

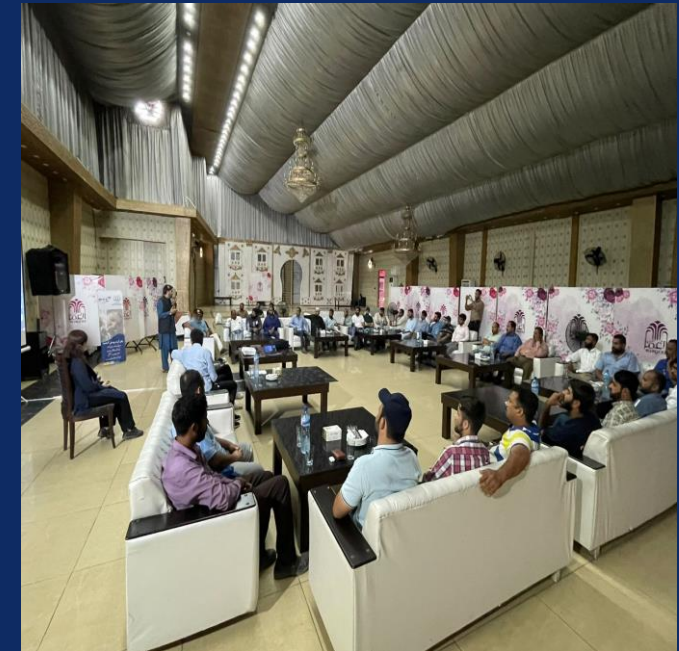


BEST PRACTICES

PUBLIC AWARENESS SESSION

PTC held a Public Session in liaison with an NGO to enlighten the general public on the following:

- › The vision of AWS
- › Water related issues in the area
- › Sources of Water Pollution
- › Good Water Governance
- › Sustainable Water Practices to maintain Water Balance
- › Efficient Water Management
- › Maintenance of IWRAs
- › Water Quality
- › WASH
- › Presence of Arsenic and Heavy Metals in the catchment



AWS Outcome: All Outcomes



WORLD ENVIRONMENT WEEK 2023

PTC- Jhelum Factory



Tree Plantation with Families



Factory Awareness & Celebrations



NGO Collaboration - Garbage Collection



3.9.1 - WATER GOVERNANCE



INSTALLATION OF SENSOR TAPS

➤ **Description:**

Installation of Sensor Taps in Hand wash cafeteria, washroom hand wash SMD & worker washroom

➤ **Objective:**

1. Reduction in Water wastage
2. Reduction in water extraction

➤ **Target:**

1200 m³ water reduction annually

➤ **AWS Outcome:**

Good Water Governance



INSTALLATION OF CONDENSATE RECOVERY LINE

➤ **Description:**

Installation of condensate recovery line from admoist , DCC and casing kitchen area to Boiler House condensate Tank

➤ **Objective:**

Recovery of Condensate water from Conditioning Area

➤ **Target:**

Improving Water Governance through reducing Water Withdrawal

➤ **AWS Outcome:**

Good Water Governance



SHIFTING OF SITE GROUND WATER LINES ABOVE GROUND LEVEL

➤ **Description:**

All fresh Water underground Lines are shifted above ground level.

➤ **Objective:**

1. Eliminate unnoticed underground water losses
2. Water lines to shifted above ground and separated for all water facilities

➤ **Target:**

1000 M3 Annual Reduction through leakage prevention

➤ **AWS Outcome:**

Good Water Governance



INSTALLATION OF PRESSURE REDUCING VALVE

- **Description:**
Water pressure reducing valve installed at line of ablution
- **Objective:**
Installation of PRV at main water supply line in Masjid area
- **Target:**
Water Governance
- **AWS Outcome:**
Good Water Governance



INSTALLATION OF WATER SPRINKLERS

➤ **Description:**

Adjust sprinklers to irrigate landscapes only instead off water flowing using gardener pipe

➤ **Objective:**

Introducing sprinklers to irrigate landscapes area

➤ **Target:**

Optimization of process to reduce water usage

➤ **AWS Outcome:**

Good Water Governance



UTILIZATION OF RECYCLED WATER

➤ **Description:**

Treated water is utilized in gardening, flush tanks, cooling towers & air washers

➤ **Objective:**

Treated Wastewater utilization in utilities, gardening, flush tanks, solar plates cleaning

➤ **Target:**

Reducing Fresh Water Usage

➤ **AWS Outcome:**

Good water governance



DAILY MONITORING OF WATER CONSUMPTION



2022 DAILY WATER CONSUMPTION																						
		SMD HVAC Area			PMD DCCC			Misc Genset/ETP			Admin (canteen, Masjid washrooms)			SMD			FA Overhead Tank			Fire Hydrant System		
	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (m3)	Prev-Reading	Cur-Reading	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (Ltrs)	Prev-Reading	Cur-Reading	Diff (Ltrs)
25-Aug-21	-	21,880,083	21,937,679	57.6	8,732,488	8,732,488	-	1,078	1,078	-	-	-	-	57,006	57,014	8.00	232,621	232,814	193.00	10,218	10,220	2.00
26-Aug-21	-	21,937,679	21,997,278	59.6	8,732,488	8,732,488	-	1,078	1,079	1.00	-	-	-	57,014	57,028	14.00	232,814	232,984	170.00	10,220	10,221	1.00
27-Aug-21	-	21,997,278	22,060,700	63.4	8,732,488	8,732,488	-	1,079	1,080	1.00	-	-	-	57,028	57,035	7.00	232,984	233,129	145.00	10,221	10,221	-
28-Aug-21	-	22,060,700	22,122,940	62.2	8,732,488	8,732,488	-	1,080	1,087	7.00	-	-	-	57,035	57,040	5.00	233,129	233,282	153.00	10,221	10,221	-
29-Aug-21	-	22,122,940	22,187,388	64.4	8,732,488	8,742,616	10.13	1,087	1,097	10.00	-	-	-	57,040	57,047	7.00	233,282	233,463	181.00	10,221	10,221	-
30-Aug-21	-	22,187,388	22,244,328	56.9	8,742,616	8,742,616	-	1,097	1,104	7.00	-	-	-	57,047	57,061	14.00	233,463	233,680	217.00	10,221	10,221	-
31-Aug-21	-	22,244,328	22,312,896	68.6	8,742,616	8,742,616	-	1,104	1,110	6.00	-	-	-	57,061	57,069	8.00	233,680	233,914	234.00	10,221	10,221	-
1-Sep-21	-	22,312,896	22,379,291	66.4	8,742,616	8,749,858	7.24	1,110	1,114	4.00	-	-	-	57,069	57,078	9.00	233,914	234,103	189.00	10,221	10,222	1.00
2-Sep-21	-	22,379,291	22,442,131	62.8	8,749,858	8,749,858	-	1,114	1,114	-	-	-	-	57,078	57,085	7.00	234,103	234,282	179.00	10,222	10,222	-
3-Sep-21	-	22,442,131	22,510,836	68.7	8,749,858	8,757,684	7.83	1,114	1,114	-	-	-	-	57,085	57,085	-	234,282	234,470	188.00	10,222	10,222	-
4-Sep-21	-	22,510,836	22,571,361	60.5	8,757,684	8,757,684	-	1,114	1,114	-	-	-	-	57,085	57,103	18.00	234,470	234,659	189.00	10,222	10,222	-
5-Sep-21	-	22,571,361	22,619,416	48.1	8,757,684	8,757,684	-	1,114	1,115	1.00	-	-	-	57,103	57,109	6.00	234,659	234,850	191.00	10,222	10,222	-
6-Sep-21	-	22,619,416	22,678,241	58.8	8,757,684	8,757,684	-	1,115	1,115	-	-	-	-	57,109	57,126	17.00	234,850	235,032	182.40	10,222	10,222	-
7-Sep-21	-	22,678,241	22,741,153	62.9	8,757,684	8,757,684	-	1,115	1,115	-	-	-	-	57,126	57,133	7.00	235,032	235,200	168.00	10,222	10,236	14.00
8-Sep-21	0.01	22,741,153	22,821,208	80.1	8,757,684	8,767,674	9.99	1,115	1,115	-	-	-	-	57,133	57,144	11.00	235,200	235,375	175.00	10,236	10,237	1.00
9-Sep-21	-	22,821,208	22,913,894	92.7	8,767,674	8,770,618	2.94	1,115	1,115	-	-	-	-	57,144	57,151	7.00	235,375	235,550	175.00	10,237	10,237	-
10-Sep-21	-	22,913,894	22,974,175	60.3	8,770,618	8,773,948	3.33	1,115	1,115	-	-	-	-	57,151	57,157	6.00	235,550	235,759	209.00	10,237	10,237	-
11-Sep-21	-	22,974,175	23,016,402	42.2	8,773,948	8,773,948	-	1,115	1,115	-	-	-	-	57,157	57,165	8.00	235,759	235,881	122.00	10,237	10,237	-
12-Sep-21	-	23,016,402	23,068,870	52.5	8,773,948	8,773,948	-	1,115	1,116	1.00	-	-	-	57,165	57,151	(14.00)	235,881	236,051	170.00	10,237	10,237	-
13-Sep-21	-	23,068,870	23,126,340	57.5	8,773,948	8,773,948	-	1,116	1,116	-	-	-	-	57,151	57,183	32.00	236,051	236,210	159.00	10,237	10,237	-
14-Sep-21	-	23,126,340	23,185,321	59.0	8,773,948	8,781,634	7.69	1,116	1,116	-	-	-	-	57,183	57,188	5.00	236,210	236,396	186.00	10,237	10,237	-
15-Sep-21	-	23,185,321	23,245,146	59.8	8,781,634	8,786,186	4.55	1,116	1,116	-	-	-	-	57,188	57,195	7.00	236,396	236,592	196.00	10,237	10,237	-
16-Sep-21	-	23,245,146	23,303,826	58.7	8,786,186	8,786,186	-	1,116	1,116	-	-	-	-	57,195	57,201	6.00	236,592	236,770	178.00	10,237	10,237	-
17-Sep-21	-	23,303,826	23,381,844	78.0	8,786,186	8,786,186	-	1,116	1,116	-	-	-	-	57,201	57,206	5.00	236,770	236,948	178.00	10,237	10,237	-

MAINTENANCE OF FILTRATION PLANTS

Pakistan Tobacco Company has deployed 5 Filtration Plants in the Jhelum City, the maintenance of these plants is carried out by our enlisted vendor, Kontel Technologies Pvt. Ltd.

The Maintenance Activities include, but are not limited to the following;

- CIP of membrane, Sand Filter, Carbon Filter and UV Rod
- Cartridges Replacement
- Product Water Tank CIP
- Installation/ Servicing Broken/ Damaged parts
- Maintaining monthly log sheets of the pH values, TDS, flow rate etc.,

STAKEHOLDERS ENGAGEMENT

- Promoting Stewardship with Peer Organizations
- Supporting coordination among relevant institutions
- Demonstrating good water governance through participating in Public-Private partnerships
 - AWS Awareness
 - Opportunities for collaboration
 - Learning about water related risks



AWS EXTERNAL STAKEHOLDER ENGAGEMENT - CATCHMENT WATER RISK SURVEY

DATE: _____
PARTICIPANTS: _____
PTC ID: _____
STAKEHOLDER: _____
AREA: _____

1. How many societies are you providing water to?

2. Have you already conducted a water risk assessment for your area?
 Yes No
3. Is the water table depth depleting?
 Yes No
4. Is there a probability of floods in the area you are providing water to?
 Yes No
5. Do you have means to tackle water temporary water shortage issues?
 Yes No
6. What is the condition of the tube wells that you draw water from?
 Satisfactory Unsatisfactory
7. Do you have plans for to sustain your water balance?
 Yes No
8. Do you have knowledge about the water related challenges of your area?
 Yes No
9. Which is the biggest water related challenge that your organization is facing?

3.9.2 - WATER BALANCE



INSTALLATION OF CONDENSATE RECOVERY LINE

➤ **Description:**

Installation of condensate recovery line from admoist , DCC and casing kitchen area to Boiler House condensate Tank

➤ **Objective:**

Recovery of Condensate water from Conditioning Area

➤ **Target:**

1000 M3 Reduction in Water Withdrawal

➤ **AWS Outcome:**

Good Water Governance



TREATED WASTEWATER UTILIZATION

➤ **Description:**

Treated water is utilized in gardening, flush tanks, cooling towers & air washers

➤ **Objective:**

Treated Wastewater utilization in utilities, gardening, flush tanks, solar plates cleaning

➤ **Target:**

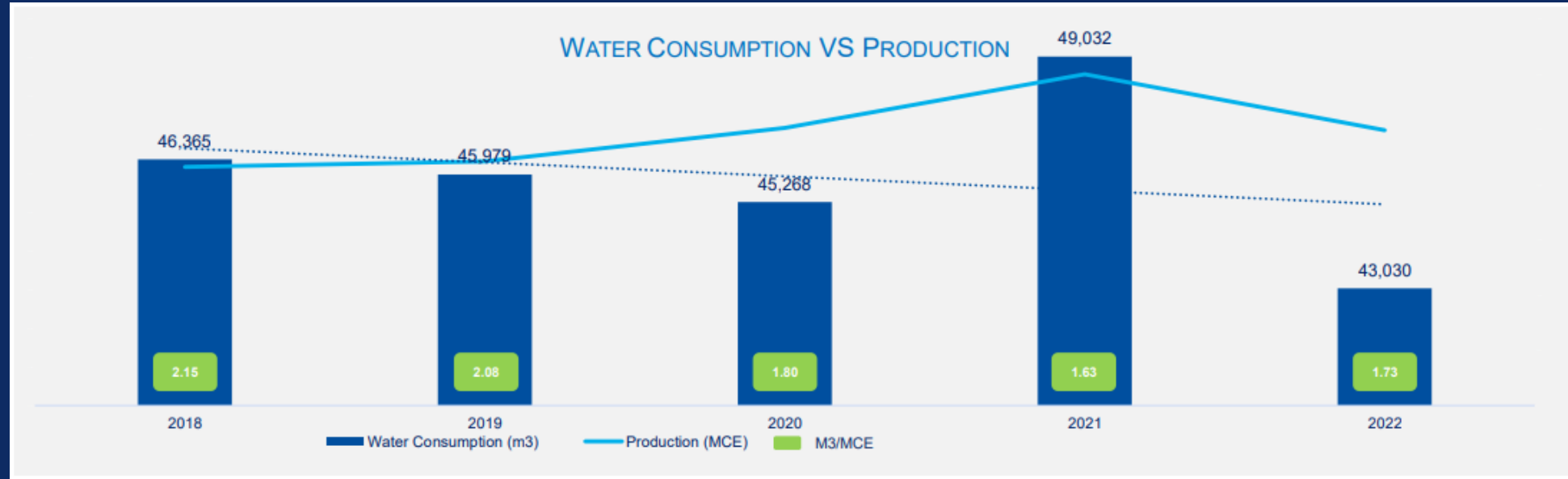
Reducing Water Withdrawal

➤ **AWS Outcome:**

Sustainable Water Balance



REDUCTION IN WATER WITHDRAWAL



Since 2018, PTC has been scrutinizing its water consumption against production. The site has implemented executed various projects to achieve reduction in water withdrawal

SITE WATER ASSESSMENT

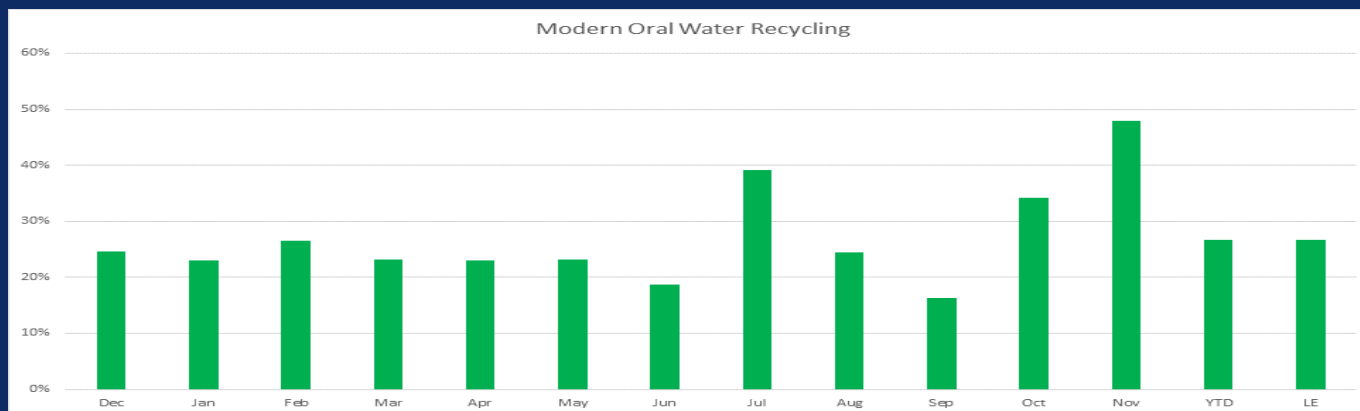
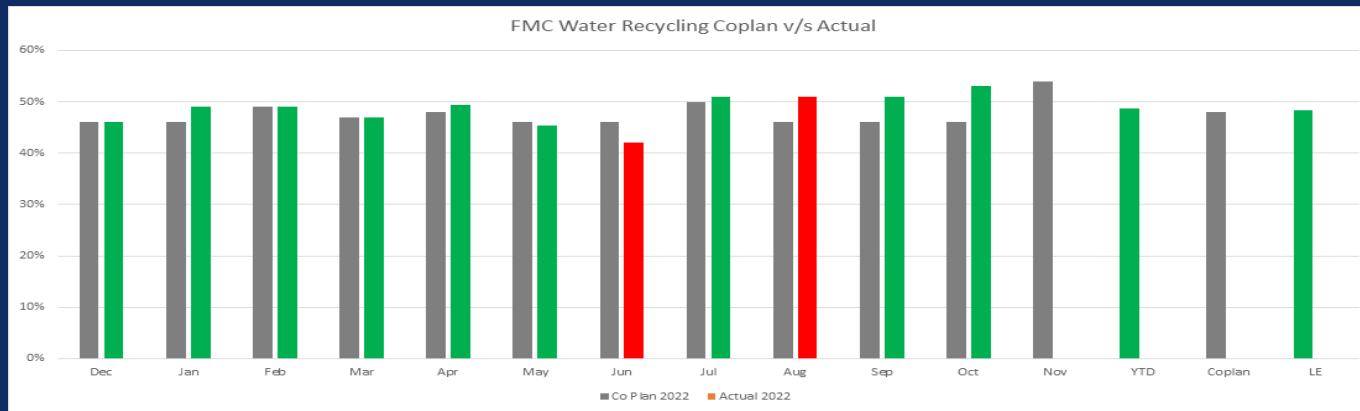


- Site water leakages are identified through factory near-miss reporting portal
- These near-misses are tracked in departmental and Sustainability DDS for timely closures

Name of Near Miss Observer	Department of NM Observer	Date of Near Miss	Type of Near Miss	Sub Categorization	Location	Near Miss Description	Target Date	Responsible Department	Responsibility	Priority	Status
Danish Ayub	PMD	2-Oct-21	Machinery&Entrapment	Machinery-Leakage	Admoist area	Water dripping due to steam leakage.	6-Oct-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	18-Oct-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage near DCCC steam line. While switching ON/OFF the valve , hand can be burnt.	20-Oct-21	PMD	PMD Manager	M	Closed
Muhammd Boota	PMD	15-Nov-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage in pmd at admoist area.	17-Nov-21	PMD	PMD Manager	M	Closed
Imran Gul	PMD	25-Nov-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from STS dryer.	30-Nov-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	26-Nov-21	Machinery&Entrapment	Machinery-Leakage	PMD	steam leakage from casing tank #2. Solonoid valve is out of order.	1-Dec-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	28-Nov-21	Machinery&Entrapment	Machinery-Leakage	PMD	Water leakage due to steam leakage.	3-Dec-21	PMD	PMD Manager	M	Closed
Arslan Aslam	PMD	29-Nov-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from admoist in conditioning section.	4-Dec-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	4-Dec-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage under STS area.	8-Dec-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	14-Dec-21	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage at DCCC area.	19-Dec-21	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	4-Jan-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage issue at Admoist area.	7-Jan-22	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	14-Jan-22	Machinery&Entrapment	Machinery-Leakage	Admoist	Steam leakage due to steam heater pipe damaging	17-Jan-22	PMD	PMD Manager	L	Closed
Danish Ayub	PMD	25-Jan-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from casing kitchen	31-Jan-22	PMD	PMD Manager	L	Closed
Danish Ayub	PMD	22-Feb-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage at DCCC valve.	28-Feb-22	PMD	GLT Manager	M	Closed
Danish Ayub	PMD	23-Feb-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage at DCCC valve.	28-Feb-22	PMD	GLT Manager	L	Closed
Usman Hanif	PMD	28-Feb-22	Machinery&Entrapment	Machinery-Leakage	PMD	Damaged cladding at CPS dryer mainsteam line valve.	3-Mar-22	PMD	GLT Manager	L	Closed
Danish Ayub	PMD	4-Mar-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage at admoist tank.	8-Mar-22	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	7-Mar-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from DCCC stem panel.	9-Mar-22	PMD	PMD Manager	L	Closed
Danish Ayub	PMD	11-Mar-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from recirculation fan of DCCC.	16-Mar-22	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	17-Mar-22	Machinery&Entrapment	Machinery-Leakage	PMD	Water dripping from steam line of lamina cutter. Slipping hazard.	10-Apr-22	PMD	PMD Manager	M	Closed
Arslan Chawla	PMD	20-May-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam leakage from DCCC hot water tank.	30-Jul-22	PMD	PMD Manager	L	Closed
Danish Ayub	PMD	25-May-22	Machinery&Entrapment	Machinery-Leakage	PMD DCCC Water Tank	Suddenly Steam was started to be leaked when MFL workers were performing their jobs. It is seriously against the safety policy. It can burn hands badly.	30-Jun-22	PMD	PMD Manager	L	Closed
Jawad Ahmed	PMD	14-Jun-22	Machinery&Entrapment	Machinery-Leakage	PMD	Steam condensate leakage on floor	19-Jun-22	PMD	PMD Manager	L	Closed
Mir Ammar ali	PMD	22-Jun-22	Machinery&Entrapment	Machinery-Leakage	PMD	Water leakage from main steam panle at XL dryer.	25-Jun-22	PMD	PMD Manager	L	Closed
Jawad Ahmed	PMD	28-Jun-22	Machinery&Entrapment	Machinery-Leakage	PMD	Person can fall due to steam leakage /wet floor	2-Jul-22	PMD	PMD Manager	L	Closed
Danish Ayub	Engr	30-Jul-22	Machinery&Entrapment	Machinery-Leakage	PMD DCCC Area	Water dripping due to steam leakage. Slipping hazard. Area DCCC steam panel.	5-Aug-22	PMD	PMD Manager	M	Closed
Umar Farooq	PMD	3-Aug-22	Machinery&Entrapment	Machinery-Leakage	PMD	Casing leakage from main DCCC steam panel.	12-Aug-22	PMD	PMD Manager	M	Closed
Danish Ayub	PMD	6-Aug-22	Machinery&Entrapment	Machinery-Leakage	PMD	Water is dripping on electric duct because of steam leakage. Slipping hazard is also detected there. Area DCCC	15-Aug-22	PMD	PMD Manager	L	Closed

WATER RECYCLING

- Main water bodies - Ground water and Tube well
- PTC stands 3rd in water recycling in BAT world
- ETP plant installed in 2002
- Wastewater is being treated in ETP and utilized in flush tanks, Solar plates cleaning and Gardening



3.9.3 & 3.9.5 - WATER QUALITY & WASH



WATER QUALITY MONITORING & ANALYSIS



Element	Location	Parameter	Frequency	Report
Water Chemical Analysis - Tube Wells, OHT & Drinking Water Test	Factory Area (drinking outlets) Residential Area (random)	Turbidity, pH @ 25 °C, Color, Odor, Taste, TDS, Hardness, Nitrates, Phenols, Cyanide, Chloride, Chlorine, Fluoride, Heavy metals	Quarterly	External
		, Pesticides, Alpha Beta emitters, PAHs	Once in a Year (For Tubewells)	External
Effluent	From ETP Outlets	Temperature, Ph, BOD, COD, TDS, TSS, oil and grease, phenolic compounds, heavy metals	monthly	External
		pesticides	Twice a year	External
Legionella	Fire Hydrant ETP storage, ETP Treated water, HVAC Cooling tower, CTS AHU, CVS Cooling Tower, CVS water tank, storage Tanks, water reservoir tank, RA swimming pool	Microbial count, Legionella	Microbial count is done weekly, Legionella is done quarterly	Microbial count is done internally, Legionella is done externally
Nicotine analysis in water	ETP inlet & outlet	Concentration	Yearly	External



WATER QUALITY ANALYSIS

Sample No.	C&P-LHR-23-336/07-01				
Sample ID & Matrix	central filtration system (Drinking Water)				
Lab Receiving Date	04-07-2023: 12:30				
Sampled By	As Supplied		Limit as per PEQS		Remarks
Parameter	Units	LOR	Results	Drinking Water	
pH based on APHA 4500H⁺ B 23rd Edition					
*pH @ 25 ^o C	pH unit	0.1	7.09	6.5 – 8.5	C
Odour In House (Organoleptic)					
Odour	-	-	Non-Objectionable	Non-Objectionable	C
Taste In House (Organoleptic)					
Taste	-	-	Non-Objectionable	Non-Objectionable	C
Color based on APHA 2120 B & C 23rd Edition (Lovibond Mth No. 203)					
Color	Pt-Co	5.0	<5.0	≤15 TCU	C
Turbidity based on APHA 2130 B 23rd Edition					
Turbidity	NTU	1.0	<1.0	<5 NTU	C
Total Dissolved Solids based on APHA 2540 C 23rd Edition					
*Solids, Total Dissolved (TDS)	mg/L	5.0	294	<1000	C
Total Hardness based on APHA 2340 B & C 23rd Edition					
*Hardness, Total as CaCO ₃	mg/L	1.0	200	<500	C
Nitrate Nitrogen (NO₃⁻) based on APHA 4500 NO₃⁻ B 23rd Edition					
(NO ₃ ⁻ -N)	mg/L	1.0	<1.0	≤50	C
Fluoride based on APHA 4500 F⁻ B & D 23rd Edition					
Fluoride F ⁻	mg/L	1.0	<1.0	≤1.5	C
Cyanide based on APHA 4500 CN⁻ E 23rd Edition					
Cyanide (CN ⁻)	mg/L	0.05	<0.05	≤0.05	C
Chloride based on APHA 4500Cl⁻ B 23rd Edition					
*Chloride	mg/L	0.5	3.94	<250	C
Total Phenols based on APHA 5530 D 23rd Edition					
Phenols, Total (Phenolic Compounds)	mg/L	0.01	<0.01	-	-
Chlorine based on DPD- Colorimetric APHA-4500 G 23rd Edition					
Chlorine (Residual)	mg/L	0.01	<0.01	0.2—0.5***	C

WATER QUALITY ANALYSIS

Sample No.	C&P-LHR-23-336/07-01				
Sample ID & Matrix	central filtration system (Drinking Water)				
Lab Receiving Date	04-07-2023: 12:30		Limit as per PEQS		
Sampled By	As Supplied		Drinking Water		
Total Colony Count Pour Plate Technique APHA 9215 B 23rd Edition					
*Total Colony Count	CFU/ml	-	41	-	-
Total Coli forms Membrane Filtration Technique APHA 9222 B 23rd Edition					
*Total Coli forms	CFU/100ml	-	Absent	0CFU/100ml	C
Faecal Coli forms (E.Coli) Membrane Filtration Technique APHA 9222 D 23rd Edition					
* Faecal Coli forms(E.Coli)	CFU/100ml	-	Absent	0CFU/100ml	C
Faecal Streptococci/ Enterococci Membrane Filtration Technique APHA 9230 C 23rd Edition					
*Faecal Streptococci/ Enterococci	CFU/100ml	-	Absent	-	-

INSTALLATION OF FILTRATION PLANTS

➤ **Description:**

Installation of Filtration Plants with Highly Absorptive Activated Alumina Media

➤ **Objective:**

Improve Drinking Water Quality by Reducing the Selenium in water which increases due to seasonal changes.

➤ **Target:**

Selenium 0.041mg/L to 0.005mg/L

➤ **AWS Outcome:**

Good Water Quality Status



RO PLANTS

➤ **Description:**

Installation of RO Plants

➤ **Objective:**

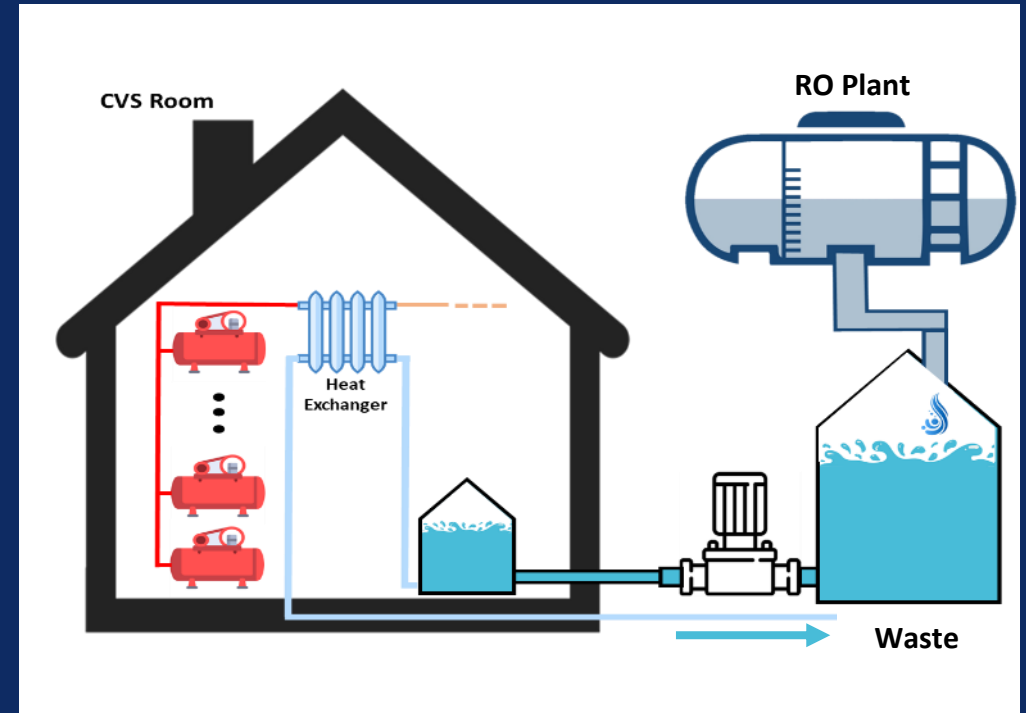
Improvement in Water Quality

➤ **Capacity:**

3500 m³/ hr

➤ **AWS Outcome:**

Good Water Quality Status



UV LIGHT

➤ **Description:**

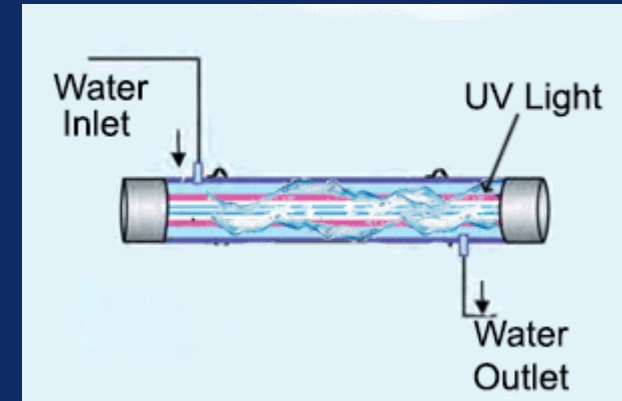
Installation of UV Light

➤ **Objective:**

Provision of Safe Drinking Water

➤ **AWS Outcome:**

Good Water Quality Status



TRAINING ON GOOD HYGIENE PRACTICES

➤ **Description:**

1. Awareness on WASH
2. Awareness on Water Quality Issues
3. Awareness on Possible Solutions

➤ **Target:**

WASH and Water Challenges Awareness

➤ **AWS Outcome:**

WASH & Good Water Quality Status



WATER FILTRATION PLANTS

Pakistan Tobacco Company has deployed 5 Filtration Plants in the Jhelum City, the maintenance of these plants is carried out by our enlisted vendor, Kontel Technologies Pvt. Ltd.

The Maintenance Activities include, but are not limited to the following;

- CIP of membrane, Sand Filter, Carbon Filter and UV Rod
- Cartridges Replacement
- Product Water Tank CIP
- Installation/ Servicing Broken/ Damaged parts
- Maintaining monthly log sheets of the pH values, TDS, flow rate etc.,

PROVISION OF FILTRATION PLANTS IN JHELUM DISTRICT

- Location: MM3, Jhelum City
- Installation: November'20
- Maintenance Responsibility: PTC
- Capacity: 2m³/ hr



PROVISION OF FILTRATION PLANTS IN JHELUM DISTRICT

- Location: Chak Abdulah Khalik, Dina City
- Installation: September'21
- Maintenance Responsibility: PTC
- Capacity: 2m³/ hr



PROVISION OF FILTRATION PLANTS IN JHELUM DISTRICT

- Location: Khai Kullian
- Installation: November'21
- Maintenance Responsibility: PTC
- Capacity: 2m³/ hr



PROVISION OF FILTRATION PLANTS IN JHELUM DISTRICT

- Location: Mandhaar
- Installation: April'21
- Maintenance Responsibility: PTC
- Capacity: 2m³/ hr



PROVISION OF FILTRATION PLANTS IN JHELUM DISTRICT

- Location: Jandran
- Installation: April'21
- Maintenance Responsibility: PTC
- Capacity: 2m³/ hr



WASH PROVISION ON SITE & MONITORING PLAN



No	Water Use	Purpose of water use	quality requirements	maintenance requirements	water availability requirements	remarks
1	Water					
	Operation	Production	Quality to comply with Factories Act 1935	1. Weekly Leginella Dip Test 2. Annual Water Tank Cleaning	24 hours 365 days	
	Facilities	Production Support	Quality to comply with Factories Act 1936	1. Quarterly water sampling 2. Annual water tank cleaning	24 hours 365 days	
	Office & Pantry	Office Staffs	Quality to comply with Factories Act 1937	1. Quarterly water sampling 2. Annual water tank cleaning 3. Annual medical of critical employees	24 hours 365 days	

No	Type	WASH Action	Frequency	Resources Required	Responsibilities	Records
2	Sanitation					
	Operation Area, Floor	Flooring, Mopping	Daily	Budget for Tools Provided	3rd Party Contractor	Cleaning Checklist and Forms
	Office	Flooring, Mopping	Daily	Budget for Tools Provided	4th Party Contractor	Cleaning Checklist and
	Waste Bin Area	Flooring, Mopping, Waste Collecting	Daily	Budget for Tools Provided	5th Party Contractor	Cleaning Checklist and
	Toilets	Flooring, Mopping, Toilet Cleaning	Daily	Budget for Tools Provided	6th Party Contractor	Cleaning Checklist and
	Smoking Facility	Flooring, Mopping, Cig butt cleaning	Daily	Budget for Tools Provided	7th Party Contractor	Cleaning Checklist and Forms

No	Type	WASH Action	Frequency	Resources Required	Responsibilities	Records
3	Hygiene					
	Individual	Hand/Body	Daily	Soap, Towel	EHS	Inventory Maintained
	Equipment	Equipment Inspection and Cleaning	Daily	Cleaning Chemicals	EHS	Inventory Maintained
	Virus	Mask, Hand Sanitizer	Daily	Virus Related Items	EHS	Inventory Maintained

WASH Monitoring Plan

PUBLIC COMMUNICATIONS

ALLIANCE FOR WATER
STEWARDSHIP



AWS کا مقصد ہر ایک کے پانی کا خیال رکھنا ہے۔



آپنے عہد کریں کہ پانی کو محفوظ کریں اور اپنی آنے والی نسلوں کے لیے ایک بہتر دنیا چھوڑیں



اقدامات

WATER EVERYWHERE
AND NOT A DROP TO
DRINK...

پانی کے بغیر زندگی نہیں۔ پاکستان کی اکثریتی آبادی کو پانی کی شدید قلت کا سامنا ہے۔ ہم اپنے آبی وسائل کو تیزی سے ختم کر رہے ہیں۔

پاکستان 2025 تک خشک ہو سکتا ہے!

آپ کیسے تعاون کر سکتے ہیں؟
چھوٹے قدموں سے شروع کریں۔
نل کو غیر ضروری طور پر چلنے نہ دیں۔
مختصر شاور لیں۔
پانی کے رساو کی جانچ کریں۔

اپنی پڑوسی کمیونٹی کے ساتھ مشترکہ پانی کے مسائل کا مطالعہ اور سمجھنا

ان مسائل کے خاتمے کے لیے منصوبہ بندی کرنا

ان منصوبوں پر عمل درآمد

اپنے کام کے بارے میں رائے جمع کرنا

اپنے کام کو عوامی طور پر ظاہر کرنا

#SAVEWATER

AWS کے نتائج



GOOD WATER GOVERNANCE



SUSTAINABLE WATER BALANCE



GOOD WATER QUALITY STATUS



IMPORTANT WATER-RELATED AREAS



SAFE WATER, SANITATION AND HYGIENE FOR ALL (WASH)

سب کے لیے محفوظ پانی، حفظان صحت اور صفائی ستھرائی

اپنے ہاتھ کب دھوئیں؟



زخم کو چھونے کے بعد



جانور کو تھپتھپانے کے بعد



کھانا تیار کرنے سے پہلے



ٹوائلٹ استعمال کرنے کے بعد



جب آپ کے ہاتھ گندے ہوں

اپنے ہاتھ کیسے دھوئیں؟



خشک ہاتھ



اپنے ہاتھ دھوئیں۔



اپنے ہاتھوں کو کم از کم 1 منٹ تک رکھیں۔



صاف لگائیں۔



اپنے ہاتھ گلے کریں۔

وائر بیرو بنیں

دنیا کو 40 فیصد کمی کا سامنا کرنا پڑے گا۔ 2030 تک پانی کی دستیابی میں آنے اب اپنے پانی کو مؤثر طریقے سے استعمال کریں



صاف فضلہ کے لیے اٹھا ہٹیں استعمال کریں



ہاتھوں کو صاف لگائیں اور وقت نل بند کریں



مختصر شاور لیں



اپنے دانتوں کو برس کر کے وقت ایک گھنٹہ پانی کا استعمال کریں



شیکے والے نلکوں اور لیکیجز کی اصلاح کریں

3.9.4 - IWWRAs



CLEAN-UP DRIVE FOR RIVER JHELUM

Being a responsible water steward, PTC Jhelum collaborated with an NGO to execute a clean-up drive on the bank of river Jhelum - an Important Water Related Area on which majority of the population relies for its livelihood, water supply and recreation.

The drive was one of the many activities of the “World Environment Week” aimed at raising awareness both on and off site regarding the need for Environmental Conservation.



COMBATING DEFORESTATION

To combat deforestation, PTC donates saplings from its nursery.

In 2022 alone, 700K+ Saplings were donated to a variety of audience including but not limited to Governmental Organizations such as the Environmental Protection Agency.

The donations are aimed to enlighten the general public regarding the status of forests as IWRAs and to make up for the damages of deforestation.



MAINTENANCE OF FILTRATION PLANTS

Pakistan Tobacco Company has deployed 5 Filtration Plants in the Jhelum City, the maintenance of these plants is carried out by our enlisted vendor, Kontel Technologies Pvt. Ltd.

The Maintenance Activities include, but are not limited to the following;

- CIP of membrane, Sand Filter, Carbon Filter and UV Rod
- Cartridges Replacement
- Product Water Tank CIP
- Installation/ Servicing Broken/ Damaged parts
- Maintaining monthly log sheets of the pH values, TDS, flow rate etc.,

MAINTENANCE OF OVERHEAD TANKS

➤ **Description:**

1. Water level and leakage inspection after every shift
2. Annual Deep Cleaning of Overhead Tanks
3. Dip Slide Tests every Week to check for any bacterial contamination
4. Water Quality Inspection every Quarter

➤ **Objective:**

Maintenance of IWRAs

➤ **AWS Outcome:**

Maintenance of IWRA



SHIFTING OF SITE GROUND WATER LINES ABOVE GROUND LEVEL

➤ **Description:**

All fresh Water underground Lines are shifted above ground level and new lines installed

➤ **Objective:**

Improvement in Infrastructure

➤ **AWS Outcome:**

Maintenance of IWRA



MAINTENANCE AND CLEANING OF WASHROOMS

➤ **Description:**

Ensuring Cleaning of all washrooms after every 2 hours

➤ **Objective:**

Maintenance of Washrooms for provision of WASH services to all employees

➤ **AWS Outcome:**

Maintenance of IWRAs



MAINTENANCE OF LAWNS AND GARDENS

➤ **Description:**

Assigning dedicated contractor for lawn maintenance

➤ **Objective:**

Maintenance of lawns

➤ **AWS Outcome:**

Maintenance of IWRA



THANK YOU!