



**ALLIANCE FOR
WATER STEWARDSHIP**

Shared Water Challenges

JF- MO & FMC

Shared Challenge	Significance (1-5)	Urgency (1-5)	Actions	Stakeholders who should be involved
Protection against pollution of surface waters in the catchment area.	5	5	1. Deployment of Onsite Effluent Treatment Plant - G 2. Infrastructure modification to ensure Zero Waste Water Discharge from Site - G 3. Soil and Grounwater Protection Plans to be made- G 4. Sewage Treatment Plant in Catchment- R	Municipal Committee Jhelum
Protection against groundwater pollution in the catchment area.	3	3	1. Deployment of Onsite Effluent Treatment Plant - G 2. Infrastructure modification to ensure Zero Waste Water Discharge from Site - G 3. Soil and Grounwater Protection Plans to be made- G 4. Sewage Treatment Plant in Catchment- R	Municipal Committee Jhelum
Contaminants in drinking water	5	5	1. Deployment of Highly Absorptive Filtration Plants on Site- G 2. Deployment of Filtration Plants in Communities- G (on going project)	1. Municipal Committee Jhelum 2. DC Jhelum
Measures to prevent the lowering of the groundwater level in the catchment area.	3	3	1. Water Withdrawal Monitoring- G 2. Catchment Annual Water Table Depth Monitoring- P	1. Municipal Committee Jhelum 2. Zilla Council
Preventing the reduction of available drinking water supplies.	4	4	Awareness sessions on responsible water usage both on site and in the catchment- A	1122 DC Jhelum
Improving the security of water resources in the catchment area.	3	2	Organization of promotional and information campaigns for the local community, farmers, BAT employees, subcontractors regarding the value of water, broadly understood wastewater management and good practices in water management- A	1. Local farmers Local community 2. BAT employees and subcontractors
Physical Risks (Failure of Infrastructure)	3	4	Water Infrastructure of Site has a Maintenance Regime Opportunities: Development of Infrastructure Maintenance Regime of Catchment Water Sources	1. DC Jhelum 2. Municipal Committee
Improvement of water management both in the factory and the entire catchment.	3	4	Identification of good practices related to water and wastewater management that may be applicable to the BAT catchment area and the factory itself. Collaboation with stakeholders in the implementation of identified good practices in the catchment area, the implementation of which is technically feasible and economically rational. Replication of identified good water management practices in the factory- A	1. DC Jhelum 2. Municipal Committee 3. WAPDA 4. BAT Employees and Contractors

R- Pending
A- In Progress
G- Completed

1-2 **Low**
 3 **Medium**
 4-5 **High**

ONSITE PROJECTS



Effluent Treatment Plant

12_{m3}/Hr.
ETP Treatment
Capacity

*combines all elements of the activated
sludge purification process into a single
compact unit*

Treated Water Quality

PH 6-9
BOD < 80 mg
COD < 150mg/L
TSS < 200mg/L



Solar Plates
Cleaning



Toilets



Garden

Selenium Filters

Improvement in Drinking Water Quality

0.041 mg/L **▶** **0.005** mg/L
Before *After*

0.036

mg/L improvement



Above Ground Water Pipelines

1500 m³
REDUCTION ANNUALLY

- *Eliminating unaddressed lines losses*
- *Enabling preventive maintenance*
- *Reducing exposure to contaminants*



Condensate Recovery

1000 m³
REDUCTION ANNUALLY

- *Reduction in Thermal Losses*
- *Reduction in Water Losses*

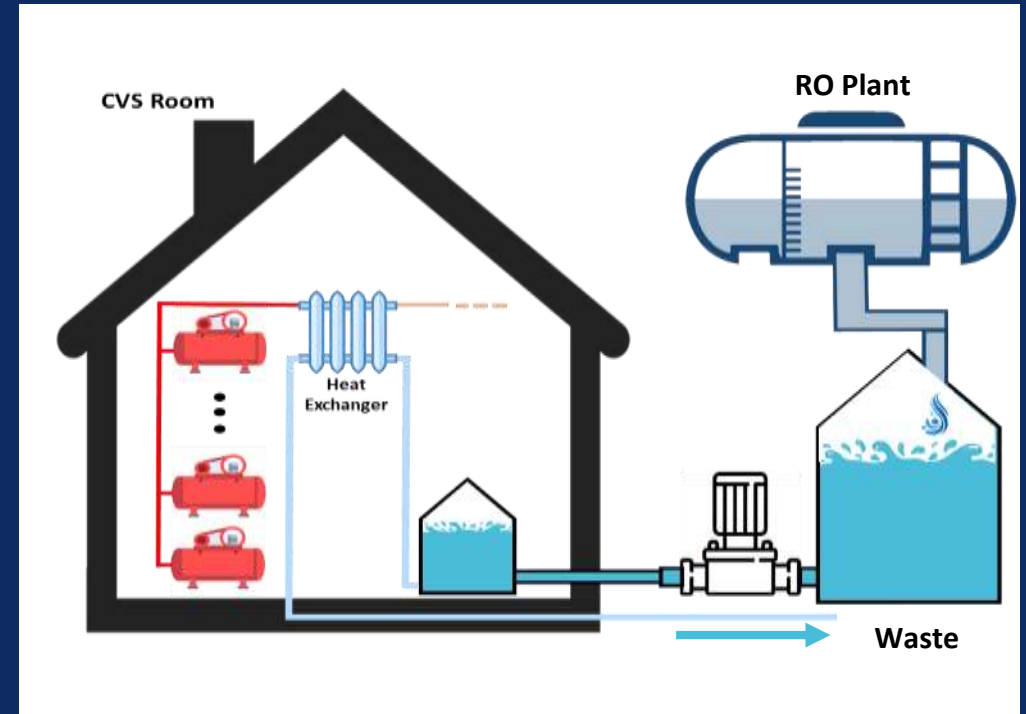


RO Plant

3500 m³/hr

CAPACITY

*Reduction in Calcium and Magnesium content
in Effluent*



Mist Water Taps Installation

WASHROOMS & CANTEEN

1200

WATER SAVING
m³/P.A.



AWS Awareness Drive

CBA



SHOPFLOOR



MANAGEMENT



DDSSs



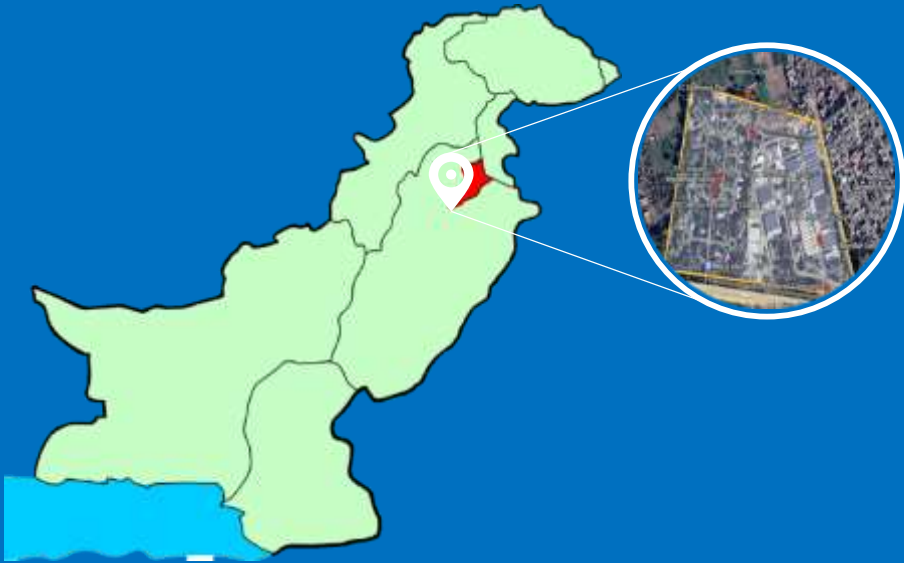
OFFSITE INITIATIVES



Provision of Water Filtration plants

Location

- Jhelum City



5 FILTRATION
PLANTS



Tree Plantation Nursery

700K
SAPLINGS

Donated Across Jhelum in 2022



AWS Awareness Drive

CANTONMENT



FAZLABAD



PORILLA



MM3



KDC JHELUM



BISMILLAH TOWN

