WATER STEWARDSHIP

Report on Water Performance of the Philip Morris Pakistan PMPKL Mardan





Water scarcity, the lack of sufficient available water to meet demands, is recognized by the World Economic Forum as the largest global risk in terms of potential impact for both humanity and the environment. Growing populations, economies, water-related risks as well as climate change have provoked an increase in demand, competition and conflicts over freshwater resources, that are becoming ever more limited.

Philip Morris (Pakistan) Limited ("PMPKL") is an affiliate of Philip Morris International ("PMI"). PMPKL is public listed company incorporated under applicable laws with its Head Office in Karachi, a cigarette manufacturing factory in Sahiwal and green leaf threshing unit in Mardan. As part of PMI's commitment to implement the Alliance for Water Stewardship (AWS), PMPKL is working to adopt a more sustainable water use both on-site and in the territorial context in which it operates. PMPKL's GLT factory in Mardan is working towards achieving the Core Level of the AWS Certification: PMPKL Mardan will become the second Site in the Pakistan to receive this important recognition and have formalized its commitment to water stewardship principles and outcomes.

By implementing the AWS Standard, PMPKL Mardan is working towards offering a credible, globallyapplicable framework for other major water users and Stakeholders in the catchment, with the scope of encouraging their understanding of water use, impacts and shared water-related risks. The longterm aim is to join forces and set fundamental stepping stones for synergic and meaningful collaborations towards sustainable water management practices within the local territory in which we all live and operate.

Over the upcoming years, PMPKL Mardan aims to progressively implement, improve and grow its commitment as a water steward. PMPKL Mardan's scope is to raise awareness on shared water-related challenges, such as degrading surface water quality, provision of safe Water, Sanitation and Hygiene (WASH), flashfloods and baseline water stress, and actively contribute to addressing these risks with projects, actions and campaigns in collaboration with relevant Stakeholders of the local territory.

Dealing with a shared resource, such as water, requires working in a transparent, collaborative and synergic way with relevant figures in a catchment area: actions and projects cannot be limited to a site's physical boundary alone.

PMPKL Mardan factory is proud of this journey that it is undertaking and, although the path to build a sustainable future is still ongoing, the AWS Certification and related actions have and will continue to make a significant change in the management and perception of the water resource in the Pakistan.

The PMPKL Mardan Pakistan AWS TEAM

PMPKL Mardan's Commitment to water stewardship and AWS outcomes, signed by Faisal Mushtaq - Director Manufacturing Pakistan, is illustrated below and available both in English and Urdu.



PHILIP MORRIS (PAKISTAN) LIMITED

7th July, 2023

PMPKL Water Stewardship Commitment

Philip Morris Pakistan Limited ("PMPKL"), as a result of its commitment to good water stewardship, undertakes to implement following measures at its Green Leaf Threshing plant situated at 22nd KM Mardan Swabi Road-Mardan:

- Endorse, sustain and support the Alliance for Water Stewardship ("AWS") principles and 5 outcomes: i) good water governance, ii) sustainable water balance, iii) good water quality, iv) good conservation of important areas related to water, and v) safe water, sanitation and hygiene;
- 2. Engage and involve stakeholders in an open and transparent way;
- 3. Comply with any legal and regulatory requirements related to water;
- Respect water-related rights, including ensuring appropriate access to safe water, sanitation, and hygiene for all persons at Site;
- Support and coordinate with stakeholders (internal and external) for implementation of plans and policies, including working together to meet the right to water and sanitation;
- 6. Implement the AWS standard in alignment with existing catchment sustainability plans
- Improve and continually adapt the actions and plans for water stewardship of the Site in order to mitigate shared water related risks;
- Implement and disclose-progress on water stewardship programs to achieve improvements in AWS water stewardship outcomes
- Maintain the organizational capacity required to successfully implement the AWS Standard, through
 necessary resources required to accomplish the implementation and maintenance of requirements of the
 AWS Standard i.e., improving water quality, water sanitation and hygiene, reduce water wastage, etc.
- 10. Disclose relevant information related to water.

Director Manufacturing, Pakistan Faisal Mushtaq



7 جولائى 2023

بی ایم پی کے ایک واثر اسٹیورڈ شپ کا عزم

قلب مورس پکستان لمیٹڈ ("پی ایم پی کے ایل") پانی کی اچھی دیکھ بھال کے عزم کے نتیجے میں، 22 ویں کلومیٹر مردان صوابی روڈ۔ مردان میں واقع اپنے گرین لیف تھرٹنڈک پلانٹ میں مندرجہ ذیل اقامات پر عمل درآمد کا عبد کرتا ہے:

- الائنس فار واتر استیورڈشپ ("اے ڈبلیو ایس") کے اصولوں اور 5 نتائج کی توثیق، برقرار اور حمایت: 1) اچھی پانی کی حکمرانی، 2) پائیدار پانی کا توازن، 3) پانی کا اچھا معیار، 4) پانی سے متعلق اسم علاقوں کا اچھا تحفظ، اور 5) صاف پانی، صفائی ستھرائی اور حفظان صحت؛
 - استیک ہولڈرز کو کھلے اور شفاف طریقے سے شامل کریں اور شامل کریں۔
 - پانی سے متعلق کسی بھی قانونی اور ریگولیٹری نقاضوں کی تعمیل کریں۔
- پانی سے متعلق حقوق کا احترام کریں ، بشمول سائٹ پر تمام افراد <u>کے لئے</u> محفوظ پانی ، صفائی ستھرائی اور حفظان صحت تک مناسب رسائی کو یقینی بنانا۔
- متصوبوں اور پالیسیوں کے نفاذ کے لئے اسٹیک سولڈرز (اندرونی اور بیرونی) کے ساتھ تعاون اور ، بشمول پانی اور صفائی ستھرائی کے حق کو یورا کرنے کے لئے مل کر کام کرنا؟
 - موجودہ کیچمنٹ پائیداری کے منصوبوں کے مطابق اے ڈبلیو ایس معیار کو نافذ کریں
- مشترکه بانی سے متعلق خطرات کو کم کرنے کے لئے سائٹ کے بانی کی دیکھ بھال کے لئے اقدامات اور منصوبوں کو بہتر بنانا اور مسلسل ڈھالنا؟
- اے ڈبلیو ایس واٹر اسٹورشپ کے نتائج میں بہتری حاصل کرنے کے لئے واٹر اسٹیورڈشپ پروگراموں پر پیش رفت پر ایک رپورٹ شائع کریں اور شائع کریں۔
- اے ڈبلیو ایس اسٹینڈرڈ کے نفاذ اور ضروریات کی دیکھے بھال کے لئے ضروری وسائل کے ذریع اے ڈبلیو ایس اسٹینڈرڈ کو کامیابی سے نافذ کرنے کے لئے درکار تنظیمی صلاحیت کو برقرار رکھنا یعنی پانی کے معیار کو بہتر بتانا، پانی کی صفائی اور حفظان صحت کو بہتر بتانا، پانی کے ضیاع کو کم کرنا وغیرہ۔
 - پانی سے متعلق متعلقه معلومات کا انکشاف کریں۔

Jatan

ڭائرىڭر مېنوفېكچرنگ، پاكستان فېصل مشتاق

قلب مور دن (باکستان)) لمینڈ ¹⁶22 کے اہم عر دان صوابی روٹ عر دان www.philipmonrispokistun.com.pk

ALLIANCE FOR WATER STEWARDSHIP ORGANIZATION

The AWS team members are responsible for implementing the AWS Standard criteria as well as achieving the AWS outcomes by the implementation of social, community and technological actions both on-site and in the catchment territory.

Project Sponsor	M. Irshad Khan Head of Leaf		Faisal Mushtaq Director Manufacturing, PMPKL				
PMI Buddy	Haseeb Ahm Manager Sus						
Coach	Chiara Rizzi Manager Global AWS certification						
Consultant	Saera Kirmai External Con	ni Isultant- Geos	cience				

AWS Project Lead											
Kulsoom Iftikhar Project Lead											
AWS Core Team Members											
	Asghar Khan		M. Bilal Ahmad								
	Boiler Engineer		Manager Leaf, Processing								
	Syed Muhammad Ali	-	Abdul Waris								
	Manager Production	R	Manager Maintenance								
	Hussain Ali		Hassan Zahoor								
	Sr Mgr Social Sustainability. LDR & Culture		Procurement category lead								
	Ahad Abdullah	8	Basit Tufail								
	Manager Illicit, trade prevention, EA	1 PL	OPEN+ Deployment lead								
12	Kulsum Khan/ Ramsha		Waseem Ali								
	Legal Affairs- Counsel		Supervisor WPE								

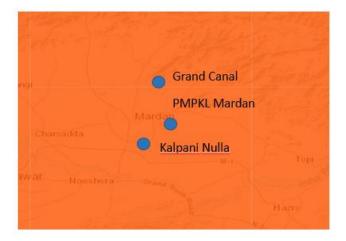
	AWS Project Lead											
	Kulsoom Iftikhar											
	Project Lead											
AWS Core Team Members												
	Arshad Zaman		M. Ikraam									
	Supervisor warehousing & logistics, S&PD		Warehouse executive, S&PD									
100	Hammad Shoaib		Faiza Lodhi									
	GT, Production	D	Manager Environment sustainability, SA									
	Ammara Shahjahan		Hajira Khan									
	Sustainable Agriculture	A A A A A A A A A A A A A A A A A A A	Internal Communications Lead									
	Sana Hashmi		Waqas Ali									
	Company secretary, Ext Communications		Labour Relations Executive									

Check out our Water Risk Assessment results!

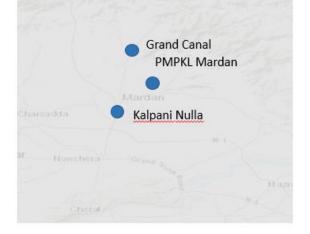
In 2023 PMPKL Mardan conducted a detailed water-risk assessment in order to identify the main waterrelated challenges that the factory is subjected to, as well as those shared by catchment Stakeholders!

The higher ranking risks in the catchment territory are directly linked to surface water quality deterioration, increase in flashfloods and lack of adequate WASH availability.

In the next few pages of this report, PMPKL Mardan will share some of the best practice actions, campaigns and projects that are aiming to make a difference.



Flood Occurrence



Drought occurrence









Map source: Water Risk Filer

Water-realted actions in PMFTC Marikina are focused on the 5 AWS outcomes of the AWS Standard:



GOOD WATER

GOVERNANCE



SUSTAINABLE

WATER

BALANCE



GOOD WATER

QUALITY

STATUS





IMPORTANT WATER-RELATED AREAS SAFE WATER, SANITATION AND HYGIENE FOR ALL (WASH)

WATER RISK ASSESSMENT

In order to better understand its local, catchment contexts and prioritize risk mitigation efforts, PMPKL Mardan carried out a water risk assessment by use of both global and local data sets.

The scope was to develop a reliable and integrated water stewardship strategy plan by:

- identifying water-related risk hotspots
- focusing responsive actions to address higher water risks
- anticipating, when possible, trends and impacts

Higher and more cataclismatic water risks for PMPKL Mardan and it's catchment context appeared to be realted to flooding and predicted increase as well as degrading freshwater quality. n/a Very low risk Very high risk

Flood Occurrence





<section-header><section-header><section-header><section-header><image>

Disclaimer: Some of the farmers are not contracted with us anymore but the facilities are still in use



AWS Performance Update (Social)

Distributed 170,000 saplings to selected contracted farmers

Provision of saplings to contracted farmers for self-sufficiency to reduce forest cuttings

To ensure sustainable water balance, IWRA and good governance











RAINWATER HARVESTING FOR WATERING PLANTS



WATER-RELATED AWARENSS CAMPAIGNS WITH EMPLOYEES

PMKL Mardan conducted internal awareness campaigns on water-related themes in relation to their water stewardship Commitment and AWS Certification journey. Employees were engaged in numerous activities:

- water-related information sharing via email, posters and dedicated posts
- collection of water-saving best practices and amelioration proposals
- dedicated workshops and water-related information request to outsource service providers
- water conservation art contest for employee children
- best practice WASH prescriptions in common areas
- flood awareness alert emails to ensure quick emergency responses to flash floods
- Clean up day at locations
- donation of 17000 tree sapling to promote tree planting and mitigate deforestation

The scope was to disclose water-related challenges and increase employee sensibilization and responsibility regarding water-related themes, both at home and in their workplace.







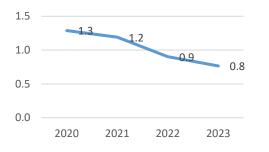




The progressive and on-going AWS Standard implementation in PMPKL Mardan is leading to the implementation of two types of initiatives:

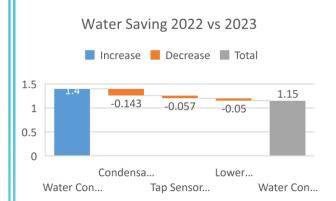
- Social actions, which include participation in synergic community-based projects, gathering water-related data to assess water risk hotspots and prioritize mitigation actions, as well as engagement activities with local Stakeholders, such as the execution of awareness workshops, best-practice sharing and feedback requests
- **Technological actions**, which include implementation of water saving technologies, settings and related best practices, which resulted in an immediate benefit due to the reduction of the amount of potable groundwater removed from the catchment territory

In PMPKL Mardan, improvements in watersaving performances are traced and tracked via a water-dedicated KPI, based on **m³ per ton of packed tobacco** d (m³/ton of packed tobacco) and WEI water efficiency index



As illustrated above, from 2019 to 2023 PMPKL Mardan has **reduced its WEI** from **1.3** to **0.8 m³/ton packed**.

This accounts for a water consumption reduction of aproximately 0.20 m3/ton in 2023 vs 2022 in terms of water consumed per ton of packed tobacco.



It is evident from the figure shown that sustantial water savings are done by implementing innovative solutions like Condensate recovery, Tap sensors, lower steam used on tobacco, optimization of feed water tank, to name a few



Wash at Site

AWS Performance Update (Social)

WASH at site

Upgradation of workers washroom Upgradation of Office washrooms (Ongoing) Upgradation of ablution area New common room with attached washroom for ladies

To ensure good WASH at site







AWS Performance Update (Technical)

- Installation of food grade taps
- Installation of sensor taps
- Heat exchanger
- Installation of rain harvesters
- Upgradation of washrooms
- Water quality tests (new parameters & new area samples)
- To ensure sustainable water balance, good governance, water quality & quantity, requirements under applicable laws, WASH

















AWS Performance Update (Technical)

- New operational well
- Plugging redundant connections
- Gemba walks
- Installation of new meters
- Condensate recovery
- Rain harvesters
- To ensure sustainable water balance, IWRA, good governance, water quality & quantity, requirements under applicable laws, WASH





GOOD WATER

GOVERNANCE



SUSTAINABLE

WATER

BALANCE



GOOD WATER

QUALITY

STATUS





SAFE WATER.

SANITATION

IMPORTANT WATER-RELATED AREAS AND HYGIENE FOR ALL (WASH)

Projects/Initiatives Planned

AWS Performance Update (Social)

Engagements planned with stakeholders (Rescue 1122, PHED, EPA, local schools & local hospital)

- Awareness session on
 - Floods and safety measures
 - Spread of contagious diseases
 - Clean drinking water
 - Sustainable use of water
 - WASH

PMPKL contribution by donating:

- First-aid boxes, portable de-wash pump, life jackets
- PPEs (face masks, face shields, gloves, full body safety kit and aprons)
- Tree saplings
- Waste bins
- Washroom accessories
- Water filtration units & cooler
- **Rain harvesters**
- Anti-littering posters



We hope you enjoyed a piece of our water stewardship journey towards a more sustainable future in the Pakistan! Mardan.





6th June-2023

PMPKL Alliance for Water Stewardship Strategy (2.3.1)

In line with PMI's vision to create a smoke-free future through science and innovation, and with the PMPKL Mardan Water Stewardship Commitment (2.1.1)., PMPKL Mardan has identified the following Water Stewardship Strategy:

- Assessment of specific water risks at site and catchment level
- Identification of shared-water challenges, opportunities, and risk mitigation actions at catchment level and site level.
- Engagement of relevant stakeholders from diverse and representative sectors to plan, identify and execute joint initiatives and projects in relation to shared water challenges.
- Reduction of the factory water footprint via water consumption reduction.
- Minimization of factory effluent discharges and improve parameters.
- Ensure adequate factory water quality and WASH standards.

This strategy aims to act as a pillar for achieving potable water reduction and/or optimization at factory level with the aim of generating a positive impact at a wider scale (i.e., increase catchment water availability) for other users and sensitive environments.

We are committed to create, maintain, and continuously review and adapt the factory Water Stewardship Strategy Plan (2.3.2.), which contains site and catchment—based SMART actions and targets description, targets measurement and monitoring methods for the five AWS outcomes.

Director Manufacturing

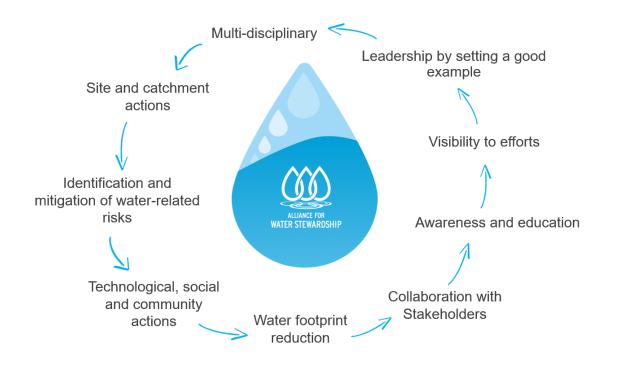
Faisal Mushtaq

Stakeholder Engagement

ALLIANCE OF WATER STEWARDSHIP- Journey

Introduction Benefits

- Global organization committed to leading water stewardship
- Certification based on a 5-step Standard that certifies water stewardship
- Water stewardship means sustainable water management by mitigating challenges and risks in a **out of the box** approach
- Stakeholder engagement and participation in catchment-based projects is key to successful water stewardship







7th July, 2023

PMPKL Water Stewardship Commitment

Philip Morris Pakistan Limited ("PMPKL"), as a result of its commitment to good water <u>stewardship</u>, undertakes to implement following measures at its Green Leaf Threshing plant situated at 22nd KM Mardan Swabi Road-Mardan:

- Endorse, sustain and support the Alliance for Water Stewardship ("AWS") principles and 5 outcomes: i) good water governance, ii) sustainable water balance, iii) good water quality, iv) good conservation of important areas related to water, and v) safe water, sanitation and hygiene;
- 2. Engage and involve stakeholders in an open and transparent way;
- 3. Comply with any legal and regulatory requirements related to water;
- Respect water-related rights, including ensuring appropriate access to safe water, sanitation, and hygiene for all persons at <u>Site;</u>
- Support and coordinate with stakeholders (internal and external) for implementation of plans and policies, including working together to meet the right to water and sanitation;
- 6. Implement the AWS standard in alignment with existing catchment sustainability plans
- Improve and continually adapt the actions and plans for water stewardship of the Site in order to mitigate shared water related <u>risks;</u>
- 8. Implement and disclose-progress on water stewardship programs to achieve improvements in AWS water stewardship <u>outcomes</u>
- Maintain the organizational capacity required to successfully implement the AWS Standard, through necessary resources required to accomplish the implementation and maintenance of requirements of the AWS Standard i.e., improving water quality, water sanitation and hygiene, reduce water wastage, etc.
- 10. Disclose relevant information related to water.

ALLIANCE OF WATER STEWARDSHIP- Journey Commitment



Director Manufacturing, Pakistan Faisal Mushtaq Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

Stakeholder Visits

- Introduction about AWS.
- Site viewing with stakeholders
- Feedback survey in view of AWS including performance feedback
- Identification of projects in view of 5 AWS outcomes
- Invitation to GLT to share best practices and work on combine projects in view of the shared risks & challenges.



Stakeholder Visits

- Risks & Challenges
- Site viewing with stakeholders
- Identification of projects in view of 5 AWS outcomes (Washrooms R&M, Installation of waste bins, Tree plantation, Drinking water tests, Provision of sanitation PPEs, Water filtration units, Bores/wells, site cleanup activities, R&M of drain channels to avoid mixing of rain water & waste water.
- Awareness sessions





Engagement with Local community & stakeholders via Engaging NGO

By Collaborating with local NGO "Dragon Fly", 17 master trainers were developed.

The master trainers will be delivering awareness sessions to Females, PMPKL contracted farmers, sharecroppers, tenants, local labors (temporary and full time) on below topics:

- 1- WASH
- 2- Water Saving and shared challenges
- 3- AWS and 5 intended outcomes
- 4- Feedback & Queries



Stakeholder Engagement (Rescue 1122, PHED, Irrigation, TMA)

Rescue 1122



TMA



Irrigation



PHED









Introduction & Awareness Session on AWS, its 5 outcomes Risks & shared Challenges, collaboration on initiatives Feedback Survey & Performance feedback Discussion on the Government Projects done or planned Sessions conducted on 7th & 8th of August, 2023



Stakeholder Engagement – EPA and PCSIR

- Meet & Greet
- Introduction & Awareness Session on AWS
- Risks & shared Challenges, collaboration on initiatives
- Feedback Survey
- Discussion on the Government Projects done or planned





Stakeholder Visits (District Forest Officer, Irrigation, AWKUM

- Introduction about AWS.
- Site viewing with stakeholders
- Feedback survey in view of AWS including performance feedback
- Identification of projects in view of 5 AWS outcomes
- Invitation to GLT to share best practices and work on combine projects in view of the shared risks & challenges.



Stakeholder Engagement with Water & Sanitation Service Company Mardan (WSSCM)

Meeting Highlights:

- Meet & Greet with Head- AWS & its 5 outcomes, PMPKL intentions & way forward
- Discussed the risks challenges (Water shortage, Water contamination due to rusted pipelines, WASH)
- Mitigation measures- Plans (Sewerage treatment plant in construction for 6UCs, Water testing kits, Addition of low quality
 plastic in the STP including segregation, recycling, composting), conversion of low plastic in usable products.)
- Site visit: STP plant under construction & Integrated Resource Recovery Center where organic fertilizers as output.
- Collaboration: Rain harvesting Project reapplication as best practice, To check if the organic product can be used as fertilizer for farmers.





Stakeholder Engagement with Mardan Development Authority (MDA)

Meeting Highlights:

- Meet & Greet with DD- AWS & its 5 outcomes, PMPKL intentions & way forward
- Discussed the risks challenges (Water contamination with diseases like Hep B & C
- Mitigation measures- Plans (Sewerage system under construction where pipelines, drain archery would be made and the drain lines would be directed to STP and complaint disposal in Kalpani, R&M of roads.)

Water Governance- Stakeholder Meetings

S.NO	Authority	Authority representative & designation	PMPKL representative & designation	Outcome
1	PCSIR	Farhan Nasir-Liaison Officer Director P&D Head Food	Kulsoom Iftikhar Manager EHS Leaf	 Initiative discussed Risks & challenges & feedback PMPKL water quality tests collaboration AWS & 5 outcomes
2	EPA	Intekhab Alam- Assistant Director	Kulsoom Iftikhar Manager EHS Leaf	 AWS & 5 outcomes/ feedback Risks & challenges & feedback Rules & regulations discussed Collaboration on Tree plantation activity
3	Rescue 1122	Imran – District Officer	Kulsoom Iftikhar Manager EHS Leaf Hassan Rehman- EHS specialist	 Initiative discussed Risks & challenges & feedback PMPKL Awareness session collaboration AWS & 5 outcomes
4	PHED	Syed Azam Shah- Executive engineer	Kulsoom Iftikhar Manager EHS Leaf Hassan Rehman- EHS specialist	 Initiative discussed Risks & challenges & feedback PMPKL Awareness session collaboration AWS & 5 outcomes
5	Irrigation	Sadiq Ali- SDO	Kulsoom Iftikhar Manager EHS Leaf Waseem Ali- WPE supervisor	 Initiative discussed Risks & challenges & feedback PMPKL Awareness session collaboration AWS & 5 outcomes
6	ТМА	Sarfaraz- TMO Mohsin Amin- Architect	Kulsoom Iftikhar Manager EHS Leaf Waseem Ali- WPE supervisor	 Initiative discussed Risks & challenges & feedback AWS & 5 outcomes
7	WSSCM	Imran Afridi- HR Faraz Ahmad- Asst Manager	Kulsoom Iftikhar Manager EHS Leaf Waseem Ali- WPE supervisor	 Initiative discussed Risks & challenges & feedback PMPKL collaboration on Rain harvester AWS & 5 outcomes Site visit
8	MDA	Fazle Ghaffar- DD	Kulsoom Iftikhar	- Initiative discussed

PMPKL AWS Strategy and Plan



Stragety & Plan Document Evalution, Review and Update Process

 Staregty & Plan Document shall be reviewed and updated at least yearly by EHS AWS Team Lead and AWS Team unless there is no other changes needed to be included within a year.
 This document shall be updated, when any changes, new projects, updates of ongoing projects are needed to be included.

3) Document last update date, reason of update and responsible person's name shall be noted when any changes made.

Last updated: 9/10/2023, 13.10.2023 Updated by: Kulsoom Iftikhar (AWS Team Leader) Update reason: Projects details and actions were updated. value creation added

Ρ

Sha	ared Water-relat	ted challenges to	o mitigate						PMPKL Water Strategy and Action Pla			Time Frame		Measuremen	t / Monitoring						
iseline water stress later Level Depletio	s / Surface Wat on Quality	ter Access to WASH	Flood Occurrence / Biodiversity Degradation	Goal	Strategy	Action	Decription	Туре	Benefit	Standard	Responsibles & Supporting roles/ functions	Start Date	aluation D	Modality	Typology	Target	Result	Status	Follow-up Action (status)	Intended AWS Outcomes	Completed Results
*	1	1	1			Prepare a local AWS commitment and get them signed by PMPKI. Manufacturing Director.	Local AWS commitment is to be developed and share with all the stakeholders to get them on-board on water stewandship policy of PMMXL Mardan.	Social & Community (Internal)	Water stewardship commitment on water stewardship addressing the importance of AWS and how to achive the end goal	2.1 Commit to water stewardship	Kulsoom Iftikhar	15th March, 2023 21th Ju 2023	ly, 12th July, 2023	Direct	Engagement	State with All external Stakeholders & internal	shared with All external Stakeholders & Internal	Completed	Done.	Good water governance	Created Water Stewardship commit water stewardship
1	1	1	+	-			on Conduct a XWS Kick-off session with XWS team and PMPRL Site to train them on XWS requirements and expectation from	Social & Community (Internal)	Water stewardship commitment on water stewardship addressing the importance of AINS and how to achive the end goal. Also, to train people	2.1 Commit to water stewardship	Kulsoom Itiikhar	Nov, 2022 Nov, 20	122 Dec, 20222	Direct	Engagement	Employees	Employees	Completed	Done. AWS standard requirements trainings for all employees	Good water governance	Created Water Stewardship commit
	-	-		Establish a leadership commitment on water stewardship	Define AWS policy and commitment; communicate internally	AWS requirements Communicate Commitment internally via boards	them to participate in all the AWS provjets and initiatives Signed AWS commitment communication with all the sites to share ownenhip and responsibilities on water stewardship. Instal		on self awareness and linking woth 5 outcomes. to display, disclose and communicate the AWS commitment for easy	2.1 Commit to water stewardship	Kulsoom ittikhar		ug, 31st Aug, 2023	Direct		84 employees	84 employees		conducted. Done. Communicating the PMPKL AWS, and AWS strategies will continue via trainings, stakeholder engagement	Good water governance	water stewardship Created Water Stewardship commit
				-		Define Water KPI for PMPKL Mardan and track or	Avis commonent on Canteen, notice boards CLA, main gate, Unice book & locations		visualization and engagement with people.				2023		Visualization	cations in site & 6 at	cations in site & 6 at a		Daily second in DMI to mariter the torad and have to which	feed water environment and custoint	water stewardship Monthly follow up in PDCA is Comp
1						Leadership PDCA monthly and daily DDS	ⁿ Water KPI to be defined in the SDDS and track in the leadership monthly PDCA to gauge the performance.	Social & Community (Internal)	used governance of water and water savings and adding to water scarcity,	2.4 Responsiveness and resilience to respond to water risks (climate change)	Abdul Waris	Dec-22 Jan-2	3 Dec, 2023	Direct	m3/ton of packed tobac	0 14	1.51	Continuous	the target	Good water governance and sustainab water balance	Water consumption reduction 5906 0.25 m3/ton water use reduction
1	1	1	1			Review water related regulatory requirements to ensure compliance	Review of legal register with departments to ensure complaince against all water related legal requirements.	Social & Community (Internal)	Developed good water management systems. Identification & listing of legal requirements specific to water & AWS.	2.2 Develop and document a process to achieve and maintain legal and regulatory compliance	Kulsoom Ittikhar	Dec-22 25th J	al, 27th July, 2023	Direct				Completed	Done. Legal compliance is quarterly followed and reported. Next evaluation is on 27th Nov, 2023	Good water governance Good water quality status	Good documentation, good water
				Develop a costern that remember and evaluates water, relate	and Improved management systems promotin	ne			•						Compliance %	100% Complaince	100% Complaince			ale Water, Sanitation and Hygiene for	(AI)
		1		legal compliance	and evaluating water- related legal compliance	Improve on Regulatory follow up via digitalization	Implementation of Red-on-line software by engaging 3rd party as a global initiative to improve regulatory complaince and	Social & Community (Internal)	Developed good water management systems. To make people more	2.2 Develop and document a process to achieve and maintain legal and regulatory compliance	Kulsoom Itikhar		. 27th July.	Direct	Compliance %	100% Complaince	100% Complaince		Red-Online regulatory follow up system is launched. Next	Good water governance Good water quality status	Standard legal documentation avail
*	1	1	-			(Red-on- Line Software deployment)	follow up.	Social & Community (Internal)	capable on laws and introducing the digital platform in line with excel legal register.	3.1 Implement plan to participate positively in catchment governance	Kulsoom Ibikhar	Jan-22 Sep-2	2 2023	Direct	Compliance %	100% Complaince	100% Complaince	Completed	review is in NoV, 2023	Good water governance Good water quality status Safe water, Sanitation and Hygiene Sustainable water balance	water management, good water go
																-			++		
1				Reduction of potable water consumption	Increased water efficiency measures	Reuse of water used for cooling system of hydrau	Water Heat Exchanger is used in order to cool down Hydraulic Oli of packing Station, the Water once pass through heat exchanger were wated.	Technological	Reuse of water brings reduction of water consumption required for		Abdul Waris , Aighar Khan	Jan-22 Dec-3		Direct				4	Done.	Good water governance	Reduce water consumption, unders
•				Reduction of potable water consumption	Recycle/reuse of waste water,	oil	^{ann} exchanger were wated. Cooling Tower is installed to cool down heat exchanger water and recirculated thus water loss is recovered 100%.	isonological	cooling helping us in catering for water scarcity, water depletion.	3.3 Implement plan to achieve site water balance targets	Addu Wars, Agner Knen	385-22 080-3	2 080-22	Direct				Completed	Reuse of water brings reduction in water consumption	Sustainable water balance	sustainable water management. 0.14,3/ton water savings
															ml	2238	2238				
1				Reduction of potable water consumption	Recycle/reuse of waste water,	Reuse Condensate from redryers to reduce water	Rause Condensate from redrivers to reduce water and energy consumption- Best Practice	Technological	Reuse / recycle water to reduce water consumption and also saving energy 1 boller area. Aiding in betterment of water sarcity, water stress	3.3 Implement plan to achieve site water balance targets	Abdul Waris , Asghar Khan	jan-21 Dec-J	1 400.73	Direct				Completed	Done. Compressor condenate line has been re-routed to feed water tank. Monthly water consumption is followed up by Utility-	Sustainable water balance	Reduce water consumption, unders sustainable water management.
					Increased water efficiency measures	and energy consumption-Best Practice			and re-officiation.	1.3 Gather water-related data for the site									Engineering Department; if any increase of consumption is observed, communication is made to take corrective actions.	Good water governance	0.14,3/ton water savings
															m3	500	500				
						Replacement of exisiting Manuel Faucets with	Replacement of existing manual Faucet with automatic sensor type faucet to reduce Water consumption and limit the												Done.		Reduce water consumption, increase
1		1		Reduction of potable water consumption	Increased water efficiency measures	Automatic faucets to reduce water consumption Washrooms, Common rooms and Ablution Area.	in Canteen	Technological	Reduce water consumption, increase awareness on water conservation (This initiative was suggested by one of employee)	3.3 Implement plan to achieve site water balance targets 1.3 Gather water-related data for the site	Abdul Waris , Asghar Khan	Mar-23 23-Au	g Nov-23	Direct				Completed	Automatic faucets inspection maitnence in included in inspection plan. In case of any fault, sensors are being replaced.) Evaluation of saving in m3 will be done in Nov 2023 when when the new local set.	Good water governance Sustainable water balance	awareness on sustainable water co 0.05m3/ton water savings
																			enough data is available		
			1												m3/ton of packed tobacc	151	151				
4				Badartine of retable ontro dearcost		Physical of each state	All water valves were checked to plug the redundant connections to avoid exceesive water usage	Technological	Reduce water consumption, increase awareness on water conservation. Mexice travarily costainability and evine a message of notimization and	3.3 Implement plan to achieve site water balance targets 1.7 Industrated the club's water risks and eccentrations	Shape Stationer Academic	Mar-23 Mar-3		Direct				Completed	Done. Monthly water consumption is followed up by Utility- Engineering Department; if any increase of consumption is	Good water governance	Reduce water consumption, increa awareness on sustainable water
*				Reduction of potable water consumption	Increased water efficiency measures	 Agging or reoundant water connection at GLT 	ne were selves were checker to prog the induitiant connections to avoid exceedive water usage	rechnological	Moving towards sustainability and giving a message of optimization and sustainability.	 2.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site 	Abdul Waris , Asghar Khan	mar-23 Mar-3	* NOV-23	Direct				Completed	Engineering Department; if any increase of consumption is observed, communication is made to take corrective actions. Saving evaluation will be done in Nov 2023 when enough data is available.	Sustainable water balance	conservation. 0.06m3/ton water saving
		_						-				<u> </u>	+		m3/ton of packed tobacc	1.4	1.51		l		
									Reduce water consumption, increase awareness on water conservation.	3.3 implement plan to achieve site water balance targets									Done. Pipings are installed to recover the rejected water from RO.		Reduce water consumption, increa
*				Reduction of potable water consumption	Increased water efficiency measures	Permanent closure of redundant washrooms	Washroom to be closed that is redundant to avoid water usage and water loss	Technological	Reduce water consumption, increase awareness on water conservation. Moving towards sustainability and giving a message of optimization and sustainability.	3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Abdul Waris , Asghar Khan	Apr-20 May-3	0 May-20	Direct					Pipings are installed to recover the rejected water from RO. Monthly water consumption is followed up by Utility- Engineering Department; if any increase of consumption is observed, communication is made to take corrective actions.	Good water governance Sustainable water balance	Reduce water consumption, increa awareness on sustainable water co 0.06m3/ton water saving
															m3/ton of packed tobacc	14	1.51				
1				Reduction of potable water consumption	Increased water efficiency measures	Steam pressure reduction of boiler to conserve water and energy.	Reduction of steam pressure setpoint from 7.8 bars to 5.6 bars to conserve water and energy. (Trial is conducted and optimize	* Technological	Optimized baller steam pressure to reduce water consumption; also	3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities	Abdul Waris/Asghar Khan	Jan-24 Jul-2	Jan-25	Direct				Completed	Further study to see the optimization of steam further	Good water governance Sustainable water balance	Reduce water consumption, under sustainable water management.
						water and energy.	the steam pressure to fulfill the primary requirements without hinderence in operation)		saving enrgy cost	1.3 Gather water-related data for the site					ml	14	1.51				0.05m3/ton water savings
										3.3 implement plan to achieve site water balance targets											
1			1	Reduction of potable water consumption	Recycle/reuse of waste water, Water- saving plant settings	Piping Infrastructure upgrade in lawns by installin sprinklers to minimize fresh water usage	• In some lawns, treated water pipelines were not available leading to usage of fresh water for irrigation purposes. Sprinklers were installed to reduce fresh water consumption.	Technological	Utilization of less water to conserve fresh water, increase awareness on water conservation	1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Waseem Ali , Abdul Waris	Jan-24 Jul-2	Jan-25	Direct				Proposed	Ensure the health of installed piping to conserve freshwater. Monthly water consumption is followed up by Utility- Engineering Department; if any increase of consumption is	Good water governance Sustainable water balance	Reduce water consumption, under sustainable water management
															m3	TBD	TED		observed, communication is made to take corrective actions.		
1	1			Reduction of potable water consumption	Maintenance - monitoring activities	Improvement in water metering at site for effect	tee • Additional waiter meters are installed in all areas across factory for effective monitoring and action planning	Technological	Improved water monitoring enabling easily focus on focus areas; ultimately creating opportunities for process water consumption	3.3 Implement plan to achieve site water balance targets	Abdul Waris , Aighar Khan	Feb-22 Nov-3		Direct				Completed	Done. Monthly follow up on water consumption through meters continue. Monthly water consumption is followed up by Utility	Sustainable water balance	More control on water balance; identification of improvement area
•				Reduction of potable water consumption	Mantenance - monitoring activities	tracking and monitoring	 Additional water means are inscaled in as areas across tactory for emective monitoring and action planning. 	isonological	internation of the second	1.3 Gather water-related data for the site	Addu Wars, Agner Knen	140-22 NDI-3	2 385-23	Direct	Installation	5 new meters instal	Smeters installation	Completed	Monthly follow up on water consumption through meters continue. Monthly water consumption is followed up by Utility- Engineering Department, if any increase of consumption is observed, communication is made to take corrective actions.	Good water governance	areas to focus reduction of water; 0.06 m3/ton water savings
4				Reduction of potable water consumption	Increased water efficiency measures	Improvement in production machines efficiency	Production days optimization by improvement in production machines efficiency leading to lower Compressed air and HVAC	Technological	Reduced water consumption by optimization of machines efficiency to optimize production days. When machines will be efficient so less energy	3.3 implement plan to achieve site water balance targets	Abdul Waris , Asghar Khan	Nov, 2023 Nov, 25	23 May-24	Direct				Proposed	On-Going. Daily and Monthly water consumption is followed up by Utility-	Sustainable water balance	
						leading to reduced water consumption	loed	-	and less water will be consumed . Improved water monitoring enabling easily focus on focus areas;		-				Frequency	TBD	TBD		Engineering Department; if any increase of consumption is observed, communication is made to take corrective actions. Done.	Good water governance	
1				Reduction of potable water consumption	Increased water efficiency measures	Installation of water & steam flow meters on lam redryer to optimize consumption	ina water & steam meters are installed in all areas across factory for effective monitoring and action planning	Technological	improved water monitoring enauling easily tocus on tocus areas; utimable; creating opportunities for process water consumption reduction. Moving towards site & catchment betterment and workinability Improved water monitoring enabling easily focus on focus areas;	3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Abdul Waris , Asghar Khan	Feb-22 Nov-3	2 Jan-23	Direct	Installation	100% done	100 % done	Completed	Uone. Monthly water quality monitoring followed up by Utility- Engineering Department; if any complain is received, communication is made to take comption actions.	Good water governance Safe Water, Sanitation & Hygiene	Improve drinking water quality and sustainable water management
1				Develop the Site water balance and diagram	Improved management systems promotin and evaluating water- related to site water holizes	ng Generation of the site water balance and Balance diagram & Sankey Diagram	To conduct and analyze the site water 'balance by data gathering and constructing the balance diagram to identify the losses if any , improve site water quantity, optimize the usage and conserve water.	Technological	Improved water monitoring enabling easily focus on focus areas; ultimately creating opportunities for process water consumption reduction. This wil help in more better visualization and site water	3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Abdul Waris , Asghar Khan	Jul-23 15th A 2021	ag, 30th Aug, 2023	Direct				Completed	Done. Monthly water quality monitoring followed up by Utility- Engineering Department; if any complain is received ,	Good water governance Safe Water, Sanitation & Hygiene	Improve drinking water quality and sustainable water management
				Reduction of potable water consumption	Maintenance - monitoring activities	Construction of PID diagrams of identified site	Construction of PID diagrams of identified site water infrastructure for effective maintenace & monitoring	Technological	anabols on hatter devisions and was forwards can be dona Improved water monitoring enabling easily focus on focus areas; ultimately creating opportunities for process water consumption reduction.	1.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-reliated data for the site	Abdul Waris , Asghar Khan	24th Aug 2nd s	5th sep,	Direct	Visualization	200 % made	100 % made	Completed	communication is made to take convertice actions. Follow on is	Good water governance Safe Water, Sanitation & Hygiene	Improve drinking water quality and sustainable water management
						Identify and make the water related infrastructure	*		Neucon. Ph diagrams will fail us the finar of maters: switches atr and will haln us Improved water monitoring enabling easily focus on focus areas; utimately reading encodentiaties for encodes water consumption	1.3 Gather water-related data for the site 3.3 Implement plan to achieve site water balance targets 1.7 Undextand the site's water risks and opportunities			150h luly		N/A	100 % made	100 % made			Good water governance	Improve drinking water quality and
1		-		Reduction of potable water consumption,	Maintenance - monitoring activities	diagram to know the infrastrustre and perform maintanece & monitoring. 2-Construction of ablution area of workers	Identify and fist down all site related water infrastructure.	Technological	reduction. Dedicated water infrastructure list will highlight the focus mor on these areas and forused understanding Increased WASH practices, access to WASH. This will also address the	1.7 Undentiand the site's water risks and opportunities 1.3 Gather water-related data for the site 3.3 Implement plan to achieve site water balance targets	Abdul Waris , Aighar Khan	21st June 2023 13th J	2023	Direct	Visualization	100 % made	100 % made	Completed	Submitted	Safe Water, Sanitation & Hygiene	sustainable water management
		1				wishroom	To construct ablution area for workers & Upgradation/renowation of washrooms to improve the WASH	Social & Community (Internal)	basic human rights where PMPKL has been working globally on human rights.	1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site 1.3 Leads of arress and adamsers of W2GH at site	Waseem Ali	Sep-23 20th o 2023	t, 20th oct, 2023	Direct	Installation	100 % made	100 % made	Completed	Follow up visits done for R&M	Safe water, sanitation and hygiene	Safe water, sanitation and hy
		1		Carry out projects and activities with Stakeholders, employees, community members and local authorities in	Engage in water-related campaigns and activities with relevant stakeholders in or	d Construction of new washroom for management	To imove the WASH & good goveronence at site, new washrooms to be constructed. 2- Upgradation/renowation of ablution area in management washrooms	Social & Community (Internal)	Increased WASH practices, access to WASH. Addressing the needs & expectations + human rights of our people	3.3 Implement plan to achieve site water balance targets 1.7 Undentand the site's water risks and opportunities 1.3 Gather water-related data for the site	Waseem Ali	2nd oct, 2023 20th n 2023	av, 11th nov 2023	Direct				On-Going	Follow up visits done for R&M	Safe water, sanitation and hygiene	Safe water, sanitation and hy
		1		order to work together towards a sustainable water management and consolidation of AWS outcomes at catchment-level & site level	to mitigate, anticipate, raise awareness a increase understanding of shared wate challenges and risks	and ir Provision of washroom in new lady common roor	m To innove the WASH & good governmence at site, new washrooms constructed for lady common room.	Social & Community (Internal)	Increased WASH practices, access to WASH, good water goveronance. This is also beloins with the inclusion and divenity improvement.	3.3 implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site, 1.3 Levels of access and adequacy of	Waseem Ali	15th June, 2023 28th June, 2023	ly, 25th July, 2023	Direct	Initialiation	100 % made	100 % made	Completed	Phase wise construction was done and inaugorated in presence of leadership	Safe water, sanitation and hygiene	Safe water, sanitation and hygier
				-		Consuction of new operational well to meet the			This is also helping with the inclusion and diversity improvement.	 Gather water-related data for the site, 1.3 Levels of access and adequacy of WEOG as data 3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water rules and non-netwrities 			2023 J. 3rd Aug,		Installation	200% done	100% done			Good water governance	water governance Good water governance
4	1	1				waterrequirements- quiaity & quanity, WASH	Construction of new operational well to meet the waterrequirements-quilaity & quanty, WASH	Social & Community (Internal)	quiaty & sustained quantity.	1.3 Gather water-related data for the site, 1.3 Levels of access and adequacy of W204 ar site	Abdul Waris , Asghar Khan	Mar-23 2501 J 2023	2023	Direct	Installation	200% done	100% done	Completed	New operational well was succesfully constructed	Safe Water, Sanitation & Hygiene, Goo wuality & sustained quantity, IWRA	ow Safe Water, Sanitation & Hygien quality & sustained quantity,
1		1		Reduction of waste water , Reuse of rain water	improvements, re-use and recycl	cess Installation of Rain harvestors in coordination wit	th To reduce water consumption, a water collection tanks constructed to capture reinwater from plant roof and used for the watering of plants.	Social & Community (Internal)	Reuse of rain water to avoid excess water usage . This will also show our commitment to stakeholders like WSSCM from where we are copyinh thi idea.	3.3 implement plan to achieve site water balance targets 5. 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Waseem Ali, Kulsoom , Waris	32st Aug, 2023 25th 0 2023	ct, 15th Oct, 2023	Direct				On-Going	Rain harvestors feasability study is completed and installation in pregress	Sustainable	Sustainable water balance, Importa related areas
					activities and adapt technological measure	res Communication on water related topics awarene									Installation	100%			water awareness wood preparation/march 2022.j. water awareness raising poster preparation (September 2020)		
1	1	1	1			Communication on waber related bopics awarene raising posters, video sharing through PMI communication channels, emailing, stakeholder communication meetings.	55 Increased awareness of PMI employees and service providers on AWS standar requirements and water conservation.	Social & Community (Internal / External)	Increased awareness of proper management of resources. Shoing our commitment to AWS and its 5 outcomes.	5.1 Disclose water-related internal governance of the site's management 5.2 Communicate the water stewardship plan with relevant staksholders	Kulsoom Iftikhar	Dec-22 Oct, 25	23 Dec-23	Direct				On-Going	awareness raising pooter preparation (September 2020) TV slide sharing, etc. b 2022-June World Environment Day Event communications 2023-September World Cleanup Day Event Communications 2023-March World Water Day Event Communications	Increase awareness on sustainable wat management PMPKL strategies on war among stakeholders.	ater Increase awareness on sustainable management through all stakehold
			1	-		communication meetings. Global Water Day and Water related initiatives	Awareness campaign on basic Water conservation and WASH principles amongst the employees and in-house contractors, in		Increased awareness of site employees (NCLA+CLA+Service Providers) on	3.1 Implement plan to participate positively in catchment governance		+ +	+		Visulization meetings, tri	nii PMPKI, emplowees	PMPR), employees, s		2022 - March- World Water Day Event Communications Water coservation related initiatives and awareness session in	GOOD WATER GOVERNANCE, Sustainal	able Increase awareness on sustainable
1	1	1	-	4		Global Water Day and Water related initiatives campaign to be carried out	order to provide information and divulgate best practices to reduce water consumption.	Social & Community (Internal)	natural resources, water scarcity problems, water level depletion, Water risks. Increased awareness on emérorment, water conservation through	5.2 Communicate the water stewardship plan with relevant stakeholders	Kulsoom Iftikhar/ AWS team	Mar-23 Oct, 20	23 Dec, 2023	Direct	Participation	PMPKL employees,	PMPIL employees, s	On-Going	Water coservation related initiatives and awareness session in their communities. Awareness videos to be shared. Staksholder sessions on plan & strategy & performace.	Water Balance, WATER SANITATION AT HYGIENE	ND management among internal & ex stakeholders
4						World Environment Day celebration and flower Plantation Activity to be carried out	 Awareness campaign on basic environment preservation and ecosystem degradation amongst the employees and in-house contractors, in order to provide information. Thereflower planting activity cameled out at on-knowe 	Social & Community (Internal)	planting. Indirectly increase rain potential, reduce evaporation from soil, increase water catchment by soil. Supporting biodiversity and increasing	4.3 Evaluate the stakeholders' consultation feedback 3.1 Implement plan to participate positively in catchment governance	Kulsoom iftikhar Waseem Ali	Mar-23 Oct, 20	23 Dec, 2023	Direct				On-Going	Total 40 flowers are to planted at site.	GOOD WATER GOVERNANCE, Sustainable Water Balance, Good Water Quality	Increase awareness on sustainable management among internal & ex staksholders
	-	-		-		Water comsumption and quality related data to b	Detailed investigation (via data request and engagement) of raw material (DIM) suppliers and outsourced service provider's:	+	awareness on biodegradable waste using as composit and reducing chemical fertilizer usage to save water ouality. Increased awareness of proper natural resources management, and on			+ +	+		Plantation	40 fowers plantatio	41 flowers plantation		<u>├</u> ────┤	usud water claiffy	
1	1					Water comsumption and quality related data to b requested from outsourced service and raw material suppliers	water consumption, quality complexing, goods to water-ended minimum of subtainable water practices water consumption, quality complexing, goods in motivate ended mixes and implementation of subtainable water practices water data as well a water subgraving subgraving subgraving sites	Social & Community (External)	water scarcity problems, water risks etc. It will include our outiourced/ wenders in the AMS and seriouress of the matter will be cascaded. Responsibility & accostability factors will be coming into consideration.	3.7 Implement plan to maintain or improve indirect water use within the catchment	Kulsoom/ Hessen	16th Aug, 2023 Sep, 20	23 Sep, 2023	Direct	factor of the second se	9 Outsourced service provider 6 DM Supplier	5 Outsourced service provider	Completed	Done	GOOD WATER GOVERNANCE,	Increase awareness on sustainable management among internal & ex stakeholders
			1	1		To check feasiability of converting non-operational									Engagement	6 DIM Supplier	. UNM SUPplier		Vendor has visited the site for survey ad PMPKL has suvmitted		
1			*			To check feasability of converting non-operationa well to utilize Rain Water for effective ground wat table recharge & watering lawn	al to convert non-operational well to utilize maximum rain water, in case of heavy rain due to climate change for the future. Mentified as risk and challenge	Social & Community (Internal)	Increased recovery of rain water utility for ground water level recharge. Promoting and leading by good examples others in the catchment.	1.3 Gather water-related data for the site 3.1 Implement plan to participate positively in catchment governance	Kulsoom/ Waris	Aug. 2023 Dec-2	4 Jan-25	Direct				Proposed	Vendor has visited the site for survey ad PMPKL has survnitted the site data so that vendor can share the plan. The study & cost estimation is on progress	SUSTAINABLE WATER BALANCE GOOD WATER GOVERNANCE	Sustainable water balance, Importa related areas
		-		-		Water Cooler & Filter Installation in community		-				+ +	+		m3	TBD	TBD		PO made and will be executed once approval is Completed from	GOOD WATER GOVERNANCE,	S water coolers, S water filters inst the S different school to provide sa
		1				Water Coder & Fiber Instalation in community Schools (By Stakeholder & Employees)	Identification of schools in colliboration with stakeholders to install water coolers with fitters to provide safe drinking water. These gaps were obtained after local school visit and shared with us via feedback.	Social & Community (External)	 Joint colloboration with staksholders to provide safe drinking water to community schools/local people Increased withility and settine a ecod example for others 	3.1 Implement plan to participate positively in catchment governance 3.6 IMPLEMENT PLAN TO PROVIDE ACCESS TO SAFE DRINKING WATER	Kulsoom, Waseem AS, Hajira, Ramsha	July, 2023 Nov-3	3 Dec-23	Direct	Installation	2 water hand pump 2water filetrs	TBC	On-Going	PO made and will be executed once approval is Completed from Legal & E&C team Water filters will be replaced regularly by the school. Water hand ourno and filter health will be ensured.	SAFE DRINKING WATER SANITATION AND HYGIENE	N the 5 different school to provide sa dringking water and increased awa water conservation are carried out.
1	1	1	1			AWS Stewardship Report/plan & strategy/AWS organogram/Policy & stakeholder announcement sharing with stakeholders and Community &	Public disclosure of AWS implementation, benefits and mitigation stratagies carried out Direct effort in reaching out to Stakeholders, local population and community Ave 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	Social & Community (External)	Disclosing the work done on AINS will show our stakeholders that PMPKD is fully committed for the betterment of site as well as catchment. More	5.4 Disclose efforts to collectively address shared water challenges	Kulsoom , Hajira, Ramsha	July, 2023 Nov-3	3 Dec-23	Direct				On-Going	AMS stewardship report,Plan & stragtegy, organorgram for 2023 shared with stakeholden. While AWS stewardship performance report will be published publically in November, 2023 after certification completion. This is PMPKL Mardan first	Good water governance Sustainable Water Balance Good water quality status	
				Carry out projects and activities with Stakeholders, employees, community members and local authorities in	Engage in water-related campaigns and	employees by conducting sessions/ personal meetines/emails	Raised visibility on water stewardship efforts		visibility on our progress.	4.3 Evaluate the stakeholders' consultation feedback									2023 after certification completion. This is PMPKL Mardan first year for certification.	TWRA Safe Water, Sanitation and Hygiene	
	_	_		employees, community members and local authorities in order to work together towards a sustainable water management and consolidation of AWS outcomes at catchment-level	Engage in water-related campaigns and activities in order to mitigate, anticipats raise awareness and increase understand of shared water challenges and risks	ar, ling						+	+		Engagement	PMPKL employees,	PMPKL employees, s		├ ──── ├		
				Language and the second s		Engagement event with Rescue 1122, PHED (By Discussion with Irrigation Department): there	conducting 02 engagements with our staksholders in view of our project ARIX, where we will be donating some PPEs and other is ritems filtra aid books, life jackets, portable de-wash pump, filtration unit, drinking water tests, twe plantation, installation of ity waste bins, R&M of washnooms & new installation of wash stations & other accessories, rain harvestor) as per the scope.	r								Engage EPA Engage PHED Engage Rescue 112			This activity will be reported on local news and shared with our schebolders including MM schebol interest schebolders via	Good water governance	Increase awareness on sustainable
	1	1	*			precautions, spread of contagious diseases, clean drinking water & sustainable use of water and		Social & Community (External)	Increased awareness of proper natural resources management, and on water scarcity problems, water risks etc., WASH, legal requirements,	4.3 Evaluate the stakeholders' consultation feedback 3.1 Implement plan to participate positively in catchment governance	Kulsoom, Waseem Ali, Hajira, Ramsha, Ahad, Rehma	July, 2023 Nov-3	3 Dec-23	Direct		Engage 200 Local Community volunteers		On-Going	stakeholders including PMI global, internal stakeholders via news paper, video shows on factory TVs. Activity will take place as soon as PMPR1 ethics & compliance and legal requirements two completed in: Oct. 7019	Good water quality status IWRA Safe Water, Sanitation and Hygiene	Increase awareness on sustainable management PMPKL's strategies o among stakeholders; communicati public & customers
4						WASH in the catchment area.									Engagement	30 tree plantation	TBC		are completed by Oct, 2023		
4			+			TREE PLANTING CAMPAIGN - plant saplings distribution among the compression of Readiation a	Joint involvement with local stakeholders EPA Joint involvement with local stakeholders EPA Secand visibility and staffing a good example for others deri wire of the risk 3.6 utiliages, identifieded using our stakeholder meetings, data gathering and insights from local This is done in view of the risk 3.6 utiliages, identifieded using our stakeholder meetings, data gathering and insights from local	Social & Community (External)	Increased awareness on environment, water conservation through planting, indirectly increase rain potential, reduce exaporation from soil, increase water catchment by soil. As forests are being cut down at fast		Kulsoom, Waseem Ali, Hajira, Ramsha, Ahad, Rehma	July. 2023 N	3 Dec-21	Direct				On-Going	Total 30plant saplings will be distributed among the local	Good water governance Sustainable water balance	Increase awareness on sustainable management among internal & ex
+		1		4		astribution among the community or beginting of at local hospital	Ant This is done in view of the risks & challenges identifieed during our stakeholder meetings, data gathering and insights from local community	(channel)	increase water catchment by soil. As forests are being cut down at fast rate so making a self made forest at local area closer to PMPRL will ensur better over view.	8 3.1 Implement plan to participate positively in catchment governance					Installation	30 trees donation 6 muslim shower	TBC		community of Bachicha Dheri	Sustainable water balance Good water quality	stakeholders
		-	1			Installation of hand wash basins and drain system	Installation of hand-waking facilities and repair of drain system where required in local community schools to improve WASP Noundring and leading by good examples others in the catafilment. This is done in were of the mids. A full-large, siderfilled and improve skakeholder meetings, data gathering and imights from goot	H Social & Community (External)	Increased awareness of proper natural resources management, and on	4.3 Evaluate the stakeholders' consultation feedback	Kulsoom, Waseem Ali, Hajira, Ramsha, Ahad, Rehma	July. 2023 N	3 Dec-21	Direct		installation 8 sink & installation 5 flush tanks		On-Going	Handwashing station will be installed and drain outram will be	GOOD WATER GOVERNANCE, SAFE DRINKING WATER SANITATION	8 hand washing facilities and drain repaired to improve the hyginene a increased awareness on water core
				1	1	repair at local coomunity to improve WASH	1783 is come in view of the risks & challenges identified during our stakeholder meetings, data gathering and insights from goet departments.	a construction of the second se	water scarcity problems, water risks etc.	3.1 Implement plan to participate positively in catchment governance	and a second secon				Installation	4 english commode 6 taps & 4 senpr taps installation	TBC		Handwashing station will be installed and drain system will be repaired. Inspection to ensure the health will be carried out.	AND HYGIENE	increased awareness on water con- are carried out.
		*																			-
		*		-		Workers, management and female washrooms rehabilitation and female common rooms to be	Workers, managmeement and female washrooms to be reliabilitatted to imporve the WASH at site.	Social & Community (Internal)	Increased WASH practices, access to WASH	4.3 Evaluate the stakeholders' consultation feedback	Kulsom, Wasem	jp-21	3 04-25	Direct				Op.Coir-	On-Going.	GOOD WATER GOVERNANCE, SAFE DRINKING WATER SANITATION	Workers and female washroom ref is done to improve the WASH.
		-		-		rehabilitation and female common rooms to be build at site	Female common rooms to be build to improve the WRSH for females.	Social & Community (Internal)		3.1 Implement plan to participate positively in catchment governance	Kulsoom, Waseem	Jun-23 Nov-3	3 Dec-23	Direct	Installation	200% done	TBC		On-Going. Management washroom rehabilitation is in progress. Email communication and session was conducted on internal	SAFE DRINKING WATER SANITATION AND HYGIENE	N is done to improve the WASH. Female committee rooms are built better WASH facilities for women.
		-	*	-		rehabilitation and female common rooms to be build at site	Female common norms to be build to improve the WAXH for females. A distalled emergency response & proparedness awareness wasion to be conducted with all the employees + sance providers to briefly doucted their roles and responsibilities in case of any emergency.	Social & Community (Internal) Social & Community (Internal)	Increased WASH practices, access to WASH Increased awareness of proper management of resources, and on water succesp problems, water risks, Gring people more idea on how ARS is able linked with memory training and they are read to acc.	4.12 Solute the scheduler' construction leaded: 1.1 Implement plan to percliquie positively in catchinest goarmace 2.2 Identify the system to matchine compliance adjustration for water and webwater margament 4.12 Solute and a scheduler to thready ammany 4.12 Solute to scheduler's compliance adjustration features 4.12 Solute to scheduler's compliance features 4.12 Solute to scheduler's compliance for the scheduler's	Kulsoon, Waseem Kulsoom	Jun-23 Nov-3 Jul-23 Dec, 20	3 Dec-23 23 Jan-24	Direct	Installation	200% done TBD	TBC TBD		On Going. Management washroom rehabilitation is in progress. Benal communication and reason was conducted on Internal governance. It role is responsibilities by AIVS baan. Another ansisten will be arranged in conditation with Rescue	SAFE DRINKING WATER SANITATION	Female committon rooms are built to better WASH facitities for women. Increase awareness on sustainable v

38	*	4	•	4			AWS awareness session and progress share with employees	Internal PDCA meeting dedicated to AIRS Certification project disclosure Increased awareness amongst service providers negariding AIRS Certification and sustainable water management practices	Social & Community (Internal)	Increased awareness of site employees (NCLA-CLA-Service Providers) on natural resources, water sarchy problems, water level depletion, Water risks. Disclosing the work done on ARS will show our stakeholders that PAPACE is Guly committed for the betterment of site as well as catchment	4.3 Evaluate the stakeholders' consultation feedback 3.1 Implement plan to participate positively in catchment governance	Kulsoom	July, 2023	Oct, 2023 Dec-24	Direct		84 employees 9 Outsourced service provider	84 employees 6 outsourced	On-Going AWS update on initiatives and action taken shared with the employees to increase their participation and egagement.	Sustainable water balance Good water governance	Increase awareness on sustainable water management. PMPKL's strategies on water among stakeholders; communication with
39	*	*	-	*	Carry out projects and activities with Stakeholders, employees, community members and local authorities in order to work togeth towards a sustainable water management and consolidation of AU outcomes at cachemer-level	er in order to mitigate, anticipate, raise awareness	increase water related concerns and shared water	Separate meetings on water stawardship o be carried out to improve collaboration among all the stakehodders on water related common challenges/iniais and opportunities	Social & Community (Internal)	More whiling on our strateness. Increased animeness of permanagement of resources, and on water scarchy problems, water risks, reduce authemate water risks Planned to be organical on Mandae with the participation of fermens, Industry, University, Municipatity, School, Regulatory bodies etc. bringing more involvement, and producents and includiences of all stability.	4.3 Evaluate the staksholders' consultation feedback 8.1 implement plan to participate positively in catchment governance	EA / Sustianability / LR / Stakeholders	July, 2023	Oct, 2023 Nov, 2023	Direct	Engagement	6 DIM Supplier 5 industries 8 institutional 1 school 1 BHU 2 MICo	1 DIM 5 industries 8 institutional 1 school 1 BHU 2 BHU	On-Going Feedback taken from them. Risks and challenges identofid and made part of AWS plan & strategy.	Good water governance Sustainable Water Balance Good water quality status IWBA Safe Water, Sanitation and Hygiene	public & customers Good water governance Sostainable Water talance Good water quality status INVRA Safe Water, Sanitation and Hygiene
40		1	-		Reduction of potable water consumption	Maintenance - monitoring activities	3rd Party inspection and health check of deep wells and report sharing with PMPKL	and party is engaged to perfrom well condition check and also to measure the water table level. Blok identified by thord party valuerability repo	Technological	Knowing water source predications, being ready for future water related risks related to good maintence of well, and taking actions on time.	1.5 Gather water-related data for the calchment 1.3 Gather water-related data for the site 5.4 Disclose efforts to collectively address shared water challenges	Abdul Waris, Aughar Khan & Kulsoom	July, 2023	5ep-23 5ep-23	Direct	Ergagement	Test results and well videography	Test results and well videography	Completed Well videography reports received. Detailed report shared for both wells.	Good water governance Good water guality status Safe Water. Sanitation and Hypiene.	Good water governance Good water guality status Safe Water. Sanitation and thysiene
41			1		Reduction of potable water consumption	Maintenance - monitoring activities	Washnooms accessories installation to support in adequacy of WAGN in schools and community	As per recived information from the community and schools , we will install wash rooms in the community to improve WAGH. WAGH identified	Social & Community (External)	Promoting WAGH in local community.	4.3 Evaluate the stakeholders' consultation feedback 3.1 Implement plan to participate positively in catchment governance	Kulsoom, Waxeem All	341-23	Nov, 2023 Dec, 2023	Direct	Installation	6 muslim shower installation 8 sink & installation	TBC	On-Going Planning & survey is done. PD is created for execution. Implementation will satit after go ahead from legal Z&C team	Good water governance Good water quality status Safe Water, Sanitation and Hysiere	Good water governance Good water quality status Safe Water. Sanitation and Hysiene
42	4	4			Reduction of potable water consumption	Recycle/reuse of waste water, Increased water efficiency measures	Feasability study of WWTP installation at GLT	Discussed with management and vendors & DPA. Feasibility study to install Wandawater treatment at GLT. Identified as used in it.	Technological	Increased WASH cractices, sufe water discosal, avoid contamination and showing that PA	3.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Engineering/DIS	Jan-24	Dec, 2024 Jan-25	Direct	Installation	1 WW7P	тас	Proposed Expert pinion to be taken, Feasilibity study will be done Jan 2024	Safe Water, Sanitation and Hygiene Good water governance	Safe Water, Sanitation and Hygiene Good water governance
43			-		Reduction of potable water consumption	Maintenance - monitoring activities	Water filtration unit installation in collaboration with PHED at local hospital/GLT front wall (For local Community)	A large capacity water filtration unit installation to be carried out to provide safe drinking water to the local community as discussed in the water stowardhilp meeting.	Social & Community (External)		3.3.3 Implement plan to achieve best practice for water quality 1.7 Understand the site's water risks and opportunities	EA / Sustianability / LR / Stakeholders	Jul-23	Nov, 2023 Dec, 2023	Direct	installation	1 Filter unit	YEC	On-Going Planning & survey is done. PD is created for execution. Implementation will subst after go ahead from legal JE&C team	Safe Water, Sanitation and Hygiene Good water governance	Safe Water, Sanitation and Hygiene Good water governance
44	+	*	*		Carry out projects and activities with Stakeholders, employees, community members and local authorities in order to work together towards a sustainable water management and consolidation of AWS outcomes at catchment-level		Awammest Session: that will be conducted with local community, households and fammers on daily basis g engaging the NGO-INSP- Integrated Regional Support Program].	Enverses settion m: 1. AGE 161 - Solitorine (Scifford generacy, unitable ware helens, god ware galls, importer ware related area, 8 WOV), 2. AGE 161 - Solitorine (Scifford generacy, unitable settion (Scifford generacy), 2. AGE 2014, Scifford generacy ware to accord generacy for the settion (Scifford generacy), 2. Address to the any fields or composite settion (Scifford generacy), 2. Address to the any fields or composite settion (Scifford generacy), 2. Address to the any fields or composite settion (Scifford generacy), 3. Address to the any fields or composite settion (Scifford generacy), 3. Address to the any fields or composite settion (Scifford generacy), 3. Address to the any fields of the composite setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the any field of the setting (Scifford generacy), 3. Address to the setting (Scifford g	Social & Community (Determal)	Intransf WHE works, where to WHE Addenise the rules of work water authors increased awareness of proper management of resources, and on water scarchy problems, water rules & Challenges, safe water usage, no watag of water	112 Gather wells - wide£dda for the star 4.3 Evaluate the tablehidden' consultation feedback 9 3.1 Implement plan to participate positively in Cathment governance	Kulson & Amrais	July, 2023	Oct, 2023 Oct, 2023	Direct	Ergapersect	17 master Trainers 100 sessions	17 master Trainers 60 sessions	Sensions are its progress. This is excillent to broaden our communications to such detailed level and audience including value to inductat leavas. They will done. On-Going Backdan throning, Muh twee participated in this comparison ARIS by maining position and avernosis to well array was particularly demonstrated via small activities. It can be seen that lead wash activity is also conducted.	Good water governance Good water quality status Safe Water, Sanitation and Hygiene Good water quality INFA	Good water governance Good water quality status Safe Water, Sanitation and Hygiene Good water quality IWIDA
45	•	4	*	4	Carry out projects and scholars with Solaholders, employees, community members and local authorities in order to work togeth towards a substitutible water management and consolidation of All autorsma at columner level	er in order to mitigate, anticipate, raise awareness	During messages / enails / posters with government bodies so that they can share with rest of the stakeholders	North March 19, Thairmont Say (Thair Assemm), origina Assem for all advantation and advantation to be developed and shared with PRO, Resus 1122 & PA for further developed	Social & Community (Datema)	Increased exerums of interval / external statishistics on natural resources, water scarchy problems, water load depletion, Water risk2, Succioning the work down on RRS-stall show our statishistics that RVDSs, Lisk2, successful for the batterment of site as well as calciment More waiting on our program.	11 Implement plan to participate positively in catchment governance 52 Communicate the water stewardship plan with relevant stateholders	Kulucom	318-23	Nov, 2023 Dec, 2023	Direct	Frequences	Engage EPA Engage PHED Engage Rescue 1122 Engage 200 Local Community volunteers 30 tree plantation	TEC	This activity will be reported on local news and shared with our eacherblehrs including Mitt global, internal stakholders via news paper, valess shows on Rockory This.	Good water governance Good water quality status Safe Water, Santation and Hygiene Good water quality INVEA	
46		1		1	Avoidance of contamination -environmental impacts	Maintenance - monitoring activities	New parameter analysis to ensure best water quality	More water sample points to be identified including Process, potable & non potable water with additional paaremters added from water quality texts	Technological	Assung over a parameters as per case as commigns elements on group, as help with more analysis on water quality. In case of any deviations , timely actions to take that are appropriate relaxents the problem identofied. Also, its gonna help with the root cause of the problem with	1.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-risked data for the site	Kulsoon, Aughar Khan, S.M.Ali	Aug, 2023	5ep, 2023 Oct-23	Direct	Chemical, biological paramet	ers 100 % testing	100 % testing	Dn-Going Text report sreceived. Analysis to be done by Oct end	Good water quality status, Safe water, sanitation and hygiene	Good water quality status, Safe water, sanitation and hygiene
47	4	4			Reduction of potable water consumption	Recycle/heuse of waste water, Increased water efficiency measures	Recycled waste water mapping to be carried out. To check the feasability of reuse of waste water and make a proper action plan.	Recycled wate water mapping to be carried out. To check the feasability of reuse of water water and make a proper action plan. Identified as o	Technological	Increased awareness of proper management of resources, and on water scarcity problems, water risks & Challenges, safe water usage, no wastag of water		Kulsoom, Aughar Khan, S.M.Ali	Aug. 2023	Aug. 2025 Sep-25	Direct	NA	тю	TED	Proposed	Sustainable water balance Good water governance	Reduce water consumption, increase awareness on sustainable water conservation
48		1			Avoidance of contamination -environmental impacts	Maintenance - monitoring activities	Waste collection & disposal	Waste collection & disposal at farmers premesis to collect, segregate and dispose off hazardous & non hazardous waste. Identified as site and catchment risk	Social & Community (External)	Increased awareness & initiative towards clean environemnt & avoid water pollution with hazardous & non hazardous wate.	19.3 Implement plan to achieve best practice for water quality 1.2 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Faiza Lodhi/Kulsoom iftikhar	May, 2023	May, 2023 Sep, 2023	Direct	Ergagement	100% coverage of farmers to ensure clean premises	1552 KGs Hazardous & 1450 Non Hazardous waste collected	Completed Certificates of Recycling and Incineration received	Good water quality status, Safe Water, Sanitation and Hygiene, TWRA	Good water quality status, Safe Water, Sanitation and Hygiene, IWRA
49	1				Reduction of potable water consumption	Reduce water footprint based on established targets by employing process improvements, re- use and recycling activities and adapt technological measures	Laser Land Leveler	Water Saving and increase in onep production by introducing land leveler mechanization. Identofied as water scarchy risk and challenge	Social & Community (External)	Save ZSmio m3 of water by 2013 PE-BEK m3 water saving for 2023	1.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Faize Lodhi/Kuksoon Hikhar	jan, 2023	jan, 2023 Nov, 2023	Direct	Engagement	BSK m3 water saving for PK market	in process of review and validation	On-Going in Progress	Good water governonce	Good water governonce
50	1			4	Reduction of potable water consumption	Reduce water footprint based on established targets by employing process improvements, re- use and nocycling activities and adapt technological measures	Pic-Furlwood Sustainability Study	Down satisfieldly of fored designs from wherefuelenced a sourcing Supply of Surleved from declared satisfield designs and its docu	Social & Community (Datemal)	To save plantation cutting, induce flood occurrence and reduce soll deplicion. & maintaing water invelu, principing the INERA is forest creation	1.3 implement plan to advice site water balance targets 1.7 Understand the stark water risks and opportunities 1.3 Gather water-related data for the site 1.5 Gatherment 1987A 1.5 Shared water challinges	Faiza Lodh/Kulsoom Hitkhar	Feb, 2023	Mar, 2023 Aug. 2023	Direct	Engagement	Puelwood source from Identified sustainable forest division	100% fuelwood sourced from selected forest division	Completed Algometric of sustainability studies with formers sourced fuelwood from identified fuelwood dealers	Sustainable water balance Good water governance, TWRA	Reduce water consumption, increase awareness on sustainable water conservation
51	4			1	Reduction of potable water consumption	Reduce water footprint based on established targets by employing process improvements, re- use and recycling activities and adapt technological measures		Partalian al'indeginaan inverspecien in onder in save glorabilan cuiling	Social & Community (Determal)	To use plantation cutting, reduce flood occurance and reduce soli deplition & maintaing	1.3 Implement plan to advice site waite balance targets 1.7 Indentiand the site's waiter risks and opportunities 1.3 Gather waiter-related data for the site 1.5 Gather waiter-related data for the site 1.5 Stand waiter challingss	Faizs Lodh/Kuhoom Hikher	Feb, 2023	Aug, 2023 Sep, 2023	Direct	Ergagement	Provision of saplings to farmers for self sufficiency to reduce forest cuttings	Distributed 170,000 septings to selected farmers	Completed Follow up with done for suplicity plantation	Sustainable water balance Good water governance , IWIA	Reduce water consumption, increase awareness on sustainable water conservation
52	1	1			Reduction of potable water consumption	Increased water efficiency measures	hhense	Ensure proper drainage of storm water, Brain integrity tests to be conducted. Levels check, pipeline integrity checks.	Technological	To save water and maintain sustainable water balance	1.3 Implement plan to achieve site water balance targets 1.7 Understand the site's water risks and opportunities 1.3 Gather water-related data for the site	Waseem Al/ Kulsoom/ Waris	July, 2023	Dec-23 Dec-23	Direct	Participation	Drain integrity tests to check no water is wasted/leaked	тк	On-Going Coordination with vendor is in progress. Quotation to be shared by wendor. To make PO and perform the tests	Sustainable water balance Good water governance	Sustainable water balance Good water governance
53			-		Carry out projects and activities with Stalaholders, employees, community members and local authorities in order to work together towards a statisticable water management and consolidation of AVIS outcomes at catchment-level & site level	to mitigate, anticipate, raise awareness and	ir significant operations and an important supply chain footprint. In terms of methodology, the HRIA consists of	A spart of MN Island Right Constituent and the association of the datage, MI is associated because given sites and angest by standardig "Names Right Impact Associations" (2017) and address to MNR Estatundity index.	Social & Community (Deternal/Internal) assuming homon rights roles and inguists by conducting "Homon Bights ingust Assumments and catering for the basic rights like wards, early some is addron	1.3 Implement plan to achieve site water balance targets 1.7 Ordersland for a fair water risk and apportunities 1.8 Gener sales water of a last fair fairs 1.8 Gener sales water challenges 3.1 Gener fairs water challenges 3.1 Gener fairs water challenges 3.1 Gener fairs water challenges	Suleman Gul/ Kulucom	July, 2023	Dec-23 Jan-34	Direct	Ergagement	Assessment completion and addition in integrated report 2023	тас	In terms of methodology, the HRA consist of a preparation phase (desition previou) and is followed by a country with where the consultant previous interviews with thread and a desired advancement of the second second second second second second table independent of the second second second second second Second second second second second second second second second table independent second second second second second second table independent second second second second second second table independent second second second second second second second table independent second second second second second second second table independent second	Good water governance Good water guality status Safe Water, Sanitation and Hygiene Good water guality I WEA	Good water governance Good water quality status Safe Water, Sanitation and Hygiene Good water quality 1985A
54	*	4	+	1	Carry out projects and activities with Staleholders, employees, community members and local authorities in order to work togeth towards a sustandie water management and consolidation of All outcomes at catchment-level & site level	er anticipate, raise awareness and increase		To address the valuenabilities, opportunities, risk & chullenges, beel practices, heedbacks from shakeholders, third party consultation report, local BA, GAn the ABS smather plan.	Technological, Social	Desuring incorporation of all do to tasks in AWS mader plan	1 Data Gathering 2 Connis & Flam 3 Implement 4 Evaluate 5 Communicate & disclose	ABIS Team	Dec-22	Dec-25 34-34	Direct	Ergagement	Follow up & completion of tasks	тас	On-Going Follow up & completion of tasks via weekly meetings, stakeholder enappemnts	Good water governance Good water quality status Safe Water, Sanitation and Hygiene Good water quality IWBA	Good water governance Good water quality status Safe Water, Sanitation and Hygiene Good water quality IWDA

Risks	Priority (updated 2022 then 2023)	Impacts/Opportunities	Potential savings /value creation
Surface Water Contamination		The impacts of rapid population growth and urbanization are leading to poor water quality: untreated domestic sewage, sediment and nutrients from agricultural, and industrial wastes flow PMPKL is located near severals important water-related area (IWRA), each of which present many risks for the ecosystem due especially to: - Pollution from industries, domestic users and agriculture (use of pesticidies) - Cutting of forests. - Illegal conversion of forest to agricultural land and illegal urbanisation - Trade and hunting of endemic species.	 Better understanding regarding catchment water quality and cooperation with catchment Stakeholders for data gathering Active and shared actions and project with relevant stakeholders to raise awareness on water-related risks and mitigate them Periodic measurements and monitoring of water quality parameters in order
Ecosystem Degradation	Moderate-High	PMPKL is located near these important surface water sources. In order to avoid contamination they execute: - Periodic and accurate maintenance of water-related infrastructure - Correct storage of hazardous substances during production processes - Water quality tests on the discharged waters & drinking water. - Undertakes joint projects with stakeholders for trash collection, contamination mitigation and waste prevention. - Tree plantation, Saplings provision to Own woodlot farmers Reduce water footprint based on established targets by employing process improvements, re- use and recycling activities and adapt technological measures PMPKL has planned deep-dive studies and data gathering regarding catchment surface and ground water quality in order better understand and potentially mitigate water risks related to water quality	to respect legal compliance and optimum water quality - Prevention of water-born diseases and release of hazardous substances - Preservation of water-related ecosystems and environments - Safeguard for human health As per the evaluation: Cost saving done in land leveller & fuel wood project budgeted cost (KUSD- 40.42 and spent 39.41K USD, saving 1.01 K USD)
Access to Sanitation	Moderate-High	This risk is generally consistent: Very less households living in the area Swabi have access to sanitary toilets. Located in the same territory, PMPKL has the opportunity to implement actions and projects with the aim of raising awareness on the importance of having good sanitation: PMPKL has installed WASH structures in local villages of Mardan-Swabi.	Internal and joint campaign with relevant stakeholders, in order to raise awareness on WASH principles and the importance of a good water stewardship for the well-being of all. As per the WASH assessment conducted shows 100% drinking water improvement and sanitation in the catchment locality.
Flood Occurence	Low	PMPKL is not located in a flood hazard area, but is adjacent to vicinity to Indus river. The rainy season in the Pakistan has more and more above-normal rainfall, with monsoon and	 Joint actions with Stakeholders to mitigate shared water-related risk Awareness amongst local population and Stakeholders on mitigation actions related to shared water challenges
Projected Change in Flood Occurance	Moderate-Low	storm conditions prevailing, and which may last for several days and weeks. PMPKL has a very active Incident Comunication which frequantly informs internal employees on risky events and raise awareness on general flood risk related to its territory	- Implementation of best practices in catchment territory. With the awareness session, emphases and people awareness will be made.
Baseline water stress High		PMPKL is localed in a high area of baseline water stress risk.	Awareness and sesibilization joint projects amongst catchment Stakeholders for better and shared water saving actions Water saving of 0.25 m3/ton achieved with water saving initiatives. Water consumption reduction 5906 m3 2022 vs 2023
Access to Safe Drinking Water	Moderate-Low	PMPKL is located in a sensitive territory due to recent extra-urbanization and population growth.	Awareness and sesibilization joint projects amongst catchment Stakeholders for better and shared water saving actions

water Cons	2022	2023 m3	/ton 2022 m3	/ton 2023		0.17
Jan - July	4196	3770	0.34	0.51	426	0.0577
Oct - Dec	2650	2650	0.22	0.36		
Season	10209	4731	0.84	0.64	1,443	0.20
Total Water Cons	17055	11,151	1.40	1.51		
Volume Total Usable - Ton	12,204	7380			1,443	0.1955

Water Cons Actual 2022 - m3/ton	1.4		426						Mat	ar Souing 2022		
Condensat Recovery, Optimization of Feed Water Tanks	-0.14			Water Saving 2023								
Tap Sensor, Removal of redundant Water Points, Locks for water Points, other	-0.06								Increa:	se 📕 Decrease 🔳 T	otal	
Lower Steam used on Tobbaco	-0.05											
Water Cons Actual 2023 - m3/ton	1.15			1.6	1.4							
				1.4	211							1.15
	2022	2023		1.2				-0.143		-0.057	-0.05	1.15
Fixed Water Consumption - m3	6846	6420		0.8								
Variable Water Consumption - m3	10209	4731		0.6								
Total Cons - m3	17,055	11,151		0.4								
Leaf Packed tonnage	12,204	7380		0.2								
Fixed Water m3/ton	0.56	0.87		0								
Variable Water m3/ton	0.84	0.64					Cor	ndensat Recover	ry,		Lower Steam used on	
				V	ater Cons Actu	al 2022 -			Taj	p Sensor, Removal of		Water Cons Actual 2023

Cost saving done in land leveller & fuel wood project budgeted cost (KUSD- 40.42 and spent 39.41K USD, saving 1.01 K USD)

Shared water challenges	Description	Actions	Relevance for stakeholders	Relevance for site	Priority
Surface Water Contamination	PMPKL is located in close proximity to several important water-related areas (IWRAs) that are	PMPKL Mardan is implementing deep-dive studies and data gathering regarding catchment surface and ground water quality in order better understand and potentially mitigate water risks related to water quality PMPKL Mardan has contacted relevant authorities and industrial stakeholders in order to raise awareness on water-related catchment risks and challenges, and implement best practices related to mitigation of contamination events. PMPKL has planned to promote several actions (clean-up event-trash collection, bins installation,	Theme of concern for relevant environmental authorities and local stakeholders	PMPKL Mardan is a part of a relevant water demanding shed, located in close proximity to the Indus River	
Ecosystem Degradation	protected by environmental national and local authorities.	drinking water tests, filters installation, tree & flower planting, waste collection, bins installation, drinking water tests, filters installation, tree & flower planting, waste collection(hazardous/non hazardous) at Leaf locations, etc.) together with relevant stakeholders like Public health engineering PHED, Irrigation Department, Muncipal corporation TMA, local NGOs, Rescue 1122, EPA, Dragon fly NGO, IRSP NGO, WSSCM in order to mitigate pollution and ecosystem degradation. Saplings provision to Own woodlot farmers. Reduce water footprint based on established targets by employing process improvements, re-use and recycling activities and adapt technological measures Wate water treated plant is added in our master plan 2024. for planned activitoes PO are made.	Opportunity to create a synergic and joint approach to water stewardship in the territory and in relavance to the risks & challenges identified.	PM Mardan is implementing the AWS strategy plan defined in view of the risks and challenges/opportunities identified from different sources (stakeholders, visists,3rd party consultation etc.) in order to mitigate its impact on the territory.	Moderate-High
Access to Sanitation	PMPKL is located in a sensitive territory due to recent extra-urbanization and population growth	PMPKL has engaged in actions and projects for ensuring access to WASH facilities amongst the local communities and contracted farmers PMPKL Mardan has also planned campaigns in order to raise awareness on the importance of sanitation and has also built latrines for local communities. WASH fcailities inside plant are available and further improved with time. New ladies common room with adjacent washroom was built. Sensor taps installed in washrooms for water saving and easily access of water. upgradation of workers washroom + ablution area, upgradation of management washroom. Awareness sessions are conducted at locations on WASH and local community & vulnerable group with engagemnet activities done. for activitoes/engagemnets PO are made.	WASH matters are relevant for all stakeholders in the catchment, especially the local communities, the local population and the authorities which may synergistically help increasing awareness.	PMPKL with the implementation of AWS best practices regarding WASH, might drive a change within is catchment area of reference. Its in line with the identofied R&O and challenges and AWS plan. PM Mardan is implementing the AWS strategy plan defined in view of the risks and challenges/opportunities identified from different sources (stakeholders, visists,3rd party consultation etc.) in order to mitigate its impact on the territory. for planned activitoes PO are made.	Moderate-High
Flood Occurrence, Projected change in flood occurenece	PMPKL falls within a low flood risk area and its located near local bodies	PMPKL has a very active Incident Communication which frequently informs all employees on risky events and raise awareness on general flood risk related to its territory. PMPKL is working with Rescue 1122 and is planning on arranging an awareness session on fllods, precautionary & safety measures and contagious diseases with in kind donations to be made so that cen be used by society. for activitoes/engagemnets PO are made.	loist actions with Stakobalders to mitigate shared water related sick	PMPKL with the implementation of AWS best practices regarding water	Low medium low
Water Stress	PMPKL is localed in a high area of baseline water stress risk	PMPKL has engaged in various water saving projects at farm level, factory level and local community level where targets are set to optimize water foot print. Projects like water levellar mechaization, water meter installation, etc are all initiatives to sustain water usage. Moreover, awareness sessions to schools, farmers, local communities are also done in this regard. Also data gathering for water use ration and how to reduce it over the years. for activitoes/engagemnets PO are made.	 Joint actions with Stakeholders to mitigate shared water-related risk Awareness amongst local population and Stakeholders on mitigation actions related to shared water challenges Implementation of best practices in catchment territory 	sustainability might drive a change within is catchment area of reference. PM Mardan is implementing the AWS strategy plan defined in view of the risks and challenges/opportunities identified from different sources (stakeholders, visists, 3rd party consultation etc.) in order to mitigate its impact on the territory. for planned activitoes PO are made.	High

Ac	ress to Safe Drinking Water	PMPKL is located in a sensitive territory due to recent extra-urbanization and population growth	PMPKL has engaged in actions and projects for ensuring access to WASH facilities amongst the local communities- farmers, buying stations, warehouses etc. PMPKL Mardan has also planned campaigns in order to raise awareness on the importance of good potable water quality and access to all. for activitoes/engagemnets PO are made.	WASH matters are relevant for all stakeholders in the catchment, especially the local communities, the local population and the authorities which may synergistically help increasing awareness	PMPKL with the implementation of AWS best practices regarding WASH, might drive a change within is catchment area of reference. Like the rain harvestor idea captured from WSSCM during PMPKL viist to their site. PMPKL has intstalled the rain harvestors on site and planned in catchment. PO made.	Moderate-Low	

ALLIANCE FOR WATER STEWARDSHIP Journey ORGANIZATION

In line with our commitment for water stewardship, PMPKL Mardan has appointed a multi-disciplinary team to drive and support our AWS Journey.

Project Sponsor	M. Irshad Khan Head of Leaf		Faisal Mushtaq Director Manufacturing, PMPKL	
PMI Buddy	Haseeb Ahm Manager Sus			
Coach	Chiara Rizzi Manager Global AWS certification			
Consultant	Saera Kirma External Cor	ni Isultant- Geos	science	

	AWS Project Lead						
	Kulsoom Iftikhar Project Lead						
	AWS Core Te	am Members					
	Asghar Khan	M. Bilal Ahmad					
	Boiler Engineer	Manager Leaf, Processing					
-	Syed Muhammad Ali	Abdul Waris					
	Manager Production	Manager Maintenance					
144	Hussain Ali	Hassan Zahoor					
	Sr Mgr Social Sustainability. LDR & Culture	Procurement category lead					
	Ahad Abdullah	Basit Tufail					
	Manager Illicit, trade prevention, EA	OPEN+ Deployment lead					
(*)	Kulsum Khan/ Ramsha	Waseem Ali					
	Legal Affairs- Counsel	Supervisor WPE					

	AWS Pro	ject Lead		
Kulsoom Iftikhar Project Lead				
	AWS Core Tea	am Members		
10	Arshad Zaman	M. Ikraam		
	Supervisor warehousing & logistics, S&PD	Warehouse executive, S&PD		
	Hammad Shoaib	Faiza Lodhi		
1	GT, Production	Manager Environment sustainability, SA		
	Ammara Shahjahan	Hajira Khan		
	Sustainable Agriculture	Internal Communications Lead		
	Sana Hashmi	Waqas Ali		
	Company secretary, Ext Communications	Labour Relations Executive		





Water Related Roles & Responsibilities PMPKL Mardan







PK-EHS-3L-OP17 EHS Management System

Position	Roles/ Responsibilities	Current Occupant of Position (22.08.2023)
Director Manufacturing	 Ensure there is established process and documented plan for all legislative and other regulatory requirements. Ensures the provision of resources targeted towards compliance to legal and other requirements 	Faisal Mushtaq
Sustainability Manager	 Ensure that this procedure is being implemented Communicates with the Leadership Team the status of compliance through the Management Review 	Kulsoom Iftikhar
Sustainability Specialist	 Identifies all applicable and relevant legal and other requirements related to the environment Evaluates and monitors compliance to environment-related legal and other requirements together with the concerned personnel or department Ensures implementation of this Procedure 	Kulsoom Iftikhar
Employees/ Head of Departments	 Informs EHS of changes in processes, materials, or products that may impact compliance to legal and other requirements Assist in the evaluation and monitoring of the compliance to legal and other requirements 	M. Bilal Ahmad M. Shahid M. Nadeem Khan M. Bilal Anjum Waseem Ali Haseeb Ahmad Waqas Ali Harris Khan Khattak





PK-EHS-3L-P-02 Environmental Management System

Entity/ Department	Key responsibilities	Current Occupant of Position (22.08.2023)
Director Manufacturing	Ensure that environmental complaints are addressed and allocate, if required.	Faisal Mushtaq
Sustainability Manager	Monitor environmental complaints and ensure that investigations, corrective and preventive actions are implemented. Notify internal and external parties on the nature of complaints and corrective and preventive actions taken. Liaise with Corporate affairs and Legal Departments regarding the complaint.	
Sustainability Specialist	Record the environmental complaint. Notify & Investigate with the relevant Line Management on the nature of the complaint .Coordinate and monitor the implementation of the corrective and preventive actions undertaken by the company.	Kulsoom Iftikhar
Line Management	Investigate with the EHS delegate and Implement the corrective and preventive actions to address the complaint.	All concerned line management
Corporate Affairs	Liaise with related government agency, if required.	Ahad Abdullah
Legal Department	Review notices and responses on the nature of the complaint.	Kulsum Khan/Ramsha





3S-EHS-11 Water & waste water non-conformity procedure

Entity/ Department	Key responsibilities	Current Occupant of Position (22.08.2023)
Manufacturing Director	Ensure water and waste water non-conformity program is in place.	Faisal Mushtaq
Sustainability Manager	 Ensure that a Water and Wastewater Non-conformity Management Procedure is developed and implemented. Monitor the implementation and effectiveness of this procedure. Select appropriate third party service provider to conduct the sampling and analysis of water and wastewater. 	Haseeb Ahmad/Kulsoom Iftikhar
Department Managers	 Ensure that this procedure is being implemented. Identify, develop and implement wastewater and water minimization programs with quantifiable objectives and time frame. Review wastewater and water minimization program. 	M. Bilal Ahmad M. Shahid M. Nadeem Khan M. Bilal Anjum Waseem Ali Haseeb Ahmad Waqas Ali Harris Khan Khattak
Sustainability Specialist	 Ensures that all regulatory requirements pertaining to water and wastewater are complied. Maintain an inventory of water and wastewater sampling points in the facility. Review results of analysis for any deviations to standards. Guide the review team through the incident investigation process. Validate the results of analysis. Ensure compliance to water and wastewater related EHS permits, clearances and certificates Provide the updated standards to be complied with for water and wastewater. Liaise with relevant government bodies for permit requirements, regulatory updates, reports and other communications relating to water and wastewater. 	Kulsoom Iftikhar

Water and Wastewater Non-conformity Management Procedure



3S-EHS-11 Water & waste water non-conformity procedure

Entity/ Department	Key responsibilities	Current Occupant of Position (22.08.2023)
Manager Maintenance	 Maintain an inventory of water and wastewater sampling points in the facility Selection of the wastewater and water treatment manager service provider and ensure that they have the capability to comply with the set standards and requirements of the law and the contract. Set and monitor the requirements for process water. Ensure the proper treatment of water and wastewater prior to use or discharge. Update the inventory for changes in the water or wastewater stream and communicate the changes appropriately. Lead the investigation of non-conformities. 	Abdul Waris
Water and Wastewater Management Service Provider	 Ensures that water and wastewater are tested according to the standards and requirements. Maintain all internal testing and monitoring results Ensure on-time submission of required reports and documentation. Participate in any non-conformity incident investigation as necessary. Implement corrective actions necessary to comply with the standards and requirements. 	Badar Zaman- GeoWatt
Area Supervisor and Team Lead	 Ensures that this procedure is being implemented. Ensures that wastewater and chemicals are disposed through the right channels, in coordination with Law and PMI requirements. Ensure that all machines/equipment are operated and maintained properly. Implement and monitor wastewater and water minimization programs. Ensure that employees are informed and trained in wastewater and water minimization programs. 	Syed Muhammad Ali Waseem Ali Arshad Zaman Abdul Waris Numair Saleem Kulsoom Iftikhar
Employee	 Implement and follow the wastewater and water minimization programs. Inform the supervisor of any issues regarding the requirements of the procedure. Suggest wastewater and water minimization programs. 	

PDCA Sessions

• AWS Awareness for general population

Virtual training was conducted by PMPKL employees for team formation, Aws awareness, policy , benefits & its 5 outcomes.

- Multiple session were conducted in this regard in Dec 2022, Aug, 2023, Sep 2023 and Oct 2023

Session with Workers

• AWS Awareness for general population & Workers



Session Covered: AWS and its 5 outcomes

- WASH
- Anti littering
- Keeping Environment & water areas clean
- Clean Water & healthy Life
- Stop open burning
- AWS Policy

Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

Session with Workers

• AWS Awareness for general population & Workers



Session Covered:

- AWS and its 5 outcomes
- WASH
- Anti littering
- Keeping Environment & water areas clean
- Clean Water & healthy Life
- Stop open burning
- AWS Policy
- How to save water



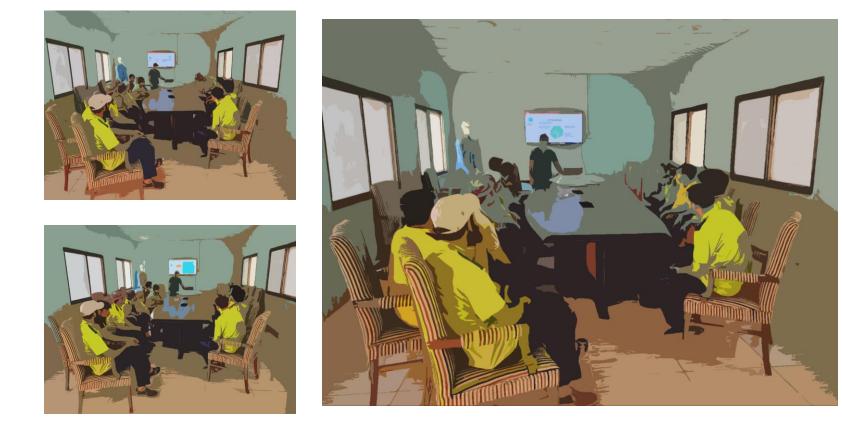




Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

Session with Workers

• AWS Awareness for general population & Workers



Session Covered:

- AWS and its 5 outcomes
- WASH
- Anti littering
- Keeping Environment & water areas clean
- Clean Water & healthy Life
- Stop open burning
- AWS Policy

Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

AWS Awareness Sessions

• AWS Awareness for general population & Workers



Session Covered:

- AWS and its 5 outcomes
- WASH
- Anti littering
- Keeping Environment & water areas clean
- Clean Water & healthy Life
- Stop open burning
- AWS Policy

Disclaimer: Pictures are blurred in view of the data privacy and confidentiality

Session with Service Providers

• AWS Awareness for general population & Service Providers











Session Covered: AWS and its 5 outcomes

- WASH
- Anti littering
- Keeping Environment & water areas clean
- Clean Water & healthy Life
- Stop open burning
- AWS Policy
- How to save water
- Water usage by service providers & mitigation measures

AWS Performance Update

• AWS performance Update, performance feedback from Stakeholders



Clean Up Day

- Collection of hazardous & nonhazardous waste
- Proper disposal in compliance with applicable requirements

1562 KGs hazardous & 1450 KGs non-hazardous waste collected from farmers premises.

To ensure premises cleanliness, WASH and safe water quality, contributing in keeping water related areas clean

ہم اور آپ ل كركرينگي تمباكوكوصاف! کاشت کارا پنی کھیت، رہائش گاہ، زرعی پیداوار خصوصاً تمبا کوکوز ہر یلے مواد سے پاک رکھنے میں تعادن کریں اور کچرا بوری تک پہنچائیں شکر ہے! DragonFly **O**0800 73792 / 0314-2310809 Agriculture









Distributed 170,000 saplings to selected contracted farmers

Provision of saplings to contracted farmers for self-sufficiency to reduce forest cuttings

To ensure sustainable water balance, IWRA and good governance











Water Quality Tests

- At different locations
- At local hospital

WASH at farmers premises

- Construction of washrooms
- Installation of commodes
- Installation of water tanks
- Data collection on WASH showing 100% drinking water availability & improved sanitation

To ensure water quality, good governance and WASH

Disclaimer: Some of the farmers are not contracted with us anymore but the facilities are still in use









Farmer Name: Wali Muhammad

Contract No. 10208







WASH at site

Upgradation of workers washroom Upgradation of Office washrooms (Ongoing)

Upgradation of ablution area New common room with attached washroom for ladies

To ensure good WASH at site





Engagements planned with stakeholders (Rescue 1122, PHED, EPA, local schools & local hospital)

- Awareness session on
 - Floods and safety measures
 - Spread of contagious diseases
 - Clean drinking water
 - Sustainable use of water
 - WASH

PMPKL contribution by donating:

- First-aid boxes, portable de-wash pump, life jackets
- PPEs (face masks, face shields, gloves, full body safety kit and aprons)
- Tree saplings
- Waste bins
- Washroom accessories
- Water filtration units & cooler
- Rain harvesters
- Anti-littering posters



AWS Performance Update (Technical)

- New operational well
- Plugging redundant connections
- Gemba walks
- Installation of new meters
- Condensate recovery
- Rain harvesters
- To ensure sustainable water balance, IWRA, good governance, water quality & quantity, requirements under applicable laws, WASH









AWS Performance Update (Technical)

- Installation of food grade taps
- Installation of sensor taps
- Heat exchanger
- Installation of rain harvesters
- Upgradation of washrooms
- Water quality tests (new parameters & new area samples)
- To ensure sustainable water balance, good governance, water quality & quantity, requirements under applicable laws, WASH





Corrective & Preventive Measures

- S.NO CA/PA
- **1** AM CIL for inspection of flanges- Done
- 2 AM CL for flange- Done
- **3** Bolts Tightening- Done
- Capability building & training of third party technical team- In progress
- 5 Material of O-ring to be improved- Done
- Visibility improvement in C shift by installation of cameras In progress

Initial Problem Statement:

During operation, hydraulic oil leak was observed from hydraulic press section installed on roof top. Oil was spilled on roof and entered into rainwater channel on roof.

Description:

One of the flanges installed on 2" pressurized oil line got leaked and oil spilled on roof top. The oil spilled so it entered the rainwater drain channel, however it was a controlled spill as leaked oil was contained there and no water violation occurred i.e. oil spill didn't reach the main drains and was contained there. The oil leakage was realized in morning due to low visibility in C shift (night shift) at roof.

Root Cause:

The O-rings were of poor material & purchased locally

CIL was not prioritized for Press due short period of season

3P worker trainings were not refreshed .

IPS summary and way forward:

- Inspection monitoring regime for press (CL+ CIL to be created)
- Training of technicians on critical equipment in every area
- Material of O-Ring to be improved to avoid material failure breakdowns.

P.S: AWS requirement : 5.5.1, 5.5.2, 5.5.3 (disclosing the water related violations to stakeholders, relevant public agencies & corrective actions executed)

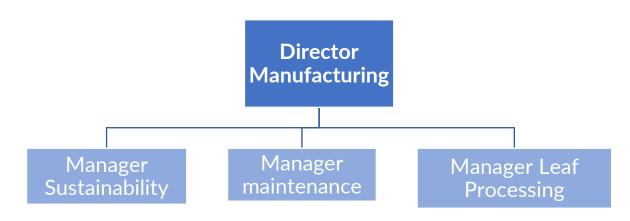
Site Water-related internal governance

Water-related governance Team charter:

Manufacturing

At PMPKL's Mardan factory, water governance is an integral part of our business strategy. It's linked to PMI's global ambitions towards responsible water use and strong routine governance systems.

Below mentioned hierarchy is responsible & accountable for water-related governance, applicable Laws adherence with applicable laws and action planning.



Site Water-related internal governance org chart

Water KPIs & Governance at site

- At PMPKL's factory in Mardan, *total use of water at site* is monitored as a Key Performance Indicator (KPI).
- KPI data is reviewed with top site leadership i.e., Director Manufacturing on defined review frequencies.
- Improvement actions are tracked for efficient closure. (Corrective & Preventive actions taken as per need)

