



D-tox Neer

Water Nano Purifier

Patented **Nano Adsorption Technology** Provides Safe, Healthy Nanopure Drinking Water **Without Electricity**. Retains Essential Minerals While Removing **Toxic Contaminants**.



Healthy Water, Big Saving



Innovator is the **Former Chief Scientist of CSIR-AMPRI, Govt. of India, Bhopal**. With more than 10 years of experience in developing adsorption-based water purification technology, he has filed **several patents** and published **research papers**.

Granted Patents (3 Indian 384052, 370447, 402610) & (1 US Patent US 45 11766 641 B2).



Why Choose D-Tox?

Essential minerals in water play crucial roles in human health:

- Calcium & magnesium **Strengthen Bone Structure**
- Magnesium help in **Consipation & in Bowel Movement**
- Calcium, magnesium & potassium **Maintain Blood fluidity and regulate Blood Pressure**
- Magnesium & potassium **Control Muscles**, and **Nervous System**
- Sodium and chloride **Balance Cell Fluid**

D-tox nano membrane preserves these vital minerals, unlike RO systems that produce "Dead Water" lacking essential nutrients.

IN NEWS

Low-cost water filter that may save millions

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Bhopal: After 10 years research, a senior principal scientist of CSIR AMPRI, Bhopal, has developed a domestic water filter model that not only runs without electricity but also costs next to nothing.

This innovation would come as a boon in villages of Shivpuri district in Madhya Pradesh, where people don't get marriage proposals because of high level fluoride. Over 70 million people in India suffer from problems caused by fluoride. According to the inventor,



The domestic water filter model developed by Dr I B Singh (inset)

Dr I B Singh, it will cost only 10-20 paise per litre, putting it within reach of BPL families. Fluoride is beneficial in pre-

vention of cavities and strengthens the skeletal system, but long-term consumption of water containing excessive fluoride causes fluorosis that affects teeth, bones, joints and ultimately leads to crippling of the body's head.

"Many districts in the state have this problem. My innovation will solve it to a large extent," he told TOI. The "nanoadsorbent" based filter can process 1 litre to 3 litre per hour. The methodology, based on nanocoating the sediment-removal filter is a new concept and can be used at the domestic

household level, the scientist told TOI, adding that he has succeeded in synthesising the low-cost nanoadsorbent at Rs 600/kg. "Because of the regeneration quality of the nanoadsorbent, two filters, each containing 250gm nanoadsorbent, can treat 1,200-2,000 litre water that have 2 to 3.5 ppm fluoride with around 400 ppm dissolved solid. This volume of treated water is sufficient for the drinking and cooking needs of a 4-5 member family for 2-3 months," Dr Singh said.

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ना बिजली जाने का टेंशन, ना बार बार Service का झंझट एक बार लगाये, दो साल के लिए Free हो जाए

Key Benefits of D-tox Nano Membrane Technology

Electricity-Free Operation

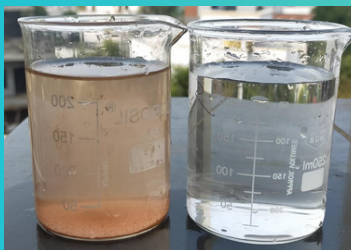
Works **without electricity**, saving on utility bills while providing continuous purification.

Contaminant Removal

Adsorbs and **removes toxic elements** like chromium, lead, arsenic fluoride etc for safer drinking water.

Essential Mineral Retention

Unlike RO systems, **retains all essential minerals** that improve body immunity and health.



Purification Rate

10-15 ltr per hour for **Domestic** models &
50-70 ltr for **commercial** models

Comparison with Other Water Purifiers

Type	Electricity Required	Water Wastage	Mineral Retention	Nano purification range	pH of purified water	Removal of toxic elements (As, F, Cr, Pb etc.)	Bacteria & Virus removal	Presence of essential minerals	Safe & Healthy water	Maintenance per liter
RO	Yes	80-90%	0 <10%	< 1 nm	<6.5	Yes	> 99.9999%	0 - 10%	No	70 -90 paisa
UF	No	Nil	Yes	10 -20nm	7.0 - 8.5 as raw water	No	Highly Susceptible	Yes	No	20-30 paisa
UF+UV	Yes	Nil	Yes	10 -20nm	7.0 - 8.5 as raw water	No	Susceptible	Yes	No	40-60 paisa
D-tox Nano	No	Nil	Yes	1-3 nm	7.0 - 8.5 as raw water	Yes	> 99.9999%	Yes	Yes	25-30 paisa

Service & Maintenance charges is almost less 1/3 of RO purifier purifier

Advanced Purification Features

- **Zero Water Wastage**, unlike RO systems that waste 80-90% of water
- Eliminates **Bacteria & Viruses** completely (>99.9999%), meeting WHO standards
- Provide **Turbidity Free** Nanopure water

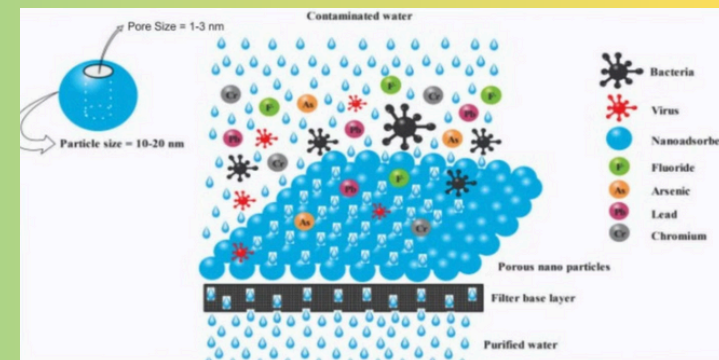
TDS Handling

As per **WHO & Indian standard (10500)**, 300 - 600 mg/ l TDS are acceptable in drinking water. Even 1000 to 2000 mg/ l TDS bearing water can be consumed where alternate source of drinking water is not available.

pH Maintenance

pH remain same of **7.0 - 8.5 range** as per pH of raw water

Contaminant removal occurs through adsorption (toxic elements) and neutralization (microbes).



Nano Adsorbent Component

Positively charged, highly stable ceramic oxide nano particles (porosity 1-3 nm, size ~ 20 nm) adsorb negative charged oxyanions of toxic elements chromium, lead, arsenic etc and fluoride anion. Also removes red colour (Iron), as well as calcium & magnesium scaling agents. Water filtration occurs through the porous nano adsorbent in the 1-3 nm range.

Biocide Component

Strong positively charged nano silver - activated carbon composite layer provides double protection against negatively protenious bacteria & viruses, cell/body neutralizing them up to zero levels. It also removes pesticides, chlorine, bad odors etc.



Domestic 5-6 Purification Stages Domestic Purifier with SS Water Storage Tank

Replacement of Filters: 10,000 ltrs/ 2 yrs (with pre filter).

Food Grade, ABS Plastic Construction (Cammy Int.), **Warranty : 2 yrs**



D-tox & D-Scalent Nano Membran Cartridges

Domestic low cost 3 Stages Purification Stages

Commercial : Capacity 0.8-1.0 Lakh Ltr. Purification Rate 50-70 Ltr/Hr (Can be attached with water chiller also, applicable for School/Colleges/Offices/Hostels)