
3. Discussion of details with coordinating officer / supervisors.
4. Making recommendations for need based requirement of staff and other innovations in present context.
5. Working out financial implication involved in saving as a result of surrender of surplus staff.

Summary of Recommendations

SR. No.	Recommendation No.	Recommendation
01	01	05 posts of Safaiwala at BD are found surplus and need to be surrendered.
02	02	80 posts including (78 safaiwala+01 motor Driver+01 Motor Cleaner) may be surrendered.

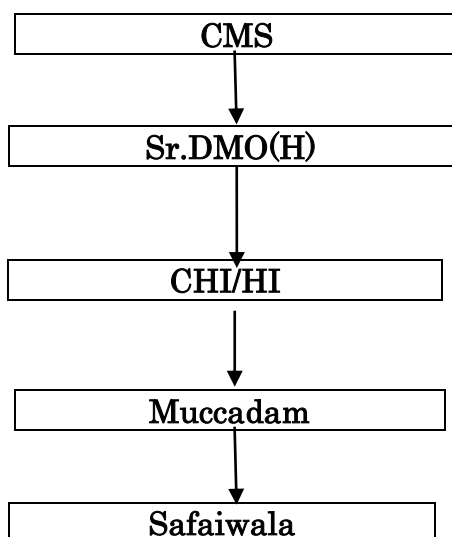
CHAPTER NO: 01 INTRODUCTION

- 1.1 INDIAN RAILWAYS is the largest means of transportation in INDIA. Railway Ministry is introducing all new programs for the improvement of the Railways in its various areas. Cleanliness in the railway premises is one of the main responsibilities of the railway administration. Also Swachh Bharat Abhiyan is an important drive of Govt. Of India.
- 1.2 “Cleanliness is next to Goldiness” this is main principle behind the cleanliness of the Railway stations and its premises. A clean environment attracts the valued customers and also makes the journey a pleasant experience. Also in the railway premises cleanliness is necessary for the hygienic purposes and good health of the railway employees and their families.
- 1.3 Unfortunately Railways has been criticized for poor cleanliness at the Railway stations and its premises. Most of the time cleanliness in the railway premises is brought into attention during the visit or inspection of any Minister, Senior Railway officials or any other VIPs.
- 1.4 In terms of mega initiatives taken by Zonal railways under the “Swachh Bharat Mission” regular events on cleanliness are organized, including periodic cleanliness drives.
- 1.5 More than two third of the railway employees are residencies in the railway quarters/colonies. So cleanliness in the Railway colonies is a major issue from health point of view as it directly affects the health of the staffs and their families.
- 1.6 Taking into consideration the importance of cleanliness a work study on the staff involved in the conservancy cleanliness is conducted and a draft is prepared.

CHAPTER NO: 02 EXISTING SCENARIO

2.1 Organization Set-up of the Conservancy Staff:

Conservancy staff comes under Medical Department. In Bhusawal division, CMS (Chief Medical Superindentant) is the overall in-charge of the Conservancy Staff. To assist CMS there is an Sr.DMO (Sr.Divisional Medical Officer/Health). Under Sr.DMO(H) there is CHI/HI (Chief Health Inspector/Health Inspector). And then there is Muccadam to supervise the work of the safaiwalas. Generally, this safaiwala is considered as responsible for safai work as he is the person actual involved in the practical safai work.



2.2 Medical Department:-

Medical Department is responsible for maintaining of cleanliness and Sanitary work of Railway Staff Colonies. It will be responsible for:-

- i) Efficient maintenance of sanitation including removal, collection and disposal of garbage and sweeping of roads, cleaning of common latrines, urinals and surface (open) drains including detritus (catch) chambers, disposal of sewage/night soil wherever there is no water borne sewerage system. In case of septic tanks including chocking of pipes carrying night soil, ablution water etc, cleaning will be done by Medical Department.

- ii) Supply of Sanitary stores including cleaning agents, disinfectants and other consumables used for cleaning of these colonies.
- iii) For disposal of garbage/waste material of major colonies.

2.3 Colony Sanitation:

- Conservancy work is classified as:
Indoor Conservancy and Outdoor Conservancy.
- Indoor Conservancy comprises of the cleaning of indoor sanitary installations, the collection of the refuse generated in the individual quarters like floor sweeping, domestic refuse etc. and transporting it into the refuse bins. This is the responsibility of the occupants of the railway quarters.
- Outdoor Conservancy comprises of cleaning of railway colony area, railway premises etc. The responsibility of the outdoor conservancy will devolve on the Medical, Engineering and Operating Department as per the Railway Board instructions. And shall include jobs like cleaning of drains, sewers, septic tank storm water drains, soak pits, dust bins etc.
- Railway administration is responsible for outdoor conservancy only. For indoor conservancy the occupants of railway quarters are responsible.
- Jungle cutting and clearance of rank vegetation is the responsibility of the Engineering Department. De-silting of the drains and de-slugging of the septic tanks is the responsibility of the Medical Department, where CHI/HI are posted along with sanitary staff. At way side stations where CHI/HIs are not posted, Engineering Department will take up the job.

2.4 CHI (Chief Health Inspector)

It is a supervisory post. As the name suggests he is a supervisor or an inspector for supervision or inspection of the cleanliness and other health related activities.

Pay Band - HI-Rs 9300-34800+GP 4200 L-6, CHI-Rs 9300-34800+GP 4600 L-7.

2.4.1 Duty Roaster of CHI:

- In the morning 07.00 -12.00 hrs.
- Lunch break from 12.00-14.00 hrs.
- In the evening 14.00-17.00 hrs.
- From Monday to Saturday.
- Rest Sunday (Without Rest Giver).

2.4.2 Duties of the CHI/HI:-

- i) Overall supervision over cleanliness activities.
- ii) To check attendance of the staff twice in a day and to take out good work from the sub-ordinates.
- iii) Collection of the food samples (only raw materials and packed items) for Quality Control from railway station, railway stall, pantry car, N/S canteen. At least 05 samples in a month (01 milk sample, 01 packed drinking water and 03 other samples).
- iv) Collect water samples from taps (minimum 04 samples in a month) for Chemical and Bactological analysis.
- v) Local RC (Residual Chlorine) check of water (Daily 04 tests).
- vi) Take active participation and encourage National Health Programs.
- vii) Official correspondence and leave sanctioning authority for sub-ordinates.

2.5 SAFAIWALA/ SAFAIWALI:-

This is the category of the staff involved in the safai work or the cleanliness activities. All the actual cleanliness activities are carried out by this staff.

2.5.1 Duty Roaster of the safaiwalas:-

I) In general, the duty roster is of eight hours:-

- In the morning 07-12 hrs (individual cleaning work)
- 12-14 hrs lunch break
- In the evening 14-17 hrs(Dalel work)
- Weekly rest on Sunday.(Without Rest Giver)

II) In the C.Rly Divisional Hospital,BSL.

The duty roaster of the safaiwalas working in the hospital is different from the safaiwalas in general. In the hospital, there are total three shifts of eight hours.

Sr.No	Shift no:	Shift Name	Timing
01	Shift no. I	Morning Shift	07.00-15.00 hrs
02	Shift no. II	Evening Shift	15.00-23.00 hrs
03	Shift no. III	Night Shift	23.00-07.00 hrs

2.5.2 Duties of the safaiwalas:

- 1) Cleaning of domestic drains, main drains, septic tanks.
- 2) Sweeping of path ways, roads & surroundings of quarters.
- 3) Rag picking from colony, collection of garbage refuse & its disposal to colony dustbins.
- 4) Removal of rank vegetation.

2.5.3 Job Assigned to the Safaiwala in each shift in the Divisional Hospital BSL :

- **Morning Shift (07-15 hrs) :-**

- 1) Sweeping and swabbing of ward twice a day.
- 2) Washing bathrooms twice a day i.e disinfectants.
- 3) Collect the sweeping rubbish in dustbin and burn the garbage.
- 4) Washing the ward periodically (also on holidays).
- 5) Helping all serious patients for giving urinals & latrine pans. Empty the urine bags.
- 6) Counting the serious patient's urine every 08 hours.
- 7) Collect all urine samples and send to lab for check up. Also carry blood samples to the lab.
- 8) Any other job assigned by ward in charge.

- **Evening Shift (15-23 Hrs) :-**

- 1) Sweeping and swabbing of ward once during duty.
- 2) Remove the cob webs of the ward.
- 3) Cleaning bathrooms i.e disinfectants.
- 4) Label all the urine bottles and supply to the patients for the urine examination.
- 5) Helping all serious patients for giving urinals & latrine pans. Empty the urine bags.
- 6) Counting the serious patient's urine every 08 hours.
- 7) Any other job assigned by ward in charge.

- **Night Shift (23-07 Hrs) :-**

- 1) Sweeping and swabbing of ward once during duty.
- 2) Cleaning utensils periodically.
- 3) Collect, remove and dispose of the rubbish.
- 4) Helping all serious patients for giving urinals & latrine pans. Empty the urine bags.
- 5) Cleaning bathrooms, latrines pans & disinfectants.
- 6) Collect all urine samples of the patients for routine checkup.

- **Morning Staff in hospital premises :-**

- 1) Sweeping all hospital premises.
- 2) Collect, remove and dispose of the rubbish from hospital premises.
- 3) Carry sanitary stores.
- 4) Cleaning the public & community latrines pans disinfectants.
- 5) Remove rank vegetation and other potential breeding places of larvae.
- 6) Carry out other duty ordered by ANO.

2.6 Muccadam

It is a post like a junior supervisor. But if the staff is not available or not sufficient he has to do the safai work.

2.6.1 Duty Roaster

Duty Roaster of the muccadam is same as a safaiwala as discussed in para 2.5.1.(1).

2.6.2 Duties of Muccadam :-

- He takes the attendance of the safaiwalas twice in a day in presence of CHI/ HI.
- He also takes the responsibility to provide the required items to the staff.
- He takes the work from safaiwalas in a smooth way.

2.7 What is Dalel work ?

Apart from specifying the area on the job for every safaiwala, 02-03 hours out of 08 hours of their duty everyday are kept for collective working. During this period, safaiwalas of a particular area work together to clean up a particularly dirty area or a drain, which cannot be attended by individual safaiwalas.

The CHI/HI prepare a weekly programme for this attention, after the inspection of the various areas under their jurisdiction and advice to the safaiwalas in advance, date-wise.

2.8 Material/Items issued to the safaiwalas for cleanliness purpose:

- | | |
|---------------------|---------------------------|
| 01) Broom Goa | 10) Acid (HCL) |
| 02) Wire claw | 11) D-crystal |
| 03) Gumbots | 12) N-balls (Naphthalene) |
| 04) Shewals | 13) Hand Gloves |
| 05) Fawda | 14) Plastic buckets |
| 06) Bamboo | 15) PVC tagari |
| 07) Phenoyl | 16) Bleaching powder |
| 08) Soap yellow bar | 17) Lime |
| 09) Lime | 18) PVC tagari |

Safaiwalas are provided with improved tools for improving the productivity and quality of their work. The materials provided to the safaiwalas such as Broom Goa, Fawda, Shewals, Panja are used to cleaning of roads and drainage, sweeping the path way provided to the railway quarters. Fawda is used to clean the drain or pick up the solid waste material or keep out of the drains to make free flow. The shewal is used to clean or lift the heavy solid wastes in the big drains. Panja is used for collecting plastic wastes from drains or to collect selective wastes

from drain water. The PVC bucket is provided to safaiwala staff to collect the scattered/thrown paper wastes or any other type of garbage material.

These materials are issued by **DSK/LOCO, BSL** to all the CHIs all over BSL Div.

2.9 Existing procedure carried out for Safai purpose:

For conducting this work study, data was collected from CHI/HIs of various depots and according to that information it is found that the general procedure of cleanliness is almost same all over BSL division. The procedure is as follow:

From 07-12 hrs cleaning of drains, sweeping of surroundings of railway quarters, path ways, front road, collection of garbage, refuse from resident and disposal to colony dustbins.

From 12-14 hrs lunch break.

From 14-17 hrs dalel work.

Time taken for the cleanliness / safai of the covered area is approximate 04 hrs. After lunch break mostly Dalel work is carried out in the second half.

2.10 Complaints against cleanliness:

As per the data provided by the CHIs of the depots all over BSL division, it was found that any complaint regarding cleanliness is attended on verbal information only. The average number of written complaints is 05-06 complaints in a month. Complaints which are occurring frequently are repeative in nature and are as follows:

- i) Complaints regarding dead animals and specially tramp (awaara) dogs.
- ii) Complaints regarding cleaning of septic tanks.
- iii) Complaints regarding choke up of the drains.
- iv) Waste materials thrown over open drainage by the Engg.Deptt./Contractors after completion of their work.

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CHAPTER NO.03

DEPOT WISE UTILIZATION OF THE STAFF

3.1 Bhusawal Division at a glance:

3.1.1 In the year 2008, for improving cleanliness of Railway staff colonies a Joint Procedure Order was circulated for Bhusawal Division from Headquarter, CSTM. According to this JPO Major Railway colonies are at Nasik Road, Devlali, Manmad, Chalisgaon, Jalgaon, Bhusawal, Malkapur, Shegaon, Akola, Murtijapur, Badnera, Amravati, Burhanpur and Khandwa.

3.1.2. All other colonies which do not come within the classification of major colonies are the Minor Railway Colonies.

3.1.3. In BSL Division, CHI/HIs are deputed for cleanliness of railway colonies at following stations.

Sr.No	Station
01	NKRD
02	MMR
03	NGN
04	BSL
05	SEG
06	MZR
07	BD
08	KNW
09	C.R.Hospital/BSL(ANO)

3.1.4. Following table gives a brief idea of the railway colony sanitation over the BSL Division.

Sr.NO	Station	In-charge	Remark
01	NKRD+DVL+TMW	CHI-NKRD	Posted at NKRD
02	MMR	CHI-MMR	Posted at MMR
03	NGN	CHI-NGN	Posted at NGN
04	CSN	CHI-NGN	Posted at NGN
05	PC	CHI-BSL	Posted at BSL

06	JL	SM –JL	Through Imprest
07	BSL	CHI-BSL	Posted at BSL
08	MKU	CHI-BSL	Posted at BSL
09	SEG	CHI-BSL	Safaiwala staff posted at SEG, but under CHI-BSL
10	AK	CHI-AK-SCR	To look after our CR .rly. colonies, our staff/mobile gang is also send.
11	MZR	CHI-MZR	Posted at MZR
12	BD	CHI-BD	Posted at BD
13	BAU	CHI-BSL	Posted at BSL
14	KNW	CHI-KNW	Posted at KNW
15	C.R.Hospital. BSL	ANO-BSL	Posted at Divisional Hospital,BSL.

- Major railway colony is also at Burhanpur, Akola, Pachora, Malkapur and Chalisgaon.
- At these colonies Mobile Gang is send for cleanliness purpose.
- This mobile gang comprises of one CHI and five safaiwalas.
- CMS-BSL has prepared a programme for this gang which is given below:-

3.1.5 MOBILE GANG SCHEDULE:

Station	Nominated Days	Mobile Gang From
BAU	I & III Friday	BSL
AK	II & IV Friday	BSL
PC	I & III Wednesday	BSL
MKU	II & IV Wednesday	BSL
CSN	On every Thursday	NGN

Except these stations, sanitation of the remaining railway colonies at way side stations is controlled by the Station Manager. For this SM utilizes the money from imprest.

3.2 NASIK ROAD

3.2.1 Nasik is the only A1 type of station in Bhusawal Division. Its location is very important from industrial, religious and railway point of view. IREEN is also located in NKRD.

3.2.2 Jurisdiction of the CHI-NKRD:

Under the jurisdiction of CHI-NKRD there are railway colonies at Nasik, Devalali and TMW. His section is also from GO-UGN (Ghoti to Ugaon).

3.2.3 Scale check of the Safaiwalas working under CHI –NKRD.

Sr.No	Station	Category	S / S	MOR	Vac.	Remarks
1	NKRD	Safaiwala	07	07	00	
2	DVL	Safaiwala	06	02	04	
3	TMW-NKRD	Safaiwala	06	03	03	01 safaiwala selected in HI

3.2.4 Details of the distribution of the staff:

Sr.No	Station	No.of S/wala	Area covered
01	NKRD	01	New Sinner phata Rly Colony.
		03	Old Sinner phata Rly Colony.
		02	Subhash Road Rly Colony.
		01	In CHI Office distribution of store tools & plant and keep watch on the work of the staff (as a Muccadam).
02	DVL	01 (Muccadam).	Muster Roll & keep watch on colony sanitation & issue tool and plants.
		01	Rly Qtrs of type MAP,MA, RB-I & Primary School. Entire colony

			as & when required(Due to large vacancies).
03	TMW-NKRD	01	IRIEEN Banglows (10 nos) all RB-IV type
		01	All RB-I & RB II type Qtrs
		01	All RB-III type Qtrs

3.3 Manmad (MMR)

3.3.1 Manmad is one of the main junctions of BSL division. MMR is having more importance due to holy place Shirdi. Railway servants of other division/railway are residing at MMR. Hence it becomes necessary for BSL division to take care of the railway colony sanitation.

3.3.2 Jurisdiction of CHI MMR:-

Major railway colony at MMR.

3.3.3 Scale check of the safaiwalas at MMR.

Sr.No	Category	S/S	MOR	VAC
01	Safaiwala	61	49	12

3.3.4 Details of the area covered by the safaiwalas:-

Location wise Staff distribution:

The railway colony at MMR is divided into three wards, A, B & C.

Sr.No	Ward	Rly Qrts	Total area in m2	Colony	Road	Drain	Muccadum	Septic Tank	Vac.	Total
1	A	595	249025	14	03	04	01	02	05	29
2	B	189	23000	06	02	02	01	01	03	15
3	C	190	120950	07	02	02	01	01	04	17
Total		974	392975	27	07	08	03	04	12	61

3.4 Nandgaon (NGN)

3.4.1 Nandgaon is the depot for goods trains. A number of staff from various departments like TRO, Operating, Commercial, Engineering etc is having railway quarters at NGN.

3.4.2 Jurisdiction of CHI NGN:-

Major railway colonies

A) At NGN i) Porter chawl ii) Aagwali chawal iii) Yeola road colony.

B) At CSN i) Ganesh colony ii) Mitra type colony.

For CSN a mobile gang comprising of 05 safaiwalas (along with CHI) is sent twice in a week for safai purpose. This team does the cleanliness work and also attends other requirement and complaints.

Section: NGN-DHI & NGN-GAA.

3.4.3 Scale Check of the safaiwala staff working under CHI-NGN.

Sr.No	Category	S/S	MOR	Vac.
01	Safaiwala	24	20	04

Total	24	20	04
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3.4.4 Details of area covered by the staff:

- A) All various types of railway quarters in NGN=387, CSN=230.Total 617.
- B) Length of railway colony road at NGN= 2.87 km, CSN= 3.00 km. Total 5.87 km.
- C) Cleaning of septic tank/aqua chamber at NGN= 87, CSN=115.Total=202.
- D) Length of drainage at NGN=4.8 km, CSN=4.5km.Total=9.3 km.

3.5 Shegaon (SEG)

3.5.1 Shegaon is also an important station from religious point of view as the famous Gajanan Maharaj Mandir & Anand Sagar Garden is located here.

3.5.2 Jurisdiction of CHI – SEG:-

Major railway colony of SEG.

At SEG there is no proper post of HI. The charge is handed over to HI at the BSL.

3.5.3 Scale check of safaiwalas at SEG:

Category	S/S	MOR	VAC
Safaiwala	08	08	00
Total	08	08	00

3.5.4 Details of distribution of the staff:

Sr.no	No. of Employee	Designation	Area Distributed
01	01	Safaiwala	As a muccadam & RB-IV,RB-III Qtrs.
02	02	Safaiwala	All colony drains
03	05	Safaiwala	All RB-I,RB-II & D type qtrs All K, Q, H & MAP qtrs All colony roads and other area.

3.6 Murtijapur (MZR)

3.6.1 Murtijapur is one of a major junction in BSL division.

MZR has its own importance due to MZR-YTL and MZR-ELP branch line (NG).

3.6.2 Jurisdiction of CHI – MZR:-

- i) Major railway colony at MZR
- ii) Section – MZR –NGZ and MZR – YTL.

3.6.3 Scale check of safaiwalas at MZR :

Category	S/S	MOR	VAC
Safaiwala	12	12	00

3.6.4 Details of distribution of the staff :

Sr.no	No. of Employee	Designation	Area Distributed
01	01	Safaiwala	As a muccadam & RB-IV, RB-III Qtrs.
02	02	Safaiwala	All colony drains
03	03	Safaiwala	All RB-I, RB-II & D type qtrs
04	03	Safaiwala	All colony roads and other area
05	03	Safaiwali	All K, Q, H & MAP qtrs

3.7 Bandera (BD)

3.7.1 Badnera is one of the important crew changing point for goods and passenger trains. It has its importance due to the Amravati terminus.

3.7.2 Jurisdiction of CHI –BD:

Railway colony at BD comes under the jurisdiction of CHI –BD.

Other than BD railway colony cleanliness the sections under CHI-BD are

- a) Badnera to Mana railway station.
- b) Badnera to Amravati railway station.
- c) Badnera to Chandur Bazar railway station.
- d) Branch line Murtijapur to Achalpur railway station.

3.7.3 Scale check of safaiwalas at BD

Sr.No	Category	S/S	MOR	Vacc
01	Safaiwala	20	19	01
Total		20	19	01

3.7.4 Distribution of the staff:

Sr.No	Name of the Rly colony	No. of the Safaiwalas employes
01	Rly Dispensary Road Rly colony. (Ward No : 01)	05
02	Mata Fail Rly colony. (Ward No : 02) Gandhi Vidyalaya Rly colony. (Ward No : 02)	03
04	Paach Bangla Rly colony. (Ward No : 02)	02
05	Mill Chawl Rly colony. (Ward No : 02)	02
06	Running Room surrounding & circulating area.	03
07	Drains near Rly. hospital	01
08	Big drains	01
09	Rly. Dispensary roads+drains	01
10	Big drains	01

Total : 19 safaiwala

3.7 Khandwa (KNW)

3.7.1 Khandwa Jn. is one of the important junctions in the BSL Divn. Staff working in BSL Divn.(CR) and BPL Divn. (WCR) live in the railway quarters/colony at KNW. Hence it becomes necessary for CR to look after the cleanliness in the railway premises.

3.8.2 Jurisdiction of CHI-KNW is major railway colony at KNW.

Section is from Khandwa to Asirgarh Road Station.

3.8.3 Scale Check of the safaiwala staff working under CHI-KNW.

Sr.No	Category	S/S	MOR	Vac.
01	Muccadam	02	--	02
03	Safaiwala	26	24	02
Total		28	24	04

3.8.4 Area covered by Safaiwalas

Following table shows the areas where the safaiwalas are deployed in KNW.

1	Rajdhani Colony	6	08 Kholi Colony	11	Filter House Ghaspura
2	Tagor Colony	7	Chidiya Maidan Colony	12	Double Story Ghaspura
3	Surajkund Colony	8	WCR Colony	13	Gang Chal Ghaspura
4	Teen Puliya Colony	9	Police Line Ghaspura	14	K-52 Chal Ghaspura
5	Rly Hospital Colony	10	Gang Chal (ADEN House)		

3.9 Bhusawal

3.9.1 As it is division place it has the largest number of railway quarters. For this purpose a large number of safaiwalas are engaged in the safai of the railway colonies/premises.

3.9.2 Jurisdiction of CHI-BSL is all the railway colony and premises at BSL.

As the railway colonies are large in Bhusawal, for this total 05 CHIs are deployed.

Sections of CHIs

- 1) CHI no: 01= BSL to PC (PC-JMNR).
- 2) CHI no: 02=BSL to SEG
- 3) CHI no: 03= BSL to BAU

3.9.3 Scale Check of the safaiwala staff working under CHI-BSL.

Sr.No	Category	S/S	MOR	Vacc
01	Safaiwala	205	149	56
02	Malaria Khalasi	19	14	05
Total		224	160	61

3.9.4 Details of distribution of the staff

Sr.No	Area	No. of Safaiwalas
01	15 Block, Guard line	28
02	40 Block, Loco, Aagwali Chawl, Chandmari Chawl area	27
03	ZRTI area	08
04	Central zone, Haddiwali Chawl, Bhimwadi Chawl.	52
05	North Colony, Kandari area	26
06	Trucks	08
Total		149

3.10 CHI in BSL Division

3.10.1 Following table gives a brief idea about the position of CHI/HI in BSL Division.

Sr.No	Category	Pay-Band + Grade Pay	S/S	MOR	Vac
01	Health Inspector	9300-34800+4200	09	11	+02*
02	Chief Health Inspector	9300-34800+4600	19	17	-02
Total			28	28	00

* 02 HIs are due for promotion in GP 4600.

3.10.2 Depot wise distribution of the CHI/HI all over BSL Division.

SR.NO.	STATION	STN/COLONY	STRENGTH
01	BSL	COLONY	05 CHI
		STN	02 HI, 01 CHI
02	NK	STN	01 HI
		COLONY	01 CHI
03	MMR	STN	02 HI
		COLONY	01 CHI
04	NGN	COLONY	01 CHI
05	CSN	STN	01 HI
06	PC	STN	01 HI
07	JL	STN	01 CHI
08	MKU	STN	01 HI
		COLONY	Mobile Gang from BSL.
09	SEG	STN	01 HI
		COLONY	Under CHI BSL.
10	AK	STN	01 CHI
		COLONY	Under CHI of SCR
11	MZR	COLONY	01 CHI
12	BD	STN	01 HI
		COLONY	01 CHI
13	BAU	STN	01 HI
		COLONY	Mobile Gang from BSL.
14	KNW	STN	01 HI
		COLONY	02 CHI

- 1) Beside this, one CHI is the in charge of the two trucks movement. These trucks are used for the disposal of the garbage.
- 2) One CHI overall in-charge of the BSL depot. Also he is the Overall in-charge of the Malaria Khalasies of the BSL depot. His duty is to look after the anti-malarial insecticides and fly killer sprays in all the railway premises of the Bhusawal. He also sends his gang periodically in the BSL-BAU, BSL-SEG, BSL-PC sections.
- 3) One HI overall in charge of the store. Also he looks after Gangotri (RPF Colony), Loco Road, Chandmari Chawl & Aagwali Chawl.
- 4) One HI is the in-charge of the North Colony, Kandari area, B & C Road of the 40 Block.
- 5) One CHI is responsible for 15 block, Guard line safai work. He also visit MKU railway colony

3.10.6 Trucks under CHI-BSL

Under CHI-BSL, there are two trucks for disposal of garbage of all railway colonies and premises. Total 08 safaiwala staff is deployed on trucks for collection and disposal of the garbage only. Both these trucks are halted in a shed near the Loco Pilot & Guard Running Room, BSL. Motor driver of these two trucks are under CMS-BSL. The two trucks are of LMV type (One is of Mahindra Nissan and another of DCM Toyota). They have completed 23 years of service. The codal life of vehicles is specified as 10 years.

At BSL for disposal of the garbage trenching ground is available at near Chandmari chawl.

For the disposal of the garbage, imprest is used at NKRD, MMR, NGN, BD & KNW.

3.11 Divisional Central Railway Hospital. Bhusawal.

3.11.1 Divisional Hospital at Bhusawal is one of the largest hospitals in Central Railway and Bhusawal city. The hospital has a total strength of 225 beds.

3.11.2 ANO (Assistant Nursing Officer, PB Rs 9300-34800+5400) is the in charge of the all Safaiwalas working in the Railway Hospital BSL.

3.11.3 Ward wise number of beds is given below:-

Sr.No	Ward No.	Ward Name	No. of Beds
1	Ward No.01	Male Medical Ward	67
2	Ward No.02	Male Surgical Ward	43
3	Ward No.03	Children ward	16
4	Ward No.04	Female Medical Ward	36
5	Ward No.05	Maternity Ward	20
6	Ward No.06	ICCU	14
7	Ward No.07	Female Surgical Ward	27
8	-----	OPD	02
Total			225

3.11.4 Jurisdiction:-

The working area of the Safaiwalas at the Divisional Hospital is limited upto the premises of the hospital only.

3.11.5 Scale Check of safaiwala at C.RLY Hospital BSL.

Sr.No	Designation	Pay band + GP	S/S	MOR	Vac
01	Hospital safaiwala	5200-20200+1800	48	48	00
02	Muccadam	5200-20200+1800,1900	04	03	01
Total			52	51	01

3.11.6 Staff Utilization of safaiwala at C.RLY Hospital BSL.

Sr.No	WARD / LOCATION	SHIFT			TOTAL
		Morning	Evening	Night	
01	WN-1-Male Medical Ward	02	01	01	04
02	WN-2-Male Surgical Ward	01	01	01	03
03	WN-3-Children Ward	01	01	01	03
04	WN-4- Female Medical Ward	01	01	01	03
05	WN-5-Maternity Ward	01	01	01	03
06	WN-6-ICCU	01	01	01	03
07	WN-7- Female Surgical Ward	01	01	01	03
08	Case paper section+F.W+Doctors chamber	02	--	--	02
09	Doctors chamber + Store	02	--	--	02
10	Operation Theatre	01	--	--	01
11	Laboratory	01	--	--	01
12	X-Ray & CMS galli	01	--	--	01
13	Casualty	01	01	01	03
14	Kitchen	01	--	--	01
15	Hospital surrounding & sewage cleaning	03	--	--	03
16	Collection & disposal of hospital garbage+Dormitory+Mortury	02	--	--	02
TOTAL					38
RG + LR					13
TOTAL STRENGTH					51

3.12 Hospital Safaiwalas deployed at various Health Units/Dispensary in the BSL Divn.

Beside Divisional Hospital at Bhusawal, Sub-divisional hospital at MMR and other health units/ dispensaries are opened and run by BSL division for the health care of the railway employees and their families. There are in all 10 health units/dispensary. In these Health Units/Dispensary safaiwalas are employed for the cleanliness purpose. Following table shows the existing scenario of the medical safaiwalas in the various health units/dispensary:-

Sr.No	Medical Officer	Station	S/S	MOR	VAC	Under	In case of leave of safaiwala
01	Sr.DMO	TMW-NKRD	01	01	--	Sr.DMO	Safaiwala is sent by CHI.(Local adjustment.)
02	ADMO	NKRD	01	01	--	ADMO	-----do-----
03	Sr.DMO	MMR	04	03	01	Sr.DMO	-----do-----
04	ADMO	NGN	01	01	--	ADMO	-----do-----
05	ADMO	CSN	01	00	01	ADMO	-----do-----
06	Sr.DMO-ZRTI	ZRTI-BSL	01	01	--	Sr.DMO	-----do-----
07	ADMO	SEG	01	01	00	ADMO	-----do-----
08	ADMO	BD	01	01	00	ADMO	-----do-----
09	ADMO	MZR	01	01	00	ADMO	-----do-----
10	ADMO	KNW	01	01	00	ADMO	-----do-----

MMR Sub-Divisional Hospital is open for 24 hours. Here facility to admit the patient is available. There are in all 10 beds. In male ward there is one bathroom and two toilets similarly in the female ward there are two bathrooms and two toilets. There are in all 03 shifts in the hospital. Minimum 01 safaiwala is required in 01 shift. So in 24 hrs i.e 03 shifts 03 safaiwalas and 01 as a Leave Reserve i.e total 04 safaiwalas is the minimum requirement of the hospital.

No health unit other than MMR is open for 24 hrs i.e it is open for general shift only. So, having one safaiwala is considered as need based requirement of the health unit. Also in case of leave of the safaiwala local adjustment is done by the CHI.

CHAPTER NO. 04 CRITICAL ANALYSIS

4.1 For conducting the work study, yard stick for the safaiwalas was collected. The yardstick is given below:-

YARDSTICK FOR THE SAFAIWALAS

I) For Railway quarters (in 04 hrs)

Sr. No	Type of Quarters	Block of Single unit	Block of two unit	Block of four unit or more	No. of Safaiwalas
1	A, B, RB-V	03	--	--	01
2	C, E, RB-IVA	05	08	--	01
3	D, F, RB-IV	06	10	12	01
4	RB-III, MC	10	12	16	01
5	G,H,J, RB-II, MB,MA	24	28	30	01
6	MAP, RB-I,RBI (Modified)	26	30	36	01

II) For Roads (in 04 hrs)

- i) Main road (busy) = 40,000 sq.ft for 01 safaiwala.
- ii) Other road (non-busy) = 60,000 sq.ft for 01 safaiwala.

III) Drains (in 04 hrs)

- i) Up to 9" bottom = 3000 ft for 01 safaiwala.
- ii) More than 9" bottom = 1500 ft for 01 safaiwala.

4.2 Yard stick for Conservancy safaiwalas was introduced in the year 1964. After this, no any modification or changes have been made in the same. This work study is being conducted in the year 2018. For job analysis of the safaiwalas this yardstick was considered as a base. Earlier it was thought that this yardstick will not be applicable in year 2018 but after conducting a real job analysis of the safai work for roads, drainage and railway quarters at various sites by the work study team in the presence of the CHI & HI it was found that after 54 years the yardstick for the safaiwalas is almost same and can be applied for the calculation of man power as it gives all types of relaxations to the safaiwalas. So in view of the above, it will be justified if the man power requirement is made or calculated considering the same yardstick as a base.

Depot wise calculation of man power as per the work load and yardstick is as follows :-

4.3 NASIK ROAD

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	152	36	152/36	4.22
02	RB-II	43	28	43/28	1.54
03	RB-III	10	12	10/12	0.83
04	RB-IV	01	06	01/06	0.17
05	M	08	30	08/30	0.27
Total					7.03

Total 7.03 staff required for the cleanliness of the 214 railway quarters in 04 hrs.

ii) For roads

Total area of roads =110416 sq.ft

Taking average of yardstick for busy and non busy roads as in today's date, almost in every railway quarter there is a motor cycle and the concerning IOWs are not able to decide whether the roads are busy or non-busy. So in that case a average of busy and non busy roads is taken for better calculation also the criteria for busy and non busy road is not applied in the railway colonies so it is calculated as $(40000+60000)/2=50000$.

Calculation for man power = $110416/50000=2.2$

iii) For drainage

Total length of drain = 3163 ft.

Taking average of yardstick for drains i.e up to 9" bottom and more than 9" bottom as it is not easy to calculate each drains length bottom wise and what will be the condition of the drain in future it is hard to estimate. So in this case also taking average/mean value is better i.e $(1500+3000)/2=2250$.

Calculation for man power = $3163/2250=1.40$

iv) Man power for railway quarters, roads and drains:

$$7.03+2.2+1.40=10.63$$

The calculation of the man power is done for 04 hrs only. These staff will clean the railway quarters, drains and roads of railway colony premises in the first half of

their duty hours. In the second half after the lunch time they will perform dalel work. In that they will attend all the complaints regarding cleanliness like cleaning of the open spaces in the railway colony, cleaning of the septic tanks, aqua chambers, choke up of the drains, complaints regarding dead animals, cleaning of the waste materials thrown after completion of engg. works and disposal of the collected garbage in the trunching ground etc.

Leave Reserve for $10.63 @ 12.5 \% = 1.32$

Hence total man power = $10.63 + 1.32 = 12$

v) Sanction strength at NKRD

	S/S	MOR	VAC
Safaiwala	07	07	00
	07	07	00

Recommendation:

No recommendation.

4.4 DEVLALI

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	17	36	17/36	0.47
02	RB-II	16	28	16/28	0.57
03	RB-III	01	10	01/10	0.10
04	E	01	05	01/05	0.20
05	M,MA	16	30	16/30	0.53
07	MAP	08	36	08/36	0.22
Total					2.09

Total 2.09 staff required for the cleanliness of the 59 railway quarters in 04 hrs.

ii) For roads

Total area of roads =60095 sq.ft

Calculation for man power =60095/50000=1.2

iii) For drainage

Total length of drain = 3512 ft.

Calculation for man power = 3512/2250=1.56

iv) Man power for railway quarters, roads and drains

$$2.09+1.2+1.56=4.8$$

Leave Reserve for 4.8@ 12.5 % = 0.6

Hence total man power =4.8+0.6=5.4=06

v) Sanction strength at DVL

	S/S	MOR	VAC
Safaiwala	06	02	04
Total	06	02	04

Recommendation

04 vacant posts to be filled up immediately.

4.5 TMW-NASIK ROAD

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	46	36	46/36	1.28
02	RB-II	113	30	113/30	3.7
03	RB-III	44	16	44/16	2.75
04	RB-IV	06	06	06/06	01
05	RB-V	01	03	01/03	0.33
Total					9.06

Total 6.88 staff required for the cleanliness of the 214 railway quarters in 04 hrs.

ii) For roads

Total area of roads =161635 sq.ft

Calculation for man power =161635/50000=3.23

iii) For drainage

Total length of drain = 667 ft.

Calculation for man power = 667/2250=0.29

iv) Man power for railway quarters, roads and drains

9.06+3.23+0.29=12.58

Leave Reserve for 12.58 @ 12.5 % = 1.5

Hence total man power =12.58+1.5=14.08=14

v) Sanction strength at TMW-NKRD

	S/S	MOR	VAC
Safaiwala	06	03	03
Total	06	03	03

Recommendation

Immediate action should be taken to fill up 03 vacancies.

4.6 MANMAD (MMR)

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	A	03	03	03/03	1.0
02	C	07	08	07/08	0.87
03	D	23	12	23/12	1.91
04	E	03	08	03/08	0.37
05	F	05	12	05/12	0.41
06	G	23	30	23/30	0.76
07	H	20	30	20/30	0.66
08	J	01	30	01/30	0.03
09	K	82	36	82/36	2.27
10	MA	11	36	11/36	0.30

11	MAP	08	36	08/36	0.22
12	MB	02	30	02/30	0.06
13	M	29	36	29/36	0.80
14	S	04	30	04/30	0.13
15	TY	26	36	26/36	0.72
16	RB-I	542	36	542/36	15.05
17	RB-II	161	30	161/30	5.36
18	RB-III	56	16	56/16	3.5
19	RB-IV	13	12	13/12	1.08
20	RB-V	01	03	01/03	0.33
Total					36.28

Total 36.28 staff required for the cleanliness of the 173 railway quarters in 04 hrs.

ii) For roads

Total area of roads =426394 sq.ft

Calculation for man power =426394/50000=8.52

iii) For drainage

Total length of drain =43922 ft.

Calculation for man power =43922 /2250=19.52

iv) Man power for railway quarters, roads and drains

$$36.28+8.52+19.52=64.32$$

Leave Reserve for 64.32 @ 12.5 % = 8.04

Hence total man power =64.32+8.04=72.36=73

v) Sanction strength at MMR

	S/S	MOR	VAC
Safaiwala	61	49	12
	61	49	12

Recommendation

Immediate action should be taken to fill up 12 vacancies.

4.7 NANDGAON

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	70	36	70/36	1.94
02	RB-II	41	28	41/28	1.46
03	RB-III	01	10	01/10	0.1
04	G	01	24	01/24	0.04
05	K	60	36	60/36	1.67
06	H	08	30	08/30	0.26

07	D	49	12	49/12	4.08
08	J	67	28	67/28	2.39
09	F	02	10	02/10	0.2
10	C	03	08	03/08	0.37
11	M	15	30	15/30	0.50
12	UG	04	30	04/30	0.13
Total					13.14

Total 13.14 staff required for the cleanliness of the 321 railway quarters in 04 hrs.

ii) For roads

Total area of roads =7500 sq.m=80055 sq.ft

Calculation for man power =80055/50000=1.6.

iii) For drainage

Total length of drain = 4800m=15745 ft.

Calculation for man power = 15745/2250=6.99

iv) Man power for railway quarters, roads and drains

$$13.14+1.6+6.99=21.73$$

Leave Reserve for 21.73 @ 12.5 % = 2.71

Hence total man power = 21.73+2.71=24.44 i.e. 25.

v) Sanction strength at NGN

	S/S	MOR	VAC
Safaiwala	24	20	04
	24	20	04

Recommendation

04 vacancies to be filled up immediately..

4.8 SHEGAON

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	34	36	34/36	1.05
02	RB-II	17	28	17/28	0.60
03	RB-III	07	12	07/12	0.58
04	RB-IV	01	10	01/10	0.1
05	D	11	10	11/10	1.1
06	F	01	10	01/10	0.1
07	G	03	24	03/24	0.125
08	H	02	28	02/28	0.07
09	J	09	28	09/28	0.32
10	K	72	36	72/36	2.0
11	MB	02	28	02/28	0.07
12	MAP	10	30	10/30	0.33
13	M	01	30	01/30	0.03
14	TY	03	30	03/30	0.1
Total					6.5

Total 6.5 staff required for the cleanliness of the 173 railway quarters in 04 hrs.

ii) For roads

Total area of roads =84605 sq.ft

Calculation for man power =84605/50000=1.69

iii) For drainage

Total length of drain = 4657 ft.

Calculation for man power = 4657/2250=2.07

iv) Man power for railway quarters, roads and drains

$$6.5+1.69+2.07=10.26$$

Leave Reserve for 10.26 @ 12.5 % = 1.28

Hence total man power =10.26+1.28=11.54=12

v) Sanction strength at SEG

	S/S	MOR	VAC
Safaiwala	08	08	00
Total	08	08	00

Recommendation

No recommendation.

4.9 MURTIZAPUR

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	100	36	100/36	2.77
02	RB-II	63	28	63/28	2.25
03	RB-III	02	12	02/12	0.16
04	D	04	10	04/10	0.4
05	F	01	06	01/06	0.16
06	G	01	24	01/24	0.04
07	H	04	28	04/28	0.14
08	J	21	28	21/28	0.75
09	M	08	30	08/30	0.26
10	MAP	28	30	28/30	0.93
11	K	52	36	52/36	1.44
Total					9.3

Total 9.3 staff required for the cleanliness of the 284 railway quarters in 04 hrs.

ii) For roads

Total area of roads =8073 sq.ft

Calculation for man power =8073 /50000=0.16

iii) For drainage

Total length of drain = 1970 ft.

Calculation for man power = 1970/2250=0.87

iv) Man power for railway quarters, roads and drains

$$9.3+0.16+0.87=10.33$$

Leave Reserve for 10.33 @ 12.5 % = 1.29

Hence total man power =10.33+1.29=11.62=12

v) Sanction strength at MZR

	S/S	MOR	VAC
Safaiwala	12	12	00
	12	12	00

Recommendation

No recommendation.

4.10 Badnera

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	89	36	89/36	2.47
02	RB-II	118	30	118/30	3.93
03	RB-III	09	16	09/16	0.56
04	RB-IV	02	10	02/10	0.2
05	D	06	12	06/12	0.50
06	MAP	03	36	03/36	0.08
07	MC	02	30	02/30	0.06
08	UC	06	30	06/30	0.2
09	F	01	06	01/06	0.16
10	G	12	30	12/30	0.4
11	TYFD	03	30	03/36	0.08
Total					8.64

Total 8.64 staff required for the cleanliness of the 261 railway quarters in 04 hrs.

ii) For roads

Total area of roads =109812 sq.ft

Calculation for man power =109812/50000=2.19

iii) For drainage

Total length of drain = 6375 ft.

Calculation for man power = 6375/2250=2.83

iv) Man power for railway quarters, roads and drains

$$8.64+2.19+2.83=13.66$$

Leave Reserve for 13.38 @ 12.5 % = 1.70

Hence total man power = 13.66+1.70=15.36=15

v) Sanction strength at BD

	S/S	MOR	VAC
Safaiwala	20	19	01
	20	19	01

Recommendation no.01

05 posts of safaiwalas are identified surplus and need to be surrender.

4.11 KHANDWA

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	B	01	03	01/03	0.33
02	D	07	10	07/10	0.7
03	E	03	08	03/08	0.37
04	F	05	10	05/10	0.5
05	G	08	28	08/28	0.28
06	H	05	28	05/28	0.17
07	J	04	28	04/28	0.14
08	K	119	36	119/39	3.30
09	M	29	30	29/30	0.96
10	TY	04	36	04/36	0.11
11	RB-I	163	36	163/36	4.52
12	RB-II	81	30	81/30	2.7
13	RB-III	25	16	25/16	1.56
14	RB-IV	10	08	10/08	1.25
15	S	01	30	01/30	0.03
Total					16.92

Total 16.92 staff required for the cleanliness of the 550 railway quarters in 04 hrs.

ii) For roads

Total area of roads =132105 sq.ft

Calculation for man power =132105/50000=2.6

iii) For drainage

Total length of drain = 37164 ft.

Calculation for man power = $36,539/2250=16.51$

iv) Man power for railway quarters, roads and drains

$$16.92+2.6+16.51=36.03$$

Leave Reserve for 35.48 @ 12.5 % = 4.4

Hence total man power $35.4+4.4=39.8$ i.e. 40

v) Sanction strength at KNW

	S/S	MOR	VAC
Safaiwala	28	24	04
Total	28	24	04

Recommendation

04 vacancies to be filled up immediately.

4.12 BHUSAWAL

Area	15 Block	Central Zone	Loco	40 Block	Kandari	ZRTI	Total
Type							
RB-I	201	15	449	203	190	127	1185
RB-II	212	28	21	248	214	53	776
RB-III	08	31	07	25	31	20	134
RB-IV	--	69	--	15	04	06	98
RB-V	--	15	--	--	--	01	13
A	--	04	--	--	--	--	04
B	--	11	--	10	--	--	21
C	01	05	--	28	--	--	35
D	70	72	04	54	--	--	210
E	--	02	--	--	--	--	02
F	04	09	--	--	--	--	13
G	07	07	06	--	--	01	21
H	10	15	--	--	--	02	28
J	01	--	--	--	--	--	01
K	12	41	--	--	--	--	58
MA	11	--	12	25	--	--	94
MAP	150	--	--	13	--	02	165
MB	36	05	--	07	--	--	43
MC	04	06	--	--	--	--	10
TY	--	14	--	--	--	08	19
UC	06	--	--	--	--	--	06

i) For Railway Quarters

Sr,No	Type of Rly.Qtr	No. of Rly.Qtrs	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
01	RB-I	1185	36	1185/36	32.91
02	RB-II	776	30	776/30	25.86
03	RB-III	134	16	134/16	8.12
04	RB-IV	98	12	98/12	8.37
05	RB-V	13	03	13/03	4.33
06	A	04	03	04/03	1.33
07	B	21	03	21/03	07
08	C	35	08	35/08	4.37
09	D	210	12	210/12	17.58
10	E	02	08	02/08	0.25
11	F	13	12	13/12	1.08
12	G	21	30	21/30	0.76
13	H	28	30	28/30	0.93
14	J	01	30	01/30	0.03
15	K	58	36	58/36	1.61
16	MA	94	36	94/36	2.61
17	MAP	165	36	165/36	4.58
18	MB	43	30	43/30	1.43
19	MC	10	30	10/30	0.33
20	TY	19	36	19/36	0.52
21	UC	06	36	06/36	0.16
Total					124.16

Total 124.16 staff required for the cleanliness of the railway quarters in 04 hrs.

ii) For roads

As per data provided by the SSEs at BSL total area of the road is as follows:

Sr.No	Area	Road area
01	15 Bolck	376740
02	Central Zone	427115
03	Loco	285515
04	40 Block	302037
05	Kandari	150782
06	ZRTI	312156
Total		1854345

Total area of roads =1854345 sq.ft

Calculation for man power = $1854345/50000=37$

iii) For drainage

As per data provided by the SSEs at BSL total length of drains is as follows:

Sr.No	Area	Length of drain
01	15 Block	10774
02	Central Zone	29684
03	Loco	27820
04	40 Block	41636
05	Kandari	11191
06	ZRTI	3280
Total		124385

Total length of drain = 124385 ft.

Calculation for man power = $124385/2250=55.28$

iv) Man power for railway quarters, roads and drains

$$124.16+37+55.28=216.44=216$$

Leave Reserve for 216 @ 12.5 % = 27

Hence total man power: $216+27=243$

Sanction strength at BSL

	S/S	MOR	VAC
Safaiwala	205	149	56

Recommendation no.02

The trucks used for the disposal of garbage have completed its codal life (10 years). The condition of the trucks is very miserable. For this, new trucks are needed. At present only one truck is in service. Also 08 safaiwalas, 01 motor driver and 01 motor cleaner are employed in this work.

The work study team discussed with the CHIs and is in the view that if the complete work of disposal of garbage is given on contract there will be a great savings in the expenditure. The two trucks of railways will be condemned.

Hence it is proposed to outsource the activity of disposal of garbage (collection and disposal). After the implementation of contract, this 08 safaiwala staff, 01 motor driver and 01 motor cleaner will be surplus. After the successful implementation of the contract it is recommended to surrender 10 posts (08 safaiwalas, 01 motor driver and 01 motor cleaner)

Recommendation no.03

The central zone railway colony area of Bhusawal is very important as there are railway quarters/bungalows of DRM, ADRM, CWM and other BOs. Also the railway quarters of other officers and senior supervisors are located in this central zone area.

The medically decategorised staff and new appointments (CG) are posted in the safaiwala cadre. Due to this, the staff is not able to do their duty (cleaning work) more efficiently. Due to these reasons, it is observed that the cleanliness of this area is not maintained satisfactorily.

At present, 51 safaiwala staff is working in the central zone area. In this case also it is proposed to give the cleanliness work of this central zone area on contract.

The man power requirement for the central zone area is calculated as under:

i) For Railway quarters:

Area	Central Zone	Scale of safaiwala from Yardstick	Measurement as per Yardstick	Requirement of the staff
RB-I	15	36	15/36	0.41
RB-II	28	30	28/30	0.93
RB-III	31	16	31/16	1.93
RB-IV	69	12	69/12	5.75
RB-V	15	03	15/03	05
A	04	03	04/03	1.33
B	11	03	11/03	3.66
C	05	08	05/08	0.62
D	72	12	72/12	06.0
E	02	08	02/08	0.25
F	09	12	9/12	0.75
G	07	30	07/30	0.23
H	15	30	15/30	0.50
J	--	-	--	--
K	41	36	41/36	1.13
MA	--	--	--	--
MAP	--	--	--	--
MB	05	30	05/30	0.16
MC	06	30	06/30	0.20
TY	14	36	14/36	0.38

UC	--	--	--	--
Total				29.23

ii) For road:

Total area of road in central zone is 1025670.10 sq.ft

Total man power requirement for road: $1025670.10/50000=20.5$

iii) For drains:

Total length of drain in central zone is 39370 ft

Total man power requirement for drain: $39370/2250=17.5$

Now, total man power required for the cleanliness of the central zone area is

$29.23+20.5+17.5=67.23=67$ workers.

The central zone area comprises of major 03 wards (Ward No. 05, 06 & 07). So for supervision work, like a Muccadum at least 01 supervisor is required in each ward.

So, 03 supervisors are required for the supervision work. These supervisors will monitor the contract safaiwalas and the cleaning work.

Hence, the requirement is 67 (Safaiwalas)+ 03 (Supervisors)= 70 workers.

After successful execution of this contract work, the 70 posts of safaiwalas can be surrendered against out sourcing.

4.13 Calculation of Man Power at the Divisional Hospital Bhusawal.

Yard stick for the safaiwalas working in the hospitals was issued by CMD (Chief Medical Officer) in the June 1998. After this, no any corrections have been made. So considering it as a base, calculation for the hospital at Bhusawal is done as follows:-

Sr.No.	Criteria as per yardstick	Requirement	No. of shifts	Total requirement	Remarks
01	01 for every 05 beds in medium care ward.	219 beds in 06 wards. So $219/5=43.8=44$	03	$44*3=132$	
02	01 for every 02 beds in ICU	06 beds in ICU .So $06/02= 03$	03	$03*03=09$	
03	01 for every 06 beds in Orthopadic ward	17 beds. So $17/06=03$	03	$03*03=09$	
04	01 for every 08 beds in TB, Geriatric and Surgical convalescent wards	08 beds. So 01 only	03	$01*03=03$	
05	01 per shift in labour room	01	03	$01*03=03$	
06	01 for every 08 consulting rooms	$25/08=3.12$	01	$3.12*1=3$	
07	Casualty Department	Total =02, 01 in afternoon, 01 in night	02	02	During morning OPD safaiwala will be utilised.
08	Ciculating area. 01 for every 2000 sq.m of roads etc	10000 sq.m area.	$10000/2000=05$	05	
09	01 per OT	01 OT. So 01	03	$01*03=03$	

10	For Laboratories	2/3 for beds 75-200. So 03	03	03*01=03	
11	X-Ray department	01 for 100 bedded hospital. So 01	01	01*01=01	
12	Physiotherapy	01 for department	01	01*01=01	
Total				174	

Recommendation

No recommendation.

After successful execution of the two contract works 80 posts (78 safaiwala+01 motor Driver+01 Motor Cleaner) will be surplus and the recurring saving will be Rs. 3,96,64,920 per annum.