

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	Adverse impact causes to reservoir infrastructure Submerging and households and road connections 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	Water quality deterioration (high effort for treatment) Catchment infrastructure (barrage gates, tunnels, water intakes for treatments) operation destructions	High	High	SLMA, NWSDB, KMC, CEA, DS	Poor quality of water supplies High internal treatment cost	High	Possible product and health 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 health 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 downstream 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 health 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 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, NWSDB, 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

Goal											
Catchment areas and infrastructure maintenance and restoration for sustainable livelihoods		Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
Actions	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 selected stakeholders	Challenge	Completion of one initiative	Assess and verify water storage capacity enhancement	CTC/KMC	2024	2025	2026	Not Done	Implementation Pending	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 pilot	Recommendation sharing and implementation plan agreement	CTC/KMC		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											
Achieve safely managed water, sanitation and hygiene for workplace and communities		Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
Actions	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		Implementation Pending	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
	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 Wategama & Ganga Wata Korale	Training attendance and feedback gathering	CTC/AGA/KMC/NWSDB	2024		2026	Done		NA
Goal											
Promoting the care for Water through systemic behavioral change by capability building		Source of Action	Target	Measurement and Monitoring Action	Responsible				Status 2024	Status 2025	Timeline for 2025
Actions	Onsite capability building awareness to promote the care for water	Opportunity	Complete WASH awareness with 100% site coverage in World Environment Day village	Training attendance and feedback gathering	Sustainability Executive	2024	2025	2026	Done	Done	Apr-25
	Facilitate the execution of community awareness programmes to promote care for water	Challenge	community, women and children in Wategama &	Training attendance and feedback gathering	CTC/SLMA/NWSDB/CEA	2024	2025	2026	Done	Done	Mar-24
	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