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## **SUBJECT: WHOLE HOUSE WATER FILTRATION SYSTEM FOR VILLA**

Reference to your inquiry, we are pleased to present proposal for the supply and installation of the following systems.

### **1) WHOLE HOUSE POINT OF ENTRY (POE) WATER FILTER**

Point of entry (POE) whole house water filtration systems provide filtered water to an entire home or business facility. Available in 10" or 20" sizes, and two or three stage configurations. Pressure relief housings and inlet/outlet shut-off valves included for easier filter replacement.

#### **Filter Types:**

**In stage 1,**

Water flows through a 20" sediment filter cartridge that removes sediment, silt, sand and dirt. Also extends the life of the water filters.





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### **In stage 2,**

Water flows through granulated activated carbon (GAC). GAC is universally recognized and widely used as an effective adsorbent for a wide variety of organic contaminants, such as chlorine (99.9%), chemicals linked to cancer (THM's, benzene) pesticides, herbicides, insecticides, volatile organic compounds (VOC's), PCB's, MTBE's and hundreds of other chemical contaminants that may be present in water that create bad taste and odors.

Carbon is extremely porous and provides a large surface area for contaminants to collect. Carbon-only filters must also use their capacity for

chlorine removal, resulting in a shortened life. They also may use bituminous coal carbon, which is good at removing chlorine, but not as effective at removing chemicals. We use a high-grade coconut shell carbon that is most effective at removing chemicals. Coconut shell carbon provides a significantly higher volume of micro-pores than either coal, wood, or lignite-based carbon. As a result, it is more effective than other carbon types in removing trihalomethanes (THM's) and other chemicals from municipally supplied water. Since our ACTIVATED media removes the chlorine before it reaches the carbon block stage, the carbon capacity is not wasted on chlorine and is free to concentrate more effectively on organic contaminant. municipally supplied water. Since our ACTIVATED media removes the chlorine before it reaches the carbon block stage, the carbon capacity is not wasted on chlorine and is free to concentrate more effectively on organic contaminant.

### **In stage 3,**

Water flows through Carbon block one - micron filter block carbon (1 micron equals 1/25,000th of an inch), which removes suspended particles such as silt, sediment, cyst (Giardia, Cryptosporidium), sand, rust, dirt, and other un-dissolved matter.





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## **Benefits of Whole-House POE Water Filter Systems**

- **Protect Appliances and Plumbing:** Extend the life of household appliances such as washing machines, dishwasher, water heaters, and fixtures.
- **Experience cleaner, better tasting water** from every tap in the wholehouse or business.
- **Easy to install:** No drain line or electrical connections needed.
- **Low Operating Costs:** No backwash, regeneration, or electricity is required. Simply replace the filter cartridges when their useful life has been exhausted.
- **Sediment Filters** remove dirt, rust, sand, grit, and other suspended solids from water.
- **Carbon Filters Significantly Reduce the Following Contaminants** in the entire home or office:
  - Chlorine
  - Chlorine By-Products - Trihalomethanes (THMs): A Group of organic chemicals suspected of being carcinogenic.
  - Bad Tastes & Odors
  - Turbidity (Cloudy Water)
  - Herbicides, Pesticides, & Insecticides
  - Volatile Organic Chemicals (VOCs): Organic Chemicals that turn into vapor.
- **Pressure relief housings, inlet/outlet shut-off valves, and filter wrench** included for easier filter replacement.





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**Product Picture**





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### **Product Features:**

- Product Height: 70 cm
- Product Length: 63 cm
- Product Width: 25 cm
- Product Weight: 20 kg
- Color: Blue
- Max Pressure: 70 psi
- Size: 20" x 4.5" Connection: 1"
- Color: Blue Sump / Black Cap
- Set Includes: Filter body assembled on Stand, 3 cartridges, and wrench





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## 2) SINGLE WATER SOFTENERS WITH METERED VALVES

Hard Water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). Removal of these minerals is accomplished by softening the water through an ion exchange process using a water softener. As the water flows through the mineral tank of the water softener, the dissolved minerals become attached to the resin, creating soft water. Over a period of time the resin in the water softener will become exhausted, and the water softener will regenerate using a brine solution produced from the salt in the brine tank.

Metered Water Softeners (or Demand Water Softeners) are prompted to regenerate based on the amount of water that has passed through the unit. Like the timed softeners, these can be programmed to regenerate at a certain time of day. Instead of regenerating on a specific day as a timed softener does, the metered softener does not schedule regeneration until the specified amounts of water have passed through the softener. These units can save water by preventing unnecessary regenerations since it does not regenerate until the resin is near its capacity.

### ***Benefits of a home water softener***

*Here are five benefits of having a whole house water softener in your home:*

#### 1. Saves money

Soft water lacks the mineral ions that cause buildup in your pipes and appliances, saving you from costly repair bills. Mineral buildup in a pipe narrows the area water can move through, which requires a higher pump pressure. It will also increase the amount of energy needed to keep water hot or cold. The buildup also wreaks havoc on your appliances, which means more frequent repair or replacement costs for your dishwasher, laundry machines, coffee machines, water heaters, and ice makers.





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### *How does a water softener save you money?*

**Plumbing:** As minerals in hard water travel through your pipes they stick, forming a scale buildup that will eventually clog the pipes. In homes with severe hard water compositions, buildup can cause irreversible damage to plumb, meaning a costly and time-consuming repair job. The best way to treat the hard water problem is by softening your water before it has a chance to build up.

**Appliances:** Using a water softener can prevent the adverse effect of hard water on your dishwasher and laundry machines. Not only does scale buildup lower the quality and efficiency due to hard water composition, but scale inside the appliance results in a shorter lifespan for your coffee machines, ice makers, and even water heaters.

**Gas or electric bills:** A water softener can lower your gas or electric bill by preventing pipe damage. When scale builds inside a pipe, the space available for water to pass through narrows. As a result, the water pressure must increase for water to push through. The pipe narrowing also causes a failure to efficiently transfer heat, forcing you to run your water heater higher to compensate. Both issues result in an expensive gas or electric bill.

**Soap and detergents:** Soft water penetrates and dissolves better with soap, meaning more suds and a deeper lather for your body, clothes, and dishes. Hard water uses twice the amount of cleaning solution, to achieve the same amount of suds, as a soft water home. With a water softener, you can save hot water by using cold water for laundry. Hot water is often used to remove mineral deposits and better dissolve detergents. This is unnecessary with a water softener system. Washing with cold water will also keep your clothes from shrinking.





## 2. Cleaner hair and softer skin

Soft water can be extremely beneficial for your hair and skin while bathing or showering. The mineral ions in hard water prevent it from being completely soluble with soaps, forming a precipitate in the form of soap scum. Because soft water lacks these minerals, homes with a water softener enjoy a deeper lather. The benefits of a water softener on the skin go deeper than soap lather. It can also alleviate the effects hard water has on your body because of a loss of natural oils in your skin and hair.

**Effects of soft water on skin:** Because soft water contains fewer minerals, your skin picks up and holds moisture easier. While bathing or showering in hard water can have an adverse effect on your skin. The minerals in hard water remove the skin's natural oils, which can dry out your skin and, for some, result in itchy, irritated skin.

**Effects of soft water on hair:** Soft water can help balance your hair's pH level, while hard water can cause your hair to feel dry, brittle, and frizzy. It can also dull your hair color.

As scale buildup from hard water in your pipes increases, the water pressure from your shower decreases. Low water pressure does little to help you rinse the soap off your body or shampoo and conditioner from your hair.

## 3. Brighter and softer clothes

A water softener prevents the adverse effects of hard water on your clothes while making them soft to the touch and preserving the new, fresh look and feel.







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**Brighter clothes:** If your home has hard water, you're washing clothes in minerals that leave deposits. Over time, the minerals will cause the colors to fade. Some minerals can even cause stains or dingy whites. Soft water is the better option. In fact, many add salt to a load of colors to prevent bleeding, which isn't necessary for a soft water system and the use of sodium exchange.

**Cleaner clothes:** Soft water dissolves into clothes more easily, cleaning the clothes more effectively. With hard water, your clothes are being washed in minerals that leave deposits in the fabric. Over time, the minerals will cause the colors to fade and whites to become dingy. Because soft water dissolves detergent more effectively, you can use less detergent and may not need fabric softeners at all.

#### 4. Cleaner Dishes

If you live in a hard water area, you know how difficult it is to keep your dishes clean. No matter how many times you clean them, or the soaps or detergents you use, your glass and silverware are left with a cloudy appearance as soon as it dries. A water softener fixes the problem at the root, removing the minerals before they can build up on your dishes. And because soft water fuses with soaps and detergent more completely, there is more lather and more cleaning action in your dishwashing routine.





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## 5. Less time cleaning

If you live in a home with hard water, you know how time-consuming cleaning can be. You are constantly re-washing dishes and laundry. You may spend hours a week scrubbing chalky lime and soap scum off the walls of your showers, sinks, and faucets. Using a water softener not only prevents the negative effects of hard water, but soft water fully dissolves and penetrates soap, less insoluble soap scum, or curd collects in your bathroom. Saving the time you spend cleaning on a regular basis.





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**Product Picture**





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## **WATER FILTRATION OPERATION COST**

- Cartridge Filter for Triple Stage Jumbo Water Filtration: 1 Set/ 3 months  
PP, CTO & GAC 20"x4.5" AED 250 (3 pcs)
  
- Softener Salt Bag: 2 Bags/3 months  
AED 100 (2 Bags)

**Note:** The above price includes the service charges and delivery charges, and you will be provided with a maintenance record card after installation in which the next maintenance date will be mentioned to keep in records.

### **Terms and Conditions:**

1. **Terms of Payment** 70 % ADVANCE ALONG WITH LPO BEFORE DELIVERY  
30 % AFTER INSTALLATION AND COMMISSIONING
2. **Payment Details** Please make cheque payable to  
ECO PURE WATER TREATMENT EQUIPMENT TRADING LLC  
Or  
Wire Transfer to our account (Account number will be given upon request)

### **FILTRATION SYSTEM WARRANTY**

The Filtration system carries a warranty of **12 Months** from the day of commissioning that includes all components and spares.

### **FILTRATION SYSTEM DELIVERY SCHEDULE**

The following tasks shall be commenced upon receiving the Advance amount from the client.

**The task of Material Delivery will take stipulated period of 1-2 Working Days.**

**The task of Filtration System Installation, commissioning & fixing at Client's site would be carried out within a stipulated period of 1-2 Working Days.**





**Note: The above quotation is designed based on current working for the material available at various places. The above-mentioned material prices can be guaranteed for 30 Days.**

### **SUPPLIER'S SCOPE OF WORK**

- Complete assembling, fabrication, installation & commissioning of Water Filtration Unit.
- The warranty for the Water Filtration Unit is of 1 Year (12 Months) including all the Water Filtration Unit Electrical & Mechanical accessories while there will be no warranty for consumables like Salt Tablets, Chemicals & Filter Media.

### **RESPONSIBILITIES FOR THE CLIENT**

- Proper rejection source from water softener till rejection line arranged managed by Client.
- An uninterrupted electricity supply till Filtration System
- An uninterrupted feed water supply.
- Provide a shed for the system to protect from direct sunlight.

### **VALIDITY**

Our offer is valid for a period of 30 **days** from the date of submission of the proposal and after 30 days price stability is not guaranteed. We reserve the right to amend the price without announcement and without assigning any reason thereof.

### **FORCE MAJEURE CLAUSE**

Vendor shall not be liable for any failure or delay to perform any of its obligations hereunder if such failure or delay has occurred by an act of God, strike, lockout, inability to obtain materials, fire, breakdown, war, civil commotion, destruction of plant, governmental act or regulation, or any other cause or events beyond the control of Vendor., or its suppliers or shippers/forwarders.

