

## WASH BASIN MATE

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### Abstract

Patients Can't Move From One Place To Another After Their Surgeries And At Home Old People Can't Move So We Have To Over Come This Problem By This Project The Person Can Himself Do His Work Without Any Problem And Any Effort Patients And Old People Are Benifitted So Much Everywhere in the hospital lot of people unable to move to wash their face and brush after having surgeries and at home old people can't move so we have to overcome this problem. The main aim of our project is to help the patients to complete their needs without any help of other. The main aim of our system is to build a portable wash basin mate so that it completely movable, low maintenance, easy to use .it helps to wash hands without visiting washroom

### 1. INTRODUCTION

Infectious diseases and viruses, such as COVID-19, can be transferred from one person to another by touching contaminated surfaces. While washing hands frequently is the best method to stay safe, you can still contract viruses by coming in contact with surfaces of the washroom. we can avoid that by wash basin mate .it is a hand washing unit where there is no touching of hands by others in this pandemic situation and it is mobile too.

### 2. RELATED WORK

It is a Hand and Arm Washer which is specially designed for the disabled or one-armed person to assist them to wash their hands and arms in an easier and convenient way. Its lower end is secured with a flipped over mechanical vacuum cup to evacuate the air from underneath so that it is rigidly secured on the basin. It consists of the series of inverted, interchangeable bags in which the bags are made up of form fitting terry wash cloths and towel material to use for soaping up,

rinsing, rubbing and drying operation. The central vertical opening formed is opened on the upper end of form and the lower part is communicated with a sideward nipple connected to one end of rubber hose while the other end is connected to the wash bowl faucet so that the water can flow through when the device is in use. Hence, the user can rub, soap up, rinse off and dry his hands against the bag-covered form in a convenient way. This basin can be set up easily and removed for normal person to use in home.

### 3. IMPLEMENTATION

Everywhere in the hospital lot of people unable to move to wash their face and brush after having surgeries and at home old people can't move so we have to overcome this problem. The main aim of our project is to help the patients to complete their needs without any help of other. The main aim of our system is to build a portable wash basin mate so that it completely movable, low maintenance, easy to use .it helps to wash hands without visiting washroom

#### Materials required:

- 1) wash basin
- 2) pipes
- 3) water storage tank
- 4) waste water collecting tank
- 5) paint
- 6) wheels

7) iron rods

#### Methodology

In this project, we are going to show you how to make a movable wash basin mate using iron rods and using sink and in addition to that we have developed water collecting tank and water storage tank. The wash basin is designed to move by using wheels. The steps to be followed for implementation of wash basin mate:

#### Connecting iron rods

First iron rods are taken and it is made into a table of height of 3 feet and it is welded

#### Placing sink and water tanks

Placing the tanks so that it will not fall or disturb from its place .sink is placed in such a way that it is below the water storage tank and waste water collecting tank is placed side to it

#### Fixing pipe to the sink and to the waste water collecting tank

Here we are connecting pipe to the sink and waste water collecting tank so that waste water from sink is carried out from sink to the tank by using pipe

#### Painting the rods

Final step is to paint the rods and left for drying

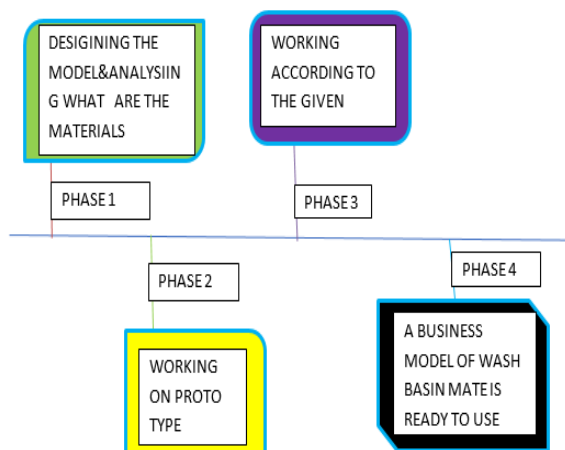
### 4. EXPERIMENTAL RESULTS

The project is designed in such a way that sink is placed in such a way that below it a bed can pass under through it and it can be useful to patients in hospitals

.Maintenance and refilling is easy and it is mobile ,place it any where without any additional cost or effort and easy to maintain



**Design Description**



**5. CONCLUSION**

By this project patients and old people are benefited, Human effort in moving can be reduced since the wash basin mate mobile In this covid times there will be no

touching of hands of other patients, Virus will not spread from one person to another person, Our project can be extended by making automatic movable wash basin mate, It can be extended like controlling with our mobile using Wi-Fi or some other platforms

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