

Water Stewardship Plan

JF- FMC & MO

Sr.No	Action	Action Linkage	Target	Scope	Priority	AWS Outcome	Budget (PKR)	Category	Responsible	Accountable	Consulted	Informed	Timeframe	Status
1	Deployment of Effluent Treatment Plant	1. Water Risk 2. Shared Water Challenge	48% Water Recycling Ratio	Internal	High	Good Water Governance Sustainable Water Balance	12 Mln	Long Term	1. Facilities and Utilities Manager 2. Environment Health and Safety Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2003	Done
2	Construction of Storm Water Tanks		33000 Liter Capacity	Internal	High	Sustainable Water Balance	-	Long Term	1. Primary Services Officer 2. Services Engineer	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2010	Done
3	Monitoring and Tracking of Water Indices and KPIs on site		FMC Water Index: 1.81 m3/MCE Water Recycling: 48% MO Water Index: 32.38 m3/MCE Water Recycling: 23%	Internal	High	Good Water Governance	N/A	Continuous	1. Facilities and Utilities Manager 2. Environment Health and Safety Manager	EHS Manager	Engineering Site and Services Manager	Factory Manager	2017	Continuous
4	Establishment of Maintenance and Cleaning regime of Drinking Water Supplies		PEQS Compliance	Internal	High	Good Water Quality Status	3.3 Mln	Continuous	Facilities & Utilities Manager	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	N/A	Done
5	Development of Water Related ERPs- Flood, Contamination, Infrastructure Failure		BCP	Internal	High	IWRAs	N/A	-	EHS Manager	EHS Manager	EHS Manager	Factory Manager	2014	Done
6	Interconnectivity of Overhead tanks		BCP	Internal	High	IWRAs	3.5 Mln	Immediate	1. Primary Services Officer 2. Services Engineer	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2022	Done
7	Installation of New Blower Pump for ETP		Protection of IWRA	Internal	Medium	IWRAs Sustainable Water Balance	4.5 Mln	Immediate	1. Facilities and Utilities Manager 2. Environment Health and Safety Manager	1. Facilities and Utilities Manager 2. Environment Health and Safety Manager	Engineering Site and Services Manager	Factory Manager	2017	Done
8	Connectivity of Site Wide storm water drains with storm water tanks		100% Rainwater Encatchment	Internal	High	Sustainable Water Balance	30 Mln	Long Term	1. Primary Services Officer 2. Services Engineer	1. EHS Manager 2. Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2014	Done
9	Shifting of Site Wide Fresh Water Lines above ground level		<1% Line Losses	Internal	Medium	Good Water Governance	32 Mln	Immediate	1. Primary Services Officer 2. Services Engineer	1. EHS Manager 2. Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2019	Done
10	Installation of Highly Absorptive Selenium Filtration Plants		0.005 mg/liter Selenium	Internal	High	Good Water Quality Status	0.5 Mln	Immediate	EHS Manager	1. EHS Manager 2. Engineering Site and Services Manager	HOD's	Factory Manager	2020	Done
11	Establishment of Inspection and Maintenance Regime of Water Network		PEQS Compliance	Internal	Medium	IWRAs	3.3 Mln	Continuous	1. EHS Manager 2. Engineering Site and Services Manager	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	N/A	Done

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12	Provision of Area wise Spill Kits and Spill Trainings to be imparted	Water Risk	100%	Internal	Medium	IWRAs Good Water Quality Status	0.15 Mln	Continuous	EHS Manager	1. OSD Manager 2. EHS Manager	EHS Manager	HODs	2007	Continuous
13	Monitoring and Tracking of Soil and Grounwater Protection Policy		100%	Internal	High	IWRAs Good Water Quality Status	N/A	Long Term	EHS Manager	EHS Manager	EHS Manager	Factory Manager	N/A	Continuous
15	Deployment of Legal Register to monitor and track compliance to Water Related Laws		Yearly	Internal	High	All Outcomes	N/A	Continuous	EHS Manager	EHS Manager	EHS Manager	Factory Manager	N/A	Continuous
16	Provision of adequate Washroom facilities for all employees	Water Risk	Factories Act 1934 Compliance	Internal	High	WASH	6.6 Mln	Short Term	1. Civil Incharge 2. Services Engineer	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	N/A	Done
17	Installation of Filtration Plants in catchment for provision of clean drinking water		20,000 Liters/Day	External	High	Good Water Quality Status	-	Long Term	LEX	LEX	EPA	District heads	2021	Done
18	Steam Exhaust Condensate Water Re-Use from DCCC, Ad moist, STS and CPS exhausts	Water Opportunity	3,500 m3/year reduction in water withdrawn number	Internal	Medium	Good Water Governance Sustainable Water Balance	4.2 Mln	Long Term	1. Primary Services Officer 2. Services Engineer	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2025	Planned
19	Installation of condensate recovery line from admoist, DCC and casing kitchen area to Boiler House condensate Tank		1000 m3/year reduction in water withdrawn	Internal	Medium	Good Water Governance Sustainable Water Balance	2.2 Mln	Immediate	1. Primary Services Officer 2. Services Engineer	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2022	Done
20	Cooling Tower blow down water recycle		1,100 m3/year reduction in water withdrawn	Internal	Medium	Good Water Governance Sustainable Water Balance	12 Mln	Long Term	EHS Manager	EHS Manager	Engineering Site and Services Manager	Factory Manager	2023	Planned
21	Steam Condensate recycle from PMD Casing Kitchen		500 m3/ year reduction in water withdrawn	Internal	Medium	Good Water Governance Sustainable Water Balance	4.2 Mln	Long Term	1. Primary Services Officer 2. Services Engineer	Facilities and Utilities Manager	Engineering Site and Services Manager	Factory Manager	2024	Planned
22	Utilization of Recycled Water in Solar Plates Cleaning		150 m3/month	Internal	Medium	Good Water Governance	-	Immediate	EHS Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2021	Done
23	Utilization of Recycled in Water Sprinklers and Gardening		900 m3/month	Internal	Medium	Good Water Governance	6 Mln	Immediate	EHS Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2021	Done
24	Utilization of Recycled Water in Flush Tanks		200 m3/month	Internal	Medium	Good Water Governance Sustainable Water Balance	6 Mln	Short Term	EHS Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2023	Done for FMC Planned for MO
25	Utilization of Recycled Water in Cooling Towers		125m3/month	Internal	Medium	Good Water Governance Sustainable Water Balance	6 Mln	Short Term	EHS Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2023	Done for FMC Planned for MO

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26	Automated Gum Pots Washing in SMD	1. Water Opportunity 2. Shared Water Challenge	125m3/month	Internal	Medium	Good Water Governance Sustainable Water Balance	1.9 Mln	Long Term	EHS Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2023	Planned
27	Installation of Sprinklers to irrigate landscape		900 m3/month	Internal	Medium	Good Water Governance	1.2 Mln	Immediate	EHS Manager	EHS Manager	Engineering Site and Services Manager	Factory Manager	2021	Done
28	Installation of Sensor Taps in Cafeteria and washrooms		125 m3/month	Internal	Medium	Good Water Governance Sustainable Water Balance	0.125 Mln	Immediate	Factory Utilities Manager	Engineering Site and Services Manager	Engineering Site and Services Manager	Factory Manager	2022	Done
29	Installation of Water pressure reducing valve at line of abolution		150 m3/month	Internal	Medium	Good Water Governance	N/A	Immediate	Factory Utilities Manager	EHS Manager	Engineering Site and Services Manager	Factory Manager	2016	Done
30	Ensuring the protection of natural resources by conducting trainings to make farmers in the area aware of water consumption		Improved Water Stewardship	External	High	Good Water Governance Sustainable Water Balance	10000	Long Term	EHS Manager	EHS Manager	District Heads	District Heads	2023	Planned
31	WASH Awareness and Training Sessions	1. WASH Improvement Opportunity 2. Shared Water Challenge	Improved Water Stewardship	External	High	WASH	10000	Long Term	EHS Manager	EHS Manager	District Heads	District Heads	2022	Continuous
32	Renovation of washroom to provide all the required facilities, provision of abluton area in MOM washroom		Improved Water Stewardship	Internal	Medium	WASH	6.6 Mln	Immediate	1. Civil Incharge 2. Services Engineer	Facilities and Untilities Manager	Engineering Site and Services Manager	Factory Manager	2022	Done
33	AWS Awareness and Training Sessions	Shared Water Challenge	AWS Awareness	External	High	All Outcomes	N/A	Long Term	EHS Manager	EHS Manager	District Heads	District Heads	2022	Continuous
35	Identification of Best Practices Related to Water Stewardship through engagements with stakeholders, suppliers and other End Markets	Shared Water Challenge	Improved Water Stewardship	Internal	Medium	All Outcomes	10000	Long Term	EHS Manager	EHS Manager	District Heads	HODs	2022	Continuous
36	Tree Plantation and donation		Protection of IWRA	External	Medium	IWRAs Sustainable Water Balance	N/A	Long Term	EHS Manager	EHS Manager	EPA	District Nazim	2021	Continuous
37	Key Stakeholder Engagement and onboarding		Improved Water Stewardship	External	High	All Outcomes	10000	Long Term	LEX	LEX	District Heads	District heads	2022	Continuous