

# Technical Data Sheet for Reverse Osmosis System (1,000LPH) and Water Treatment Plant

## Reverse Osmosis System

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| Capacity                                  | 1000 ltr/hr                       |
| Inlet connection                          | 1"                                |
| Outlet connection                         | 1"                                |
| Drain Connection:                         | 1"                                |
| Recovery: Max.                            | 80%                               |
| Power Supply/Consumption                  | 220V 50hz single phase/ 1.8kW Max |
| 4pcs of 4040 Membrane                     |                                   |
| 304 Stainless Steel 4040 Membrane Housing |                                   |
| 1HP Stainless surface pump                |                                   |
| 2HP Vertical pump                         |                                   |
| Long Cartridge Filter                     |                                   |
| Permeate / concentrate Flow Meters        |                                   |
| Attached PVC Fittings                     |                                   |
| 304 Stainless Steel Body frame            |                                   |

## 1. Multigrade Filter (MGF) FRP Vessel 18" with Media

| Specification       | Details                                                                        |
|---------------------|--------------------------------------------------------------------------------|
| Vessel Type         | FRP (Fiberglass Reinforced Plastic)                                            |
| Diameter            | 18 inches                                                                      |
| Height without base | 65"                                                                            |
| Capacity            | 253L                                                                           |
| Media Type          | Multigrade filter media                                                        |
| Inlet/Outlet Size   | 4"                                                                             |
| Application         | Fe/Mn removal, Arsenic, Selenium removal                                       |
| Features            | High filtration efficiency, Easy maintenance, Corrosion-resistant construction |

## 2. Fe/Mn Removal Filter and Ion Exchange Resin Filter FRP Vessel 18” with Media

| Specification     | Details                                                    |
|-------------------|------------------------------------------------------------|
| Vessel Type       | FRP (Fiberglass Reinforced Plastic)                        |
| Diameter          | 18 inches                                                  |
| Height            | 65”                                                        |
| Media Type        | Akdolit®, Greensand and Ion Exchange Resin                 |
| Capacity          | 253L                                                       |
| Inlet/Outlet Size | 1”                                                         |
| Application       | Specialized media for Fe/Mn or Arsenic/Selenium removal    |
| Features          | Effective contaminant removal, Durable and reliable design |

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## 3. Activated Carbon Filter (ACF) FRP Vessel 18” with Media

| Specification     | Details                                                 |
|-------------------|---------------------------------------------------------|
| Vessel Type       | FRP (Fiberglass Reinforced Plastic)                     |
| Diameter          | 18 inches                                               |
| Height            | 65”                                                     |
| Media Type        | Activated carbon                                        |
| Capacity          | 253L                                                    |
| Inlet/Outlet Size | 1”                                                      |
| Application       | Removal of residual chlorine byproduct, taste, and odor |
| Features          | High adsorption capacity, Long service life             |

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## 4. Pre-Filtration Chlorination Diffuser with 20 pcs Chlorine Tablets Supply

| Specification    | Details                                                |
|------------------|--------------------------------------------------------|
| Type             | Pre-Filtration Chlorination Diffuser                   |
| Chlorine Tablets | 20 pcs                                                 |
| Application      | Disinfection of feed water                             |
| Features         | Efficient chlorine dispersion, Easy to replace tablets |

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## 5. Long UV Disinfection Tube

| Specification | Details                                            |
|---------------|----------------------------------------------------|
| Type          | UV Disinfection Tube                               |
| Inlet/Outlet  | 1"                                                 |
| Power Rating  | 220V-240V AC":50/50Hz, UV30W                       |
| Max Flow Rate | 8GPM                                               |
| Application   | Disinfection of water                              |
| Features      | Effective pathogen removal, Low energy consumption |

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## 6. 2 Nos of 1HP Filtration & Booster Pump - InterDAB

| Specification | Details                              |
|---------------|--------------------------------------|
| Type          | Filtration & Booster Pump            |
| Model         | InterDAB                             |
| Power         | 1 HP                                 |
| Application   | Water filtration and boosting        |
| Features      | Reliable performance, Compact design |

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## 7. 2 Nos of 2,000L Potable Drinking Water Storage Tanks

| Specification | Details                                                    |
|---------------|------------------------------------------------------------|
| Type          | Potable Drinking Water Storage Tank                        |
| Capacity      | 2,000 Liters                                               |
| Material      | PVC                                                        |
| Application   | Storage of pre-treated and treated water                   |
| Features      | Fit for drinking water, Durable construction, UV resistant |

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## 8. PVC Plumbing Connections

| Specification | Details                                |
|---------------|----------------------------------------|
| Type          | 1" PVC Plumbing Connections            |
| Application   | Connections for water flow             |
| Features      | Corrosion resistant, Easy installation |

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