



NIXIE
ENGINEERS PVT. LTD.

COMPLETE WATER SOLUTIONS



ReuTecTM



ReuTec Advantages :

- ReuTec technology is most advanced technology used for recycle and reuse of waste water from any industry.
- Treated water from various water treatment plants like STPs is being discharged to drain or is being used for irrigation. This water can be further treated to make it potable.
- Through Reutec Technology, a three-step series of barriers and membranes, wastewater is made free of solids, microorganisms, and contaminants resulting in potable water supplies for use by humans and industry.

Excellent Water Quality of Treated Effluent :

Water Quality Parameters	ReuTec Water	WHO Standards
A) Physical		
Turbidity (NTU)	<5	5 /5
Colour (Hazen Units)	<5	15/15
Conductivity (μ S/cm)	<250	Not Specified
pH Value	7.0-8.5	6.5-8.5
Total Dissolved Solids (mg/L)	<150	500/1000
B) Chemical (mg/l)		
Ammonical nitrogen (as N)	<1.0	<1.2
Chloride (Cl)	<20	250/250
Fluoride (F)	<0.5	4/1.5
Nitrate (NO ₃)	<15	
Sulphate (SO ₄)	<5	250/250
C) Metals (mg/l)		
Aluminum	<0.1	0.05-0.2
Barium (Ba)	<0.1	2/0.7
Boron (B)	<0.5	-/0.5
Copper (Cu)	<0.05	1.3/2
Iron (Fe)	<0.04	0.3/0.3
Manganese (Mn)	<0.05	0.05/0.4
Sodium	<20	-/200
Total Coliform Bacteria (Counts/100 ml)	Not Detectable	Not Detectable
Enterovirus	Not Detectable	Not Detectable
Heterotrophic Plate Count (CFU/ml, 35 °C, 48 h)	<300	<500/-

References :

- Riverina Oil & Bio-Gas Energy (ROBE) Australia :
350 KLD waste water recycle consisting of Pretreatment, RO and Reject recovery RO.
- SSW : Siltronics Singapore Pte Ltd
1.7 MLD Semiconductor Industry wastewater recycle

NIXIE ENGINEERS PVT. LTD.

Office :

5, Chinali Apartments,
CTS No. 6, Plot No. 885,
Above Hotel Sweekar,
Erandwane, Off. Karve Road,
Pune - 411 004.
Tel : +91 20 25435800
Email : info@nixieengineers.com

Factory :

Nixie Engineers Pvt. Ltd.
C – 25, GOVT Industrial
Estate, Udyambag,
Belgaum - 590 008.
Tel : +91 831 2533807
Email : factory@nixieengineers.com
www.nixieengineers.com

Singapore Office :

Shouei Technologies
17, PHILLIP STREET,
05 – 01, Grand Building,
Singapore - 048 695.
Tel : +65 67865872
Email : info@shoueitech.sg
www.shoueitech.sg

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