

# Sedimclean™



## **Domestic Water Tank Cleaning Machine**

### **Operational Manual**

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**Dear Customer,**

Thanks for purchasing this innovative product. The aim for this product development is for achieving followings.

1. Reduce water wastage
2. Save electricity
3. Reduce physical efforts,
4. Reduce tank cleaning time
5. Independent work,
6. In addition, improve hygienic condition of water tank.

We the team “**Sedimclean**” wishes you to achieve same aim. Before using the machine, please read the safety information and operation instructions completely. You may also download the video at [www.sedimclean.com](http://www.sedimclean.com).

Your feedback to us after use of this machine at [info@sedimclean.com](mailto:info@sedimclean.com), will give us opportunity to serve you better in future.

Thanks.

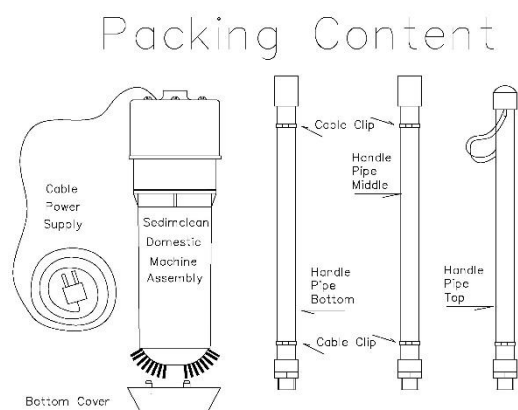
Team **Prayosha Innovative**

**Vadodara. Gujarat India.**

## Packing Content

1. Tank cleaning machine assembly
2. Bottom handle pipe
3. Middle Handle Pipe
4. Top handle pipe
5. Operational and Safety Manual
6. Warrantee Card

### Image 1 Packing content



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## Important Instruction

Please read operational manual completely before operating machine. Also, for better product use clarity please view complete video demonstration at our product website video page.

[www.sedimclean.com](http://www.sedimclean.com)

## Specification

- Application :- Sediment deposition cleaning in domestic water storage tank
- Power Supply :- 230 V AC 50 Hz
- Power Consumption:- 50 W Approximate
- Cable Length :- 4 meters Approximate
- Filter Media Rating :- 5 microns
- Filtration area :- 690 square cm
- Filter Media :- PP Nonwoven Filter Cloth
- Continuous usage time :- Maximum 20 minutes and then filter cleaning
- Empty weight of unit: - 2.4 Kg Approximate.
- Water filled weight of unit: - 4.2 Kg Approximate.
- Suitable for water tank depth :- 600 mm to 1800 mm maximum
- Suitable for Water Tank Capacity :- 500 Liters to 2000 Liters
- Materials of Construction: :- Poly Propylene, Rubber, Stainless steel & Nylon

## Product Features

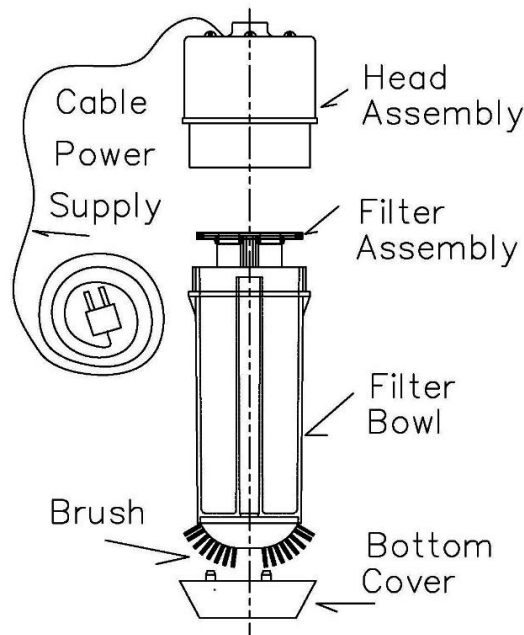
- Works in water filled tank only.
- Water supply continuity during cleaning of water storage tank
- Avoids water wastage
- Tank cleaning without entry inside the tank.
- Works without chemicals or consumables.
- Easy to operate with self-service design.
- Tank cleaning within few minutes.
- Very low power consumption.
- User friendly, even women can operate.
- Compact and lightweight design with Silent operation.

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- One machine suitable for 500 to 2000 liters capacity water storage tanks.
- Patent applied & Design Registered.

## Image 2 :- Product parts Identification

### Parts Names



## Safety precautions & important instructions for using machine

1. Use the machine for specified application of deposited sediment removal from domestic water storage tank only as described in this manual; any modification or other use will void the warranty.
2. Use this machine with single-phase 220 V AC power supply only with 3 wire system. Do not use machine without earth leak protection.
3. Electrical components are not repairable, for replacement please call service provider or manufacturer.
4. Keep cable end dry and away from water source.
5. Do not operate it in dry, empty, or partially water filled condition where machine cannot submerge completely in water.
6. Do not insert or remove machine from tank in power switch on or machine in operating condition.
7. To reduce the risk of injury or electricity, use this product by adults only, do not allow children to operate, play or touch the machine when in operation.

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8. Do not operate machine in under volts or over volts.
9. Connect to Power source after complete inspection of machine and its cable. Do not use if cable is having damaged insulation.
10. Make sure the Sedimclean Domestic machine is unplugged from its power supply before removing the unit from water or performing filter cleaning.
11. To avoid damage to the power supply and cord, never carry the machine by the cord or pull on the cord.
12. Do not pull cord around sharp corners or edges during shifting or use.
13. When machine is in tank for cleaning and power is on, keep hands away from water and dry for electrical safety.
14. Disconnect the power supply from the outlet when not in use.
15. DO NOT switch the machine to “ON” if it is not immersed in the water. Operation of machine out of the water may cause severe damage and will result in loss of warranty.
16. Use genuine spares only for better performance.
17. Recommended to clean machine and check the filter to make sure it is free and clear of debris after every use.
18. This machine may not give better performance for locations where sediment particle size is less than 5 microns. This machine will clean the tank but it may increase turbidity in tank water. In such case, please contact your area's authorized dealer or company for required technical support.

## **Unpack the box and assemble for use**

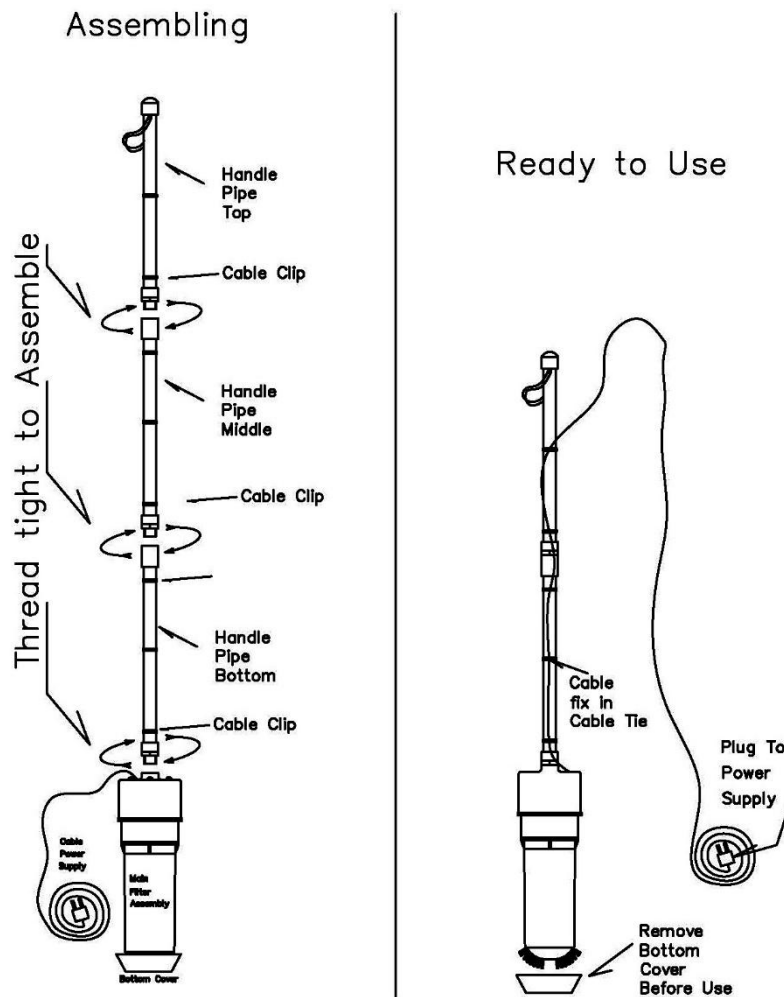
Please follow following sequential steps.

1. Remove plastic wrap from all components.
2. Verify that all components are safe without any damage.
3. Connect bottom handle pipe to machine top portion by thread fitting.
4. Connect second / third handle pipe to first handle pipe by thread fitting.
5. If the tank depth is less than 1600 mm. (For 1000 Liters capacity tanks), only 2 pieces of handle pipes are sufficient.
6. If tank depth is more than 1600 mm (for @ 2000 liters capacity tanks) use all three handle pipes to assemble machine.
7. Fix power supply cable in cable grip on handle pipes.
8. Open threaded bowl and remove filter assembly to rinse in clean water before first time use.
9. Check tightness of filter bowl with head assembly.
10. Remove bottom brush cover from machine.

Now machine is ready for use. For more clarity you may refer following

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Image 3 for pictorial view of assembling sequence.



## First time use

Please make sure for following sequential parameters before use.

1. Water tank for cleaning should have water level sufficient to submerge the domestic model machine. Here minimum water level in tank should be 450 mm (1½ feet) & maximum up to tank's overflow point. This machine operates equally well in both the conditions.
2. Make sure that rated power supply is live & it should be at approachable distance for easy operational movement of machine.
3. Avoid water makeup in tank during cleaning operation by stopping water supply pump or by closing inlet valve.
4. Remove brush protection cover by pulling down.

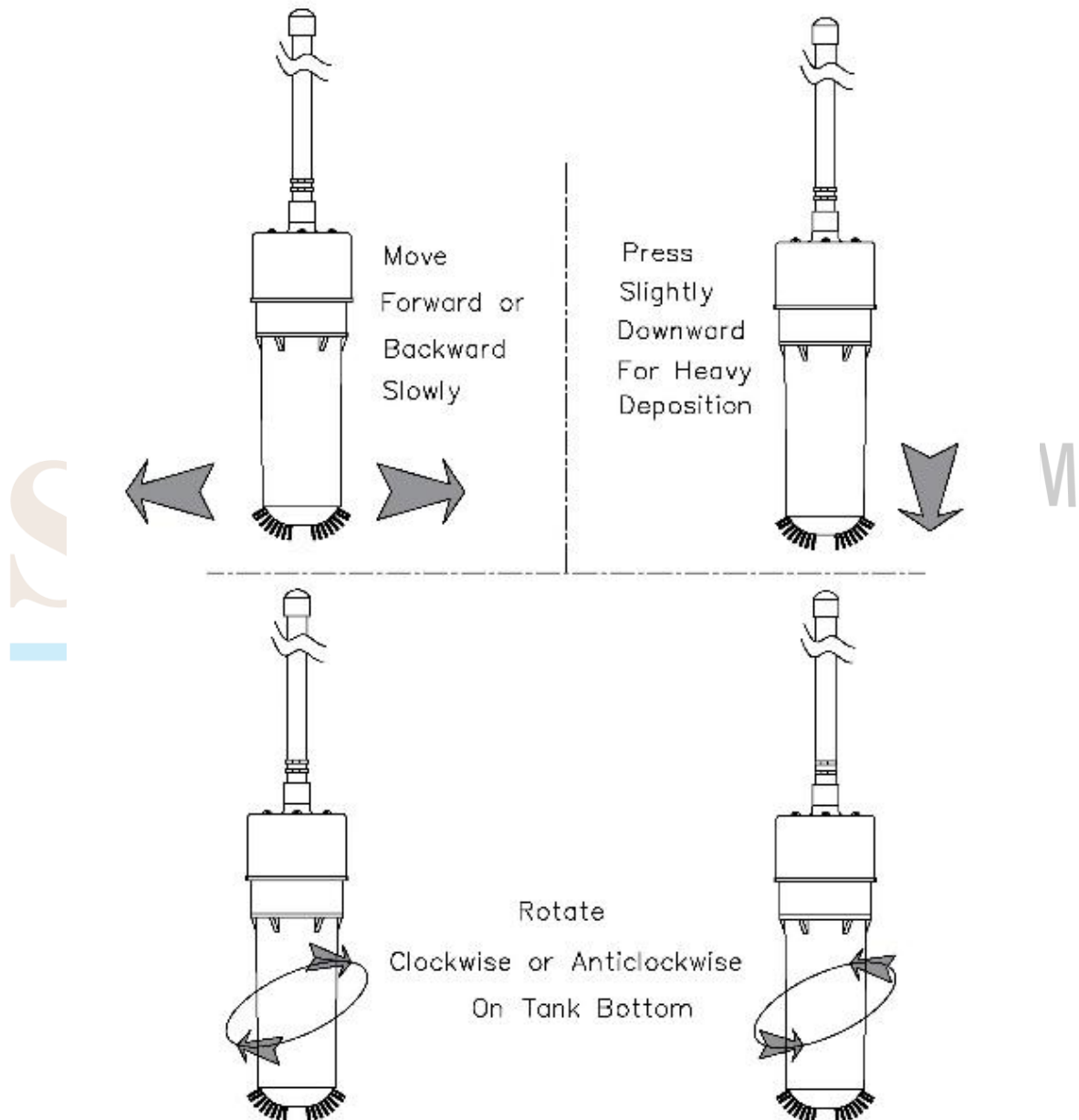
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5. Insert machine slowly in water tank without disturbing tank bottom settled sediment.
6. Water bubbling will start from machine top to replace air content from machine body. Wait until removal of complete air content in the machine. This will take about 2 to 3 minutes. Slightly move the handle top with keeping machine in same location to remove the complete air content.
7. Now start power supply, initially few air bubbles will come out from machine top.
8. Slowly move the machine to deposited sediment portion. Please note that during tank cleaning operation, the machine should be resting on tank's bottom only. Do not lift or jump from one to another location, just pull or push with sweep action on tank's bottom. If sediment is sand based, you may move machine speedily without mixing sediment in water tank. However, if sediment is clay like fine dust, there is more chances of mixing it with tank water if machine moved fast. This may increase our tank water turbidity.
9. For soft & light sediments, do not move machine fast, just put in on tanks bottom and allow it to clean its bottom and surrounding area. Then move it gently over other surrounding area. Please make sure that machine movement should not disturb settled sediments.
10. Move forward slowly with absorption of bottom depots from tank.
11. For hard deposition, rotate the machine clockwise or anticlockwise on same location until it loosens & get absorbed in machine. Please continue until tank bottom looks clear at bottom of machine.
12. If sediment is having heavy particles just like sand, slightly push the handle to suck it from its position with required movement of machine.
13. We do not recommend using any chemicals for tank cleaning with this machine. If by mistake tank water is disturbed by operational mistake, please allow it to settle for 5 to 6 hours. After settling of sediments, you may use machine again to complete remaining cleaning work. For quick settling of sediments, user may use alum or suitable option.

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View **Image 4** for pictorial details for movement of machine in tank during cleaning operation.

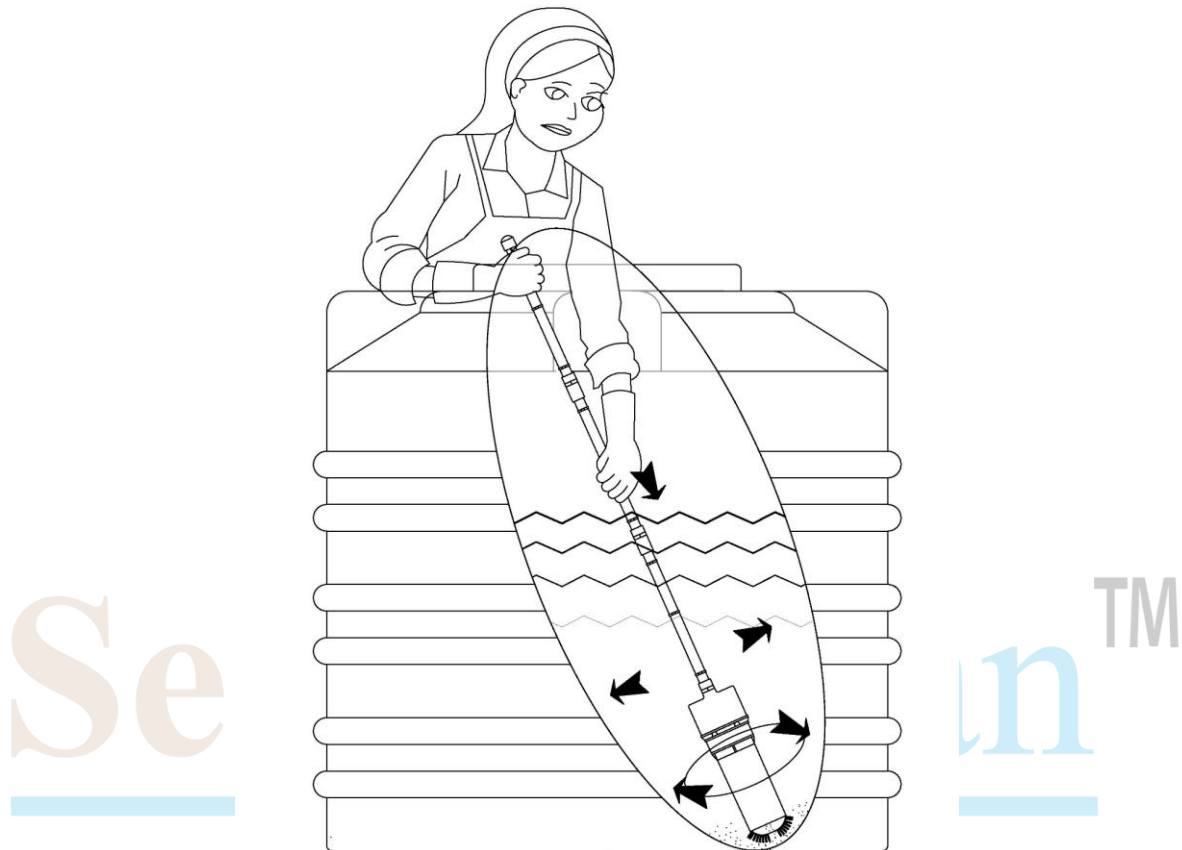
## Operational Movements





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**Image 5** Water Storage Tank Cleaning with “Sedimclean” domestic machine. Sketch illustrates different movement of machine in water tank.



## **Filter Cleaning**

Internal water filter cleaning needs to carry out during following situations.

1. For long time storage
2. After cleaning of tank
3. During cleaning of tank

During filter, cleaning following different methods are preferred.

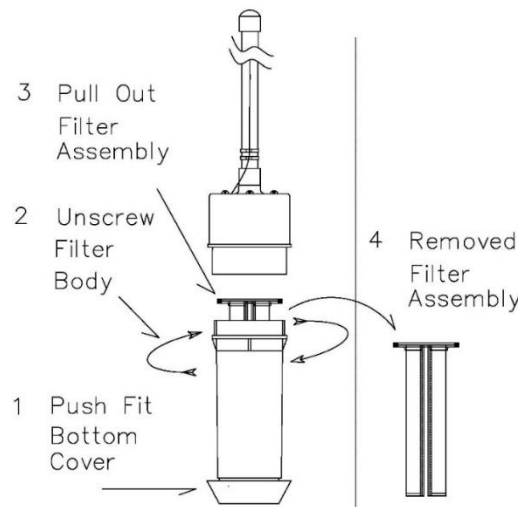
1 Keep upper side holes of filter under tap water and rub it from outside by hand. Fresh water will remove deposited particles by reverse flow of water from filter inside to outside.

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2 Use clean water filled small bucket, which will allow complete submerge of filter assembly. Scrub softly by hands to remove visible deposits. Finally clean with fresh water. Now filter media is ready for re use or you may allow it to dry it in sunlight for storage.

Refer **Image 6** for pictorial view for removal of filter assembly from machine.

## Filter Removal for Cleaning



The dusty or muddy water may be best suitable for tree or small plantation. If it contains sand particles, use for landfill with appropriate disposal. Draining of sediment in house hold drain line may chock up drain piping, hence please avoid it.

**Note:** - Do not pull or push filter during cleaning. Handle it carefully. Excessive pressure or any abnormal pull may damage filter, which may need immediate replacement. Do not use machine without filter, as it will damage machine soon.

## Storage for long time

Users advised, do not keep machine in wet condition for storage after use. After every use, please clean & dry the filter media. Allow machine to drain out all water content and wipe out with dry cloth. Please pack the machine in box for storage. Store machine in cool and away from sunlight.

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## Do not use tank-cleaning machine for following application

1. **Industrial application.** ( This is only domestic application model, For Industrial application please contact us with liquid specification and application details )
2. **Chemicals or solvents.**
3. Water with **abrasives particles** content in very high concentration.
4. Water with solids size more than **5 mm**.
5. Removal of **floating impurities** from water tank.
6. **Muddy water.** Machine cannot lift mud or highly dust, sand concentrated water, which cannot flow as water.
7. **Water with turbidity.** This machine cannot remove turbidity from water.
8. For tanks which is having **very high & thick deposition of sludge or sediment.** For such tanks, we also recommend to empty out & clean once by other suitable methods. Afterwards during regular cleaning, use only domestic machine regularly as per your water quality.
9. Do not use this machine for cleaning of **drinking water** as final filtration machine.
10. This machine cannot remove **color** impurities from water.
11. Do not use continuously for more than **20 minutes**, please check filter regularly at an interval of **15 to 20 minutes** when in operation.

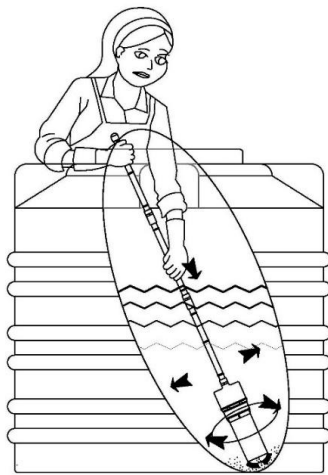
## Tank Preparation for cleaning

1. The tank to be cleaned should be minimum water level of 450 mm (1½ feet) or filled completely.
2. Do not clean the water tank which is having low water level machine will not submerge completely in water.
3. Do not plan to clean tank during water makeup, this may disturb bottom settled sediment.
4. If possible, plan for tank cleaning after 4 to 6 hours of water makeup. This time will allow sediment to deposit completely.
5. Do not move the machine in water with speedy movement; it may disturb settled impurities, which may increase tank water turbidity.
6. If permissible, add Alum (Aluminum sulfate) in powder form to speedup sediment settling process. This will fast settling process as well as it will reduce tank-cleaning time. Recommended only for high turbid water,

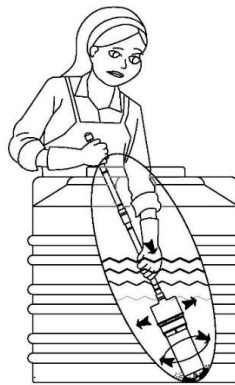
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which remains non-clear after few hours of natural settling. The approximate quantity of Alum is 10 to 15 grams for 1000 liters capacity tank

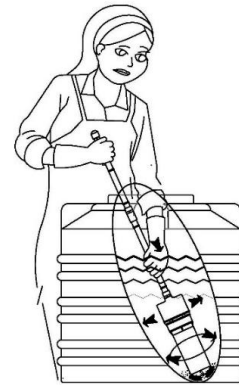
**Image 7** Shows one machine suitable for different sizes of water storage tanks.



2000 Ltrs.



1000 Ltrs.



500 Ltrs.



**Note** :- Actual product may vary slightly from given images, packing or design as a part of our continuous improvement in product performance.

**For Service / Spares please visit**

**<http://www.sedimclean.com>** to locate your nearest authorized dealer.

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Manufactured By :- **PRAYOSHA INNOVATIVE**. Vadodara. Gujarat.