



Water Filter Discs - Science & Objectives

PUREJAL Water Filter Discs is a mother earth's green technology device developed by IMMT, Bhubaneswar for filtration and treatment of both raw surface and raw ground water into clean and safe drinking water at minimal cost and expenses in quality within BIS limit and WHO standard.

PUREJAL Disc is a research based device mechanically and scientifically more advance yet inexpensive filtration device of International standard. **PUREJAL** Disc is of negatively charged ion-exchange and adsorptive by process, mechanism of capillary opening of each pore is in sub-micron size form through many layers and are not inter-connected directly which restricts almost all suspended particles & microbes at the top surface of the discs which could not enter even at the second layer of top surface of the disc which ensures the same quality of drinking water during entire operational life of the discs.

PUREJAL Disc being developed to target raw water that is rich in sediments, suspended particles, turbidity, iron and certain micro-organism causing water born diseases; especially in the areas where water from dug well, ponds, tube well, bore well, water streams and river is used for drinking purpose.



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Cleaning & Maintenance:

- **PUREJAL** Disc requires cleaning once in a week or fortnight depending upon self test of rate of filtration.
- Cleaning by Jet water pressure over the disc is recommended for longer life of discs, although cleaning by soft brush scrubbing over the disc is also good in absence of water jet.
- Cleaning is easy and inexpensive; Proper and regular cleaning of disc insures proper rate of filtration, long life of discs and also helps recharging process.

Application	Domestic Water Filter & Online PUREJAL Water Filter System
Size	50 cm height x 100 cm diameter
Rate of Filtration	1-4 LPH on Gravity Type Domestic Water Filter
Life of Disc	3-5 Years (on gravity filter)
Life of Plastic Holder	15-20 years (made of top quality virgin Gr-1 plastic)
Filter System Includes	3 nos. of 100mm PUREJAL Disc and filter body
Container Type	Top quality Food Grade Plastic/virgin Gr-1 plastic produced by CIPET
Power Requirement	NIL
Capacity available	30 Liter
Rate of Filtration	1-4 LPH DEPENDING ON DISCS CHOSEN
Size of Disc	100 mm diameter with 50 mm thickness fitted in suitable holder
Tank Size	15 ltr. Raw water chamber/ 15 Ltr filtered water chamber
Life span of disc	4-5 years depending on usage
Working range	Turbidity- up to 500 NTU
	Iron - up to 15 ppm
	Micro organism removal-96-100% removal

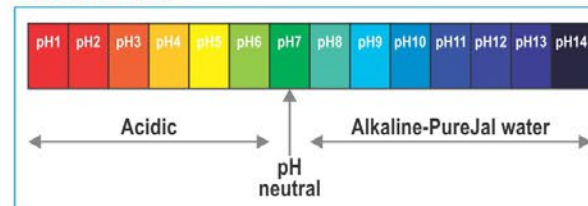
Quality of Treated/ Filtered Water through **PUREJAL** Water Filter Discs

Turbidity	Within BIS Limit & WHO Standard
Iron	Within BIS Limit & WHO Standard
Micro-organism	Within BIS Limit & WHO Standard
Total Hardness	Within BIS Limit & WHO Standard
Dissolved Solid	Within BIS Limit & WHO Standard
Cl	Within BIS Limit & WHO Standard
F	Within BIS Limit & WHO Standard
Ca	Within BIS Limit & WHO Standard
Increase in pH	Within 1.0 %
Colour & Odour	Significantly removed as per WHO standard
H2S Strip Test Result	83 %

Features & Benefits:

- Totally green & research based product developed by National Research Institute, India.
- No chemical or minerals used
- Technically more advance, efficient & reliable filtration technology for clean & safe drinking water in Quality under BIS limits & WHO standard
- The Disc is of negatively charged ion-exchange and adsorptive by process, mechanism of capillary opening of each pore is in sub-micron size form through many layers and are not inter-connected directly which restricts almost all suspended particles & microbes at the top surface of the discs which could not enter even at the second layer of top surface of the disc which ensures the same quality of drinking water during entire operational life of the Discs
- Highest rate of filter water achieved at minimal cost compare to other filtration system
- Lowest cost of filter water - Rate UGX 100/- per 1000 liter of filter water
- Easy & inexpensive cleaning and maintenance
- Life of discs is more than 3-5 years and the advantages is that it does not affect the quality of filter water during entire operational life of the discs

PUREJAL Water:



PureJal Disc

