No	Water Challenges	Relevance	Stake holders	Stakeholders who highlighted the challenge	Prioritiza tion	Possible sollutions	
1	Flooding Flooding of areas surrounding Kelani river	Disruption to livelihood of communities, transporatation and industries due to floods Degradation of Kelani river water quality due to washing away of chemicals and waste from land. Disruption to Ambatale water intake point	living in riverbanks, NWSDB,	Families living near Malwana Malwana Gramasewaka division, Biyagama DS Division	1	1. Tree Planting project- Planting MEE/Kumbuk trees in the riverbank to act as a barrier against flood 2. Clearing a lake blocked with solid waste and wild plants 3.Implement waste collection system in communities 4. Support the families and local comunities affected by floods.	
	_	Erosion of the river bank causing changes in the shape of the river and disruptions to the families living along the bank		Families living near Malwana Malwana Gramasewaka division, Biyagama DS	1	Tree planting along the river bank 1. Tree Planting project- Planting MEE/Kumbuk trees in the riverbank to reduce erosion.	
2	Drought and water scarcity	Decrease in water availability	Villagers, vulnerable groups,	Not highlighted by stakehold	3	1. Aforrestation	
3	lintractriictiira raiatad tol	Degradation of Kelani river water quality and affecting the quality of the treated water from Ambatale.	living near	Walgama-West Gramasewwaka division, Families living near Malwana Malwana Gramasewaka division, Biyagama DS Division	1	1Installing waste collection bins in selected locations. 2.Installation of septic tanks for washrooms. 3. Extension of sewage network 4.Connection of domestic sewage to sewer line	

4	of poorly treated water and other pollutants to the water	Degradation of Kelani river water quality and affecting the quality of the treated water from Ambatale.	vulnerable	CEA NWSDB Local community people	1	 ETP operator training to educate factory ETP operators. Random monitoring of industrial waste water dumping areas to identify unlawful waste water disposal.
5	Salt water intrusion into the rivers	Salt water intrusion to the river mainly due to sand mining activities (Current treatment at	All people receiving water from	NWSDB	2	Installation of sand bariers. Strict enforcement of legal actions for
6	Poor human behavior	Human actions causing water pollution, poor hygiene practices and excessive consumption of water at household level.	All people receiving water from Kelani river, CEA, NWSDB		2	Installation of segregated waste collection points. Waste reduction and segregation awareness
7	Unlawful encroachment of riverbank	Deforestation and river reservation area related	CEA, NWSDB	CEA	3	No feasible solutions identified
8	Accidental Spills including hazardous material from the industries in the catchment	Water Quality not being to the relevant required standard for Impact on aquatic life and vegetation housing in water Cost for clean ups and cost for alternative water supplies	All people	CEA	1	Emergency response plan development and training for chemical spills
9	Pollutants entering groundwater	Water Quality not being to the relevant required standard for	People obtaining	lot highlighted by stakeholder	2	Awareness sessions
10	Increasing in the water demand for industrial purpose	Decrease the water availability for livelihood	People obtaining	NWSDB	3	Awareness sessions
11	Increase of population density and increasing demand for water due to high	Decrease the water availability for livelihood Low pressure water supply	People obtaining water from	lot highlighted by stakeholder	2	Awareness sessions
12	-	Increase of treated water (from treatment plant) wastage	People obtaining	NWSDB	2	Renovation of existing plumbing lines

	Climatic and weather pattern	Decrease the water availability	Local society.			Aforrestation
13	changes	for livelihood and Agriculture	industries,	Common recognized challenge	2	
14	High cost of water	Increase of expenditures on water supply due to increase of tariff by the government authorities	industries obtaining	Not highlighted by stakeholders (Water is relatively cheap in SL)	3	Water conservation awareness Recycling of waste water
15	Water supply system breakdowns	Lack of water availability Insufficient pressure and not meeting the minimum demand to water for essential activities Deterioration of supply water		lot highlighted by stakeholder	3	Work process improvements for NWSDB
16	Poor quality of supply water	Not meeting the desirable level of water for consumption and consumption leading to water borne diseases	Pipe water	Private organizations	2	Reduce pollution of water at the catchment Infrastructure improvements for NWSDB
17	and lack of trust on quality of	Unnecessary and extra steps taken by consumers causing extended environmental impacts	IPINA Water	NWSDB	3	Awareness sessions
18	Unavailability of established water supply systems	Lack of access to secured water supply and clean water	Poor communities	Grama Sewakas	2	Providing house connections to supply water lines
19	Social and cultural establishments leading to substandard living and	Poor hygiene and sanitation	Vulnerable communities , religious	Vissually identified	1	Hygiene and sanitation awareness sessions
20	Inadequate access to toilets and washing facilities	toilet facilities causing direct	-	Malwana Gramasewaka division, Biyagama DS Division	1	Construction of proper standard washroom facilities for vulnerable communities.

21		Fast drop in water levels of catchments during drought	People and industries obtaining water from NWSDB	Community families	2	Restriction of construction and encroachment on marshy land areas and wetlands Awareness sessions Wetland and marshy land protection campaigns
22	Lack of data and studies conducted on catchment water inflows, peak-off-peak availability and water balance	Lack of data driven water Ibalance and quality management	industries	data on the catchment.	2	Conduct research to gather data on the catchment with regards to water balance, sustainability and water quality. Monitor water quality across different points along the catchment.
23		Inconveniences caused to general public and unsafe acts leading to environmental pollution	IVIIIneranie	Not highlighted by stakeholders but when asked many stakeholders mentioned that the available facilities are not well maintained.	3	Proper maintainace of available public washroom facilities Creative poster campaign near the public facilities to influence the people not to damage the facilities and to use them properly.
24	Garbage dumped at beaches	Pollution along the coast, affects tourism which is the main source of income for the coastal	Coastal communities	Community, Malwana Gramasewaka division, Biyagama DS Division	1	Construction of proper standard washroom facilities for vulnerable communities.

Vision	<u> </u>						4
Water for a Better Tomorrow	_ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		((/ I \	
Mission	<u> </u>		((€€) }				■
Drive a robust water stewardship agenda through scaled up partnerships and collaboration of stakeholders Goal	o 8 0	TITI		• •		V	1
e strong water governance at site and support catchment water governance actions	Source of Action	Key Performance Indicators	Target 2024/2025	Measurement and Monitoring Action	Responsible	Status	
Establish & sustain site water governance team with clear responsibilities	Risk Mitigation	The team formed with clear responsibilities	Complete team structure revision in H4 2023 & Q1 2024	Conduct annual review of status updates against responsibilities	ESS&S Manager	Done	
Review, update and assess the regulatory compliance requirements and obligations Activate & Implement the process for potential violation reporting and discloser	Risk Mitigation Risk Mitigation	Min 01 revision/ year Violation reporting withing 48 hrs.	Maintain 100% compliance status in 2023/2024 Zero non reported violations in 2023/2024	Annual regulatory compliance assessment Monthly incident review	Sustainability manager Sustainability manager	Done Done	
Conduct stakeholder meetings to obtain feedbacks and identify challenges	Challenges	Min 03 meetings/year	100% coverage of Managed closely & keep satisfied stakeholders in 2023 & 2024	Annual plan revision based on stakeholder feedbacks	ESS&S Manager	Done	
Review & update water risk and opportunity assessment	Risk Mitigation	Min 01 revision/ year	Complete the risk and opportunity assessment revision in Q3 2023	Annual plan revision	ESS&S Manager	Done	
Develop and review water stewardship strategy, plan and negotiate with stakeholders for plan implementation	Risk mitigation/Opportunity	Min 01 revision/ year	Revised plan cascade and alignment of keep satisfied stakeholders in Q3 2023 Document ERPs and conduct at least 1 drill per year	Annual plan revision	ESS&S Manager	Done Done	
Identify emergency scenarios and develop and emergency response plans & testing	Risk mitigation/Opportunity	Improved knowledge and ERP plan implementation Work together with universities to conduct researches		Annual review and testing of the plan	Sustainability Executive		
Improve catchment water related data availability	Opportunity	at Kelani river	Minimum 2 water related studies done for Kelani rivers	Engagement with university	Sustainability executive/ Kelani university	In Progress	
Conduct joint stakeholder meeting Goal	Risk mitigation/Opportunity	Execute min 01 programme/year	Bring together atleast 8 stakeholders together, identify shared challenges and derive joint actions	Annual programme execution	Sustainability Executive	Not started	
gthening and promoting the efficiency in water use at site and beyond	Source of Action	Key Performance Indicators	Target	Measurement and Monitoring Action	Responsible	Status	
Zone wise water metering and monitoring	Risk mitigation/ Opportunity	35% reduction in water withdrawal by 2025	Run Enercon DMS ti track losses	Daily monitoring and monthly reporting and withdrawal trend mapping Monthly monitoring of recycled water and biannual monitoring of treated waste water	Assistant Manager - Civil Engineering	Continued	
Installation of RO Plant	Risk mitigation	30% recycling of waste water by 2025	Meet 30+% water recycling at Colombo site in 2025	quality.	Assistant Manager - Civil Engineering	Done	
Conducting the leak detection survey at site	Risk mitigation	35% reduction in water withdrawal by 2025	Fixing of identified leakages	Incident based or quarterly survey	Assistant Manager - Civil Engineering	Done	
Purchase ultrasound leak detection device and conduct survey internally	Risk mitigation/ Opportunity	35% reduction in water withdrawal by 2025	Fixing of identified leakages and eliminate leak detection service cost from 3P vendor	Incident based or quarterly survey	Assistant Manager - Civil Engineering	Done -	
Installation of tap mounted aerators to minimize water consumption	Risk mitigation	35% reduction in water withdrawal by 2025	500+ liters water saving in 2024	Monthly monitoring of water withdrawal and withdrawal reduction over time	Assistant Manager - Civil Engineering	Done	
Installation of foot operated taps for kitchen and canteen Expand recycled water pipe network to admin and south road area	Risk mitigation Risk mitigation	35% reduction in water withdrawal by 2025 30% recycling of waste water by 2025	500+ liters water saving in 2024 Meet 30+% water recycling at Colombo site in 2025	Monthly monitoring of water withdrawal and withdrawal reduction over time Network expansion projects completion and recycle water quantity monitoring	Assistant Manager - Civil Engineering Assistant Manager - Civil Engineering	Done Done	
Expand recycled water pipe network to all chillers	Risk mitigation	30% recycling of waste water by 2025	Meet 30+% water recycling at Colombo site in 2025	Network expansion projects completion and recycle water quantity monitoring	Assistant Manager - Civil Engineering	Done	
Installation of ultrasound flow meter to sewage water pipeline	Risk mitigation	Water metering and monitoring improvement	Achieve level 3+ water meriting at Colombo in Q3 2024	Daily monitoring and monthly reporting and withdrawal trend mapping	Assistant Manager - Civil Engineering	Not Started	
Installation of ultrasound flow meter to ETP inlet to obtain accurate readings of treated water Modification of cooling of vacuum plant at SMD by installing of a chilled water line SMD chiller	Risk mitigation	Water metering and monitoring improvement	Achieve level 3+ water meriting at Colombo in Q3 2024	Daily monitoring and monthly reporting and withdrawal trend mapping	Assistant Manager - Civil Engineering	Done	
Monitoring of condensate water recovery from boiler	Risk mitigation Risk mitigation	35% reduction in water withdrawal by 2025 30% recycling of waste water by 2025	1000+ liters of water saved in 2024 Meet 30+% water recycling at Colombo site in 2025	Monthly monitoring of water withdrawal and withdrawal reduction over time Monthly monitoring of water withdrawal and withdrawal reduction over time	Mechanical site services manager Assistant Manager - Civil Engineering	Done Done	
Catchment water balance assessment	Opportunity/Challenges	Assessment completion	Arrive with a water balance expert assessment for catchment	Water balance assessment completion and information sharing with stakeholders	CTC/SLMA	Done	
Afforestation projects carried out in Sri Lanka	Opportunity	Continuation of the project	Completion of new project and continuation of the existing 2 projects	Number of trees planted/ Carbon credit generation	CTC/ Forestry department	In prog/ Cont	
Installation of sensor taps	Opportunity	35% reduction in water withdrawal by 2025	Install sensor taps covering canteen, admin and other washrooms sinks	Daily monitoring and monthly reporting and withdrawal trend mapping	Assistant Manager - Civil Engineering	Done	
Installation of volume control shower heads Installation of industrial taps for kitchen	Opportunity	35% reduction in water withdrawal by 2025	Installation of shower heads for cloakrooms	Daily monitoring and monthly reporting and withdrawal trend mapping	Assistant Manager - Civil Engineering	Done	
	Opportunity	25% raduction in water withdrawal by 2025	Install tans for kitchen	Daily manifesing and monthly congring and withdrawal trend manning	Assistant Manager, Civil Engineering	Dono	
	Opportunity Opportunity	35% reduction in water withdrawal by 2025 Reduce washing frequency to twice a week	Install taps for kitchen 78000+ water saving annually	Daily monitoring and monthly reporting and withdrawal trend mapping Ensure company car washing done only twice a week	Assistant Manager - Civil Engineering Logistics and transport manager	Done Continued	
Reduction of car washing frequency Promotion of water use reduction in households and institutes	Opportunity Opportunity Challenge	35% reduction in water withdrawal by 2025 Reduce washing frequency to twice a week 01 identified cluster/year		Daily monitoring and monthly reporting and withdrawal trend mapping Ensure company car washing done only twice a week Selected household level water usesage monitoring and assessment	Assistant Manager - Civil Engineering Logistics and transport manager CTC/NWSDB/CMC		
Reduction of car washing frequency Promotion of water use reduction in households and institutes Goal	Opportunity Challenge	Reduce washing frequency to twice a week 01 identified cluster/year	78000+ water saving annually Conduct the leaflet based promotional activity in two areas under KMC & NWSDB by End Dec	Ensure company car washing done only twice a week Selected household level water usesage monitoring and assessment	Logistics and transport manager CTC/NWSDB/CMC	Continued Not started	
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