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Gangajal R.O.



Introduction

Gangajal R.O. Systems the prestigious from the unit of “Gangajal R.O. Systems Pvt. Ltd.” The only trusted brand in the revolution water industry from five years. It has highly effective & reliable system of water purification. Fulfilling the necessity of million of people all over country. We are a leading Company Involved in Various kinds of water purification systems and having a healthy experience of more than 10 year's, we have a vast clientage spreading across privates government institutions. We are experienced group of professional and fast growing company providing world class services & water Treatment Technologies Each project's designed to fulfill specified requirement with long term high performance with emphasis on high quality engineering.

Gangajal R.O. Target capturing international market. To know more about how your Gangajal R.O. safe guard your child's health do read the rest of this manual. Should you have and further question

Visit www.gangajalro.com



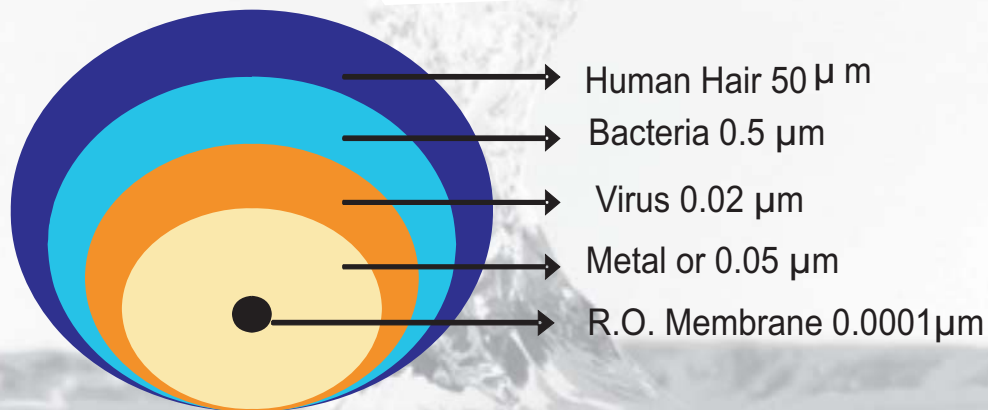


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What is Reverse Osmosis Technology ?

Reverse Osmosis:- it's multi-stage Advance water Purification Technology. It's convert to hard water into sweet soft and pure bottled quality water. R.O. is a membrane filtration process in which the water is passed. Under high pressure through a thin film composite (TFC) membrane with .0001 Micron Pore size. The output of the membrane is purified water, free from micro-organism and with reduced 90 to 95% Total Dissolved Solids (TDS). Bacteria & Virus to level of 99% ++.



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How Does your Gangajal R.O. work ?

The Gangajal R.O. 7 Multi -stage Purification process is as follows

Stage No.	Filtration	Material	Benefit
1.	Particulate Filter*	Polypropylene Yarn Wound	Removes large visible impurities
2.	Membrane Life Enhancer	Special Sodium Hexametaphosphate Cartridge	Prevents scaling of dissolved salts like calcium and magnesium thus enhancing the membrane life and improving water flow.
3.	Sediment Filter	Polypropylene Melt Blown	Removes suspended particles such as dirt, sand, sludge, grit and rust from water.
4.	PC Silver Nano	Bacteriostatic Silver Surety technology	Removes excess chlorine and organic impurities. It also absorbs taste and odour from the water.
5.	Reverse Osmosis & UF	Thin Film Composite (TFC) Reverse Osmosis Membrane	Reduces TDS, hardness, Pesticides and heavy metals like arsenic, lead, Iron and mercury, And removes micro-organisms like bacteria, virus, protozoa and cysts.
6.	PC Bio-ceramic Minerals	Bacteriostatic Bio-Ceramic Activated Granular Carbon	Removes residual organic impurities and unique silver release technology the original taste of water. Advanced purification process from Bio-ceramic Minerals with essential minerals Silver impregnated carbon granules polish the water giving it a sparkling look making it pure and great to taste.
7.	U.V. Sterilization (E-boiling)	8 Watt ultra-violet	Finally 7 stage removes Biological impurities U.V. radiation effective enough to disintegrate the DNA of the biological form, specially coliform bacteria and other forms of harmful pathogens. The water stays in this stage for 10 Secs. This treatment has been documented as a proven method for eliminating water borne disease causing bacteria and viruses.

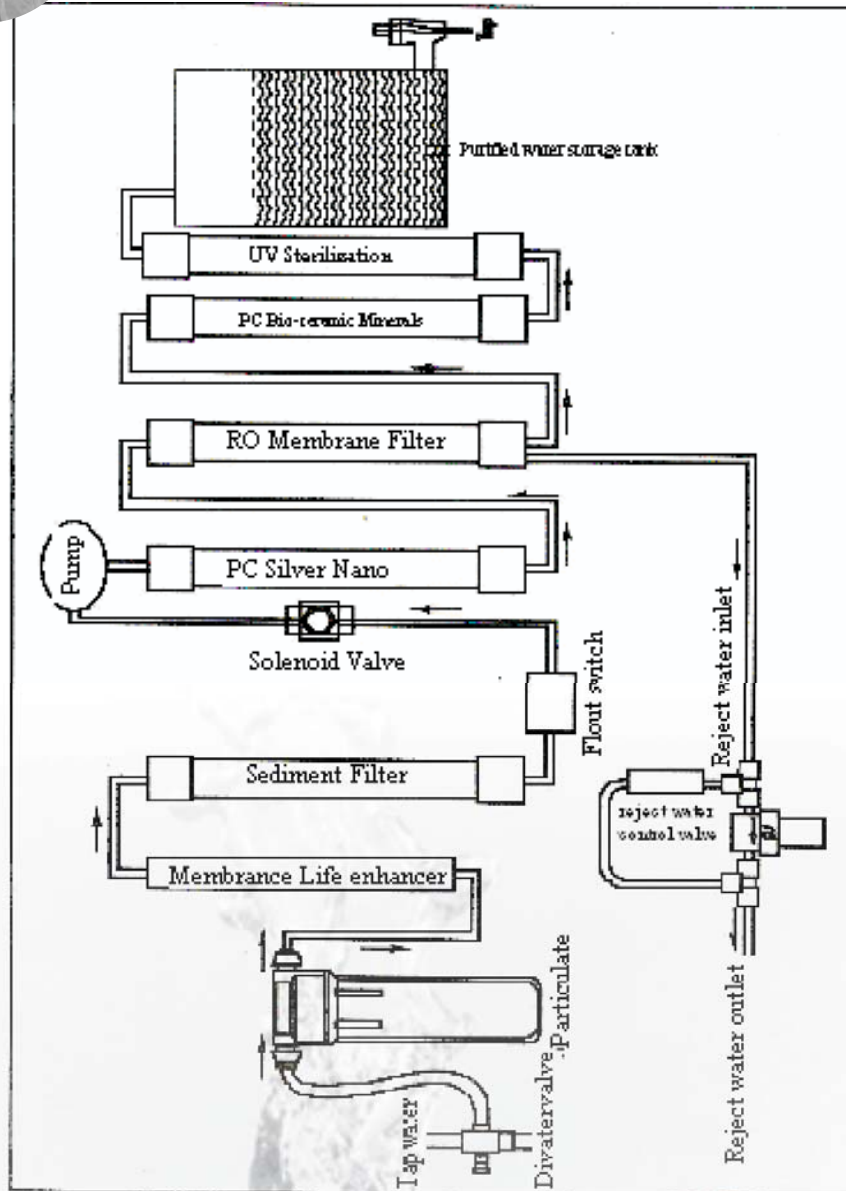
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How does your Gangajal R.O. functions with Diagram ?



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What is the Gangajal R.O. Advantage with contaminants ?

Gangajal R.O. is a unique blend of form and function the result of years of research it revives the original taste of water lost due to high concentration of total dissolved solids (TDS) hardness and heavy metal contaminants like arsenic, lead and mercury

Chemical Constituents (in water)	Requirement (desirable limits) is 10500-1991 drinking water specifications	Harmful effects produced when chemical constituents exceed desirable limits
Total Hardness as CaCO ₃ mg/ltr, max.	300	Formation of a white layer on the surface of water supply structures and adverse effects on water usage for domestic purposes.
Total Dissolved Solids mg/ltr, max.	500	Beyond this palatability decreases and may cause gastrointestinal irritation.
Iron As Fe mg/ltr, max.	0.3	Beyond this limit, taste and appearance are affected. It also leads to corrosion
Chloride as Cl mg/ltr, max	2.5	Beyond this limit, taste and appearance are affected. It also leads to corrosion
Nitrate as NO ₃ mg/ltr, max	45	Beyond this Methaemoglobinaemia (Blue Baby Syndrome) takes place, Methaemoglobin is an enzyme in the human body which gets converted into Haemoglobin. A low concentration of this enzyme leads to mixing of oxygenated and deoxygenated blood, resulting in the change of colour to blue.
Fluoride As F mg/ltr, max.	1.0	Fluoride should be kept as low as possible. High fluoride may cause fluorosis.
Mercury as Hg mg/ltr, max.	0.001	Beyond this limit, the water becomes toxic.
Arsenic as As mg/ltr, max.	0.01	Beyond this limit, the water becomes toxic.
Lead as Pb mg/ltr, max.	0.05	Beyond this limit, the water becomes toxic.
Pesticides mg/ltr, max.	Absent	Beyond this limit, the water becomes toxic.

Your Gangajal R.O. makes water both chemically and microbiologically potable by reducing hardness, TDS, heavy metal contaminants like arsenic, lead, mercury and by removing micro-organisms. Consequently, the essence of purity for healthy life by Gangajal R.O. water.

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What is the Dangerous Impurities in Water ?

Pure water is most essential for healthy life.

The quality of water is deterioration day by day. We need lot's of pure water to stay healthy life. The human body is made up to 75% water & drinking pure healthy water can help us easily improve every aspect of our healthy after all, water performs many vital functions of the body. Over 700 organic chemicals have been identified in the drinking water and some of them are linked to cancer, birth defects. Neurological disorder and host of many infections and deformations of body parts. It is contaminated with the below mentioned. Impurities more than reason enough for you to be concerned only 7 multistage Gangajal R.O. Triple Anti Microbiological Technologies protects you from:

- (1) Physical Impurities
- (2) Toxic chemical impurities
- (3) Microbiology impurities.
- (4) Dissolved impurities

What is the Dangerous Water Borne Disease Impurities Removal comparison Chart ?

Dangerous Water Borne Impurities Removal Comparison

Contaminates	Caused Disease	Gangajal RO	Boiling	U.V. Rays	Ozone
Calcium	Kidney Stone	Yes	No	No	No
Flouride	Flourisis (Bending of Bones)	Yes	No	No	No
Bacteria	Joundice, Cholera	Yes	Yes	Yes	Yes
Virus	Viral Diseases / Darrhea	Yes	No	Yes	Yes
Sodium	Heart Diseases, B.P.	Yes	No	No	No
Nltrate / Copper	Indigestion Dysentry	Yes	No	No	No
Arsentic	Poisoning	Yes	No	No	No
Herbicide	Hepatitis	Yes	No	No	No
Lead	Mental & I.W. Retardation	Yes	No	No	No
Chlorinedioxide	Anemiain / irritation	Yes	No	No	No
Magnesium	Digestive Problems	Yes	No	No	No
Mercury (Inorgamic)	Kidney Damage	Yes	No	No	No
Insecticides & Pesticides	Cancer	Yes	Yes	Yes	Yes

Yes:- Remove, No:- Does not Remove

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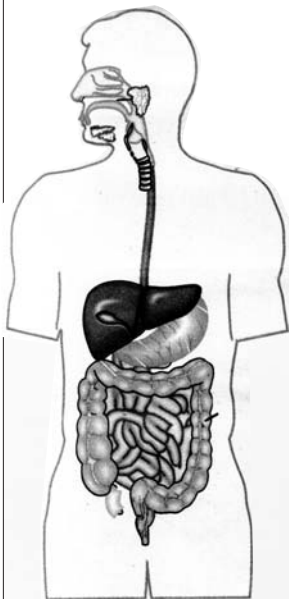


What is the + phenomena ?

More energy + Safety + Health + Purity + Trust + Knowledge + Quality + Service + Satisfaction = **Peace of Heart & Mind**

How do you that about 75% water in part of body ?

Water is a fundamental part of our lives. "A healthy Brain lives in a healthy body." We need lots of Pure water to stay healthy. We can exist without food for 2 months or more, but we can only service for a few days without water. The average adult body is 55 to 75% water. 2/3 of your body weight is water. The water you drink literally becomes you! Since such a large percentage of our bodies is water, water must obviously figure heavily in how our bodies many vital functions. Pure water is most essential for healthy life.



75% of your brain is water

75% of your heart is water

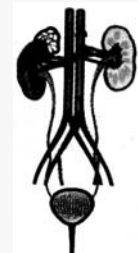
86% of your lungs is water

83% of your kidneys is water

75% of your muscles is water

83% of your blood is water

93% of your liver is water



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What is the 100% confidence in purity of water ?

The Confidence of 100% Gangajal R.O. purity.

Water processing technology all across the world is passing through a sea-change. Reverse Osmosis Technology is now the most favoured method water purification in households in Europe. And for good reason. A 7 multi-stage process + Bio-ceramic minerals R.O. with U.V. sterilization it renders water 'more-pure' than any other method by removing even the most stubborn impurities including cancer causing and debilitating pesticides, heavy metals, fluorides, arsenic etc.

The water you get

The tap water in India is often hazardous with contaminants ranging from Pesticides, Fluorides to Heavy Metals like Lead, Mercury and Arsenic besides dangerous micro organisms. Even the branded bottled water is not above risk.

The water you can get

Gangajal R.O. is the trusted terminator of pesticides, toxic chemicals, micro-organisms and many more invisible contaminants of water. What's more, it reduces Total Dissolved Solids (TDS) and hardness, transforming saline and brackish water into pure, sweet water. Gangajal R.O., is a product of Gangajal R.O. System Pvt. Ltd. commitment to world class quality and service.

Great for cooking food! Cuts down cooking time and cost. Brings back the natural flavours and taste of home cooking!

Gives you clear sparkling ice cubes Enhances the refreshing taste of hot and cold beverages.

Gangajal R.O. System ensures hazard free infant food and drinks.

The Tea Test - Make a cup of tea with ordinary water and then make a golden brew with Gangajal R.O. Systems. The difference is clear.



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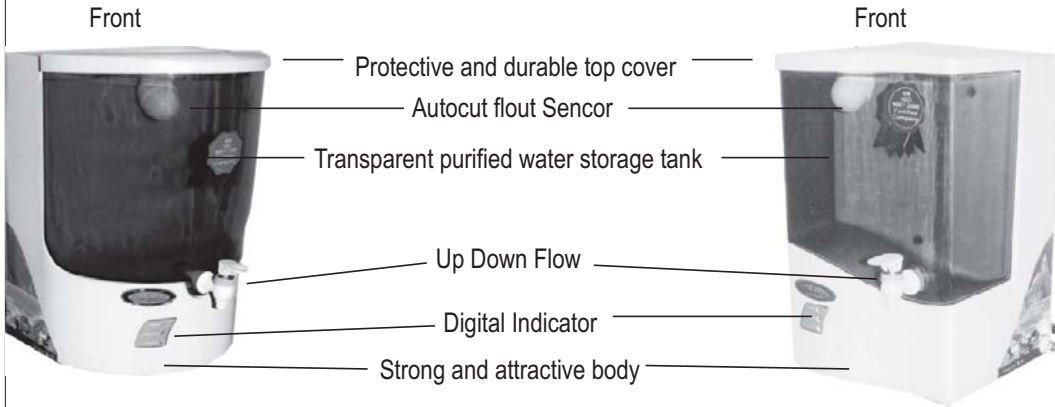


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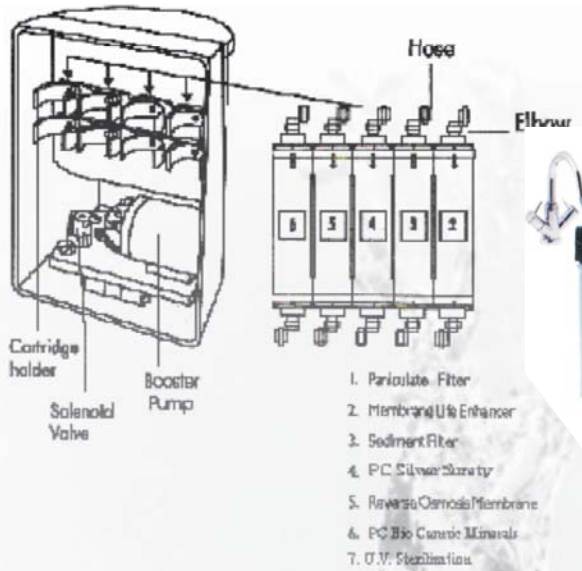


Diagram of the Gangajal R.O. Front & Back View ?

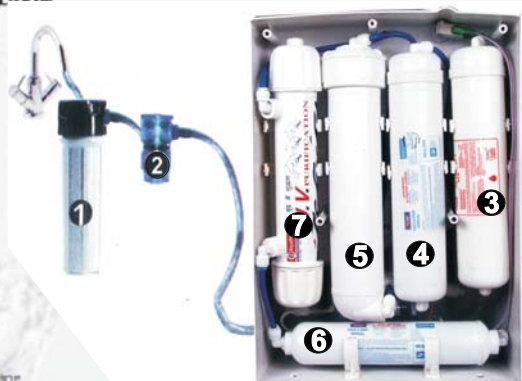
Diagram of the Gangajal R.O. Front & Back View ?



Inside



Inside





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What is Unique Features of Gangajal R.O. Systems ?

A World Class Technology

BIO-CERAMIC MINERALS R.O.TM

Double & Triple Anti Microbiological protection Technologies

BIO-CERAMIC MINERALS R.O. + U.V. + Silver Nano

Gangajal RO super ultimate is a 7 multi-stage purification with wall mounted & counter-top water purifier based on reverse osmosis, the most effective method of purifying water.

A unique high capacity TFC R.O. / U.F. Membrane filter, able to combine compact design with a flow of truly pure water of 10 liters per hour.

High quality silver impregnated activated carbon cartridge for high chlorine absorption and better membrane life

Aqua-Energizer a unique benefits Bio-ceramic technology converts water molecules into high energy micro water molecules which can be absorbed better by the human body.

U.V. Treatment this stage finally stage just before you draw the water for drinking, it's purified with effective UV sterilization (with e-boiling)

Fully Automatic operation with auto-start and auto-off

Wall mounted & portable design with In-Built- Storage Tank

No loss of essential minerals

Led indicators for ease of use.

Iron & Arsenic remover

What is Installation and Precautions ?

Installation & Precautions is using the Gangajal R.O. purifier

Make sure that your Gangajal R.O. is installed by our Trained service Technician.

Input water must be tested for Total Dissolved Solids (TDS)/hardness.

Install your Gangajal R.O. in a dry, ventilated place.

Keep it away from direct sunlight, heating devices or areas below freezing temperatures.

Connect it to only cold tap water.

Filters can be damaged if connected to hot tap water.

Make sure that the tap water pressure is between 5 psi and 120 psi (0.34 - 8.0 bar),

The proportion of purified and reject water flow is preset at 1:3.

Make sure that the reject water hose is placed lower than the top of the purifier.

if not, water might flow back into the purifier.

Make sure that the purifier is installed within the distance of 1.0 m from the tap water supply.

This purifier is for 230 V only, so make sure that you connect it to a 230 V power outlet.

Do not install the purifier in a place where water or rain could leak into it.

After installation, discard the first filling of the water from the storage tank,

Do not place any heavy or sharp objects on the top of the purifier.

Drain the water in the tank if it hasn't been used for over 2 days.

Keep it away from flammable place.

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(a) How to maintain your Gangajal R.O. Water Purifier ?

Ensure replacement of the Particulate Filter, Sediment Filter and Membrane After Approximately 6000 litres of water usage (or if choked).

Ensure replacement of Pre-Carbon Filter After 3000 litres of water usage.

Ensure replacement of Post-Carbon Filter after 12000 litres of water usage.

(Replacement will be done by our trained Service Technician.)

Do not pull or push the water

Dispensing lever with excessive force.

Ensure that the reject water valve is cleaned thoroughly by our Trained Service Technician.

(b) How to clean the Water Tank ?

Close the tap water Valve.

Unplug the power cord.

Open the top cover and push the lever up to drain the tank.

Wipe the inside of the tank with a soft cloth and a special tank-cleaning solution.

Do not tilt the purifier more than 10 degree.

Keep the top cover in place

Open the tap water valve for refilling the storage tank with purified water.

Discard the first filling of the water from storage tank after cleaning.

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(c) How to clean the Particulate Filter ?

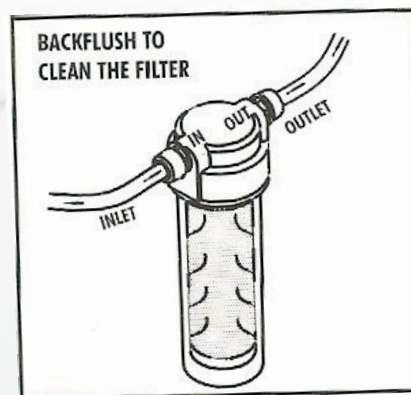
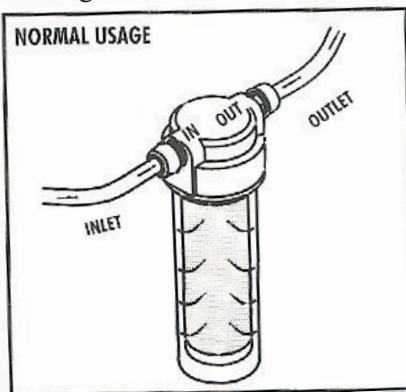
Close the tap water Valve.

Hold the top of the filter, push downward and separate it from the cold water pipe.

Clean the Filter by backflushing.

How to backflush the filter

1. Disconnect the EVA tubes from the inlet and outlet sides of the Filter
2. Connect the tube from the tap to the outlet nozzle.
3. Leave the other nozzle of the filter open.
4. Turn the tap on to maximum pressure.
5. Let the water flow into the sink for about 10 minutes.
6. Reconnect the inlet and outlet nozzle as before.
7. Do not by mistake interchange the inlet and outlet of the filter as this may clog the candle.



(d) Tips for a long relationship with your Gangajal R.O. ?

Get your Gangajal R.O. serviced regularly by our trained/ authorized service technicians only.

Ensure that you replace with genuine spare parts.

Simple maintenance and hygiene around your Gangajal R.O. will always help it function better.

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(e) Check points before calling our Service Department ?

Problems	Check Points	Solutions
Problems	<ol style="list-style-type: none"> 1. Is the storage tank clean? 2. Have you kept the purified water in the tank for too long? 3. Is it time to change filters? 	Clean the storage tank. Dispose of water and clean the tank. Call our service department.
Water tastes bad.	<ol style="list-style-type: none"> 1. Is the tap water valve closed? 2. Is the tap water temperature too low? 3. Filters may be clogged or damaged. 	Open the tap water valve. If so, the amount of purified water will be reduced. Call our service department.
There is too much or too little water being purified.	<ol style="list-style-type: none"> 1. Is there water in the tank? 2. Is tap water supplied? 3. Is the tap water valve closed? 4. Not sure what is wrong? 	Check the storage tank. If tap water is not supplied, closed the tap water valve and switch off the machine. Open the tap water valve. Call our service department.
Water doesn't flow out Water is leaking,	<ol style="list-style-type: none"> 1. Is water coming out of the top cover of the purifier? 	Close the tap water valve, unplug the power cord and call our service department.

Water is rapidly depleting resource. It is our moral responsibility to ensure that water is recycled as much as possible. The water flushed by your Gangajal R.O. can be used for several purposes.

Flushed water can be used for:



Watering plants

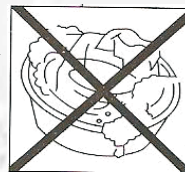
This water can also be used to water plants.



Daily household cleaning

This water can also be used for daily cleaning needs like mopping floors, cleaning bathrooms, kitchen sinks, etc.

Flushed water cannot be used for:



Washing clothes

The water flushed by the Gangajal R.O. should not be used for washing clothes as it is hard water which may affect the texture of the fabric.



Drinking

This water is not safe for drinking and should not be consumed.

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Is your water safe to drink ?

"Pure water is Life,
Life is most precious
Life is good gifted boon,
Enjoy every moment with Gangajal RO Purity"

Identifying the main water contaminants and what you can do about them

By Alan Goldhamer, D.C.

In 1989, Congress struck a blow to the Safe Drinking Water Act when it stipulated that public Supplies must be made available "economically". This requirement meant that standards involving contaminants much consider not only the quantity of contamination but also the cost of removing contaminants.

When drinking water is declared "Safe" it means only that the water's purity meets government standards. Now that the requirement of "economy" has been thrust into the drinking water safety equation, it is questionable whether we can count on government standards to protect our health.

In 1986, the U.S. Environmental Protection Agency estimated that some 40 million Americans were using drinking water containing potentially hazardous levels of lead. Acute lead poisoning can cause severe brain damage and even death. Effects of chronic, low level lead exposure are subtle, and infants and children are most vulnerable. Learning disabilities and hyperactivity have been associated with lead exposure, as have increased blood pressure, stroke, loss of hearing, chronic anemia, nerve damage and infertility.

Current government standards permit 50 ppb(part per billion) of lead in drinking water. A stricter standard of 7.5 ppb has been recommended, but it is estimated that it would cost \$5 billion to accomplish this. To reduce the lead in public water 5ppb would cost an estimated \$21 billion.

It is worth the cost?

There is no "Safe" level of lead in drinking water. And keep in mind that the government's 50 ppb standard only applies to water as it enters your house, not how it comes out of your tap.

Most lead enters the water from home plumbing. Plumbing installed before 1930 most likely includes lead pipes. Even in homes built more recently; the solder used to connect copper pipes may contain lead.

Unfortunately, lead is merely one of the possible contaminants in your water. Testing by an independent laboratory may disclose that there are unacceptable levels of other toxins.

Fortunately, there are various methods of home water treatment available for specific problems.

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Technical Specifications

Model	Gangajal RO Revel
Storage Tank Capacity	9 ltrs
Purified Water Delivery Rate	10 to 12 ltrs/hr
Purifying Technology	Bio- Ceramic Minerals R.O.™
Filter Cartridge	Particulate Filter, Membrane Life Enhancer, Sediment Filter, PC Bio-Ceramic Minerals, RO Membrane, PC Silver Nano
Dimension	300 mm X260 mm X415 mm (WxDxH)
Weight	12.5 kgs (approx.)
Operating Voltage	230 AC 50 Hz
Power Rating	25 watts (in use)
No. of Purification stage	6
Model	Gangajal RO Super Ultimate 7
Storage Tank Capacity	7 ltrs
Purified Water Delivery Rate	10 to 12 ltrs/hr
Purifying Technology	<u>Bio- Cermic Minerals R.O.™</u> Triple Anti Microbiological Protection
Filter Cartridge	Particulate Filter, Membrane Life Enhancer, Sediment Filter, PC Bio-Ceramic Minerals, RO Membrane, PC Silver Nano ,U.V. lamp
Dimension	53 X 36.5 X 19 cm (LxWxH)
Weight	10.5 kgs (approx.)
Operating Voltage	230 AC 50 Hz
Power Rating	25 watts (in use)
U.V. Lamp Power	8 Watts
No. of Purification stage	7
Input water conditions	
Recommended TDS input water	300 mg / ltr (min.) -2500 mg / ltr (max.)
Recommended total hardness input water	5-40° C
Recommended P ^H of input water	6.5-8.5
Recommended Iron content input water	0.3 mg / ltr (Max.)
% Reduction in TDS	90% (approx.)
<p>Notes : . . . Technical Specifications are subject to change without prior notice. . . . Flow rate depends on input water pressure and condition of filter. . . . Input water quality and TDS content is an important determinant of output water quality.</p>	



Gangajal R.O.



WARRANTY

The Gangajal R.O. Systems is warranted against defects arising from faulty design, workmanship and materials for a period of 12 months from the date of invoice, subject to the following conditions:

1. The customer will notify the Company promptly about and defects noticed and give the Company or its authorised service provider adequate opportunity to inspect, test and remedy the, for which the Customer will deposit the goods, if necessary, with the Company's Office / Service Centre along with the original invoice, in the city where they are sold.
2. Inspection and Test Report of the Company's Office Service Centre will be treated as final and binding under the Warranty for determining defects, repairs/alterations required or carried out, or certifying working of the goods thereafter.
3. The Company or its authorised service provider will be entitled to retain and defective part replaced under this Warranty.
4. The Company's liability under the Warranty will be limited only to defects which occur under conditions of normal operation under proper use. It excludes defects occurring because of abuse, faulty, care or maintenance and repairs/alterations to good or to parts by others.
5. Components subject to wear, such as Consumable item is not covered under this warranty.
6. The customer will have no claim under this Warranty in respect of any personal injury, damage to property or consequential damages, or for utilisation of the goods not in accordance with the User Manual.

After Sales Service

Unit comes to you with a ONE YEAR WARRANTY

Should you have any service requirements during this period, do not hesitate to contact our service centres / dealer of area concerned on the following conditions.

1. 3 Free maintenance services.
2. Prompt attendance to your servicing needs.
3. Please remember to ask for your copy of the Maintenance Contract form before the expiry of your warranty.
4. After Sale, any service will be given by concerned Company / Dealer

Post Warranty

1. The Customer may be offered a yearly Service Contract at the prevailing company rates and terms.
2. In case the Customer does not wish to enter the Service Contract, he has the option of calling our Service Centre and having his Gangajal R.O. Systems Serviced on an actuals basis i.e. by paying for Labour cost and Spares needed to attend to that Service / Complaint call at the prevailing Company rates. Such service will be rendered by the Company in towns/place where the Company has its Service Centres
3. The Company will provided free servicing of the goods brought to its Service Centre by the customer, provided that all expenses of transporting the goods to and from the Service Centre shall be borne by the customer directly.

If during such servicing it is necessary for the company to replace or repair defective components or parts, the customer shall be required to pay for the same as per the Company's prevailing price list.