

Ensuring Safety of Sanitation Workers

A Ready Reckoner for Urban Local Bodies

Ministry of Housing and Urban Affairs

Sanitation workers have been the foundation of the sanitation improvement story of urban India

Sanitation sector and various services provided under it are hazardous in nature – some are moderately hazardous while many of them are extremely hazardous. The working environment puts sanitation workers to a wide range of health risks and diseases due to exposure to harmful pathogens, chemicals and sharp objects. Consequently, there is an urgent need to ensure safety and humane working condition in all aspects and activities of sanitation.

Under various legislations, ULBs are responsible for ensuring a safe working environment for the sanitation workers. Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013 has banned hazardous manual

employers to provide cleaning of sewer and septic tanks equipped establishment. professional, well trained through organization of a entry into sewer/ septic tank objective to systemize human Local Bodies (ULBs) with an Unit (ERSU) in all cities/ Urban **Emergency Response Sanitation** to all states for establishing an Affairs (MoHUA) issued an advisory Ministry of Housing and Urban to the employees. In 2019, protective gears and safety devices Rules 2016, mandate the and Solid Waste Management & their Rehabilitation Rules, 2013 **Employment as Manual Scavengers** scavengers. The Prohibition of rehabilitation of manual and provides legal framework for motivated and appropriately

The COVID-19 pandemic brings back the focus on importance of

providing safe working conditions and ensuring welfare of the sanitation workers, as they continue providing essential services, despite mounting risks to their health and safety. The ULBs are a critical stakeholder responsible for ensuring health, safety and dignity of all sanitation workers.

The current edition of Swachh Survekshan 2021 has also emphasized on improving the safety of sanitation workers. This reckoner guides the ULBs to ensure safety and dignity of sanitation workers engaged in their respective cities/ jurisdictions.

MoHUA would like to acknowledge the contribution of Urban Management Centre in developing the ready reckoner.

List of abbreviations

CPHEEO – Central Public Health and Environmental

Finding Programication

Engineering Organisation

CT – Community Toilet

DAY-NULM – Deendayal Antodaya Yojana - National

Urban Livelihoods Mission

EPF — Employees' Provident Fund

ERSU – Emergency Response Sanitation Unit

IEC – Information, Education and Communication

FC – Finance commission

FSSM – Fecal Sludge and Septage Management

FSTP – Fecal Sludge Treatment Plant

MoHUA – Ministry of Housing and Urban Affairs

MoEFCC - Ministry of Environment, Forests and Climate

Change

NSDC - National Skill Development Council

PPE – Personal Protective Equipment

pSEP — Private Sewage Entry Professional

PSSO – Private Sanitation Service Organisation

PT – Public Toilet

QP – Qualification Pack

RPL — Recognition of prior learning

RSA - Responsible Sanitation Authority

SBM — Swachh Bharat Mission

SEP – Sewage Entry Professional

SOP – Standard Operating Procedure

STP – Sewage Treatment Plant

SWM – Solid Waste Management

U-LEARN — Urban Livelihood e-learning and Resource Network

ULB – Urban Local Body

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Need for ensuring safety of sanitation workers

1.1 Issues faced by sanitation workers

- Sanitation workers are viewed as unclean and stigmatized; scant value is given to the work they do.
- Little or no protective equipment is provided to them, leading to regular accidents resulting in fatalities
- Mismatch between high occupational hazards and low skill level of sanitation workforce
- Little support for rehabilitation and selfemployment
- Unfair and untimely payment of wages
- Lack of financial and social safety coverage



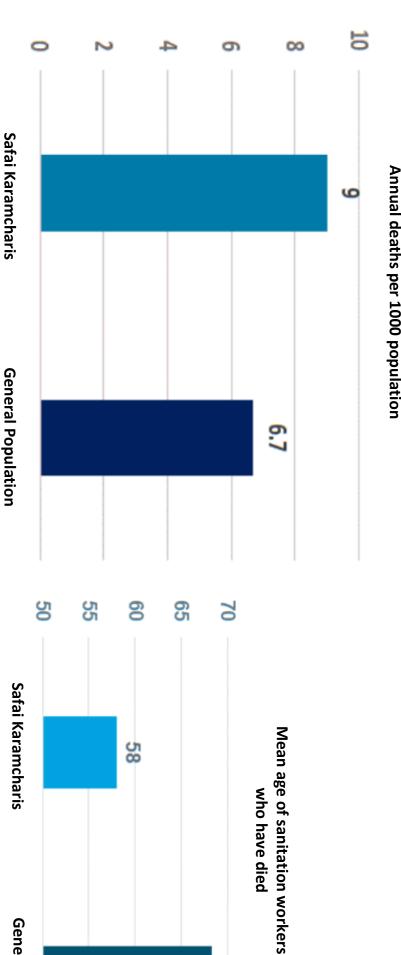
1.1 Issues faced by sanitation workers

- Poor contractual mechanisms and lack of SOPs in local governments
- Lack of awareness and sensitivity for sanitation workers' safety among service seekers
- No provision of insurance considering the hazardous nature of sanitation work
- No provision of periodic health check ups
- Lack of facilities to maintain hygiene



1.2 Sanitation workers' death

septic tanks, for cleaning and maintaining the vast sanitation infrastructure. The working environment exposes them to a wide range of health risks and diseases due to harmful pathogens, chemicals and sharp objects. Sanitation workers regularly deal with hazardous waste and sometimes, enter high-risk confined spaces like sewers and



who have died

68.3

over a critical circumstances and methods to ensure safety Anandhakumar, G. (2016). Analyzing manual scavenging death rate Source: S Kamaleshkumar, K & Murali, Lokesh & Prabhakaran, V &

study in the perspective of caste, April 2017 Source: Salve Pradeep, Safai Karamcharis in vicious cycle: A

General Population

1.3 Recent media reports on sanitation workers' plight

INSIDE DEVELOPMENT | WASH

days. Here's how to change that. In India, a sanitation worker dies every 5

By Rebecca Root // 19 November 2019

Water & Sanitation Global Health The Max Foundation WaterAid WHO India

Two sanitation workers in Odisha choke to death in manhole

while cleaning a sewer line of Public Health Engineering Organisation at In a tragic incident, two sanitation workers of a family died of suffocation IRC village on Wednesday





Published: 18th May 2017 06:27 AM | Last Updated: 18th May 2017 06:27 AM

in Tamil Nadu battle COVID-19 'Stigmatised, ostracised': Sanitation workers

With contract jobs and no pay during recovery, the workers battle societal stigma and ostracisation In recent days, many sanitation workers have tested positive for COVID-19 in Tamil Nadu.

tank asphyxiation after entering septic Odisha: Sanitation worker dies of

tank at the house of one SK Anis of the village. The deceased, SK Muna was suffocated to death after he entered the septic







Published: 02nd June 2020 09:44 AM | Last Updated: 02nd June 2020 09:44 AM

Coronavirus: Sanitation Worker Forced to Drink Disinfectant in UP's Rampur, Dies

his aides, allegedly inserted the sanitising machine's pipe into the the sanitation worker's mouth, forcing The incident took place after the victim mistakenly sprayed the disinfectant on a man, who then, along with him to drink the disinfectant.

Published: April 19, 2020 2:16 PM IST

Pradesh Sweeper faints, dies after fogging in Uttar

Four Covid-19 patients have died in Uttar Pradesh so far while 343 people have tested positive



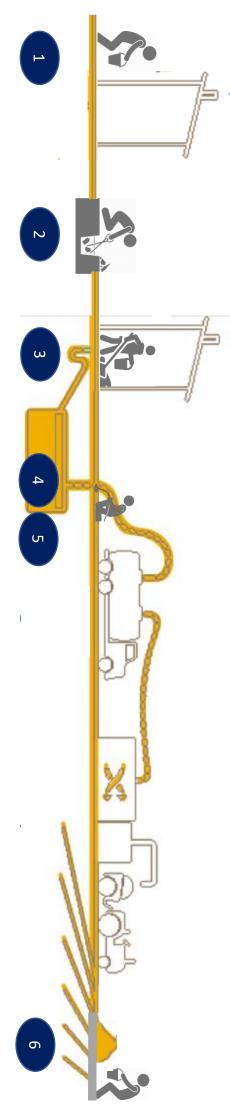
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Types of sanitation workers and risks associated with them

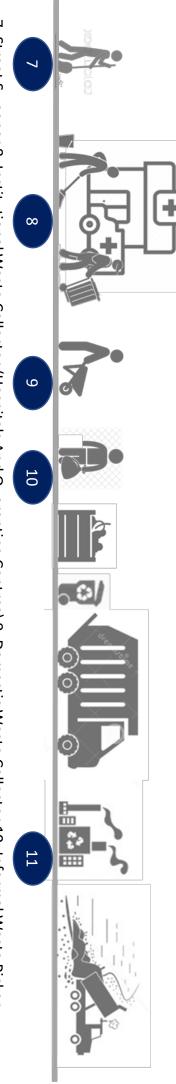
2.1 Types of sanitation workers

Types of sanitation workers in liquid waste management



1. Latrine Cleaner 2. Drain Cleaner 3. Community Toilet/Public Toilet Cleaner 4. Septic Tank Desludger 5. Sewer Cleaner 6. Treatment Plant Worker

Types of sanitation workers in solid waste management



- 7. Street Sweeper 8. Institutional Waste Collector (Hospitals And Quarantine Centres) 9. Domestic Waste Collector 10. Informal Waste Picker
- 11. Worker At Waste Processing Facility

2.2 Occupational risks and hazards

1. Disease burden

Asthma, cholera, typhoid, hepatitis, polio, trauma, eye and skin burns, gastroenteritis

2. Risk of chemical hazards due to harmful gases that may be present (ammonia, sulphur dioxide, carbon monoxide). It can cause workers to lose consciousness or die

3. Risk of microbial hazards as the waste has a high concentration of fungi and bacteria

4. Risk of getting musculoskeletal disorders

due to excessive manual labour, lifting of heavy weight and working long hours in detrimental postures

- **5.** They come into direct/close contact with **fecal matter**
- **6.** They work in confined and often dangerous spaces

7. Injuries and infections

caused by sharp objects such as razors, syringes or broken glass

Sanitation workers who are not protected by adequate health and safety measures risk injury, infection, disease, mental health issues, and death

2.2 Occupational risks and hazards

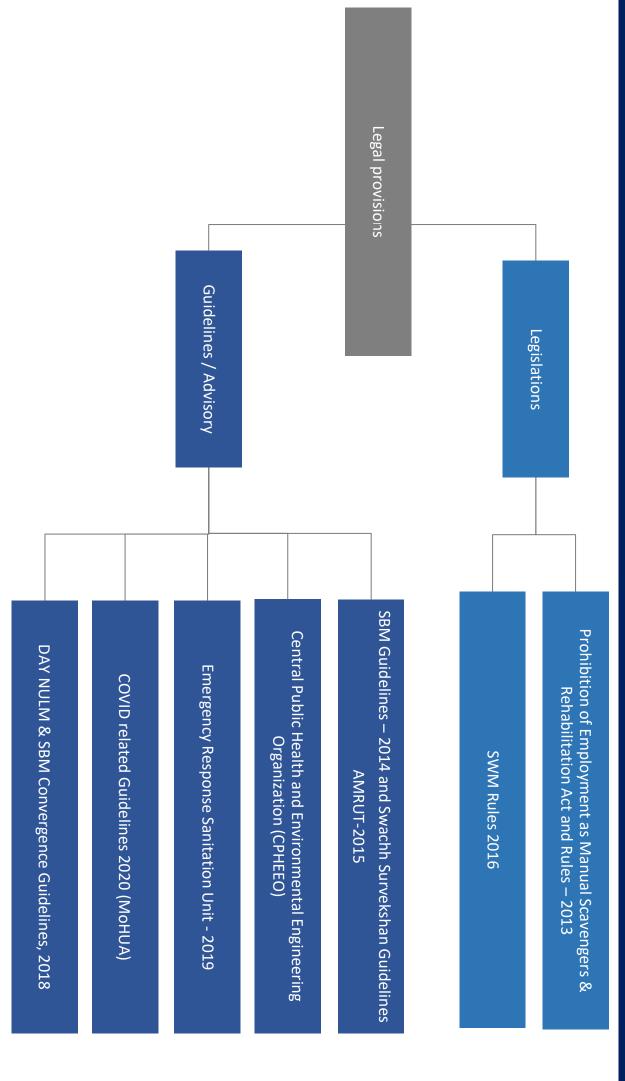
	<	>				Injuries due to trips and falls, especially in confined spaces
<	<	>		<		Mechanical hazards
	<	\	~			Chemical hazards
<			~			Electrical hazards
<	<	>	~	\		Biological hazards
	~	~			<	Gastrointestinal problems
	~	>	~	<	<	Dermatological problems
<	~	>			<	Respiratory problems
<	<	>	~	<	<	Musculoskeletal disorders
Treatment plant workers	Septic tank de- sludger/ sewer network maintenance	Open drain cleaner	CT/PT cleaner, latrine cleaners	Domestic Waste collector/ Institutional Waste Collector	Street sweeper/ Informal Waste Picker	
		orkers	Category of sanitation workers	Categ		

mechanical, the intensity of them is very high, which may lead to death of sanitation workers. Note: Manual cleaning of sewers and septic tanks is banned barring exceptions. While the risks and hazards associated with manual cleaning are same as



Legislations and guidelines

3. Legislations and guidelines



3.1 Legislation | Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013

'No person, local authority or any agency shall engage or employ, either directly or indirectly any person for hazardous cleaning of a sewer or a septic tank.'

Provisions related to safety of sanitation workers:

- ULB to conduct survey to identify any person engaged or employed in manual scavenging within its jurisdiction.
- Rehabilitation of the identified persons in the survey, as prescribed
- Person shall be given a photo ID, with details of his family dependents and one-time cash assistance
- **:**=: Children entitled to education as per relevant state or central scheme
- Allotted residential plot and financial assistance for house construction
- ₹ ,≣ One person from that family to be provided livelihood skill training
- < Provide subsidy or concessional loans for taking up alternative occupation on a sustainable basis.
- ≤. Provided legal and programmatic assistance as the State or Central Government may notify.
- Use of appropriate technological appliances for cleaning of sewers, septic tanks and other spaces to eliminate the need for manual handling of excreta in the process of cleaning
- Provision of the 44 items of protective gear and safety devices (mentioned in the Rule 4 of Prohibition of Employment as Manual Scavengers & their Rehabilitation Rules, 2013) by the employer to the employee engaged for cleaning of sewers and safety tank
- Following of safety precautions before a person is engaged in the cleaning of sewer or a septic tank:
- There shall be a minimum of three employees present all the time, one of whom shall be a supervisor
- =: The atmosphere within the confined space shall be tested for oxygen deficiency and toxic and combustible gases
- Before starting the cleaning, it is determined if the sewer serves any industries nearby to anticipate any hazardous atmosphere that may be encountered
- Life Insurance policy of at least Rs. 10 lakh for the person assigned for cleaning of sewer and septic tanks; premium for which shall be paid by the employer

Refer - https://rb.gy/e9u1hi

3.2 Legislation | Solid Waste Management Rules, 2016

The Union Ministry of Environment, Forests and Climate Change (MoEFCC) notified Solid Waste Management Rules (SWM), 2016.

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 8th April, 2016

or suggestions from the persons likely to be affected thereby, before the expiry of the period of sixty days from the notification of the Government of India in the Ministry of Environment, Forest and Climate Change number G.S.R. 451 Waste (Management and Handling) Rules, 2000; publication of the said notification on the Solid Waste Management Rules, 2015 in supersession of the Municipal Solid (E), dated the 3rd June, 2015 in the Gazette of India, part II, Section3, sub-section (i) of the same date inviting objections S.O. 1357(E).—Whereas the draft of the Solid Waste Management Rules, 2015 were published under the

And whereas, copies of the said Gazette were made available to the public on the 3rd June, 2015;

And whereas, the objections or comments received within the stipulated period were duly considered by the

rules for management of Solid Waste, namely:respect things done or omitted to be done before such supersession, the Central Government hereby makes the following 1986 (29 of 1986) and in supersession of the Municipal Solid Waste (Management and Handling) Rules, 2000, except as Now, therefore, in exercise of the powers conferred by sections 3, 6 and 25 of the Environment (Protection) Act,

Clause 15. Duties and responsibilities of local authorities

(zd) ensure that the operator of a facility **provides personal protection equipment** including uniform, fluorescent jacket, workforce hand gloves, raincoats, appropriate footwear and masks to all workers handling solid waste and the same are used by the

Refer - https://rb.gy/eburzv

3.3 Guidelines | Central Public Health and Environmental Engineering Organisation (CPHEEO)

Chapter 9: Occupational Health Hazards And Safety Measures

7	6	Л	4	ω	2	1	
Respiratory protection	Ear protection	Legs and feet	Body	Hands and lower arms	Face and Eye protection	Head Protection	Personal Protection
Mask	Earpads/earplugs	Shoes	Diver suit/ aprons	Protective sleeves, gloves, finger pads	Goggles, face shields, protective creams	Hard hats	Protective Devices

portable ventilators, safety fences and safety signs wherever required. CPHEEO manual prescribes using protective devices. It also mentions use of safety belt,



MANUAL ON SEWERAGE AND SEWAGE TREATMENT SYSTEMS

PART B: OPERATION AND MAINTENANCE FIRST EDITION

MINISTRY OF URBAN DEVELOPMENT, NEW DELHI http://moud.gov.in

CENTRAL PUBLIC HEALTH AND ENVIRONMENTAL ENGINEERING ORGANIZATION

IN COLLABORATION WITH



JAPAN INTERNATIONAL COOPERATION AGENCY

NOVEMBER 2013

IS 11972, CPHEEO manual and SOP released by MoHUA emphasize on using mechanical sewer cleaning equipment for O&M of wastewater infrastructure

- When it is beyond the capability of machines —
 trained sanitation workers, properly equipped and
 authorized should only be employed under
 supervision of designated authority
- Fatal accidents among people tasked to enter septic tanks/sewers have been reported due to:
- Not observing laid down safety procedures
- Lack of training
- Not wearing proper protective equipment required
- Lack/ absence of supervision



Standard Operating Procedure (SOP)

for

Cleaning of Sewers and Septic Tanks







Central Public Health and Environmental Engineering Organization (CTHEEO)

Ministry of Housing and Urban Affairs

Government of India

Refer - https://rb.gy/gdt07b

3.4 Guidelines | Emergency Response Sanitation Unit

Section 7 of Prohibition of Employment as Manual Scavengers & Rehabilitation Act, 2013

'No person, local authority or any agency shall engage or employ, either directly or indirectly any person for hazardous cleaning of a sewer or a septic tank.

In the event that mechanical cleaning of sewer/septic tanks does not work and human entry is required, it should be done through an Emergency Response Sanitation Unit (ERSU)

MoHUA issued a notification in 2019 to set up ERSUs

The notifications asks ULBs to

- Set up ERSUs
- Undertake IEC campaign to educate employers and citizens about provision of Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013 and hazardous cleaning of sewers and septic tanks
- 3. Promote mechanised cleaning
- Issue directions to file FIR against employers in cases of hazardous cleaning of sewer/septic tanks



3.5 Guidelines | SBM and DAY-NULM Convergence Guidelines

CENTER SBM and NULM Mission Directorates to issue convergence guidelines

SBM State Mission Directorate and NULM - State Mission Management Unit to issue state level convergence guidelines and oversee implementation of convergence models

STATE

- ULBs and NULM CMMU to implement convergence models at the city level – form CIGs of marginalised persons through Community Organizers and Resource Organizations.
- ULBs to appoint SHG members as 'Swachhagrahi's'
- City Livelihoods Centers to register informal workers and other vulnerable persons and connect them to households and institutions seeking services as well as training programs

CITY

 City Level Federations – aid in identification of ragpickers and other marginalised persons, CLF level sanitation and waste management committee to monitor and support ALFs sanitation and waste management activities

Area Level Federations — sanitation and waste management subcommittees to work towards achieving SBM-U outcomes

WARD/SLUM

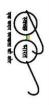
Refer - https://nulm.gov.in/PDF/NULM_Mission/SBM_NULM_Convergence_Guideline.pdf



EMPOWERING MARGINALIZED GROUPS CONVERGENCE BETWEEN SBM AND DAY-NULM
March 2018

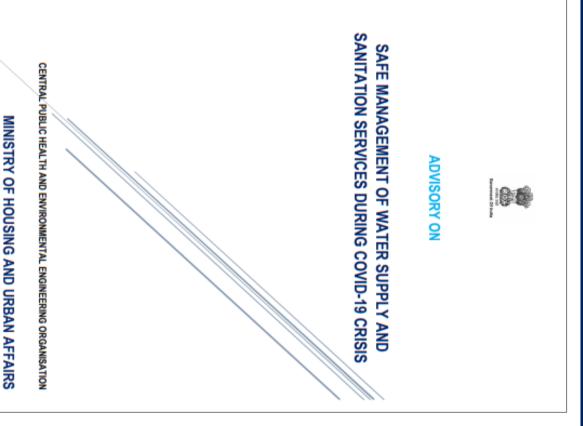
Deendayal Antyodaya Yojanaational Urban Livelihoods Missio





3.6 Guidelines | COVID 19 related guidelines by MoHUA

- Sanitation workers in India are particularly vulnerable to water and sanitation related risks and are at the frontline of the essential services including sanitation, solid waste management, etc. Therefore, their safety and welfare must be accorded highest priority by ULBs and other urban utilities. Proper PPE gear to be provided and their use should be encouraged.
- Personal protective equipment (PPE) includes protective outerwear, gloves, boots, long-sleeved gown, goggles or a face shield, and a mask.



Refer - http://mohua.gov.in/pdf/5edf84915e23aCOVID%2019%20-%20Advisory%20on%20Water%20and%20Sanitation%20Services.pdf

GOVERNMENT OF INDIA

4

What should ULBs do for safety of sanitation workers?

4. What should ULBs do for safety of sanitation workers?



work
4.1 Enumeration of
sanitation workers

4.7 Training of sanitation

Training

workers

4.8 Capacity building of ULB staff

4.3 Adoption of standard operating procedures

private service providers

4.2 Empanelment of

4.4 Mechanization of sanitation work

4.5 Prohibition of manual scavenging

4.6 Setting up an ERSU

Provision of entitlements

4.9 Service level benefits for sanitation workers

4.10 Health and safety of sanitation workers

4.11 Social security benefits for sanitation workers and their families

Enablers

4.12 Grievance redressal system for sanitation workers

4.13 Sensitizing citizens

4.14 Recognition of sanitation workers

4

What should ULBs do for safety of sanitation workers?

A. Regulation of sanitation work

4.1 Enumeration of sanitation workers

ULB should maintain records of all sanitation workers engaged in their jurisdiction either directly or via contractors or engaged informally.

a. Need of enumeration

The first step is to know how many sanitation workers* are currently engaged in the city. ULB should conduct survey of all sanitation workers and assess extent of linkage to government schemes. Following the survey, all workers should be registered with the ULB.

Registering sanitation workers engaged in performing sanitation jobs in the city will aid the ULBs in planning for PPE provision- what type of PPEs that should be provided to each sanitation worker category, the sizes and numbers of each PPE to be provided, replenishment of PPEs plan etc. .

b. How can the survey be carried out?

In order to carry out the survey and registration process, ULBs can reach out to sanitation workers by either their own sanitation staff or by engaging:

- NULM teams stationed at the state departments
- Self-help groups/ common interest groups formed under NULM program in their cities
- Local organizations working with sanitation workers

c. Information to be captured in the survey

The survey form should ask for the following information from the sanitation workers

i. Personal details

Name, address, information about dependents

ii. Details about the sanitation work

Types of sanitation jobs done, wage received, modality of engagement etc.

- iii. Aadhar card to eliminate any duplicacy in the registration process
- iv. Access to social security schemes
- a. Access to health care Ayushman Bharat/ State specific health card
- b. Access to insurance PM/ Atal Pension Yojana
- C. Access to other social security schemes Pradhan Mantri Jan Dhan Yojana
- v. Membership of any SHG

* Sanitation workers include workers engaged across the solid and liquid waste management value chains.

Refer annexure B for sanitation workers survey form

4.2 Empanelment of private service providers

All sanitation work should be regulated by the ULB or through agencies empaneled by the ULB. For empanelment, following steps should be followed:

ULB 1. Publish notice asking all private contractors to register/empanel with the

should be penalized septic tanks and emptying of soak pits to register themselves with the ULB. Such registration is mandatory for carrying out operations in the city. Unregistered contractors The ULB should issue a public notice asking all private contractors engaged in desludging of

Refer – Model Contract for desludging contractors

portals 2. ULB should issue details, terms & conditions of empanelment on their

register after the specified period registration of private contractors upon empanelment and contractors should restaff and equipment for carrying out the work. ULB should specify the validity of When empaneling contractors, ULBs should ensure that the contractor has adequate

3: Training for de-sludging and emptying of septic tanks and soak pits

aspects contractors is adequately trained in standard operating procedures and safety related The ULB should ensure that all staff engaged by them directly or through private

Refer – 1. Participant handbook for desludgers

https://umcasia.org/assets/Handbook-for-Desludging-Operator-English.pdf

2. Training handbook on PPEs

https://umcasia.org/assets/Training-of-sanitation-workers-on-use-of-PPEs.pdf

No. of documents attached: 12. [We carify that information given by majus in oclumn 1 to 11 are true to the best of my knowledge and belief. I also certify that have read and understood the attached terms and conditions 1 to 13 and agree to acide by them, lagree that if any information given by me is found wrong, the application for Jeense will be fable for cancellation at any time. Details of the Vehicle (Model, Type, Capacity, Leak-proof, Odour, Sp#-proof, having proper Vacuum/Suction and Discharging Arrangement (relevant Document Proof may be enclosed). Whether Vehicle is Fitted with GPS: (Yes/No) ... Fitness of the Vehicle valid up to: Insurance No. and Date valid up to: 6. Pollution Certificate of the Vehicle valid up to: Registration No. of Vehicle: 3. Address: Regd. Office: Nationality: Indian Name of the Applicant: McMrs. 4. Telephone No.:(0) Processing Fee for License: Rs.1000/- (Non-refundable) 1. Copy of registration certificate | 2. Pollution under control certificate | 3. Copy of the driving Icence of the driver 4. Insurance copy 5. Fitness certificate Email id: Head Office: Documents to be enclosed: Annexure 4: Application Form for the License of Collection Transportation and Disposal of Septage in Telangana Date: Signature(s) of Applicant(s)

Source: FSSM Policy Telangana

Model clauses for any contract

To ensure safety of sanitation workers, a typical contract by ULB should include the following points:

a. Scope of work

- 1. Provide required equipment & devices
- 2. Use of safety devices and equipment like gas monitor
- 3. Safe transport and disposal of solid and liquid waste

b. Provision of cleaning equipment and vehicles

The contractor will be required to provide for, and operate cleaning equipment and vehicles and also provide all the necessary materials for maintenance of these

c. Capacity building

- 1. Orientation on their rights and entitlements
- Training on SOPs
- 3. Training on use, O&M and safe disposal of PPE

d. Access to entitlements

- .. Registration/ID card
- Paid leaves
- 3. Regular health check-up
- 1. Facilitating linkage with existing schemes

e. Provision of safety equipment for staff

- 1. No worker will come into physical contact with the fecal sludge, during emptying or otherwise.
- Each worker should be given, and be wearing, safety equipment. For instance:
- i. Safety googles or glasses with side splash protection
- ii. Dust mask that fits over nose and mouth
- iii. Clean rubber gloves
- iv. Dedicated body suit
- v. Footwear like gumboots or safety shoes
- vi. Battery operated torch
- The Contractor also needs to provide workers access to clean water, soap, disposable paper towels, and a first aid kit in the workstation/ office.

Source: Format adapted from Model Bid document available on www.pas.org.in

Leading practice

Empanelment of Desludgers in Waranga

sludge operators/truck owners. After Greater Warangal Municipal Corporation (GWMC) passed a resolution on FSM regulations, licenses were made mandatory for fecal

penalties were imposed on unlicensed desludging while unlicensed operators were barred and Empanelment of fecal sludge operators was done through open notification from GWMC for 3 FSTPs;

service agreement has been designed for service providers. Further, training was provided on safe/protective desludging practices. A

File No.HLTH-GEN/20/2016-SR AST1 HLT HOF

PROCEEDINGS OF THE COMMISSIONER (FAC) :: GREATER WARANGAL MUNICIPAL CORPORATION

Present: Sri Shahid Masood, B.Com,

Roc.No.HLTH-GEN/20/2016/Permit-03/2016

Dated:27-10-2016.

Sub: Greater Warangal Municipal Corporation - Public Health Branch - License Ref: Your application dated 01/09/2016 for collection, Transportation and disposal of septage - Orders - Issued.

ORDER

license and applicable rules and laws of Government of Telangana, permission is Municipal Corporation Act/Rules, the special license conditions accompanying this In accordance with all the terms and conditions of the By-laws / Regulations

GWMC duly following the commercials entities and to transport for disposal at a designated site as notified by desludging of the septic tanks and pits from the individual households, institutions, Transportation Treatment and Disposal) in Greater Warsingal Municipal Corporation Shri. Dilli Sampath Rao S/o. Ramana is hereby authorised to undertake

Greater Warangal Municipal Corporation Municipal Health Officer

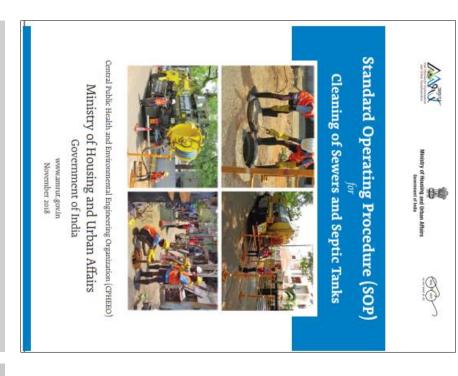
Copy to the Deputy Commissioner-II (Sanitation), GWMC
Copy submitted to the Commissioner, GWMC for favour of kind information.
Copy submitted to the Hon ble Mayor, GWMC for favour of kind information



4.3 Adoption of standard operating procedures

standard procedures while performing their tasks. ULBs should adopt standard operating procedures for all sanitation jobs. The ULB staff and the sanitation workers should be trained to follow the

by-step procedures to be followed by the service providers. You can refer to the SOP for Cleaning of Sewers and Septic Tanks and Operation and Maintenance of Public/Community Toilets Manual for clear step-





Refer: https://bit.ly/3jkxYwu

Refer - https://umcasia.org/assets/SOP-for-OM-of-PT-CTs_English_Final_2nd-Edition_Spread.pdf

4.4 Mechanization of sanitation work

- The first step towards safety in sanitation work is elimination of risk by limiting the need of human contact with fecal matter. ULBs should procure machines to eliminate manual cleaning of septic tanks and sewers.
- Along with desludging, there have been numerous innovations like Bandicoot, Sewer croc, jetting machines for cleaning of public conveniences to reduce direct contact of workers with fecal matter
- ULBs should consider the following selection criteria for procurement or renting of the appropriate vehicle:

Criteria for selection of appropriate vehicle

- Road widths/ condition/ terrain
- Quantity of fecal sludge and septage generated
- Financial resources available
- Availability of skilled human resources to operate and maintain the vehicles
- After sale service/ skill for repair of the vehicle
- Method of desludging (will affect the number of vehicles)
- The demand for vehicles can be calculated by calculating the septage generation, as shown in the next page



Source – https://currentaffairs.adda247.com/guwahati-gets-manhole-cleaning-robot-bandicoot/



Source - http://www.sanitor.in/SewerCrocandRoboticCameraSystem.html

Leading practice

Mobilization of sanitation workers to adopt mechanization

The Dalit Indian Chamber of Commerce & Industry (DICCI), Telangana chapter developed a road map for transforming manual scavengers and their dependents into entrepreneurs and at the same time ensuring elimination of direct contact with fecal matter.

134 Sanitation workers involved in scavenging practices were motivated to quit manual scavenging and instead use machinery and equipment for providing sanitation services. With help of DICCI, these workers prepared project proposals, applied for cheaper loans and procured vehicle.

With handholding and support of DICCI, these workers participated in tendering process and have been given contract by HMWSSB to clean septic tank and sewer network. This is a successful model of manual scavengers turning into entrepreneurs.





Calculate the estimate desludging demand in the city

desludgers. ULBs can use the following method to calculate the estimated septage generation in the city. to be able to meet the demand of septage management. These vehicles could be owned by the ULB or can be available through empanelled Mechanization of desludging is a critical component to eliminate manual scavenging. Each ULB should have adequate no. of desludging vehicles

demand following data for calculating the The ULB needs to have the

- Population
- ? Total households (HHs)
- ω septic tanks HHs having toilets with
- 4 toilets having septic tanks No. of community/ public
- <u>5</u> Septic tank cleaning cycle for HHs (In years)
- <u></u> Septic tank cleaning cycle for CT/PT (in days)
- .7 No. of working days in a
- ∞ emptying vehicle per day No. of trips possible per (trips/day/vehicle)

Calculating no. of tanks to be emptied in a day

- HHs toilets connected to septic tank/ cleaning cycle for HHs =
- CTs connected to septic tank/ cleaning cycles for CTs =

Calculating no. of trucks required

7

No. of tanks to be emptied in a day/ No. of trips per day=

Calculating volume of septage to be treated

ω

Average volume of HHs and CTs septic tanks * No. of tanks to be emptied in a day =

Refer – Fecal Sludge and Septage Management: An Orientation Module https://scbp.niua.org/?q=content/fssm-orientation-module-part-b-learning-notes

4.5 Prohibition of Manual Scavenging



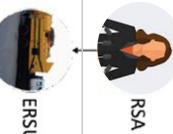
- Under the section 7 of Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013 'No person, local authority or any agency shall engage or employ, either directly or indirectly any person for hazardous cleaning of a sewer or a septic tank.'
- In 2014, the Supreme Court has ordered ULBs to provide compensation of Rs. 10 lakh each to families of all deceased manual scavengers since 1993.
- MoHUA had issued a notification to set up ERSU (2019), it directs to file **FIR against employers in cases of hazardous cleaning of sewer/septic tanks** (where hazardous cleaning is manual cleaning without using PPEs and under no supervision).

4.6 Setting up an ERSU

- agency shall engage or employ, either directly or indirectly any person & their Rehabilitation Act, 2013 - 'No person, local authority or any Under the section 7 of Prohibition of Employment as Manual Scavengers for hazardous cleaning of a sewer or a septic tank.'
- equipped workforce for the maintenance and management of sewers The main objective of the Emergency Response Sanitation Unit (ERSU) is to provide professional, well trained, motivated and appropriately
- and septic tanks, thereby eliminating the deaths caused by entry of
- nonadherence to security protocols. workers into sewers and septic tanks without proper PPEs & training and
- the supervision. that only authorized sanitation workers enter sewer/ septic tank under The ULBs should set up an ERSU with the following members to ensure

Composition of ERSU











- Responsible sanitation authority (RSA) single authority for ensuring safe and successful sewer/ septic tank entry
- Staff for ERSU will be arranged by the RSA: a headquarter and a 24x7 response contact number
- ERSU engages a team of Sewer Entry Professionals (SEPs)
- Professionally trained and equipped Private Sanitation Service Organizations (PSSOs) may also be empaneled by the ERSUs





Authorized entrant Topman/attendant

What should ULBs do for safety of sanitation workers?

B. Training of sanitation workers and ULB staff

4.7 Training of sanitation workers

Training of sanitation workers is essential to ensure that they practice the safety guidelines as per standards. ULBs should conduct trainings periodically.

1: ULBs should prepare a training calendar for sanitation workers

conduct training in an organized manner and enable the sanitation workers to participate in an effective training calendar to enhance the capacity of sanitation workers. The training calendar will guide the ULB to Both technical skills (related to safety, standard procedures and use of equipment) and soft skills (communication, negotiation skills etc.) are required on the job. Hence, ULBs should adopt a quarterly

Safety related training	Soft Skills	Technical skills
Potential hazards, Rules for risk management at workplace	Work ethics and etiquettes	For all categories of sanitation workers - Desludgers, drain cleaners, street sweepers, door-to-door waste collectors, FSTP/STP operators, community toilet/ public toilet cleaners
PPE– use and maintenance	Working effectively with coworkers	 Standard operating procedures for collection, storage, transport, treatment and disposal of waste
Immunization, health and safety	Digital literacy , Financial literacy	 Best practices in respective sanitation jobs
Emergency planning, Components of first aid box	Entrepreneurship	

2: ULBs should regularly organize training of SWs and ULB on various aspects of sanitation

work is critical for preventing accidents and occupational diseases. Thus, ULBs should organize training workshops to help and encourage the workers to upgrade their skill sets. ULBs may engage NGO and local CSOs having credible experience of working with and training sanitation workers. Separate budget must be earmarked for ensuring smooth conduct of training sessions. These should also include sanitation

National skill development corporation provides training programmes for:

workers engaged by contractors.

- Certification of existing skills
- Upgradation of skills and certification

4.7 Training of sanitation workers

3. Certification of existing skills through **Recognition of Prior Learning (RPL)** program

ULBs should organize RPL training programs to promote certification of existing skills of the sanitation workers. It is usually a training program of 2-5 days wherein participants receive certification upon completion. Skill Council for Green Jobs provides RPL training on the following sanitation jobs.

- Safai Karamchari
- Wastepicker
- Manager- Waste Management
- Recyclable Waste Collector & Segregator
- Wastewater Treatment Plant
- Wastewater Treatment Plant Technician

4. Upgradation of skills and certification through **NSDC approved** quality packs

ULBs should organize trainings for sanitation workers to develop new skills. Qualification Packs approved by National Skill Development Corporation are available for different sanitation jobs including:

- Desludging operator
- FSTP O&M Technician
- 3. Septic Tank technician
- 4. Safai Karamchari
- 5. Waste Picker
- Helpers at treatment plants and community toilets

Visit: https://skillindia.nsdcindia.org/qpListings



Introduction

Qualifications Pack- Desludging Operator

SECTOR: GREEN JOBS

SUB-SECTOR: Waste Management

OCCUPATION: Operation & Maintenance

achieve when

REFERENCE ID: SGJ/Q6403

ALIGNED TO: NCO-2015/9613.0500

Brief Job Description: The Desludging Operator, also known as Sludge Emptier is an individual, who is responsible for emptying, transport and disposal of faecal sludge from the septic tank to desludging site / Faecal Sludge Treatment Plant. He /She has to operate pumps, suction hoses and other machinery/equipment to empty the septic tank and appropriately dispose the sludge. Desludging Operator would further specializes as an entrepreneur, he/she would be trained to venture into desludging services for managing Faecal Sludge.

Personal Attributes: The Individual is expected to be physically fit and should be able to work across various location/site conditions. He/ She should be self-motivated and able to produce good quality work. He/ She must have good communication skill, team spirit, be courteous and polite. He should be efficient in working with proper planning skills.

4.8 Capacity building of ULB staff

Capacity building of ULB staff is crucial so that they understand the safety measures that should be practiced and can ensure compliance of the same

ULBs should mandate its staff to take up 3 e-courses per quarter

should make it mandatory for staff to complete minimum three number of courses per month. SBM e-learning platform has a total of 179 modules on various aspects of sanitation. Users receive certification upon completion of courses. ULBs

Course 123: Prevention of Manual Scavenging in cities



Pickers in SWM, PMC_UMC



Course 209: Mainstreaming Waste



Course 208: Mainstreaming Waste Pickers in SWM, PMC_UMC



Course 703: Fecal Sludge Treatment Plant in Devanahalli



SBM e-learning portal

301 LESSONS 165 QUIZZES 9 SERIES 179 MODULES

Refer - https://swachhbharat.azurewebsites.net/#/

4

What should ULBs do for safety of sanitation workers?

C. Provision of entitlements

4.9 Service level benefits for sanitation workers

1. Provision of PPEs

- of sanitation work. Sanitation workers should be trained on the use and maintenance of PPEs so that PPEs are used effectively. Sanitation workers should use suitable PPEs for performing their work. PPEs should be procured based on the requirement for different categories
- ULBs should ensure that there are changing and bathing facilities where the workers can wear and remove PPEs and they can ensure their personal hygiene. Lockers for storing PPEs should also be provided.

a. Why are PPEs essential?

workplace injuries and illness PPE safeguard health of workers by minimizing their exposure to hazards that can cause serious

glasses, safety shoes, helmets, masks or respirators, or coveralls, vests and full body suits electrical, mechanical, or other workplace hazards. PPE include items such as gloves, safety These injuries and illnesses may result from contact with chemical, radiological, physical,

b. Whose responsibility is to provide PPEs?

the duty of the employers, either ULB or a private agency, to provide PPEs to sanitation workers. As per the Prohibition of Employment as Manual Scavengers & their Rehabilitation Act 2013, it is

protocols to ensure safety of sanitation workers. Please refer section xxx for empanelment should empanel all private service providers and ascertain adoption of standard operating Scavengers & their Rehabilitation Act 2013 and smooth monitoring of private agencies, the ULB workers engaged by them. To facilitate enforcement of Prohibition of Employment as Manual engagement. The ULBs should also ensure that private contractors provide PPEs to the sanitation The ULBs should provide PPEs to sanitation workers engaged by them irrespective of modality of

1.2..1 Procurement of PPEs for different sanitation jobs

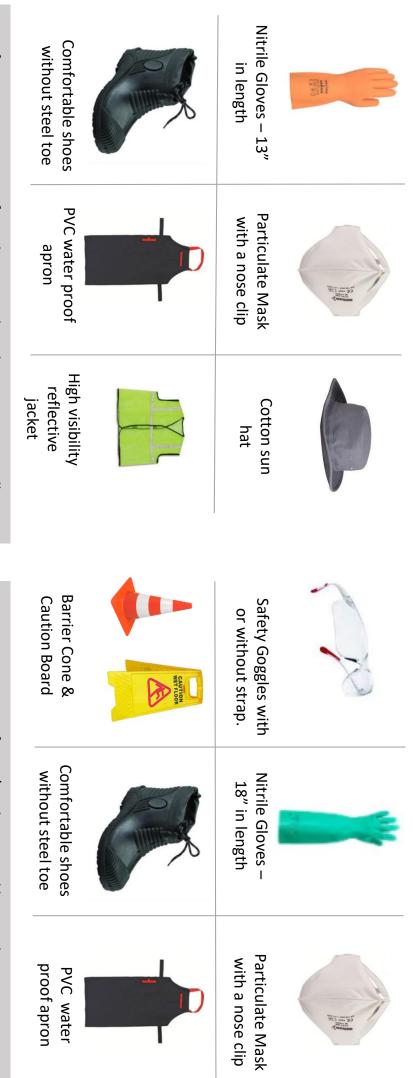
1.2.2 Training for sanitation workers on the use, maintenance, storage and safe disposal of PPEs

1.2.3 Provision of handwash stations and changing facilities at the workplace

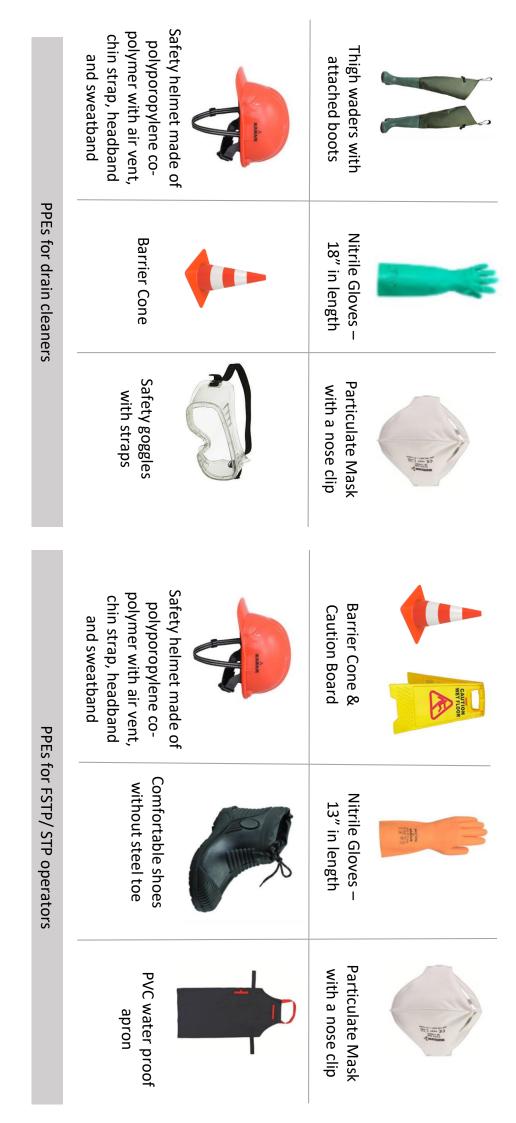
1.2.4 Timely replenishment of damaged PPEs

c. Procurement of PPEs for different sanitation jobs

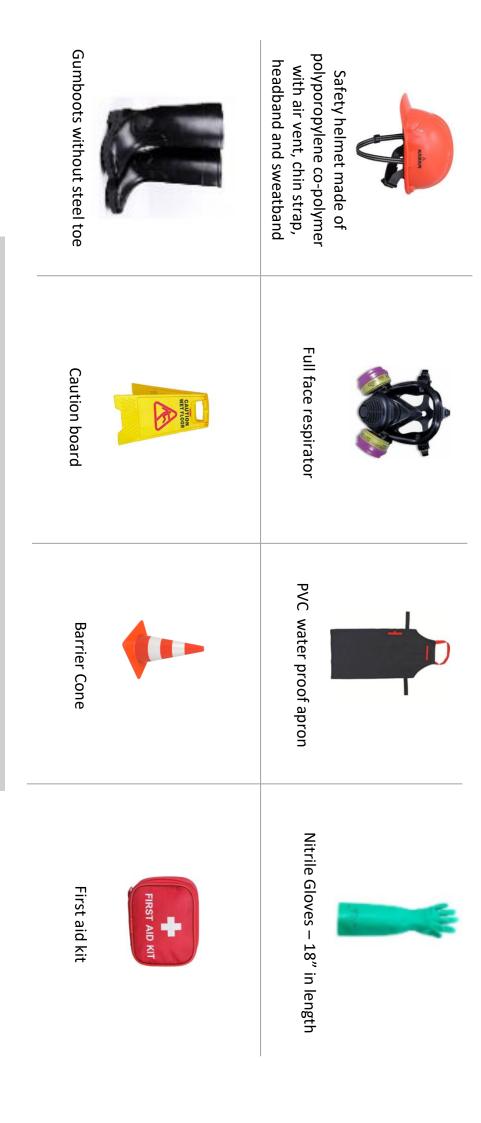
each category of sanitation work and procure relevant PPE accordingly. Rehabilitation Rules 2013, CPHEEO guidelines and advisory prescribe various PPEs. ULBs should ascertain total number of sanitation workers under Each sanitation job requires protection against different set of risks and hazards. The Prohibition of Employment as Manual Scavengers & their



c. Procurement of PPEs for different sanitation jobs



c. Procurement of PPEs for different sanitation jobs



PPEs for desludgers (mechanical)

c. Procurement of PPEs for different sanitation jobs



Safety helmet and head lamp

Breathing apparatus with modular airline supply trolley system

Diver's suit and gum

boots



in length



Gas monitor



Search light Caution board Barrier cone



nylon rope ladder, body harness and safety belt Safety tripod set with



Emergency medical oxygen resuscitator kit

- First aid kit
- Life guard pad

PPEs for sewer line cleaners

d. Training for use and maintenance of PPEs

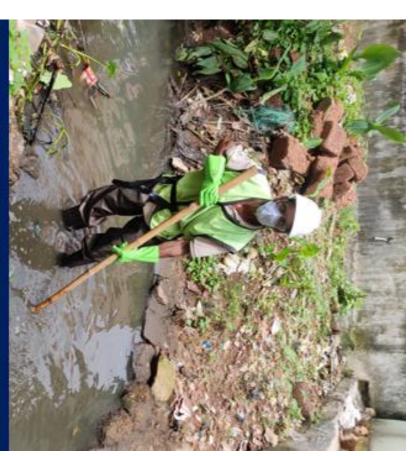
be cleaned and stored properly. PPE should also be safely disposed so that they do not accidents or infections. Improper use can make the users prone to accidents and hinder lead to any contamination of surrounding environment work speed. To prolong the life of PPE and avoid frequent wear and tear, PPEs should If the PPEs are not used properly, they will be ineffective in protecting users from likely

Thus, it is essential that all sanitation workers are trained in the following.

- How to wear PPEs?
- How to remove PPEs?
- Do's and Don'ts of using PPEs
- How to disinfect PPEs after work?
- How to store and maintain PPEs?
- How to safely dispose damaged PPEs?

provides an indicative list of PPE manufacturers and vendors sanitation workforce in a pictorial format. It details material specification and The Government of Telangana has issued a guidelines on "PPE for sanitation work workers. The guideline outlines the types of PPE required for different categories of forces" instructing the ULBs to ensure the safety and well being of sanitation

(Serial no. 40 in the circulars and proceedings tab) To access the advisory, please check https://cdma.telangana.gov.in/1/coir/Grid.aspx



Training of Sanitation Workers on use of Personal Protective Equipment

Refer annexure A for PPE handbook

e. Provision of handwash stations

their workplace. In absence of it: From a rapid assessment study conducted in June 2020, 80% of sanitation workers do not have access to handwashing and changing facilities at

- 1. They are not able to maintain their personal hygiene
- They do not have access to water and soap to clean their PPEs after work
- Especially female sanitation workers do not have access to changing rooms after their shifts

typically go to mark their attendance or certain PTs near their workplace. lockers for workers to store their PPEs. ULBs could make these provisions at the muster station/ ward offices where the sanitation workers ULBs should ensure there are facilities of washing and changing for the sanitation workers at their workplace. There should be provisions for



Low-cost portable foot-operated hand washing facility



Changing facility for sanitation workers

f. Periodic replenishment of PPEs

distribution and ensure PPEs are periodically replenished or provided timely in case of damage, either by ULB or by private employer. ULBs can follow the advised replenishment frequency* as mentioned in the adjacent table. Different PPEs last for different time duration depending on their quality, usage, maintenance etc. The ULB should maintain a register of PPE

PPE	Frequency of replenishment
Gloves	At least once in 2 months
Shoes	At least twice a year
Eyewear	At least twice a year
N95 Mask	At least once in 7 days
Apron	At least twice a year
Helmet	At least once a year
Wader suit	At least once a year
Gumboots	At least twice a year

^{*}Note: The replenishment frequency is suggestive and will vary across various categories and models of PPEs

Sample estimation: Annual cost of PPE for a street sweeper

	Quantity required per	Cost per unit	Total cost (in
PPE	year	(in Rs.)	Rs.)
Gloves	6	95	570
Shoes	1	200	200
Eyewear	2	80	160
Mask	48	45	2160
Helmet	1	320	320
Total cost per worker			3420

Cost per worker per month is Rs. 285

Leading practice

PPE provision in Warangal

The Greater Warangal Municipal Corporation (GWMC) has a total of 2754 sanitation workers. GWMC provided PPEs to all permanent and outsourced sanitation workers instead of relying on private contractors. Additionally, they have been successful in identifying common problems in the usage of PPEs and have resolved them using various strategies as listed in the table below. It has resulted in:

- High morale of sanitation workers due to GWMC's initiatives
- Increased trust between administration and sanitation workers
- No COVID-19 cases reported amongst sanitation workers as of 10 Aug 2020.

 Challenge	Solution
Disposable gloves were not reaching the workers timely	Workers were given reusable, washable gloves that could last 3 months
Workers were using kerchiefs instead of provided surgical masks	Workers were given cloth masks stitched by local SHGs
Workers were not changing out of work clothes once reaching home	Workers will receive 2 sets of work uniforms each.



Minimum Wages

- by the concerned employers employees engaged in the notified scheduled employments minimum rates of wages fixed by the Government to the The Minimum Wages Act,1948 mandates payment of
- All the states issue their own list of scheduled employments
- sanitation workers in their respective schedules Pradesh, Gujarat, Kerala, already have a separate category of States like Tripura, Bihar, Telangana, Jharkhand, Himachal
- workers get a minimum wage the list of schedule employments to ensure sanitation There should be a separate category of sanitation work in
- workers engaged through their contractors as well Once the state notifies minimum wages for sanitation workers, ULBs should ensure its enforcement for all

Employees' Provident Fund

ULBs should ensure that the benefits of EPF are extended to Provident Funds Act, 1952 (19 of 1952). the sanitation worker as per the provisions of Employees'

Registered No. N. E. 930.





EXTRAORDINARY ISSUE Published by Authority

Agartala, Thursday, June 25, 2020 A. D., Asadha 4, 1942 S. E.

PART-I- Orders and Notifications by the Government of Tripura The High Court, Government Treasury etc.

GOVERNMENT OF TRIPURA LABOUR DEPARTMENT

No.F.87 (1)-LAB/ENF/MW/89/3212-25

Dated, Agartala the 3rd June 2020.

NOTIFICATION

Allowance shall be payable with effect from 111-114-211211 by the employers to the workers/employees employment of "Safui Kurmachari" in Tripura as under and directs that the Variable Dearness for the period of six months commencing from 01-07-2019 and ending on 31-12-2019 over the previous 6employed in the aforesaid employment as per the following schedule: monthly average viz. 4811 over. 4788 average Consumer Price Index for the workers engaged in the the Variable Dearness Allowance (VDA) on the basis of 6-monthly average Consumer Price Index Numbers dated 4" June, 2019 and in furtherance of the aforesaid Notification, the State Government hereby revises In continuation of this Department's Notification No.F.87 (1)-LAB/ENF/MW/89/ 2970-83

SCHEDULE

26	1	Average Increase of CPI
SafaiKarmachari	2	Category of workers
Rs 204 00	I	Minimum basic wages (per day)
Rs 1915 Rs 111		Previous
R 111	5	Present VIJA
Rs. 224.00 per duy	6	Tatal minimum rates of wages (3+4+5)

4.9.3 Insurance & disability support

Health insurance

Sanitation workers are exposed to hazardous situations on a daily basis; it makes them and their families vulnerable to health hazards.

- ULBs should provide for health insurance for sanitation workers
- Premium of the health insurance should be borne by the ULB
- Sanitation workers should be linked to national schemes such as Jeevan Jyoti Yojana/ PM Suraksha Yojana

Life insurance

- Scavengers and their Rehabilitation
 Act, 2013 asks employers to provide a
 life Insurance policy of at least Rs. 10
 lakh for the person assigned for
 cleaning of sewer and septic tanks. Its
 premium shall be paid by the employer
- Considering the hazardous nature of sanitation work, sanitation workers should be covered with life insurance
- ULBs should provide for life insurance for sanitation workers
- Premium of the life insurance should be borne by the ULB

Disability support

- Sanitation workers are prone to injuries and infections which may lead to partial and permanent disability
- ULBs should provide for compensation through ex-gratia payment

Leading practice

Garima Scheme in Odisha

the scheme include the following The Government of Odisha has launched a scheme for safety and dignity of sanitation workers on 11th September 2020. The main Components of





Garima

Scheme for Safety & Dignity of Core Sanitation Workers

For protection & welfare of Core Sanitation
Workers dealing with faecal matter in
toilets / septic tank/ sewer and treatment facilities



Government of Odisha
Housing & Urban Development Department

IDENTIFICATION & ENUMERATION OF CORE SANITATION WORKFORCE

SOCIAL SECURITY BENEFITS FOR SANITATION WORKERS & THEIR FAMILIES

- Health & life insurance
- Education grant for brighter future of children
- Support for pucca housing
- Enhancing mobility through twowheeler support

FINANCIAL & SERVICE LEVEL BENEFITS

- Special category of wages
- Risk and hardship allowance
- EPF and post-retirement benefit
- Reduced working hours
- Disability support
- Making alternative livelihoods accessible

SKILL DEVELOPMENT & TRAINING OF SANITATION WORKERS

SAFE WORKING CONDITIONS

- Appropriate PPEs and mechanised cleaning
- Standardised contracts for empowering sanitation workers
- Mandatory registration of private service providers

4.10 Health and safety of sanitation workers

What can the ULBs do to ensure the well-being of sanitation workers?

Provide regular heath check-ups (At least twice a year and this should be frequent in COVID- 19 pandemic context)

- If necessary, provide vaccinations against tetanus, leptospirosis fever and so on.
- Tie up with Primary Health Centers and maintain health records for all sanitation workers.
- Include sanitation workers engaged by contractors as well

2. Mental well being to be checked

 Ensure the mental well being of workers through periodical check-ups organized by the ULBs.

Following should be examined in a health check up:

- Examine medical history
- Examine subjective symptoms and other objective symptoms
- Check height, weight, vision and hearing ability
- Chest X-ray examination
- Blood pressure measurement
- Check for anaemia
- Check for liver functions
- Check for lipids in blood
- Check blood sugar level
- Urine analysis
- Electrocardiogram analysis

Refer: http://cpheeo.gov.in/upload/uploadfiles/files/operation_chapter9.pdf

4.11 Social security benefits for sanitation workers & their families

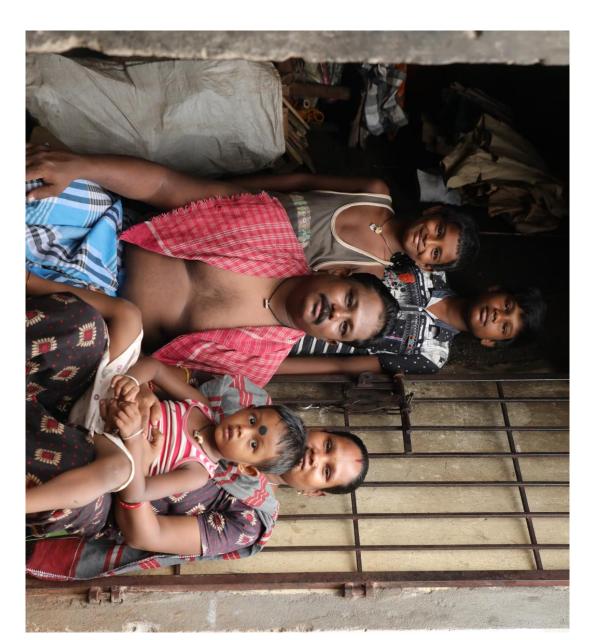
Linkage with government schemes

There are a number of existing government schemes for the benefit of sanitation workers and their families.

- ULBs should map the sanitation workers against the government schemes they are eligible for. This has also been encouraged by the Swachh Survekshan 2021
- Based on the eligibility of the workers, ULBs should link sanitation workers to existing schemes so that they are able to access their entitlements

The ULBs can do the following to link workers with relevant government schemes.

- Organize camps where officers of relevant schemes put up their stalls. They should assist sanitation workers in registering for various schemes
- Use IEC for building awareness about the date of organizing camp and inviting all sanitation workers to attend the camp
- Engage community groups / self help groups to mobilize sanitation workers and participate in the camp
- 4. Ensure sanitation workers on contract are included



National social & financial safety schemes



Visit: https://jansuraksha.gov.in/

Atal Pension Yojana

Convergence

-nulm-convergence-guideline.php

U-LEARN Portal for training on sanitation-based livelihood

U-LEARN: Urban Livelihood e-Learning and Resource Network

The Ministry of Housing and Urban Affairs (MoHUA) is leading a paradigm change in the lives of urban poor through the Deendayal Antyodaya Yojana-National Urban Livelihoods Mission (DAY-NULM).

The U-Learn e-learning portal aims to build capacities of all functionaries of the DAY-NULM Mission (NMMU, SMMU, CMMU, Community Organisers, Community Resource Persons, Resource Organizations, members of Area Level Federations and Self Help Groups and for elected and executive officials of urban local bodies. The U-Learn portal will also serve as a knowledge portal for NGOs and research organizations working in urban poverty and livelihoods sector.

The DAY-NULM work force is highly mobile and they need a learning solution which they can carry with them. Technology-aided learning can help training the DAY-NULM field teams who are mostly out-of-office.

U-LEARN is a one stop place to refer guidelines, advisories case studies on DAY-NULM. U-LEARN is more than just watching a presentation on a computer screen. Through mobile phones, viewers can use a lot of learning content such as easy to understand tutorials in the form of videos, case studies on leading practices, and other reference documents. On viewing the tutorial and successful completion of the quizzes, the viewers will also receive certificates from MoHUA.



Source: https://www.u-learn.in/



Tutorial 14: Shehri Sahbhagita Manch



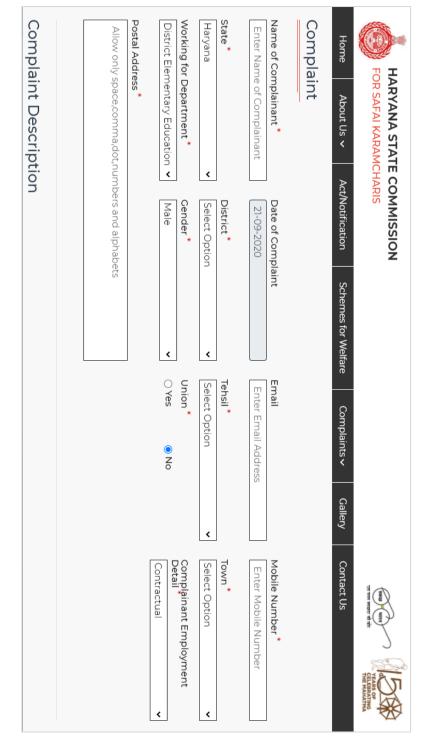
TUTORIAL 11: Ab Hamari Awaaz Suni Jayegi (Our voice will be heard)

What should ULBs do for safety of sanitation workers?

D. Enablers

4.12 Grievance redressal system for sanitation workers

- Under the Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013, State governments are required to designate an authority for taking up grievances of sanitation workers and ensuring their rights are protected
- Currently 8 states have Safai Karamchari Commissions to safeguard the interests of sanitation workers
- Haryana State Commission for Safai Karamcharis has launched an online portal in June 2020 for resolving grievances and complaints of sanitation workers. The commission works with various bodies including the urban local bodies and public health department to ensure sanitation workers get their entitlements like ex gratia payment, EPF etc.
- platform for sanitation workers to raise their issues and that their grievances are redressed in a time bound manner

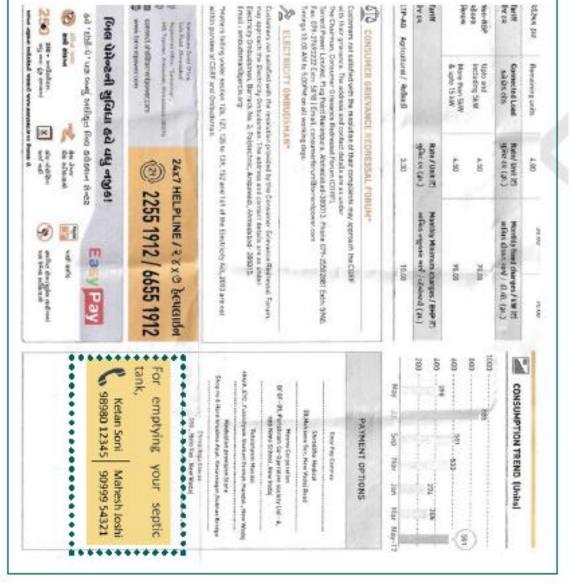


4.13 Sensitizing citizens

Create public awareness about engaging registered desludging services only

Citizen participation is essential in ensuring delivery of safe sanitation work.

- 1. ULBs should sensitize citizens to take services from only registered service providers
- ULBs should take up IEC campaigns to sanitize citizens about the hazardous nature of sanitation work
- There should be a dedicated enquiry number for all sanitation services
- Citizens should have a platform to report any unsafe sanitation work being practiced in the city
- ULBs should use several media platforms to spread awareness about registered desludging services being provided in the city
- Put information of all the registered service providers on the ULB website
- Provide contact information of the local registered sanitation provider at the back of the bills – property tax, water tax etc.



Contact details of service provider at the back of the bill by a ULB in Gujarat

Leading practice

Malasur Campaign for awareness on safe sanitation















Source: https://cdn.cseindia.org/attachments/0.64201700_1592642559_malasur-toolkit.pdf

4.14 Recognition of sanitation workers

working condition. provide. Providing appreciation to the best performing sanitation workers can boost the morale of sanitation workers and create a better Often, sanitation work goes unnoticed by the public. ULBs should acknowledge the importance of sanitation workers and the services they

1. ULBs should set the criteria of performance assessment

ULBs should set the criteria of performance assessment and inform the sanitation workers to build a healthy competition among them. It can include:

- Punctuality
- Regular use of PPEs
- Delivery of quality work within deadline

2. ULBs should incentivize performance

ULBs can incentivize performance of workers by giving them cash rewards, vouchers, awards or displaying the names of well-performing sanitation workers on appreciation boards.

Leading practice

Vouchers to best performing sanitation workers in the city of Indore

In a bid to appreciate citizens spreading awareness and maintaining cleanliness in the city, Indore Municipal Corporation launched the distribution of "Swachh Card". This card has points which can be redeemed every month in shopping malls, restaurant, movie halls, salon, medicine stores and other shops.

Launched in 2019, the Card is distributed to sanitation workers who provide critical services of cleaning Public toilets, door-to-door waste collection etc.





Leading practice

Felicitation of sanitation workers by Greater Hyderabad Municipal Corporation

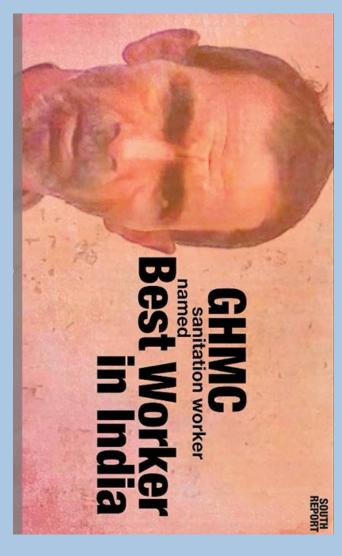
Under Swachh Bharat Mission, ULBs were asked to nominate best sanitary workers based on their performance. T. Venkaiah, a sanitation worker with the Greater Hyderabad Municipal Corporation (GHMC) was named as one of the three "Best worker in India" by the Ministry of Urban Development in 2016.

Additionally, GHMC celebrates first Saturday of each month as 'Good Practice Day'. The event is attended by citizens, elected representatives and ULB officials. Sanitation workers who ensure the city remains clean and NGOs working in the same direction are felicitated.

It encourages the workers and the organisations to continue working to keep the initiatives takes under Swachh Bharat Mission running.

These initiatives have helped the public acknowledge the work of sanitation workers. People have begun to know the workers in their local areas by their name and the workers have reported more respectful behavior from the public.

Source: https://swachhbharat.azurewebsites.net/#/course/170/item/1599







Provisions to be ensured during Covid-19 pandemic

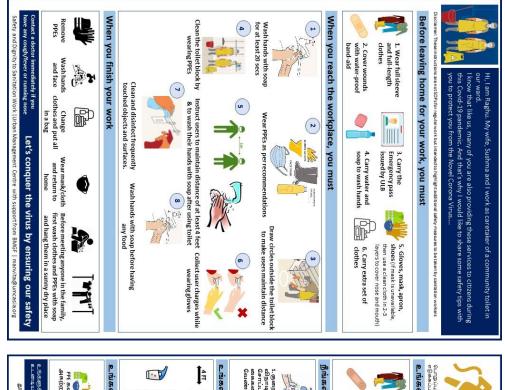
5. Provisions to be ensured during Covid-19 pandemic

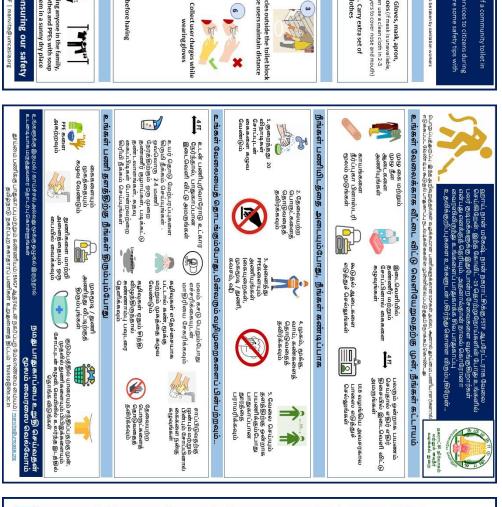
- Thermal screening, regular health check up
- No deduction of wages and provision of additional pay in case of increased work responsibilities
- Physical distancing while training, attendance, work etc.
- Link sanitation workers to CT/ PTs to ensure they have access to soap/ sanitizer and hand washing facilities
- Transportation support during lockdowns
- Provision of adequate PPEs, especially gloves and masks
- Provision of quarantine facility for sanitation workers and their family, in case of contracting Covid-19
- OLBs should utilize untied grants under the 15th FC, AMRUT and other possible sources for supporting sanitation workers and related expenses
- Capacity building of ULB officials for implementation of protocols and guidelines



For further comprehensive resources on Covid-19 pandemic management, refer to this guidebook at https://scbp.niua.org/sites/default/files/1__covid19___safe_sanitation_practicesL_Highlighted_0.pdf

IEC material on safety of sanitation workers during Covid- 19 pandemic





1. कम से कम 20 सेकंड तक साबुन से हाथ धोए

3. दस्ताने, मास्क/ कपड़ा, एप्रन, जूते पहने (पीपीई)

कार्य स्थल पर एक साथ यात्रा करते समय सुरक्षित दूरी बनाए रखें

Omy

जब आप कार्यस्थल पर पहुंचते हैं, तो आपको अवश्य

अनावश्यक वस्तुओं को छूने से बचें

4. चेहरा, नाक, मुह, आंखे छूने से बचे

जब आप अपना काम शुरू करते हैं, तो इन चरणों का पालन करें...

अपने काम के लिए घर से निकलने से पहले, आपको चाहिए

नमरत्ते, मैं महेश हूं। मैं और मेरी पत्नी, लीला एक ठेकेदार के साथ काम करते हैं जो नगरपालिका के लिए घर-घर से कचरा सबह सेवा पदान करता है। महामारी के दौरान मुझे पता है कि हमारी तरह, आप में से कई इस कोविट-19 महामारी के दौरान मोगरिकों को ये सेवाएं प्रदान कर रहे हैं। और यही कारण है कि मैं आपको नोवेल कोरोना वायरस से बचाने के लिए कुछ सुरक्ष पुरित्य आपके साथ साझा करना चाहता हूं।

पूरी आस्तीन और पूरी लंबाई के कपड़े पहने

नगरपालिका द्वारा जारी इमरजेंसी पास ले

5. दस्ताने, मास्क, एपन (यदि मुखौटा उपलब्ध नहीं हैं, तो अपने नाक और मृह को देवने के लिए 2-3 परतों में एक साफ कपड़ें का उपयोग

घाव पर जल रोधक बैंड ऐड लगाएं

4. हाथ धोने के लिए पानी और साबुन लें जाए

6. एक जोड़ी कपड़े साथ रखे

완

A series of posters to raise awareness on safety of sanitation workers during COVID is available on https://umcasia.org/covid-19-resources/

सुरक्षा उपकरण चेहरे और निकालें हाथों को धोलें

कपड़े बदलें और मास्क/कपड़ा परिवार में किसी से मिलने से पहले, कपड़े सभी को एक बैंग पहनें और घर लॉट और पीपीई को साबुन से धोएं और उन्हें में रख दें आएं धूप में सूखें स्थान पर लटका दें

1

आइये, सुरक्षा सुनिश्चित करके वायरस पर विजय प्राप्त करें

खांसी /बुखार या नाक बहने पर तुरंत डॉक्टर से संपर्क करें

मुरक्षा और स्वच्छता कार्य के लिए गरिमा | BMGF के समर्थन से अर्बन मेनेजमेंट सेंटर द्वारा।

जब आप अपने मूल ट्रांसफर स्टेशन/वार्ड कार्यालय इत्यादि पर लौटते हैं तो

नागरिकों से अपना कचरा वाहन या आपके इस में सीधे फॅकने के लिए कहें

जब तक आपको नगरपालिका द्वारा स्थित नहीं किया जाता है तब तक क्वारटाइन किए गए घर से कचरा इकट्ठा न करें

कड़े कचरे को उठाने के लिए शीट / पैन का उपयोग करें

शार युक्त कपरे को उठाते समय अतिरिक्त सावधानी बरतें, यानि आइसकीम स्टिक आदि

2. नागरिकों से न्यूनतम 4 फीट की दूरी रखें

गेट खोलने के लिए हॉर्न बजाएं

4. नंगे हाथों से इस्टबिन और कचरे को न फुए

6. नागरिकों से एक अलग बैंग में मास्क और दस्ताने का निपटान करने के लिए

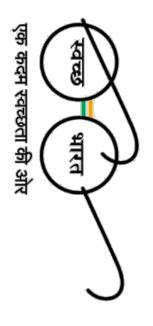


Swachh Survekshan 2021

6. Swachchh Survekshan 2021 - Indicators for sanitation workers' safety

With an objective to encourage cities to improve urban sanitation, Ministry of Housing and Urban Affairs (MoHUA) conducts annual 'Swachh Survekshan' survey for rating the cities.

The sixth edition of the survey includes various indicators targeted specifically for improving safety of sanitation workers.





6. Swachchh Survekshan 2021 - Indicators for sanitation workers' safety

Benefits extended to all sanitary 1.3 Give recognition to sanitary 1.2 Provide Personal Protective 1.1 Link them with government schemes (at least 3) Equipment (PPE) (60 marks) workers workers Refer 4.1, 4.10 Refer 4.8.1 **Refer 4.13** 2.2 Train ULB staff 2.1 Train sanitary workers Capacity building of sanitation workers and ULB staff (30 marks) Refer 4.6 Refer 4.7 3.3 Ensure desludging vehicles 3.2 Train all desludging staff operators 3.1 Register private desludging Registration, training & monitoring capacity capacity meets the demanded of de-sludging operators, sewer maintenance staff (55 marks) Refer 4.4 Refer 4.2 Refer 4.2

3.4 Inform citizens about registered desludging services Refer 4.12

3.5 Ensure manual entry into sewers/ septic tanks is not practiced Refer 4.5

Annexures

A. PPE handbook

B. Sanitation worker survey form



Training of Sanitation Workers on use of Personal Protective Equipment



Topics covered

- Introduction
- PPEs for different sanitation jobs
- Order of wearing the PPEs
- Process of wearing and removing the PPEs
- Order of removing the PPEs
- Safe Disposal of PPEs
- Maintaining Hand Hygiene

Source: https://umcasia.org/whatwedo/wash/?preview=true

Purpose of the handbook

includes the carrect process of donning & daffing PPEs, its the correct use of personal protective equipments (PPEs). It maintenance as well as disposal. We have made this handbook to guide sanitation workers on

It covers PPEs for the following category of sanitation workers:

- Street sweepers
- Door to door waste collectors
- Public & community toilet cleaners Open drain cleaners
- Fecal sludge treatment plant and sewage treatment plant operators
- Desludgers (mechanical)





Introduction

- You, as a sanitation worker, are exposed to occupational health and safety hazards. The work involves risk of coming in contact with hazardous biological and chemical agents
- PPEs are a crucial barrier between you and disease-causing agents at the work site
- It has been observed that the usage of PPEs is low. Fellow sanitation workers of yours have shared major reasons for perform work, involves additional cost and maintenance this- wearing PPE causes discomfort, reduces efficiency to



Introduction

- Due to the COVID-19 pandemic, everyone has started habit of using other personal protective equipment as well uncomfortable, we have developed a habit in order to wearing masks regularly. Even though it was protect ourselves. Similarly, there is a need to make the
- study is completed, continue using PPEs during work-hours miners, construction workers etc. Hence, even after the like yours also wear PPEs for their protection. For example, Workers in other industries who work in difficult situation
- wearing PPEs. But it will protect you from injuries and It might take some time to get used to working while diseases. Your safety and good health is of prime

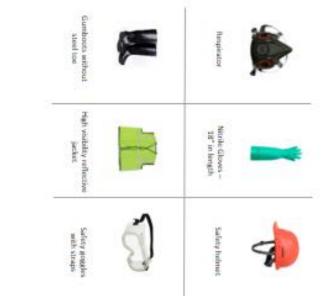






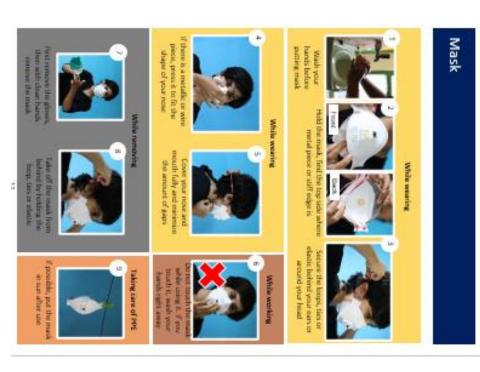


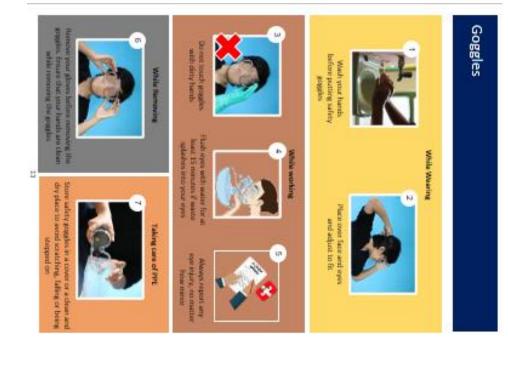


















Wader Suit



Gumboots





Order of removing PPEs after work



While using PPEs, always ensure

To keep gloved hands away from face

To avoid touching or adjusting other PPE while working

w To limit surfaces and items touched

4 To keep the PPEs out of reach of children. Do not let children play with the PPEs

Disposing PPEs

- You should always throw discarded PPEs in bio-medical bins (yellow coloured bins)
- If the bin is not available, please wrap your used PPE properly in a bag, mark it with red colour and throw it in a dustbir
- Please wash your hands after disposing the PPE



How to maintain hand hygiene?

critical times Always clean hands with soap and water or sanitizer at these

- When you reach your work-station
- Before you start wearing PPEs, especially mask and gloves
- During breaks, especially before you are going to drink tea or water and have food
- After your break is over
- After you remove all PPEs, especially mask and gloves
- After changing work clothes
- After reaching home



to

This is an indicative form and may be modified by ULBs to fit their needs.

Survey Form / Self-Identification Form- Sanitation Worker

1.	1. Name of the applicant: Mr/Ms	
2.	Address:	
	a. Name of slum/ society/ govt. colony	
	b. Ward No.	
	c. House/ plot no	
	d. Landmark	
·ω	٥	
4	Number of years of stay in the locality:	
5.	Aadhar ID:	
6.	6. Telephone/ Mobile No.:	
7.	Email Id:	
.00	Age:	
9.	9. Gender: Male/ Female/ Transgender	
10.	10. Social background: SC/ST/OBC/General/Others	

 c. Antyodaya Ration Card (Yes/ No) i. If yes, what is the Antyodaya ration card no.? 	i. If yes, what is the BPL ration card no.?	b. BPL Ration Card (Yes/ No)	i. If yes, what is the APL ration card no.?	a. APL Ration Card (Yes/ No)	17. Does your family have the following?	d. Other schemes	c. Biju Swasthya Kalyan Yojana	b. Employees Service Insurance	a. Ayushman Bharat Pradhan Mantri Jan Arogya Yojana	If yes, which scheme are you registered with:	16. Are you covered under any health or life insurance scheme? Yes/ No	15. Do you or any family member have internet service in your phone? Yes/No	14. Do you or any family member have a smartphone (android phone)? Yes/No	d. Branch name:	c. IFSC code:	b. Account No.:	a. Bank name:	If yes, please share the following details:	13. Do you have a bank account? Yes/ No	12. Economic category: APL/ BPL/ U. Poor/ Others, Specify	Graduate/ Post-graduate	TT. FARCALLA CARROLL STATES INC. Electric (2005) T-// Class 0-TZ/ Diblottia of Lectrifical Education/	11 Education Status: Not literate/Class 1-7/ Class 8-13/ Diploma or Technical Education/
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18. Do you have a caste certificate? Yes/ No

a. If yes, what is the certificate no.? _

19. Do you have a motorized two-wheeler? Yes/ No

20. What sanitation related work do you perform?

						category	
						Any other sanitation	10
						Rag/ waste pickers	9
						Dry latrine cleaner	00
						collector	
						Door-to-door waste	7
						Street Sweeper	6
						and community toilets	
						maintenance of public	
						Operation and	5
						sludge treatment plants	
						treatment plants/ faecal	
						maintenance of sewage	
						Operation and	4
						Open drain cleaning	3
						maintenance	
						Sewerage network	2
						sanitation systems	
						Desludging of onsite	Ľ
		Choose one			7		
	busare montanon	Wage/ Jaimani)-			options		
	private institution/	Contractual/ Daily		,	relevant		
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employed	government/ ULB/	Employment	experience	earned per	mark against	;	No.
No. of days	Employer (Central	Type of	No. of years of	Avg. wages	Please tick	Type of sanitation work	s.

- 21. Are you engaged in any alternate non-sanitation livelihoods too? Yes/ No
- a. If yes, please share what and since how long?
- Dependent family members

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_			Income		Qualification	with	Status	on	(M/F/T) on		No.
Name Gender Age (as Marital Relationship Education Current Monthly Requirement if any, for	if any, for	Requirement i	Monthly	Current		Relationship	Marital	Age (as	Gender	Name	s.

Codes: Marital Status: 1. Married 2. Unmarried 3. Divorced/Widow

Relationship: 1. Father 2. Mother 3. Brother 4. Sister 5. Grandfather 6. Grandmother 7. Father-in-Law 8. Mother-in-Law 9. Self 10. Son 11. Daughter

Wife 13. Husband 14. Others (Specify)_

Education: 1. Illiterate 2. Primary 3. Middle 4. Secondary 5. 10+2 6. Graduate and above 7. Diploma

Occupation: 1. Agricultural Labour 2. Housewife/husband 3. Student 4. Farmer 5. Wage Labourer 6. Self-employed 7. Permanent Sanitation worker in Government 8. Contractual/Casual Sanitation Worker 9. Other Service/Job 10. Others (specify)......

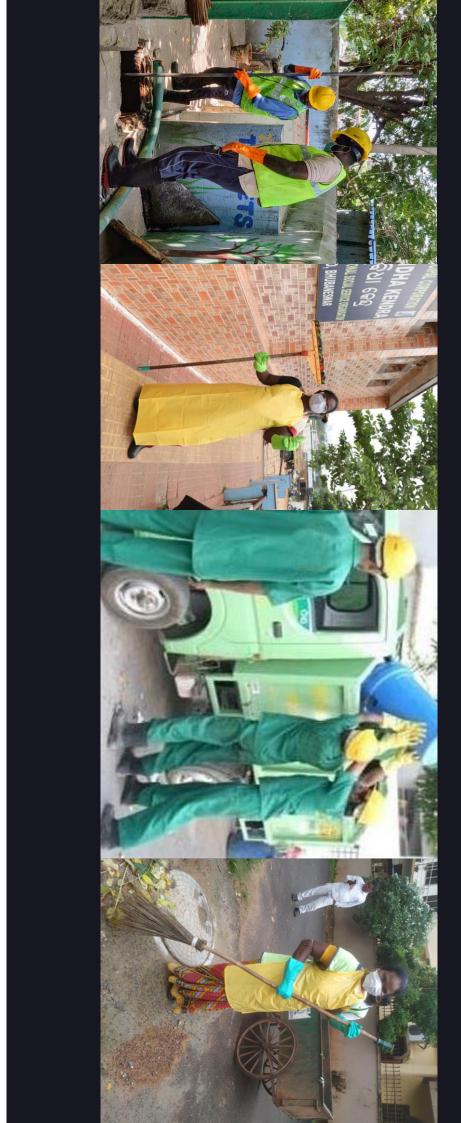
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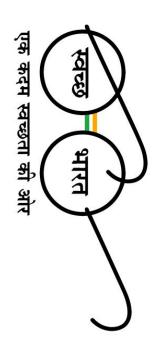
Signature/ thumb print of the sanitation worker

Name of enumerator Signature

Additional Resources

- %20Advisory%20on%20Water%20and%20Sanitation%20Services.pdf Sanitation Services During Covid-19 Crisis", Available at: http://mohua.gov.in/pdf/5edf84915e23aCOVID%2019%20-9 Central Public Health And Environmental Engineering Organisation (CPHEEO) (2020) "Advisory on Safe Management of Water Supply and
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