



# Water Stewardship Plan Implementation CTC GLTP

Oct 2023



## VISION

“Water for a Better Tomorrow”



## MISSION

“Drive a robust water stewardship agenda through scaled up partnerships and collaboration of stakeholders”



**GOOD WATER  
GOVERNANCE**



**SUSTAINABLE  
WATER  
BALANCE**



**GOOD WATER  
QUALITY STATUS**



**IMPORTANT  
WATER  
RELATED AREAS**

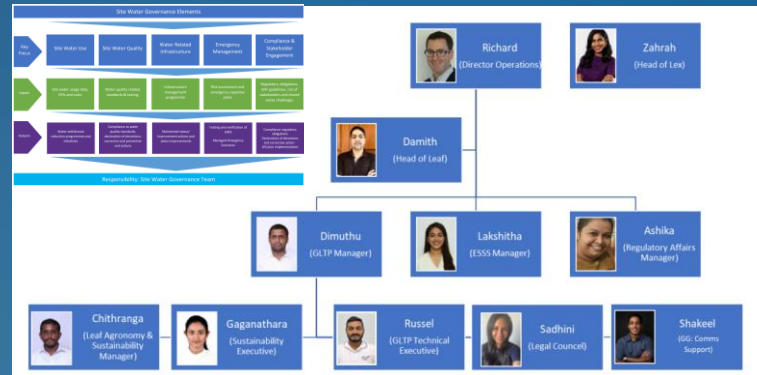


**SAFE WATER,  
SANITATION  
AND HYGIENE  
FOR ALL (WASH)**

# GOOD WATER GOVERNANCE



- Establish site water governance team with clear responsibilities
- Conduct regulatory compliance assessment and noncompliance disclose if any



- Take part in catchment water governance awareness programmes implemented by the stakeholders



Drive strong water governance at site and support catchment water governance actions



Identify emergency scenarios and develop a joint emergency response plans

| Stakeholder  | Name                             | Designation                                  | Contact                 | Signature |
|--|----------------------------------|--|-------------------------|-----------|
| AGC Office   | Ms. Thekshila Damayanthi         | Divisional Secretariat                       | 0702741000              |           |
|  | Mr. Abasinghe                    | Chairman, Divisional Secretariat Office      | 0714443767              |           |
|  | Mr. Priyani                      | Secretary to Chairman                        | 0719772408 / 0718113454 |           |
| National Water Supply and Drainage Board   | Mr. S.U. Ekanegamage             | Manager                                      | 0777812814              |           |
|  | Mr. S.S. Navaratne               | Area Engineer                                | 0716260566              |           |
|  | Mr. Subasingharama               | Engineer-Operations and Maintenance          | 0766101310              |           |
|  | Mr. Asoka Jayawardena            | Chief Chemist                                | 0777176213 / 0713785411 |           |
|  | Mr. Diluka Sri Kumarantha Kumara | Senior Sociologist                           | 0773973979              |           |
| Mahaweli Authority   | Mr. Kalitha Rathnayake           | Chief Officer                                | 0713076142              |           |
|  | Mr. Mahin Dissanayake            | Engineering Assistant                        | 0711946544              |           |
|  | Mr. Abhula Pathikulamara         | Enquiry Director                             | 0745781391              |           |
|  | Mr. Lath Samarasena              | Engineer                                     | 0711488121              |           |
| Central Environmental Authority  | Mr. Usol Dissanayake             | Assistant Engineer                           | 0718281386 / 0760513044 |           |
|  | Mr. Wasala                       | Senior Environmental Officer                 | 0704051422              |           |
| Kandy Municipal Council  | Mr. Mahesh Perera                | Development Officer                          | 0719102111              |           |
|  | Mr. Theashara Jayasinghe         | Engineer- Waterworks                         | 0713102111              |           |
|  | Mr. Dinuka Senewiratne           | Engineer- Wastewater                         | 0713102111              |           |
| Environmental Police   | Mr. Samanthe Amarasekera         | Customer Care                                | 0714091413              |           |
|  | Mr. Jayasinghe                   | Chief Inspector                              | 0714280555              |           |
| Grama Niladri / MOH / Wastewater / Open University- Peggala / Community representative | Mr. Abhula Weerasinghe           | Senior Inspector                             | 073211780               |           |
|  | Mr. K.G.A Weerasinghe            |  |                         |           |
|  | Grama Niladri                    | Grama Niladri                                | 0713781088              |           |
| MOH / Wastewater   | Dr. Indral Perera                | Medical Officer of Health                    | 0718231219 / 0718732687 |           |
|  | Mr. Anushka Bandara              | Assistant Director                           | 0712257670 / 0812194083 |           |
| Community representative   | Mr. Sena Dissanayake             | Opposition leader KMC                        |                         |           |
|  | Mr. Namal Peter                  | Secretary Mahaweli Ganathota Welfare Society |                         |           |

Conduct stakeholder survey to obtain feedbacks



Develop water stewardship strategy, plan and negotiate with stakeholders for plan implementation

# Site Water Governance Initiatives Performance 2022/2023

GOOD WATER  
GOVERNANCE



*Drive strong water  
governance at site  
and support  
catchment water  
governance actions*

Target Status

- 100% compliance to water related regulatory obligations
- Zero violations to regulatory obligations
- 40 stakeholder covered in the initial engagement process
- 20+ challenges identified lined to AWS outcomes
- 02 feedback sessions & 05 one to one meetings conducted with stakeholders

- Site water related risk assessment completed
- 100% manage careful stakeholder covered (8 out of 08) endorsement of WSP
- ERP theoretical training for 22 government officials
- 03 governance programmes completed
- 30 awareness boards erected across the catchment

Benefits

- Ensure CTC GLTP's license to operate
- Eliminate the regulatory and reputational risks
- Stakeholder collaboration to drive a common AWS agenda
- Ability of identifying and prioritizing the critical risks and challenges of the catchment
- Create synergy among the stakeholders

- Stakeholder collaboration to executive Site's wastewater emergency response plan
- Quick response capability enhancement
- Water governance related awareness building across the catchment
- Reduction of catchment pollution





35%  
Withdrawal  
Reduction



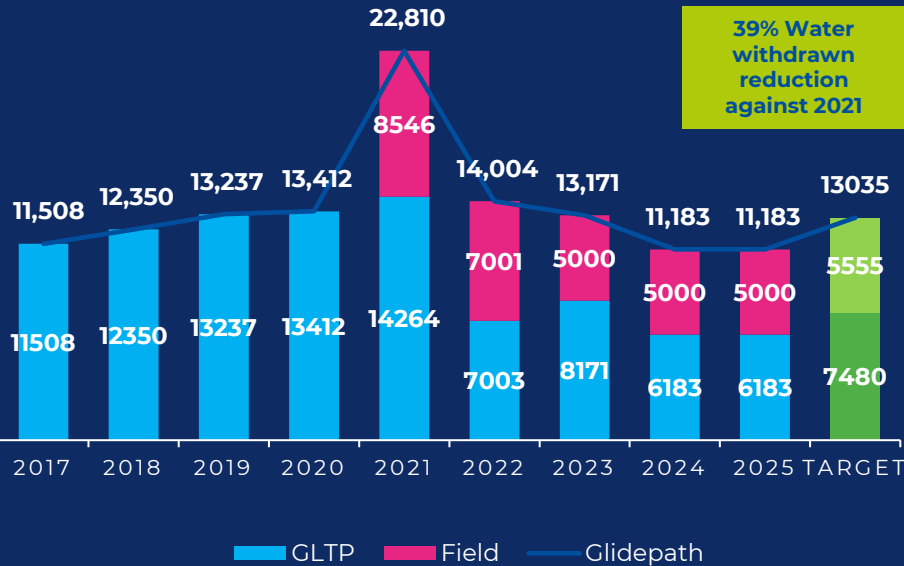
40% Water  
Recycling



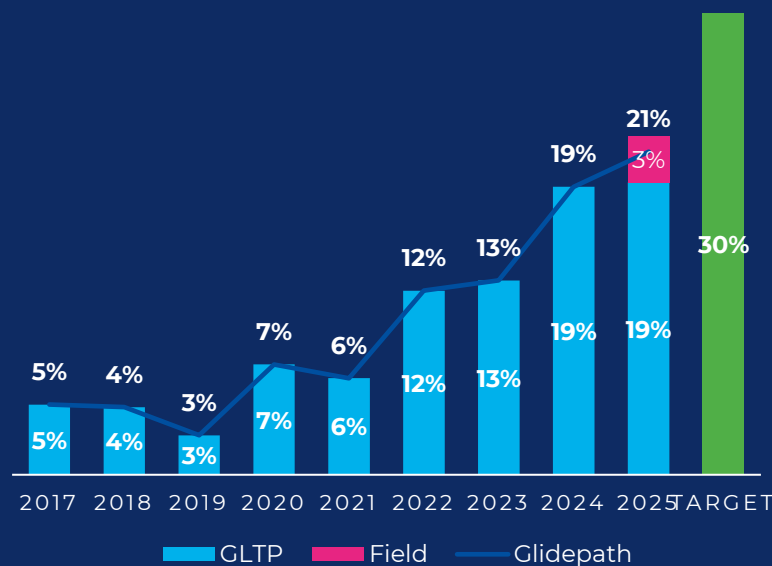
GLTP AWS  
Certification



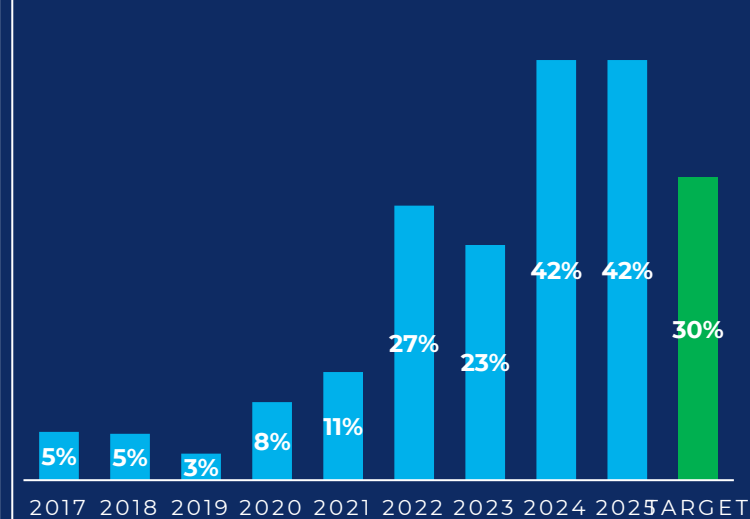
### WATER WITHDRAWN (M3)



### WATER RECYCLE (%)



### WATER RECYCLE GLTP (%)



### Initiatives

#### 2022

- Leak detection and streamline of water distribution network in H2 2021- GLTP
- Phase 2 ETP capacity increase in GLTP
- Water metering and streamline of water distribution network – GLTP & Filed

#### 2023

- Condensate water recovery, Increase water recycling, Water use efficiency improvements -
- Tap mount aerator installation for handwashing area
- Phase 3 ETP capacity increase in GLTP – 670 CUM

#### 2024

- Leak detection survey

#### 2025

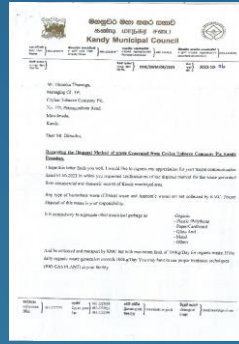
- Mini water recycling plant (1.5 Mn)- One Depot

# GOOD WATER QUALITY STATUS

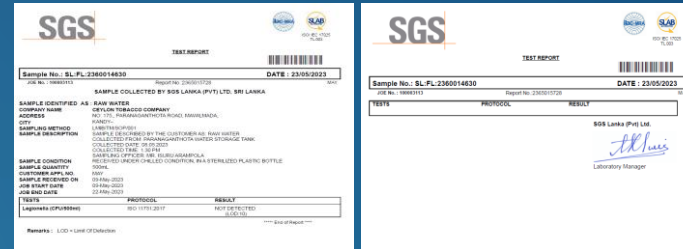


Assurance of water quality and contribution towards catchment water pollution control programmes

## Site solid waste management and minimize waste to landfill

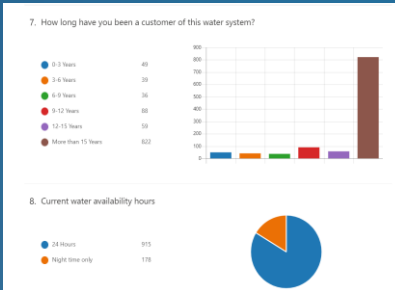


## Carryout site water and wastewater quality testing



| Location  | Parameters  | Frequency |
|---|---|-----------|
| GLTP Inlet  | Physical and organoleptic, Chemical, Microbiological, Toxic substances  | Annually  |
| ETP Inlet   | Physical, Chemical, Microbiological, Pesticide residues   | Quarterly |
| ETP Outlet  | Physical, Chemical, Microbiological, Pesticide residues   | Quarterly |
| Hydrant Sump- GLTP, Hydrant Sump 2- M'wetiya, Water Storage sump, Odour Plant | pH, Total Suspended Solids, BOD, COD, Oil and grease, Total residual chlorine, dissolved phosphates, Fecal Coliform | Monthly   |
|   | Liogonella  | Quarterly |

## Nighttime water intake raw water quality inspection at night



Conduct consumer surveys on quality of pipe water supply  
1063 families covered

Village community awareness and water filter distribution

Water conservation and care for water awareness conducted covering the wider community  
With the support of AGA and NWSDB



## GOOD WATER QUALITY STATUS



*Assurance of water quality and contribution towards catchment water pollution control programmes*

# Good Water Quality Performance 2022/2023

### Target Status

- 1% > waste to land fill status achieved
- The endorsement on good governance of solid waste received from KMC
- Site water quality testing frequency increased beyond obligations
- ETP treated water testing frequency – quarterly vs annual

- 100% compliance BAT and obligatory requirements
- 02 water quality related projects completed with NWSDB
- Online consumer feedback survey platform established to conduct consumer surveys
- 1063 families covered in 1<sup>st</sup> survey and analysis shared with NWSDD

### Benefits

- Contribution to catchment pollution reduction through good solid waste governance
- Catchment pollution reduction through discharge water quality assurance and minimizing the quantity of water discharged
- Reduction of health risk to employees and community

- Assurance of license to operate and elimination of reputational and regulatory risk
- Easy access to water quality information and analysis
- Drinking water quality concerns addressed through preventive actions
- Driving of continuous improvements towards water quality



**IMPORTANT  
WATER  
RELATED  
AREAS**



*Catchment areas and infrastructure maintenance and restoration for sustainable water resources*

➤ **Support the renovation of floating barriers of important locations of the catchment**



➤ **Enable cleaning of important catchment areas through infrastructure provisions**



Re-forestation of degraded areas of the catchment's banks and catchment areas



Spring well reactivation support



Storm water retaining pond rehabilitation & capacity expansion



Natural & sensitive wetland protection

**Planned**

- Rehabilitation of mini water ponds of catchment areas.
- Ground water re-charge study
- Continuation of planned afforestation programmes

**IMPORTANT  
WATER  
RELATED  
AREAS**



*Catchment areas and infrastructure maintenance and restoration for sustainable water resources*

# IWRA Actions and Performance 2022/2023

**Target Status**

- 02 key projects completed with SLMA on river basin protection and maintenance
- 30+ trees planted in 03 degraded land slots of riverbank
- Current status assessment survey of riverbank and water retaining ponds completed
- 10+ potential interventions for IWRA improvements identified

- Two project initiated and ongoing to reactivate sprint water sources – Will be completed by Dec 2023
- One project initiated and ongoing to reactivate spring water ponds in sensitive area of the catchment – Will be completed by Dec 2023

**Benefits**

- Riverbank and water contamination control through frequent cleaning of floating debris
- Eliminate hindrances to economically important power generation related water supply
- Riverbank degradation control and status improvement
- Riverbed capacity maintenance through retaining pond functionality restoration

- Reactivation and protection of the capacity of spring water sources
- Water retaining capacity improvement of important water related areas
- Water sensitive areas degradation privation through improving the forest coverage



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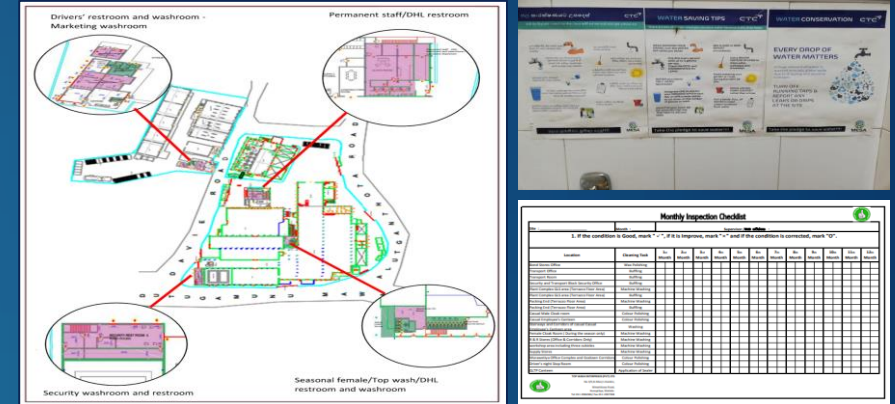


*Achieve safely managed water, sanitation and hygiene for workplace and communities*

➤ **Continual improvement of WASH services at site**



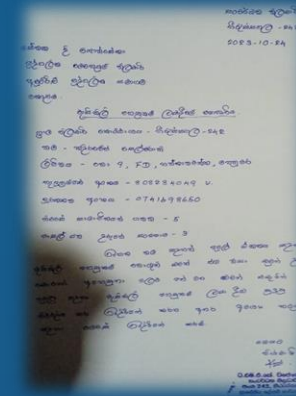
➤ **Systematic maintenance of WASH infrastructure**



Spring well re-activation and water supply connection establishment in selected vulnerable community areas



Provide water supply infrastructure for the vulnerable communities living in highlands with lack of access to pipe water/limited water supply



Uplifting Private units for families



Conduct WASH awareness for women, children and other selected vulnerable communities

**SAFE WATER,  
SANITATION  
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(WASH)**



*Achieve safely managed water, sanitation and hygiene for workplace and communities*

# Good Water Quality Performance 2022/2023

## Target Status

- WASH services are established beyond obligatory standards
- Two new improvements to WASH facilities completed to ensure improved standard for seasonal, contractual and factory staff
- WASH awareness at site completed with 100% coverage of site staff through 03 programmes

- Two WASH awareness programmes completed focusing women and vulnerable communities (56 participants)
- One project completed with NWSDB to assure the water availability of vulnerable communities living in highlands of the catchment
- One project initiated to provide safe access to toilets facility for a 05 members family lives in the catchment

## Benefits

- Employee satisfaction and elimination of complains and regulatory risks
- Improved hygiene conditions at site and better working environment
- Enabled employee support and adherence towards good hygiene starts through awareness and capability building

- Improved WASH awareness among vulnerable communities of the catchment
- Water supply assurance for 25 families located in highlands of catchment area
- Meeting the basic need of the people living in the catchment

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## MISSION

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**GOOD WATER GOVERNANCE**

**07 actions completed**



**SUSTAINABLE WATER BALANCE**

**05 actions Completed**

**04 Ongoing**



**GOOD WATER QUALITY STATUS**

**04 actions completed**

**04 Ongoing**



**IMPORTANT WATER RELATED AREAS**

**05 actions completed**

**02 ongoing**



**SAFE WATER, SANITATION AND HYGIENE FOR ALL (WASH)**

**05 actions Completed**

**02 ongoing**

