Handbook for Sanitation Workers on use of Personal Protective Equipment
Urban Management Centre is a non-profit organization dedicated to building resilient systems for inclusive and equitable development. We work with governments to strengthen local governance and build lasting institutional structures. We also work directly with vulnerable people to ensure that they have the tools and support they need. Over the last 25 years, UMC and its teams have developed fundamental innovations in urban and rural development challenges such as performance assessment, capacity building, and decentralized institutional strengthening. UMC has worked extensively with the Ministry of Housing and Urban Development to facilitate e-learning for their teams, as well as for ULB officials. We are the E-Learning Secretariat for both the Swachh Bharat Mission as well as the National Urban Livelihoods Mission.

For more information, visit our website: www.umcasia.org or mail us at : info@umcasia.org

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Name: __________________________________________
Phone No: ______________________________________
City: ________________________

Notes

Reference


About this handbook

We have made this handbook to guide sanitation workers on the correct use of personal protective equipments (PPE). It includes the correct process of wearing & removing PPE, its maintenance as well as disposal. PPE if not used properly can cause accidents instead of preventing them. This Handbook lays down critical things to be taken care of while using PPE. This Handbook draws from various acts, guidelines, advisories and reference documents like prohibition of manual scavenging, safaimitra suraksha challange, and the Garima scheme implemented in odisha.

It covers PPE for the following category of sanitation workers:

a) Community / Public toilet cleaner
b) Sewage or Faecal sludge treatment plant operator / Septic tank emptier (mechanical) or desludgers
c) Drain cleaner
d) Solid waste collectors and treatment plant operators

We are thankful to all the sanitation workers for providing us their valuable information and allowing us to photograph them.
Topics covered

1. Why do you need PPE?
2. Required PPE for Sanitation worker
3. Who will wear what?
4. What to wear first?
5. What to keep in mind while wearing PPE?
6. What to take off first?
7. How to dispose of PPE?
8. How to maintain hand hygiene?
1. Why do you need PPE?

You, as a sanitation worker, experience many injuries and accidents due to harmful gases and liquids as well as a lack of proper safety equipment. You may experience infections, breathing problems, and other health problems due to the harmful chemicals and biological agents present in the drain or septic tank or in solid waste.

Personal Protective Equipment (PPE) helps to protect you from such infections, injuries, and related health problems. PPE is crucial for you to safely perform your job roles.

However, many sanitation workers are not used to these PPE. We know that sometimes PPE is not comfortable due to incorrect size, material, and maintenance hassle. But ‘Your safety comes first’.
1. Why do you need PPE?

Due to the COVID-19 pandemic, everyone has started wearing masks regularly. Even though it was uncomfortable initially, we have developed a habit in order to protect ourselves. Similarly, there is a need to make the habit of using other personal protective equipment as well.

Workers in other industries who work in difficult situation like yours also wear PPE for their protection. For example, miners, construction workers etc. Sanitation work is also hazardous in nature. Hence, it is essential that you wear PPE during work-hours.

It might take some time to get used to working while wearing PPE. But it will protect you from injuries and diseases. Your safety and good health is of prime importance.

Source - Fire Department, Ahmedabad Municipal Corporation
Source - Businessinsider, December-2021
2. Required PPE for Sanitation worker

- Helmet
- Goggles
- Mask
- Reflective jacket
- Full body protective clothing
- Nitrile gloves
- Protective shoes/Gum boots/Wader suit
3. Who will wear what?

a) Community/ Public toilet cleaners

1. Full body protective clothing
2. Particulate mask with nose clip
3. Safety goggles
4. Nitrile gloves
5. Protective shoes with steel toe
3. Who will wear what?

b) Sewage treatment plant/ Faecal sludge treatment plant operators/ Septic tank emptiers (mechanical)

1. Full body protective clothing
2. Particulate mask with nose clip
3. Safety goggles
4. Safety helmet
5. Nitrile gloves
6. Gum boots with steel toe
3. Who will wear what?

c) Drain cleaners

1. Full body protective clothing
2. Particulate mask with nose clip
3. Safety goggles
4. Safety helmet
5. Nitrile gloves
6. Thigh waders with attached boots
3. Who will wear what?

d) Solid waste collectors and treatment plant operators

- Cap
- Mask
- Reflective jacket/uniform provide by ULB
- Nitrile gloves
- Protective Shoes
4. What to wear first?

Please ensure that your PPE are clean before wearing them

1. Put on Full body protective clothing / uniform
2. Put on mask
3. Put on goggles
4. Put on gloves
5. Wear protective shoes / gum boots / wader suit
6. Wear helmet / cap
5. What to keep in mind while wearing PPE?

5.1. Do’s and Don’ts of wearing a mask

While Wearing

1. Wash your hands before putting mask
2. Hold the mask, find the top side where metal piece or stiff edge is
3. Secure the loops, ties or elastic behind your ears or around your head

While Working

4. If there is a metallic or wire piece, press it to fit the shape of your nose
5. See that your nose and mouth are fully covered with the mask
6. Do not touch the mask while using it. If you touch it, wash your hands right away

While Removing

7. First remove the gloves, then with clean hands remove the mask
8. Take off the mask from behind by holding the loop, ties or elastic
9. If possible, put the mask in sun after use

Taking care of PPE
5. What to keep in mind while wearing PPE?

5.2. Do’s and Don'ts of wearing goggles

**While Wearing**

1. Wash your hands before wearing goggles.
2. Place over face and eyes and adjust to fit.

**While Working**

3. Do not touch goggles with dirty hands.
4. If waste splashes into your eyes, flush eyes with water for at least 15 minutes.
5. Always report any eye injury, no matter how minor.

**While Removing**

6. First remove your gloves than remove the goggles. Ensure that your hands are clean while removing the goggles.

**Taking care of PPE**

7. Store safety goggles in a cover or a clean and dry place to avoid scratching or falling.
5. What to keep in mind while wearing PPE?

5.3. Do’s and Don'ts of wearing gloves

**While Wearing**

1. Wash hands
2. Dry hands before putting on gloves
3. Avoid touching your face, once you have worn gloves

**While Removing**

4. Pull one glove by holding the outside from finger tips. Never touch the bare skin with gloved hand
5. Remove the second glove by putting your fingers inside the glove at the top of your wrist
6. Continue pulling the glove down bringing the inside-out

**Taking care of PPE**

7. Wash your gloves after work with soap/detergent and dry them
8. 
9. Do not use gloves if they are damaged/torn
5. What to keep in mind while wearing PPE?

5.4. Do’s and Don'ts of wearing helmet

While Wearing

1. Wear the helmet right way round. Tighten the headband.

2. Tighten the chinstrap so that there are no chances of the helmet falling.

3. Helmet should be straight, should not slope towards your face or backwards.

While Working

4. Never touch the helmet with dirty hands.

While Removing

5. Check the helmet regularly for any signs of damage.

Taking care of PPE

6. Regularly clean your helmet with a wet cloth. Clean with water and use mild soap if required.

7. Do not store the helmet in direct sunlight or near hot surfaces.
5. What to keep in mind while wearing PPE?

5.5. Do’s and Don'ts of wearing gumboots

**While Wearing**

1. Clean your feet and dry them before wearing the gumboots

2. Do not touch your gumboots with bare hands

**While Working**

3. Clean your gumboots with water after completion of the work

4. After work, remove your gumboots with gloved hands

**While Removing**

5. Do not use brushes or abrasive cloths to clean the inside of your gumboots

6. Dry them in shade

Taking care of PPE
5. What to keep in mind while wearing PPE?

5.6. Do’s and Don'ts of wearing Wader suit

<table>
<thead>
<tr>
<th>While Wearing</th>
<th>While working</th>
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<tbody>
<tr>
<td><strong>1</strong> Clean your feet and wear the wader suit with gloved hands</td>
<td><strong>2</strong> Do not touch unclean waders with bare hands</td>
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<tr>
<td><strong>3</strong> Clean your wader suit with water after completion of the work</td>
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<tr>
<td><strong>4</strong> After cleaning only, remove the wader suit with gloved hands</td>
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<tr>
<td><strong>5</strong> Do not use brushes or abrasive cloths to clean the inside of your waders</td>
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<td><strong>6</strong> Rinse off your waders with clean water after use</td>
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<td><strong>7</strong> Hang the waders either upside-down or lay them flat to dry. Do not store your wet waders</td>
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</table>
6. What to take off first?

Please clean your PPE after work and ensure they are dry before storing them.

1. Remove protective shoes / gum boots / wader suit
2. Remove Helmet
3. Remove Gloves
4. Remove Goggles
5. Remove Mask
6. Remove the full body protective clothing and take bath
While using PPE,

1. Never touch the face with gloved hands

2. Avoid touching or adjusting other PPE while working.

3. Avoid touching unwanted surfaces and items

4. After using the PPE, store them in a place that is out of reach of children. Do not let children play with the PPE.
7. How to dispose the PPE

- You should always throw discarded PPE in Medical waste bins (yellow coloured) or Domestic hazardous waste bins (Red coloured).

- If the bin is not available, wrap your used PPE properly in a bag, mark it with red colour and throw it in a dustbin.

- Please wash your hands after disposing the PPE.
8. How to maintain hand hygiene?

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

- When you reach your work-station.
- Before you start wearing PPE, 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 PPE, especially mask and gloves.
- After changing work clothes.
- After reaching home.