### **EASTERN RAILWAY**

#### **WORK STUDY REPORT**

ON

# REVIEW OF WORKLOAD OF SAFAIWALA AT HWH COLONY UNDER MEDICAL DEPARTMENT

(STUDY NO.WSER-01/18-19) (Submitted on 08.05.2018)

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BY CENTRAL PLANNING ORGANISATION GM'S EFFICIENCY CELL EASTERN RAILWAY KOLKATA

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#### **CKNOWLEDGEMENT**

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#### **TERMS OF REFERENCE**

The subject workstudy has been undertaken by the GM's Efficiency Cell of Eastern Railway under the following terms of reference:-

- (i) Evaluate the quantum of work.
- (ii) Examine the deployment of Safaiwala against workload.
- (iii) Assessment of actual requirement of Safaiwalas in consideration with the Yardstick of sanitation staff under Medical Department vide CMO/E.Rly's letter No. MD. 248/0 dated 12.4.79.
- (iv) Assessment for requirement of safaiwalas is done separately for different colonies keeping in view the present system of working.

#### SUMMARY OF RECOMMENDATION

SI. No.	Recommendation	Para ref.
1	It is recommended that the actual total requirement of manpower to carry out the entire workload of the unit under CHI/HWH Colony catered departmentally will be 81 posts which would result in surrender of 21 nos. of vacant posts as against the present total sanctioned strength of 102 posts.	3.7

### **EXECUTIVE SUMMARY**

Study Name & No.:	REVIEW OF WORKLOAD OF SAFAIWALA AT HOWRAH COLONY UNDER MEDICAL DEPARTMENT  (Study No.WSER- 01/18-19)		
Year of conducting the study:	2018 – 19		
Terms of reference:	<ul> <li>(i) Evaluate the quantum of existing workload.</li> <li>(ii) Examine the deployment of Safaiwala against workload.</li> <li>(iii) Assessment of actual requirement of Safaiwalas.</li> <li>(iv) Assessment for requirement of safaiwalas is done separately for different colonies keeping in view the present system of working.</li> </ul>		
Methodology:	<ul> <li>Collection of data</li> <li>Discussion with officers and CHI/ HWH Colony.</li> <li>Study of existing workload and manpower.</li> <li>Critical analysis of existing workload and assess actual requirement of manpower.</li> </ul>		
Existing Sanctioned Strength	102		
Existing Men on Roll	82		
Vacant post	20		
Proposed Surrender	21		

#### **Justification**

Based on assessment as per Yardstick of Sanitation Staff for cleaning activities, study team assesses the actual requirement of Safaiwalas to cater existing workload.

#### **CHAPTER-I**

#### 1.0 **INTRODUCTION:**

- 1.1 **Indian Railways** is an Indian state owned enterprise, owned and operated by the Government of India through the Ministry of Railways. It is one of the world's largest railway networks comprising 115,000 km (71,000 mi) of track over a route of 65,000 km (40,000 mi) and 7,500 stations. Indian Railways is the world's ninth largest commercial or utility employer, by number of employees, with over 1.33 million employees. Indian Railway is not a mere operation. It is an institution. It is an industry. It is a prime mover of India's infrastructure. As of December 2012, it transported over 25 million passengers daily (over 9 billion on an annual basis).
- 1.2 Railways are the most preferred mode of transport for the masses in India, running 11,000 trains every day in which 7000 are passenger trains and handling approximately 1.4 crore passengers per day. One of the commitments of the Railways in its 'Citizen Charter on Passenger Services on Indian Railways' is to provide safe and dependable train services to the passengers and ensure adequate passenger amenities in trains and at Railway station, which includes provision of clean and hygienic surroundings both at Railway stations and in trains.
- 1.3 Sanitation means maintaining a clean environment so that the beneficiaries stay in neat and hygienic environment. Railway Stations, colonies and all work places are to be maintained in a hygienic and clean manner and adequate steps is to be taken at the planning stage itself. Keeping this objective in view, special emphasis is laid on the collection and disposal of refuse, sewage and sullage in a scientific manner. Sanitation services are provided in all the Railway premises including the Railway colonies, Railway stations, circulating areas, Railway Yards, offices, coaches and tracks. Cleanliness of these areas is multidisciplinary approach by various departments of the Railways viz. Medical, Engineering, Operating and Mechanical Department. The Medical Department performs the Sanitation job at Railway colonies and major stations under the supervision of Health Inspectors.
- 1.4 Cleanliness in Railway colonies includes maintaining cleanliness in circulating area of the colonies, roads, colony drains, common latrines/ urinals and sewer inside the colony premises in addition to a proper waste management system. Railway colonies are maintained either departmentally through safaiwalas or through outsourced agencies. Effective manpower management and contract management are therefore, essential. Apart from this, the Railways should have an effective monitoring mechanism in place to ensure quality in cleanliness related activities. Inadequate provision of water supply, washable aprons, drains and sewerage system and ineffective utilization of machines were major handicaps in providing a clean and hygienic environment in Railway premises.

1.5 Indian Railway is facing tremendous financial crunch after implementation of 6th Pay Commission. Operating ratio is gradually increasing. Though Indian Railway is not a business organization but to survive, it is always essential to make the organization in profit i.e. operating ratio should be less than 1. Performance Efficiency Index shown in the corporate plan published by the Eastern Railway is given below.

2013-14 : 173.32%

2014-15 : 177.27%

2015-16 : 180.75%

2016-17 : 165.25%

2017-18 : 178.76% (Proposed)

- The subject workstudy has been undertaken to review the quality of sanitary services at HWH colony premises under the Medical department keeping in view the financial achievement. This is possible only by maximum utilization of workforce with mechanical devices for cleaning operations. Study team considers the maximum participation of foreign agencies in cleaning process in colonies.
- 1.7 There exists 5 Railway colonies at Howrah. The Chief Health Inspector is nominated for the keeping the railway colonies and surroundings neat and clean.
- 1.8 The subject workstudy was undertaken to review the existing deployment of Safaiwalas vis-à-vis their workload as a regular manner, it is essential to assess the optimum utilization of Safaiwalas to cater the daily workload. The subject study is also undertaken to review consequent upon the outsourcing of sanitation services in colonies by which the quality of cleaning has increased drastically along with remarkable financial savings. Keeping the above ideas into consideration, the study team has given their concentration on the existing pattern of working and existing deployment of Safaiwalas according to their work point.

#### **CHAPTER-II**

#### 2.0 **EXISTING SCENARIO:**

2.1 In Eastern India the first ever train ran from Howrah to Hooghly in 15<sup>th</sup> August 1857. Howrah station is a major and most important station of the Eastern Railway and provides connectivity of Kolkata with rest of India. Divisional headquarter of Howrah division is situated adjacent to Howrah station. Along with this, other Railway establishments situated surrounding to Howrah station are EMU car shed, TRS shed, Diesel shed and a large Coaching depot. These offices and units are responsible for maintenance and supply of locos, EMUs, coaches for smooth running of trains from Howrah station.

For availability of manpower for proper running of these units and divisional offices, 5 Railway Colonies were established at the surroundings adjacent to the Howrah station. These colonies are as under:

- i) Colvin Court colony,
- ii) Golmohar Colony,
- iii) Tindel Bagan Colony,
- iv) Height Mansion Colony and
- v) Telkalghat Colony.
- 2.2 But with the time and development of the sub-urban areas, the Railway colonies of Howrah lost its importance. Mainly after implementation of 6<sup>th</sup> pay commission, Railway staff find more financially beneficial to stay at sub-urban areas rather than at Railway Quarters. Moreover, most of the Rly. Quarters at HWH colonies are years old and are of very poor condition. Because of these reasons a considerable nos. of Rly. Quarters. at Howrah colonies are lying vacant.
- 2.3 The sanitation work of the Howrah Rly. Colonies are maintained by Medical dept. of HWH division under direct control of ACMS (H & FW)/ HWH and overall control of CMS/ HWH. In colony area, road sweeping, drain cleaning, garbage removing and sweeping of quarter surroundings are designated job of safaiwalas under supervision of Chief Health Inspector (CHI)/ HWH Colony.
- 2.4 It is necessary to maintain the colony surroundings neat and clean round the clock and CHI /HWH Colony is the over all In-charge of all sanitation and cleaning activities of HWH colonies. Total 1 post of CHI is deployed for catering the existing workload. On-Roll and Sanctioned Position of CHI at HWH Colony is tabulated as under:

S.		Pay Scale & Pay Band (As per 6 <sup>th</sup> PC)		Staff Strength		
No.	Designation			Sanctioned Strength	On- Roll	Vacancy
1	Chief Health Inspector (CHI)	Rs. 9300-34800/-	GP-4600/-	1	1	0
		Total		1	1	0

2.5 The present Sanctioned Strength and On-roll position of safaiwalas under CHI/HWH Colony deputed for catering the workload of cleaning activities at Howrah Colony area are given in table below:

S.		Pay Scale & Pay B	Bill Unit	Staff Strength		
No.	Designation	Band	No.	Sanctioned Strength	On- Roll	Vacancy
1	Safaiwala	Rs. 5200-20200/- PB-1	0202-361	102	82	20
	Total			102	82	20

2.6 As stated earlier, there are 5 colonies under jurisdiction of CHI/ HWH Colony. Sanitation workload of 4 colonies are catered departmentally, Only cleaning activities of 1 colony i.e Colvin court is outsourced to external agencies. Other than 4 colonies, sanitation workload of RPF Barrack, GRP barrack, a part of HWH Orthopedic Hospital, Signal workshop (MSW) [only roads and drains], RRI and 4 cabins, etc are catered by department safaiwalas. The total workload of Colony area and other places under CHI/ HWH colony are tabulated as under:

S. No.	Workpoints	Area/Length		Workload Catered By
1.	Colvin Court Colony	,		
i)	Roads	3485 Sq mtrs.	(37512 Sq ft)	
ii)	Drains	735 mtrs.	(2411 ft)	1
iii)	Circulating Area	44550 Sq mts.	( 479532 Sq ft)	Private
iv)	Nos. of Staircases	06 Nos. (4 storeid building)	, , ,	agency
v)	Common Lavatories/ Urinals	10 Nos.		
2.	Golmohar Railway C	Colony		
i)	Roads	5807.74 Sq mtrs.	(62514 Sq ft)	
ii)	Drains	3962.97 mtrs.	(13002 ft)	1
iii)	Circulating Area	71280 Sq mtrs.	( 767251 Sq ft)	1
		1 no. (2 storied building)		
iv)	Nos. of Staircases	30 nos. (3 storied building)		Departmental
		10 nos. (4 storied building)		staff
		Common Latrines – 16 Nos.	in colony & 10 nos.	
v)	Common Lavatories/	in Rly. Ir		
٧)	Urinals	Common Urinals - 4 Nos. in		
		Rly. Inst	itute	
3.	Tindal Bagan Colony		(00.400.0.4)	1
i)	Roads	3576 Sq mtrs.	(38492 Sq ft)	_
ii)	Drains	1767 mtrs.	(5797 ft)	4
iii)	Circulating Area	20720 Sq mtrs.	( 223028 Sq ft)	Departmental
iv) Nos. of Staircases 17 nos. (3 storied building)			staff	
,		07 nos. (4 storied building)		_
v)	Common Lavatories/	Common Latrines – 104 Nos.		_
',	Urinals	Common Urinals - 80 Nos.		

S. No.	Workpoints	Area/Leng	th	Workload Catered By	
4.	Telkalghat & Height M	Mansion			
i)	Roads	2458 Sq mtrs.	(26458 Sq ft)		
ii)	Drains	1090.5 mtrs.	(3578 ft)	-	
iii)	Circulating Area	14777 Sq mtrs.	( 159058 Sq ft)	=	
"")		11 nos. (3 storied building)	( 103000 09 11)	Departmental	
iv)	Nos. of Staircases	04 nos. (4 storied building)		staff	
v)	Common Lavatories/ Urinals	Nil			
	Outhor and allocated I	lavena h			
5.	Orthopedic Hospital, I		(40547.0(1)		
i)	Roads	1813.15 Sq mtrs.	(19517 Sq ft)	-	
ii)	Drains	317.60 mtrs.	(1042 ft)	D ( - 1	
iii)	Circulating Area	1638 Sq mtrs.	( 17631 Sq ft)	Departmental	
iv)	Nos. of Staircases	03 Nos (3 storey building)		staff	
v)	Common Lavatories/ Urinals	22 Nos.			
6.	Signal Workshop (MS	·\/\			
	, ,	2000 Sq mtrs. (approximately	(21528 Sq ft)		
i)	Roads	based on physical observation)			
ii)	Drains	1000 mtrs. (approximately bas on physical observation)	ed (3280 ft)		
iii)	Circulating Area	1000 Sq mtrs. (approximately based on physical observation)	(10764 Sq ft)	staff	
:\	Common Lavatories/	Common Latrines - 22 Nos.			
iv)	Urinals	Common Urinals – 11 Nos.			
7.	· ·	arrack, RRI & other cabins, AEI isdiction of CHI/ HWH Colony	N office, CHI office, cl	nurch road and	
i)	Roads	292.50 Sq mtrs.	(3143 Sq ft)		
ii)	Drains	234 mtrs.	(768 ft)	1	
iii)	Circulating Area	6396 Sq mtrs.	(68846 Sq ft)	1	
iv)	Common Lavatories/ Urinals	Common Latrines — 24 Nos. Golmohor colony & 18 nos. in Fibagan colony  Common Urinals — 7 nos. in Fibagan colony	in RPF Barrack/ RPF Barrack/ Tandel	Departmental staff	
7.0	ODE Down of				
7.2	GRF Barrack	400 Car materia	(4505.0 (1)		
i)	Roads	426 Sq mtrs.	(4585 Sq ft)	4	
ii)	Drains	150 mtrs.	(492 ft)	Departmental	
iii)	Circulating Area	5280 Sq mtrs.	(56833 Sq ft)	staff	
iv)	Common Lavatories/ Urinals	<u>Common Latrines</u> – 12 Nos. <u>Common Urinals</u> – 11 Nos.	- 12 Nos.		
	Ulliais	<u> Johnnon Jiliais</u> – 11 1908.		<u> </u>	

S. No.	Workpoints	Area/Length	Workload Catered By
7.3	CHI office, church roa	d and RRI Cabins	
i)	Church Road and office compound of CHI/ HWH Colony	1000 Sq mtrs. (approximately as per estimation based on physical observation) (10764 Sq ft)	
ii)	Drains	200 mtrs. (approximately as per (656 ft) estimation based on physical observation)	Departmental staff
iii)	Common Lavatories/ Urinals	20 Nos. (approximately as per estimation)	

- 2.7 The working hours of Departmental Safaiwalas is 6:00 hrs. to 14:00 hrs from Monday to Saturday for catering the workload of Departmental Safaiwalas at HWH colony area under CHI (as shown in above table).
- 2.7.1 At Colony area, departmental safaiwalas are deployed to cater the workload of sweeping of roads and concourse area and cleaning of colony drains, common latrines/ urinals and disposal of garbage. The whole workload of Colony area are catered by departmental safaiwalas except Colvin court colony which is outsourced to private agency. Other than this, garbage disposal from designated area to vat are also outsourced to external agency.
- 2.8 In present system of working, total 82 nos. of Safaiwalas under CHI/HWH Colony are deployed at colony and other area in the working period from 6:00 hrs to 14:00 hrs. The work point wise deployment of Safaiwalas is given below:

SI.	A ::	A - 45 14	Deployn	nent
No.	Area	Activity	Activity-wise	Total
		Road sweeping		
		Compound sweeping	15	
	Colmobor Colony	Drain cleaning		
1.	Golmohor Colony	Stair case cleaning	03	22
		Common Toilet washing	01	
		Sports complex cleaning	02	
		Rly.Institue cleaning	01	
		Road sweeping		
		Compound sweeping	11	
2.	Tindelbagan Colony	Drain cleaning		16
		Stair case cleaning	01	70
		Common Toilet washing	02	
		Garbage dispose to vat	02	

SI.	Aroo	Aron	Deploym	ent
No.	Area	Activity	Activity-wise	Total
	Tallialahat 0 Haiaht	Road sweeping		
		Compound sweeping	10	
3.	Telkalghat & Height  Mansion Colony	Drain cleaning		13
	I Wallstoff Colorly	Stair case cleaning	01	
		Garbage dispose to vat	02	
		Road sweeping		
		Compound sweeping	02	
4.	Orthopedic Hospital, HWH	Drain cleaning		08
		Administrative building	05	
		Common Toilet washing	01	
	Signal Workshop (MSW), HWH	Road sweeping		07
		Compound sweeping	04	
5.		Drain cleaning		
		Common Toilet washing	02	
		Garbage dispose to vat	01	
		Road sweeping	06	
	RPF Barrack, GRP Barrack,	Compound sweeping		
6.	RRI Cabin and other 4	Drain cleaning		09
	cabins	Common Toilet washing	02	
		Garbage dispose to vat	01	
	CHI Office, AEN office &	Road sweeping		
7.	other offices and church	Compound sweeping	02	03
١.	road	Drain cleaning		03
		Common Toilet washing	01	
8.	1 7 0		02	02
9.	Attention of blockage of drain	02	02	
	GRAND TO	ΓAL	82	

2.9 The mechanized machines under CHI/HWH Colony are tabulated as under:

S.No.	Description of Machine	No. of Machines
1	Fogger Machine	02
2	Marut Spray Machine	02

2.10 Out of the five colonies under CHI/HWH Colony, Medical Department has outsourced sanitation work of one colony i.e Colvin Court colony to private agencies. In addition, garbage disposal work from colony area to designated vat has also been outsourced. The two (2) contractual works prevailing at present under CHI/HWH Colony are shown as under:

S. No	Contractual Works	
1.	Conservancy cleaning work of Colvin court, Cambridge terrace & church road etc. of HWH Colony for a period of three years	
2.	Conservancy Lorry contract work for removal of garbage from HWH colony area for a period of three years	

2.11 The details of the above mentioned contractual works under CHI/ HWH colony executed by Medical Department of Howrah Division are as under:

#### 2.11.1

Details of Contract :	Conservancy cleaning work of Colvin court, Cambridge terrace & church road etc. of HWH Colony for a period of three years (ANNEXURE I)					
Agreement No. :	/San/CC/HC Dtd. 26/08/16					
Place of Work :	Colvin court, Cambridge terrace & church road					
Contractor Name :	M/s S.S. Singh, 22, Rameshwar Malia Lane, Howrah-711101					
Duration of Contract :	Three years (except Sunday) [939 days]					
Rate :	Rs 23,70,975/-					

#### 2.11.2

Details of Contract :	Conservancy Lorry contract work for removal of garbage from HWH colony area for a period of three years (ANNEXURE II)
Agreement No. :	H/San/Consv./HC/13 dtd. 01/10/2015
Place of Work :	HWH Colony area
Contractor Name :	Arpan Enterprise, 38, Muchipara, P.O. Kunchrapara, Dist-24 Parg(N)
Duration of Contract :	Three years (except Sunday) [939 days]
Rate :	Rs 22,81,770/-

#### **CHAPTER-III**

#### 3.0 CRITICAL ANALYSIS

The study team has critically analyzed the present workload and effective deployment of Safaiwala as per present system of working keeping in view the existing infrastructural set up.

- 3.1 While reviewing the subject study, the study team has critically examined and analyzed the all possible ways to optimize the Safaiwalas. The study team has given full stress on the following points to improve the quality of cleaning as well as rationalized the deployment of Safaiwalas working under CHI/HWH Colony.
  - (1) Assessment of present workload of Safaiwalas.
  - (2) Critically examine the point-wise deployment of Safaiwala against present workload.
  - (3) Assessment of actual requirement of Safaiwalas under CHI/HWH Colony in consideration with the Yardstick of sanitation staff under Medical Department vide CMO/E.Rly's letter No. MD. 248/0 dated 12.4.79 (ANNEXURE III) based on non-mechanical system.
  - (4) Assessment for requirement of safaiwalas is done separately for different colonies keeping in view the present system of working.

The study team has given full attention on the above points to calculate the revised requirement of Safaiwalas considering the actual workload.

- 3.2 Study team has adopted the formula of Yardstick given in Annexure-III to assess the actual requirement of Safaiwalas in their different workpoints based on the present workload catered by departmental safaiwalas (*tabulated in table under para 2.6*). The study team also feels that there is necessity for revision of yardstick as it is framed in the year 1979 and now the circumstances have been totally changed regarding sanitation cleaning jobs due to introduction of modern mechanical devices.
- 3.3 During analysis of workload of HWH Colony and other areas under jurisdiction of CHI/HWH Colony, presently catered by departmental Safaiwalas, it is observed that, there is no Yardstick for several activities catered by departmental safaiwalas. So, for such activities, study team assess the manpower requirement by analysis based on physical observations.
  - Also, during conducting the study, the details of cleaning areas / length of drains/ nos. of latrines/urinals, etc. for each and every point under jurisdiction of CHI/ HWH Colony is not provided by the concerned department. In such instances, study team has estimated the workload based on physical observation for assessment of manpower requirement.
- 3.4 It can be seen from the previous chapter that safaiwalas under CHI/ HWH Colony are deployed for catering different types of cleaning activities such as sweeping of roads/staircases/surrounding areas, cleaning of drains, cleaning of latrines/ urinals, etc at different areas. So, on scrutiny, it is felt by the study team that maximum utilization of manpower is achieved when activity-wise assessment is done for different areas. It was already discussed in earlier chapter that areas under jurisdiction of CHI/HWH Colony presently cleaned by departmental safaiwalas includes 4 colonies, HWH orthopedic hospital, MSW, GRP Barrack, RPF Barrack, RRI cabin and other cabins, etc.
  - So, based on Yard Stick of sanitation staff under Medical Department vide CMO/E.Rly's letter No. MD. 248/0 dated 12.4.79, study team assess the actual requirement of safaiwalas separately for different colonies, HWH orthopedic hospital, Signal Workshop, HWH and rest of areas in ongoing paragraphs keeping in view the existing deployment.

### 3.4.1 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT GOLMOHAR RLY. COLONY UNDER CHI/HWH COLONY AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower req	quired	
			Golr	nohar Railway Colony	,			
	525445 (1	Manual Sweeping			For sweeping colony roads 70000 Sqft. of road only- one safaiwala in 8 hourly shift	62514 = <b>0.89</b> 70000		
1		Collection of Garbage from sweeping of road area of colony and deposited in dustbins	Once daily	<u><b>62514</b></u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)	62514 = <b>0.39</b> 160000		
	Circulating area of colony, 707254	Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>767251</u> = <b>12.78</b> 60000		
2	Circulating area of colony - <b>767251 Sqft</b>	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	Once daily	<u>767251</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)	<u>767251</u> = <b>4.79</b> 160000	21.2	
3	Sweeping of staircases a) 01 no. staircase (2 storied building)	Sweeping of staircases	Once daily	No. of staircases in 2 storied building - <u>01 no.</u>	a) For sweeping of of one staircases for a 2 storied building a safaiwala will take 28 minutes. (sweeping of 34.28 staircases in 8 hr shift in 2 storied building)	For 2 storied building 1 = 0.03 34.28		
3	<ul> <li>b) 30 nos. staircases (3 storied building)</li> <li>c) 10 nos. staircases (4 storied building)</li> </ul>	Sweeping of stancases	Office daily	No. of staircases in 3 & 4 storied building = 30 + 10 = 40 nos.	b) For sweeping of one staircases for a 4 storied building a safaiwala will take 28 minutes.  (sweeping of 17.14 staircases in 8 hr shift in 4 storied building)	For 3 & 4 storied  building 40 = 2.33  17.14		
4		Drain cleaning	On an alsilo		For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>13002</u> = <b>1.89</b> 6857	5.37	
4	1	- 13002 Rft Once dai  Removal and disposal of accumulated slit		<u>13002</u> Rft	For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min. (3840 Rft in 8 hr shift)	<u>13002</u> = <b>3.38</b> 3840	5.27	
5	Cleaning of Laterines/ Urinals a) 16 nos. latrines and 4 nos. urinals b) 10 Nos. Common Lavatory and 8 nos. urinal in Rly. Institute.	Cleaning of Latrine and Urinals	Once daily	Total = 16 + 4 + 10 + 8 = <u>38 nos.</u> (Latrines and Urinals)	<ul> <li>a) For cleaning one service latrine a Safaiwala will take 10 minutes</li> <li>(cleaning of 48 latrines/ urinals in 8 hr. shift)</li> <li>b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.</li> </ul>	<u>38</u> = <b>0.79</b> 48	0.79	
6	Sports complex and Rly. Institute cleaning	Cleaning of Sports complex and Rly. Institute				2 (As per assessment based on physical observation & present workload)	2	
			TOTAL			29.26 ≈ 30		

# 3.4.2 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT TINDEL BAGAN COLONY AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower required	
			Ti	ndal Bagan Colony			
		Manual Sweeping			For sweeping colony roads 70000 Sqft. of road onlyone safaiwala in 8 hourly shift	38492 = <b>0.55</b> 70000	
1		Collection of Garbage from sweeping of road area of colony and deposited in dustbins	Once daily	38492Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)	38492 = <b>0.24</b> 160000	
		Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>223028</u> = <b>3.72</b> 60000	
)		Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	Once daily	<u>223028</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)	<u>223028</u> = <b>1.39</b> 160000	7.3
	Sweeping of staircases a) 17 nos. staircases (3 storied building)	s. staircases <b>(3</b>			a) For sweeping of of one staircases for a 2 storied building a safaiwala will take 28 minutes. (sweeping of 34.28 staircases in 8 hr shift in 2 storied building)		
	b) 07 nos. staircases (4 storied building)	Sweeping of staircases	Once daily	Total staircases = 17 + 7 = 24 nos. (3 and 4 storied building)	b) For sweeping of one staircases for a 4 storied building a safaiwala will take 28 minutes. (sweeping of 17.14 staircases in 8 hr shift in 4 storied building)	<u>24</u> = <b>1.4</b> 17.14	
		Drain cleaning			For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>5797</u> = <b>0.85</b> 6857	
4		Removal and disposal of accumulated slit	Once daily	<u>5797</u> Rft	For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min. (3840 Rft in 8 hr shift)	<u>5797</u> = <b>1.51</b> 3840	2.36
5	Cleaning of Laterines/ Urinals 104 nos. latrines and 80 nos. urinals	Cleaning of Latrine and Urinals	Once daily	Total = 104 + 80 = <b>186 nos.</b> (Latrine and Urinals)	<ul> <li>a) For cleaning one service latrine a Safaiwala will take 10 minutes</li> <li>(cleaning of 48 latrines/ urinals in 8 hr. shift)</li> <li>b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.</li> </ul>	186 = <b>3.87</b>	3.87
	•		TOTAL			13.53 ≈ 14	4

### 3.4.3 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT TELKALGHAT & HEIGHT MANSION COLONY AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpo required		
			Telkalghat a	nd Height Mansion C	olony			
		Manual Sweeping			For sweeping colony roads 70000 Sqft. of road only- one safaiwala in 8 hourly shift	<u>26458</u> = <b>0.37</b> 70000		
1	1 Road Areas - <b>26458 Sqft</b>	Areas - 26458 Sqft  Collection of Garbage from sweeping of road area of colony and deposited in dustbins		<b>26458</b> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)	<u>26458</u> = <b>0.16</b> 160000		
		Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>159058</u> = <b>2.64</b> 60000		
2	Circulating area of colony - 159058 Sqft	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins		<u>159058</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)	<u>159058</u> = <b>0.99</b> 160000	5	
3	Sweeping of staircases a) 11 nos. staircases (3 storied	Sweeping of staircases	Once daily		a) For sweeping of of one staircases for a 2 storied building a safaiwala will take 28 minutes.  (sweeping of 34.28 staircases in 8 hr shift in 2 storied building)			
5	building) b) 04 nos. staircases (4 storied building)	Sweeping of Stancases	Office daily	Total staircases = 11 + 4 = <b>15 nos.</b> (3 and 4 storied building)	b) For sweeping of one staircases for a 4 storied building a safaiwala will take 28 minutes. (sweeping of 17.14 staircases in 8 hr shift in 4 storied building)	<u>15</u> = <b>0.87</b> 17.14		
_		Drain cleanING			For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>3578</u> = <b>0.52</b> 6857		
4	Drains - <b>3578 Rft</b>	- <b>3578 Rft</b> Removal and disposal of accumulated slit		<u>3578</u> Rft	For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min. (3840 Rft in 8 hr shift)	3578 = <b>0.93</b> 3840	1.45	
5				a) For cleaning one service latrine a Safaiwala will take 10 minutes (cleaning of 48 latrines/ urinals in 8 hr. shift) b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.				
1			TOTAL			6.45 ≈ 7		

## 3.4.4 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT ORTHOPEDIC HOSPITAL, HWH AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower r	equired		
				Orthope	dic Hospital				
		Manual Sweeping			For sweeping colony roads 70000 Sqft. of road only- one safaiwala in 8 hourly shift	<u>19517</u> = <b>0.28</b> 70000			
1	Road Areas - <b>19517</b> <b>Sqft</b>	Collection of Garbage from sweeping of road area of colony and deposited in dustbins			Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)	<u>19517</u> = <b>0.12</b> 160000			
	Cinculation	Manual Sweeping	Once daily		For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>17631</u> = <b>0.29</b> 60000	0.8		
1 2 1	Circulating area - <b>17631 Sqft</b>	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	car in a	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)	<u>17631</u> = <b>0.11</b> 160000				
		administrative Corridor, X-ray room and labs	Once daily		(a) For sweeping the offices, 25 minutes per safaiwala per 1000 Sqft (19200 Sft in 8 hrs)				
	Sweeping and cleaning of administrative building and staircases				(b) For swabing - 3.75 minutes per Safaiwala per 1000 Sft (12800 Sft in 8 hrs)	<b>3</b> (As per assessment based	3		
3					(c) For sweeping of of one staircases for a 2 storied building a safaiwala will take 28 minutes. (sweeping of 34.28 staircases in 8 hr shift in 2 storied building)	on physical observation & present			
								(d) For sweeping of one staircases for a 4 storied building a safaiwala will take 28 minutes. (sweeping of 17.14 staircases in 8 hr shift in 4 storied building)	deployment)
		Drain cleaning			For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>1042</u> = <b>0.15</b> 6857			
4	Drains - <b>1042 Rft</b>	Removal and disposal of accumulated slit	Once daily	<u>1042</u> Rft	For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min.  (3840 Rft in 8 hr shift)	1042 = <b>0.27</b> 3840	0.42		
5	Cleaning of Laterines/ Urinals	Cleaning of Latrine and Urinals	Once daily	Common	<ul> <li>a) For cleaning one service latrine a Safaiwala will take 10 minutes (cleaning of 48 latrines/ urinals in 8 hr. shift)</li> <li>b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.</li> </ul>	22 = <b>0.46</b> 48	0.46		
			T	OTAL		4.68 ≈ 5			

### 3.4.5 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT SIGNAL WORKSHOP (MSW), HWH AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower re	equired	
			•	MSW		•		
	Road Areas - <b>21528 Sqft</b>	- 21528 Sqft Manual Sweeping			For sweeping colony roads 70000 Sqft. of road onlyone safaiwala in 8 hourly shift	<u>21528</u> = <b>0.30</b> 70000		
1	physical observation,	Collection of Garbage from sweeping of road area of colony and deposited in dustbins	Once daily <u>21528</u> Sqft		Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)	<u>21528</u> = <b>0.13</b> 160000		
	Circulating area - <b>10764 Sqft</b>	Manual Sweeping		<u>10764</u> Sqft	For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>10764</u> = <b>0.18</b> 60000	0.67	
2	(*approximately baseed on physical observation)	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	Once daily		Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)	10764 = <b>0.06</b> 160000		
	Drains - <b>3280 Rft</b>	Drain cleaning			For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>3280</u> = <b>0.47</b> 6857		
3		, , , , , , , , , , , , , , , , , , ,		<u>3280</u> Rft	For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min. (3840 Rft in 8 hr shift)	1.32 3280 = 0.85 3840		
4	Cleaning of Laterines/ Urinals 22 nos. latrines and 11 nos. urinals	Cleaning of Latrine and Urinals	Once daily	Total = 22 + 11 = <b>33 nos.</b> (Latrine and Urinals)	<ul> <li>a) For cleaning one service latrine a Safaiwala will take 10 minutes</li> <li>(cleaning of 48 latrines/ urinals in 8 hr. shift)</li> <li>b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.</li> </ul>	33 = <b>0.68</b>	0.68	
		l	TOTAL	L	L	2.67 ≈ 3	1	

### 3.4.6 BARE REQUIREMENT OF SAFAIWALAS TO CATER EXISTING WORKLOAD OF DEPARTMENTAL SAFAIWALAS AT RPF BARRACK, GRP BARRACK, RRI & OTHER CABINS, AEN OFFICE, CHI OFICE, CHURCH ROAD AND OTHER PLACES UNDER CHI/HWH COLONY AS PER YARD STICK AND ASSESSMENT BASED ON PHYSICAL OBSERVATION

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower required	
			Sweepin	g of Roads, Circu	lating Areas, Office compounds, etc.		
	RPF Barrack						j
		Manual Sweeping			For sweeping colony roads 70000 Sqft. of road only- one safaiwala in 8 hourly shift	<u>3143</u> = <b>0.04</b> 70000	
1	Road Areas - <b>3143 Sqft</b>	Collection of Garbage from sweeping of road area of colony and deposited in dustbins	Once daily	<u>3143</u> <i>SqJt</i> 	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)		
		Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>68846</u> = <b>1.14</b> 60000	
2	sweeping of ci	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	Once daily	<u>68846</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)		
	GRP Barrack						
	Road Areas - <b>4585 Sqft</b>	Manual Sweeping		<b>4585</b> _Sqft	For sweeping colony roads 70000 Sqft. of road only- one safaiwala in 8 hourly shift	<u>4585</u> = <b>0.06</b> 70000	
3		Collection of Garbage from sweeping of road area of colony and deposited in dustbins	Once daily		Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min.  (160000 Sqft in 8 hrs shift)		3.26
		Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>56833</u> = <b>0.94</b> 60000	
4	sweeping of ci colony & depo	ICollection of Garbage from IOnce daily 156833	<u>56833</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)			
	CHI office compound and	church road					
	CHI office compound and church road - 10764 Sqft	Manual Sweeping			For cleaning the surroundings of houses and road - 60000 Sqft per safaiwala per shift	<u>10764</u> = <b>0.18</b> 60000	
5	[** as per estimation ]	Collection of Garbage from sweeping of circulating area of colony & deposited in dustbins	Once daily	<u>10764</u> Sqft	Garbage collected from sweeping of 10000 Sqft of road surroundings can be removed and deposited in dustbins per 30 min. (160000 Sqft in 8 hrs shift)		
			Sub-Total			3.26	
			C/F			3.26	

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower required	
				3.26			
				Cle	aning of drains		
	RPF Barrack						
6	Drains - <b>768 Rft</b>	- <b>768 Rft</b> Drain clean  Once daily  Removal and disposal of		<u>768</u> Rft	ITAKE / MIN NET IUU KIT	<u>/68</u> = <b>0.11</b> 6857	
	GRP Barrack	accumulated slit			100 Rft length of drain a sweeper will take 12.5	3840	
7	Drains - <b>492 Rft</b>	Drain clean  Removal and disposal of	Once daily	<u>492</u> Rft	For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft.  (6857 Rft in 8 hr shift)  For removal and disposal of accumulated slit from	6857	0.77
		accumulated slit				3840	
	CHI office compound and	church road		•			
8	Drains - <b>656 Rft</b>	Drain clean	Once daily	<u>656</u> Rft	For cleaning small house drain- One Safaiwala will take 7 min. per 100 Rft. (6857 Rft in 8 hr shift)	<u>656</u> = <b>0.09</b> 6857	
J	[** as per estimation ]		Office dully		For removal and disposal of accumulated slit from 100 Rft length of drain a sweeper will take 12.5 min. (3840 Rft in 8 hr shift)	<u>656</u> = <b>0.17</b> 3840	
			Sub-Total			4.03	
			C/F			4.03	

SI. No.	Areas of Working (approx) [shown in para 2.6]	Activities	Frequency of cleaning	Total Volume of Work in Sqft	Present Yard Stick	Total Manpower required	
			B/F			4.03	
				Cleraning o	of Urinals and Latrines	<u></u>	ī
	RPF Barrack	T		T			
9	eaning of Laterines/ Urinals 24 nos. latrines at RPF arrack/ Golmohor Colony 18 Nos. Lavatory and 7 nos. inal in RPF Barrack/ indelbagan  Cleaning of Latrine and Urinals		Once daily	Total = 24 + 18 + 7 = <b>49 nos.</b> (Latrine and Urinals)	a) For cleaning one service latrine a Safaiwala will take 10 minutes (cleaning of 48 latrines/ urinals in 8 hr. shift) b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.	49 = <b>1.03</b>	
	GRP Barrack						
10	Cleaning of Laterines/ Urinals 12 nos. latrines and 11 Cleaning of Latrine and Urina nos. urinals		Once daily	Total = 12 + 11= <b>23 nos.</b> (Latrine and Urinals)	a) For cleaning one service latrine a Safaiwala will take 10 minutes (cleaning of 48 latrines/ urinals in 8 hr. shift) b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.	<u>23</u> = <b>0.48</b>	1.92
	CHI office and RRI cabins						
11	CHI office and RRI cabins 20 nos. latrines and urinals (approx) [** as per estimation]		Once daily	Total = <b>20 nos.</b> (Latrines and Urinals)	<ul> <li>a) For cleaning one service latrine a Safaiwala will take 10 minutes (cleaning of 48 latrines/ urinals in 8 hr. shift)</li> <li>b) For cleaning one community latrine with 10 seats a Safaiwala will take 15 min.</li> </ul>	<u>20</u> = <b>0.41</b>	
12	Sweeping and Cleaning of	RRI Cabin and 4 other cabins	Once daily			Study team on assessment felt that 1 safaiwala is sufficient to cater the existing workload of RRI Cabin and 4 other cabins cleaning	1
13	Sweeping and Cleaning of a offices	AEN office, HWH and other	Once daily			Study team on assessment felt that 1 safaiwalas are sufficient to cater the existing workload of AEN oficce, HWH and other offices cleaning	1
14	Sweeping and cleaning of CHI / HWH Colony office and other misc. work at ofice		Once daily			Study team on assessment felt that 1 safaiwala is sufficient to cater the workload of cleaning of CHI / HWH Colony office and other misc. work	1
15	Spraying of Insecticides		Once a week			Based on present deployment	2
16	Attention of blockage of drains, septic tanks and sanitary latrines		Ito attend blockage of underground drains Cent		2	2	
			Sub-Total			12.95	
			TOTAL			12.95 ≈ 13	

3.5 From tables under para 3.4.1 to 3.4.6, the workpoint-wise bare requirement of safaiwalas is assessed in above tables. So, the total bare requirement of safaiwalas as per Yardstick and assessment based on Physical Observation is tabulated as under:

Assessed S. Reference Description of Workload Bare No. para Requirement Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at Golmohar 30 3.4.1 Colony as per Yardstick and assessment based on Physical observation Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at Tindel Bagan 2 14 3.4.2 Colony as per Yardstick and assessment based on Physical observation Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at Telkalghat & 3 7 3.5.3 Height Mansion Colony as per Yardstick and assessment based on Physical observation Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at Orthopedic 5 4 3.4.4 Hospital, HWH as per Yardstick and assessment based on Physical observation Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at MSW, HWH as 5 3 3.4.5 per Yardstick and assessment based on Physical observation Bare requirement of Safaiwalas to cater existing workload of Departmental Safaiwalas at RPF & GRP Barrack, RRI & other cabins, AEN and other offices, 13 6 3.4.6 CHI office and other misc. areas as per Yardstick and assessment based on Physical observation Total **72** 

It can be viewed from the above table that <u>bare requirement</u> of Safaiwalas is <u>72</u> to carry out cleaning work at HWH colonies and other areas under jurisdiction of CHI/ HWH Colony in accordance to the <u>existing workload catered by departmental Safaiwalas</u>. The Actual Requirement of Safaiwalas is calculated as under:

Bare Requirement			72
LR (Leave Reserve) as 12.5%	72 X 12.5%	=	9
Actual Requirement			81

So, the <u>actual requirement</u> of Safaiwala to carry out existing cleaning work catered by Departmental Safaiwalas at Colonies and other areas under jurisdiction of CHI/ HWH Colony is calculated as <u>81</u>.

3.6 It is observed from the above table under para 3.5 that, the total revised requirement of safaiwalas under CHI/HWH Colony is calculated as **81**. It may be mentioned here that there are 82 nos. (as on 08.02.18) of safaiwalas working in unit under CHI/HWH Colony (i.e. total MOR=82) as against the total sanctioned strength of 102 posts, as evident from para 2.5 which indicates that presently, there is a clear vacancy of (102 - 82) = 20 posts in the above unit. On scrutiny, it is assessed by the study team that 81 nos. of safaiwalas are needed to tackle the existing workload which has neatly been analysed in the foregoing paragraphs of the Critical Analysis chapter. Hence, (102 - 81) = 21 nos. of posts are found to be excess to the present Sanctioned Strength.

#### 3.7 Recommendation: -

It is recommended that the actual total requirement of manpower to carry out the entire workload of the unit under CHI/HWH Colony catered departmentally will be 81 posts which would result in surrender of 21 nos. of posts as against the present total sanctioned strength of 102 posts. The actual total requirement of manpower has been revised by the study team on the basis of assessment & analysis made in the foregoing paragraphs.

#### **CHAPTER-IV**

#### 4.0 FINANCIAL APPRAISAL:

4.1 As per recommendation made in Para 3.7, the total surplus posts works out to **21 posts**.

A statement showing the total annual financial savings on account of surrender of **21** posts is furnished below.

Category o		Grade Pay (Rs.)	Mean pay (in Rs)	Mean Pay (as per 7th PC) = 2.57 X Mean Pay (as per 6th PC)	D.A (5%) (in Rs)	Total (in Rs)	No. of posts Recommen ded for Surrender	Monthly savings of total staff (in Rs)	Annual savings. (in lakhs Rs)
(as į	(as per 6th Pay Commission)			(as per 7th F	Pay Comm	ission)	Surrender	(III KS)	
Safaiwa las	5200- 20200/-	1800/-	14500/-	37265/-	1863/-	39128/-	21	821688/-	98.60
	•		TOTAL	_		1	21		98.60

Thus, the annual financial savings works out to *Rs. 98.60 lakhs*.