



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
CIVIL DEPARTMENT MANUAL**



Issue No. 02	Rev. No: 00	Effective Date: 22.10.2021	SOP/CIVIL/18
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Issued By: M.R	Approved By: HOD (Civil)
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SOP FOR RO UNIT OPERATION

Scope : This SOP is applicable to Safe working for RO unit (operation)

Responsibility : Concern Operator

Accountability : Civil-Section In charges

PPE:

1. Safety helmet
2. Safety shoe
3. Safety goggles

Tools: Nil

Hazards:

Risks associated

Electric shock

Water slippery

Mitigating Measures

Proper earthing to be ensured

Ensure zero water leakage

Training needs:

1. Emergency preparedness
2. PPEs training



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Operating Procedure:

- Wear required PPEs without fail
- Switch ON the power switch
- Avoid operating the power switch / panel switches with wet hands
- Both pre-filter's back-washing & rinsing shall be done with raw water inlet & filter multimedia valve operation
- After finishing back-washing/rinsing, change the filter multimedia valve towards filtration process
- Switch 'ON' the main switch of RO - panel
- Check the required pressure level on all the pressure gauges like 2.5kg/sq.cm. for micron filter outlet line & 12 kg/sq.cm. for membrane outlet line
- Ensure the dosing pump in "ON" condition along with the availability of dosing chemical @ 50 ml / 25 litre of water & its dosing operation
- Ensure zero leakage in all pipeline joints
- After RO treatment, treated water shall be stored separately in a tank
- Switch 'OFF' both the RO panel / power switch once the treated water tank full level reaches
- Reject water shall either stored in a separate tank or directed to any other usage directly

Emergency / Emergency Shut OFF:

1. If anybody met with accident, inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.
2. If any injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761



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Records/Annexure:

1. JSA as enclosed below.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: This SOP is applicable to Safe working for RO unit operation	Date: 22.10.2021	Analysis by: M.I. Shameem Sufiyan	Reviewed by: S.Chandra Bose
Title of employee doing job: concern operator.	Supervisor: Section In charge	Department: Civil	Section: plant area	Approved by: S.Chandra Bose
Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES & SAFETY GOGGLES.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
While operating power / panel switches	Electric Hazard	Avoid operating with wet hands	Electric shock may happen	Proper earthing shall be ensured during installation
While accessing the floor	Water slippery	Water leakage shall be arrested	Slip & fall on floor	Ensure zero water leakage