No	Water Challenges	Relevance to the Catchment/Stakeholders	Tendency	Prioritization	Stakeholder Linkage Shared Water Challenge	Impact to the Site	Degree of the Impact of the shared water challenge to the Site	Justification
1	Extreme weather conditions causes reservoir saturation and runoff volume causes flooding over low lands along the catchment	Destruction of farmer cultivations Drinking water treatment intake infrastructure failures	Low	Medium	Sri Lanka Mahaweli Authority (SLMA), National Water Supply & Drainage Board (NWSDB), Divisional Secretariat (DS), Kandy Municipal Council (KMC), Department of Agriculture (DA) Villagers living along the riverbank (villagers), Farming Communities (FC)	Site water supply disruptions Site access cutoff	Medium	No past experience
2	Drought and water scarcity	Decreasing water availability for agriculture & hydropower generation Lack of drinking water supply for the vulnerable communities living in highlands Lack of water for agricultural purposes and livelihood maintenance	Medium	High	SLMA, NWSDB, KMC, FC, Farmers and Vulnerable Communities (VC)	Rationing of water supply Additional cost of alternatives	Medium	No past experience
3	Surface water pollution: Solid & liquid waste disposal to river and connecting water bodies	*	High	High	SLMA, NWSDB, KMC, CEA, DS	Poor quality of water supplies High internal treatment cost	High	Possible product and heath impact to employees. No past experience.
4	Industrial pollution: Discharge of poorly treated water and other pollutants	Water quality deterioration (high effort for treatment) Disturbances to aquatic life	Medium	Medium	SLMA, CEA, KMC, NWSDB, Villagers	Poor quality of water supplies High internal treatment cost	High	Possible product and heath impact to employees. No past experience.
5	Sedimentation and sediment export	Reduction of catchment and reservoir water capacity Reduction of water holding capability of connecting water bodies and Strome water retaining ponds Blockages and other impacts on turbines and other equipment in power plants	Medium	Medium	SLMA	Long term impact of water availability Flooding and submerging of down stream areas of the catchment	Low	
6	Lack of people awareness, poor human behavior and lack of adherence to governance	Human actions causing water pollution and poor hygiene practices	High	High	SLMA, CEA, KMC, NWSDB, Villagers, VC	Poor quality of water supplies High internal treatment cost	High	Product and heath impact to employees and community
7	Unlawful encroachment of riverbank/IWRA	Deforestation and river reservation forest coverage Adverse impact on biodiversity & aquatic life Destroying the water sources	High	High	SLMA, CEA, Villagers, KMC, NWSDB	Long term impact on water availability	Low	
8	Accidental Spills including hazardous material from the industries in the catchment	Catchment water pollution Adverse impact to aquatic life Temporary unavailability of water for drinking water supply	Low	Medium	SLMA, CEA, Villagers, KMC, NWSDB	Unavailability of water for site operations Contamination of drinking water supply High cost of alternatives	Medium	No past experience
9	Increasing the water demand for industrial purpose	Lack of water availability for drinking water supply and irrigation purposes	Low	Low	SLMA, KMC, NWSDB, Villagers, FC, VC	Long term impact on water availability	Low	Mainly a residential area. No huge industrial growth.

10	Increasing cost of water supply	Increasing cost of water treatment process Increasing cost of infrastructure maintenance High energy cost Water tariff increase	Medium	Medium	KMC, NWSDB, Villagers, VC	Increasing expenditure for water use	Medium	Operational cost impact
11	Lack of access to pipe water and continuous supply	Lack of water availability, insufficient pressure and not meeting the minimum demand to water for essential activities	Medium	High	Villagers, VC, KMC, NWSDB	Rationing of water supply Additional cost of alternatives	Medium	
12	Poor quality of drinking water	Not meeting the desirable level of water for consumption which leads to water borne diseases	High	High	VC, KMC, DS, NWSDB	Poor quality of water supplies High internal treatment cost	High	Potential health impact to employees
13	Lack of to access to WASH and poor standard of WASH facilities available for vulnerable communities.	Substandard toilet facilities casing poor living standards & ground water contamination	High	High	VC, DS, NGOs, CSOs	No Impact to the Site	NA	NA
14	Sewage discharge management limitations due to limited connectivity and lack of centralized systems	Ground and surface water contamination due to direct discharge.	High	High	KMC, NWSDB, Villagers, VC	Additional logistical arrangements and expenditures for safe disposal of site sewage Poor quality of water supply and ground water quality contamination High internal treatment cost	High	Operational cost impact Potential health impact to employees
15	Deterioration of catchment infrastructure & exposure to extreme events	Infrastructure failures - safety risk Increasing maintenance cost Water loss due to leakages	High	Medium	SLMA, KMC, NWSDB	Do not Foresee as an immediate challenge to the Site	Low	NA
16	Lack of connectivity and silo operating model of government water related authorities	Lack of synergy and collaboration in driving the catchment related actions/improvement initiatives	High	Medium	SLMA, CEA, DS, NSWDB, KMC	Lack of collaboration of driving water stewardship agenda	Medium	
17	Poor Management of the IWRAs	Deterioration of IWRA casing long term impacts of water availability and Biodiversity	Medium	Medium	SLMA, KMC, NWSDB	Issues in long term water availability	Low	
18	Lack of capability and arrangements to respond to catchment water related emergencies	Catchment water pollution Adverse impact to aquatic life Temporary unavailability of water for drinking water supply	Low	Medium	SLMA, CEA, Villagers, KMC, NWSDB	Unavailability of water for site operations Contamination of drinking water supply High cost of alternatives	Medium	No past experience
19	Water born health issues (kidney diseases)	Socio economic impact to communities	High	High	Vulnerable communities, Farmers	No Impact to the Site	NA	
20	Poor Conditions of the Public WASH facilities	Impact to community living and safe access to hygiene	Medium	Low	KMC, DS	No Impact to the Site	Low	
21	Scarcity of water for agricultural lands and farming communities	Loss of livelihood and source of income Competition of ground water	High	High	SLMA, Farmer communities	No Impact to the Site	Low	Farming communities are having this requirement











iver (Repair in 2025/2026)

garbage dumping to river

Elimination of sewage water discharge to ground water

upply water filters to needy families and community centers

Support construction of floating barrier to SLMA to prevent solid waste intruding to

Construction and supply of solid waste collection bins to Akurana DS to prevent

Facilitate water quality testing, protection and promotion campaigns in water

Supply and installation of a RO plant to an identified vulnerable community reside in

Supplying dewatering pump to NWSDB to use during water network repairs to prevent



## **Vision**

## Water for a Better Tomorrow

## Mission

Drive a robust water stewardship agenda through scaled up



Risk Mitigation

Risk Mitigation

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge



Zero sewage water discharge to ground

Project completion and handing over

Project completion and handing over

Conduct minimum 01 campaign per year

Supply of submersible pump to NWSDB for

contaminated water pumping during breakdown

Complete one project

Complete one project

fixing in Q4 2023







2025

2025

2025

2025

2025

2026

2026

2026

2026

2026

Done

Done

2024

2024

2024

2024

**GLTP Technical Executive** 

**GLTP Technical Executive** 

**GLTP Technical Executive** 

CTC/NWSDB/KMC/Community

**GLTP Technical Executive** 

GLTP Manager

CTC/DS

CTC/GS







NA

NA

Feb-25

Dec-25

Oct-25

Sep-25

Oct-25

On going

Done - 50%

On going

partnerships and collaboration of stakeholders	σδο		<b>—                                    </b>					0	0	
Goal										
Drive strong water governance at site and support catchment water governance	Source of Action	Target	Measurement and Monitoring	Responsibility				Status 2024	Status 2025	Timeline for 2025
Establish & sustain site water governance team with clear responsibilities & conduct		Execution of annual meeting with 100%	Conduct annual review of status updates		2024	2025	2026			Apr-25
annual steering committee meetings	Risk Mitigation	participation	against responsibilities	ESS&S Manager	2024	2020	2020	Done	Done	Αρι-20
Annual review, update and assess the regulatory compliance requirements and		Maintain 100% compliance status & escalation if	Annual regulatory compliance assessment &		2024	2025	2026			June & Dec 2025
obligations	Risk Mitigation	any issues	signoff at steering committee	Sustainability Executive	<u> </u>			Done	On going	
Regulatory compliance training & awareness through SME support	Risk Mitigation	Training completion	Post training awareness check	Sustainability Executive	2024			Done		NA NA
Activate & Implement the process for potential violation reporting and discloser	Risk Mitigation	System implementation	Monthly incident review	Sustainability Executive	2024	0005	0000	Done		NA Oct 05
Implementation of alternative supplier agreement of contingency water supply	Risk Mitigation	Identify the supplier and complete agreement	Annual plan revision	ESS&S Manager		2025	2026		Not started	Oct-25
Provide internship for local University to conduct a GIS based water balance study in the catchment from Preadeniay to Pallekelle	Risk Mitigation	Identify changes taken place with time and propose mitigation actions		GLTP Manager		2025	2026		On going	Jan-26
Develop water stewardship strategy, plan and negotiate with stakeholders for plan		Cascade revised plan and align stakeholders be			0004	0005	2000			Aug OF
implementation & annual review	Challenges	satisfied in Q3 2023	Annual plan revision	All stakeholders	2024	2025	2026	Done	Done	Aug-25
Identify emergency scenarios and develop and emergency response plan for the		Documentation of emergency response plan and			2024	2025	2026			Oct-25
catchment emergencies	Challenges	testing	Annual review and testing of the plan	CTC/SLMA/NWSDB/KMC	2024	2025	2020	Not Done	On going	OCI-25
Take part in catchment water governance awareness programmes implemented by	Challenges	Complete the awareness board display and legat	athlebelderfoodbook	Sustainability Executive	2024	2025	2026	Done	On going	Oct-25
Goal										
Strengthening and promoting the efficiency in water use at site and beyond	Source of Action	Target	Measurement and Monitoring  Action	Responsible				Status 2024	Status 2025	Timeline for 2025
Conducting the leak detection survey at site	Risk Mitigation/Opportunity	Survey completion & 100% leak prevention	Incident based or annual survey	GLTP Technical Executive		2025	2026	Done	Done	May-25
Installation of water efficient fittings		Deliver 35% water withdrawal reduction by 2025.	Monthly monitoring of water withdrawal and			2025	2026			Nov-25
instation of water emclent littings	Opportunity	Progress to be reviewed	withdrawal reduction over time	GLTP Technical Executive		2023	2020		On going	1107-25
Expand recycled water pipe network at site to increase usage for gardening and			Network expansion projects completion and		2024					NA
washroom flushing	Risk Mitigation/Opportunity	Deliver 30% water recycling status by 2025	recycle water quantity monitoring	GLTP Technical Executive				Done		
Steam usage optimization of equipment and increasing of condensate water recovery	,	Connecting 100% of factory machineries by Q3			2024					NA
	Opportunity	2024	Annual assessment of plan completion	Asst Manger GLTP				Done		
Institutional level water waste assessment and provide solutions for water waste			Project completion post project improvement		2024	2025	2026			Oct-25
reduction	Opportunity/Challenges	Complete the assessments for local University	review	CTC/NWSDB/KMC				Not Done	On going	
Water meter calibration system improvement support	Challenge	Upgrade and handover the water meter calibration system to KMC by End Nov 2023	Project completion and obtaining user feedback on performance	CTC/KMC			2026			NA
Improvement of water retention in the catchment area (construction ponds, improve		Conduct at least 1 pond construction project and	Project completion and obtaining user			0005	0000			New 05
vegetation cover)	Opportunity/Challenges	tree planting programme	feedback on performance	CTC/DS		2025	2026		Done	Nov-25
Macquing and improving the indirect water use of cumpliars		Complete the 2nd assessment of water use	Assess and report the water use of Yala and			2025	2026			Son 2F
Measuring and improving the indirect water use of suppliers	Opportunity	assessment for tobacco farming community	Maha seasons	LASM/LGM		2025	2020		Done	Sep-25
Promotion of pipe water use reduction in households and institutes	Challenge	Conduct the leaflet based promotional activity in two areas under KMC & NWSDB by End Dec	Project completion and obtaining user feedback on performance	CTC/NWSDB/KMC	2024	2025	2026	Planned	Done	Oct-25
Goal										
Assurance of water quality and contribution towards catchment water pollution	Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
Carryout onsite waste water quality testing	B	Zero non compliance to drinking water quality	Quarterly check of compliance against	0.707	2024	2025	2026		0 11 1	Oct-25

standards

Project completion

Stakeholder feedback

Stakeholder feedback

Stakeholder feedback

Stakeholder feedback

Stakeholder feedback

Stakeholder feedback









	Goal										
Catch	ment areas and infrastructure maintenance and restoration for sustainab	Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
	River bank and retaining ponds status assessment and rehabilitation together with SLMA	Challenge	Conducting the land survey and completion of an project	Assess improvement of current status and retention capacity enhancement	CTC/SLMA	2024	2025	2026	Survey completed	Done	Oct-25
	Rehabilitation of mini water ponds of catchment areas together with selectedstakeholders	Challenge	Completion of one initiative	Assess and verify water storage capacity enhancement	CTC/KMC	2024	2025	2026	Not Done	plementation Pendi	Nov-25
	Re-forestation of degraded areas of the catchments banks and catchment areas together with SLMA	Challenge	Tree planting programme with SLMA near Polgolla	Assess the improvement of current status of degraded land	CTC/KMC/SLMA	2024	2025	2026	Done	50%	Nov-25
	Ground water re-charge study together with KMC Challenge		Completion of a polit	Recommendation sharing and implementation plan agreement	СТС/КМС		2025	2026			NA
	Drive community owned IWRA maintenance programmes along the river bank together with SLMA Challenge		Forming of community teams and commence the programme	Improved status of IWRA - resurvey and measure the improvement	CTC/SLMA		2025	2026			NA
:	Support river annual programmes and maintenance programmes organized by SLMA	Challenge	Extending the support to an annual event.  Conduct a cleaning programme near Polgolla reservoir	Stakeholder feedback & IWRA status improvement before & after	CTC/SLMA	2024	2025	2026	Done	Done	Sep-25
	Goal										
Achiev	ve safely managed water, sanitation and hygiene for workplace and comm	Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
	Improving the WSH facilities if factory full time staff	Risk mitigation	Project completion and handing over	Post implementation feedback	GLTP Assistant Manager	2024		2026	Done		NA
	Upgrading the WASH facilities of seasonal staff and contractors	Risk mitigation	Project completion as per the plan	Post implementation feedback	GLTP Assistant Manager		2025	2026	Im	plementation Pendi	Oct-25
	Spring well re-activation and water supply connection establishment in selected vulnerable community areas	Challenge	Complete 2 projects. Requirements to be collected from the stakeholders.	Post project completion benefit assessment and obtaining the user feedback	CTC/DS		2025	2026	In-Progress	Done	Oct-25
ctions	Uplifting Private and common toilets and re-activation of community based units to maintain the status	Challenge	Building and handover toilet facility for the needy	Post project completion benefit assessment and obtaining the user feedback	CTC/DS/Societies	2024	2025	2026	In-Progress	Done	Aug-25
	Provide water supply infrastructure for the vulnerable communities living in highlands with the support of NWSDB	Challenge	Supply of water tanks for water distribution for the vulnerable living in Pitiyagedara area	Post project completion benefit assessment and obtaining the user feedback	CTC/NWSDB		2025	2026		Done	Aug-25
-	Conduct WASH awareness for women, children and other selected vulnerable communities	Challenge	Conduct the sessions focusing the women & children in the areas of Wattegma & Ganga Wata Korale	Training attendance and feedback gathering	CTC/AGA/KMC/NWSDB	2024		2026	Done		NA
	Goal										
Promo	oting the care for Water through systemic behavioral change by capability	Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
S	Onsite capability building awareness to promote the care for water	Opportunity	congrege on World Environment Day, 1995	Training attendance and feedback gathering	Sustainability Executive	2024	2025	2026	Done	Done	Apr-25
ions	Facilitate the execution of community awareness programmes to promote care for	Challenge	community, women and children in Wattegama &	Training attendance and feedback gathering	CTC/SLMA/NWSDB/CEA	2024	2025	2026	Done	Done	Mar-24
Act	Enable catchment areas rehabilitation, cleaning and river bank maintenance through voluntary groups	Challenge/Opportunity	Group formation and programme implementation	Stakeholder feedback and before and after status assessment	CTC/SLMA/KMC			2026			NA