

THE UNITED REPUBLIC OF TANZANIA



MINISTRY OF WATER



Dar es Salaam Water Supply & Sanitation Authority

DAWASA Building, Dunga/Malaga Street, Mwananyamala Area

P. O. Box 1573, Dar es Salaam. TANZANIA.

Tel. +25522276006/15; Fax: +255222762480; E-mail: dawasaceo@dawasa.co.tz

Comprehensive Project Brief for the Proposed Public Toilet to be Built at Kampochea Market, Charambe Ward, Temeke Municipality, Dar es Salaam Region

Submitted to:

National Environment Management Council,

Head Office, Kambarage Tower, 6th Floor, P. O. Box 2724, Dodoma.

Phone: +255 262960098, 0713608930,

Email Address: nemcdg@nemc.or.tz

Website: www.nemc.or.tz

Lead Consultant:

Prof. Rubhera RAM Mato (PhD), CEng. (T), Reg. EIA Expert

P. O BOX 35478, Dar es Salaam, Tanzania





Mobile: +255754898592; E-Mail: rubheramato@gmail.com

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THE STUDY TEAM

| NAME | POSITION | NEMC Reg. No. | SIGNATURE |
|-----------------------------|---------------------------------------|---------------------------------------|---|
| Prof. Rubhera RAM Mato | Environmental and ESIA Team Leader | Registered NEMC/EIA/0092 |  |
| Mr. Robert Kishiki | Sociologist | Not Registered |  |
| Mr. Emmanuel Rajab | Environmental Engineer | Registered EC/EE- EIA/2021/0015 |  |
| Mr. Melkizedeck Stephano | Environmentalist | Not Registered |  |

ABBREVIATIONS

| | |
|--------|---|
| AAQ | Ambient Air Quality |
| AIDS | Acquired Immuno-Deficiency Syndrome |
| DAWASA | Dar es Salaam Water Supply and Sanitation Authority |
| EIA | Environmental Impact Assessment |
| EMP | Environmental Management Plan |
| ESIA | Environmental and Social Impact Assessment |
| ESMP | Environmental and Social Monitoring Plan |
| GoT | Government of Tanzania |
| HIV | Human Infection Virus |
| IDA | International Development Association |
| LGA | Local Government Authority |
| NEMC | National Environment Management Council |
| NEP | National Environment Policy |
| OGSP | Off-Grid Sanitation Project |
| PPE | Personal Protective Equipment |
| PVC | Polyvinyl Chloride |
| RAP | Resettlement Action Plan |
| STDS | Sexual Transmitted Diseases |

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EXECUTIVE SUMMARY

Comprehensive Project Brief for the Proposed Public Toilet to be built at Kampochea Market, Rangitatu Mtaa, Charambe ward, Temeke Municipality in Dar es Salaam Region

Proponent: Dar es Salaam Water Supply & Sanitation Authority

Proponent's Contact: DAWASA,
DAWASA Building, Dunga/Malaga Street,
Mwananyamala Area
P. O. Box 1573, Dar es Salaam. TANZANIA.
Tel. +25522276006/15; Fax: +255222762480;
E-mail: dawasaceo@dawasa.co.tz

EIA Expert: Prof. Rubhera RAM Mato (PhD), CEng. (T), Reg. EIA Expert
P. O BOX 35478, Dar es Salaam, Tanzania
Mobile: +255754898592
E-Mail: rubheramato@gmail.com

INTRODUCTION

The Government of the United Republic of Tanzania (GoT) through the Dar es Salaam Water and Sewerage Authority (DAWASA) under the Ministry of Water intends to implement an Off Grid Sanitation Project (OGSP) in Dar es Salaam City to serve peri-urban areas not connected to the central sewerage system. DAWASA has received financing from the International Development Association (IDA) in the form of a credit to implement the project. Prior to implementing the project, the law in Tanzania requires an Environmental Impact Assessment to be conducted and approved by relevant authority. In order to comply with the law in Tanzania, the DAWASA intends to apply a portion of the proceeds of the credit to eligible payments for consulting services for Preparation of Environmental and Social Impact Assessment (ESIA) and Resettlement Action Plan (RAP) Report for construction of off grid sanitation projects.

The Off-Grid project is intended to address these challenges. The Off-Grid project is divided into several subprojects which will be implemented in the five

municipalities of Dar es Salaam City. One of these is the Construction of a Public Toilet at Kampochea Market, Temeke Municipality. The toilet will mostly serve the people who are using market for business (Traders and their customers), food vendors (Mamantilie) and passersby.

The proposed project concerns construction of an engineered sanitary depository for sewage (night soil) for public use at Kampochea Market, Rangitatu Mtaa, Charambe ward, Temeke Municipality. The nature of the project enhances environmental protection through proper handling and disposal of domestic sewage. According to First Schedule of the EIA and Audit Regulations (Amended) of 2018, the nature of the project is small and entails no significant impacts. The project can be categorised as Type B2, which according to the regulations are “small-scale activities and enterprises that require registration but shall not require Environmental Impact Assessment. Further, the projects shall not require screening and scoping, rather, the Project Brief shall be examined and issued with an Environmental Impact Assessment Certificate”.

POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

Tanzania is committed to attaining sustainable development goals. This urge is envisaged in the National Environmental Policy and other sectoral policies including;

- National Environment Policy, 2021
- National Land Policy of 1997
- Construction Industry Policy (2003)
- National Health Policy (2003)
- National Gender Policy of 2000
- National Human Settlements Development Policy (2000)

Important laws and regulations that have relevance to road development in respect of environmental management include;

- Environmental Management Act (2004)
- The Environmental Management (Fees and Charges) Regulations, 2021
- The Environmental Management (Control of hazardous Waste) regulations, 2021
- The Environmental Management (Control of Noise and vibration) regulations, 2015
- The Environmental Management (Prohibition of Plastic Carrier bags) regulations, 2019
- The Environmental Management (Solid Waste Management) regulations, 2007
- The Environmental Management (Water Quality) regulations, 2009
- The Environmental Management (Air Quality) regulations, 2009
- The Environmental Management (Soil Quality) regulations, 2009
- Occupational Health and Safety Act 2003
- The Water Supply and Sanitation Act No. 12 of 2009
- Engineers Registration Act and its Amendments 1997 and 2007
- The Contractors Registration (Amendment) Act, 2008
- The Architects and Quantity Surveyors Act (1997)
- The Urban Planning Act (2007)
- Public Health Act (2009)
- World Bank guidelines for Environmental Management

PROJECT DESCRIPTION

The main land use at the proposed project site include; warehouses, fenced private plots, existing public toilet, Food vendors and access road to the existing toilet.

The major construction activities for the sub-projects include;

- **Site Clearance:** The contractor shall clear the construction areas within the site of all boulders, natural obstructions, rubbish and any other natural or artificial obstructions, which would interfere with construction of buildings, roads, paths and drains.

- Excavation: Excavations for foundations and the reinforced concrete structure shall be to the widths, depth and levels to accommodate the structure shown on the drawings. Working space has been allowed for in the measurement of excavation quantities given in these Bills of Quantities in accordance with the rules of measurement laid down elsewhere in these Bills, namely 1.00 metre from the face of any work which requires formwork over 1m deep below the starting level of excavation, and 0.30 metre from face of any work which requires formwork not exceeding 1-metre-deep below starting level of excavation.
- Filling: The fill shall be clean, selected coarse sand or gravel. It should be taken from borrow pits if the soil on the site is found to contain too much fines and to have too low plasticity limit to be used as fill.
- Soil Sterilization: Anti-termite treatment is to be carried out by an approved specialist firm who will be required, upon completion of the soil sterilization, to furnish a written qualifying guarantee which includes; the chemicals applied comply with the requirements and concentration, the treatment will remain effective against termite infestation for a period of five years as well as free re-treatment by the firm of any areas showing signs of infestation before the expiry of the five-year period.
- Disposal of surplus excavated material: Surplus excavated material will be carted away from the vicinity of the walls and deposited, spread and levelled on areas to be allocated by the Structural Engineer, reasonably adjacent to the site.
- Concrete work:
- Steel fixing and Formwork preparation:

PROJECT ENVIRONMENT

Project site

The project site is located at Rangitatu Mtaa, Charambe ward, Temeke Municipal within Dar es Salaam Region. The site is 14 Kilometers from Dar es Salaam city centre via Kilwa road.

The site area lies in the tropical coastal bely of Tanzania and is influenced by two major climatic seasons, namely rainfall and temperature. Rainfall pattern is that of bimodal type with erratic conventional rains. The monsoon rains occurring almost throughout the Municipality between December and February, While the long heavy rains in the period from March to June, the amount of rainfall received ranges from 800-1200mm per annum. Temperature just like rainfall is also influenced by ocean. High temperature prevails throughout the year ranging from 25^oC during the period of June to August up to 35^oC in the period of January to March.

Water sources

Groundwater is abundant in almost the entire Dar es salaam City. This is evidenced by the fact that shallow wells are one of the sources of domestic water supply for most of the households around the project site and therefore the water table is high.

Air quality and Noise level

The air quality observations indicate that the general air quality in the project area is good as there is no any strange activity contributing to air pollution. However, seasonal variation as well as localized and temporal deterioration in air quality does occur.

On the other hand, noise level at the project area is mainly due to moving vehicle along the road, moving air (wind) or rain and birds. Project activities during construction will change patterns and amplitude of noise in the project area.

Vegetation

The proposed project site is characterized with a few artificial vegetation including senna seamea and some few neem plants at the vicinity of the project site.

PROJECT STAKEHOLDERS AND INVOLVEMENT

A simple methodology was adopted to identify key stakeholders and main environmental and social concerns. This involved physical observations and consultations (direct consultations). Other information on the project was obtained through a desk study.

During the conduction of this study, different stakeholders were consulted. Among these include the Temeke Municipal Council and community at Kampochea market. During the meeting, the consultant gave a brief explanation on the proposed public toilet.

POTENTIAL SIGNIFICANT ENVIRONMENTAL AND SOCIAL IMPACTS

The impacts are categorized into Mobilization phase impacts, Construction phase impacts, and Operational phase impacts. The main receptors of impacts associated with the anticipated Construction of a Public Toilet at Kampochea Market, Charambe ward in Temeke Municipality include physical resources (groundwater quality, soils, air quality, and noise); ecological resources (vegetation); material assets, public health, and safety, aesthetics, and landscape. The following impacts were identified to be likely to occur during Mobilization Phase

- Employment opportunities
- Noise pollution
- Air Pollution from dust emission

The following impacts were identified to be likely to occur during Construction Phase

- Employment opportunities
- Improved living conditions and economic growth
- Improved public health

- Increased socio-cultural interaction
- Increased Revenue to the nation through taxes, both direct and indirect
- Increased HIV/AIDS and other sexual related diseases:
- Destruction and infringement of properties
- Noise pollution
- Air Pollution from dust emission
- Potential communicable diseases transmission
- Smells and flies in toilets
- High Risk of Health associated with construction work
- Waste generation during construction
- Groundwater contamination from soil sterilization

The following impacts were identified to be likely to occur during Operation Phase

- Improved social-economic livelihood and dignity within the beneficiary society
- Increased Revenue to the nation through taxes, both direct and indirect
- Smells and flies in toilets

PREVENTION AND MANAGEMENT OF ACCIDENTS DURING IMPLEMENTATION STAGE

The project shall be implemented in compliance to labour laws in Tanzania, in particular, the Occupational Health and Safety Act (2003). Clauses to protect the health and safety of workers shall be included in the contract documents for implementation stage which includes the following; provision and enforcement of the use of appropriate personal protective equipment for all workers e.g. overalls, gloves, masks, etc. (wherever required), presence of the emergency preparedness plan in place prior to commencement of construction activities as well as ensuring security matter of the site by fencing the whole project area and provide gates for entrance and exit purpose.

MITIGATION MEASURES AND ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

The options to minimize or prevent the identified adverse social and environmental impacts as well as a monitoring plan have been suggested in this report and are contained in the ESMP. Many of them are based on good engineering practices and the timely responsiveness of the responsible institution. The ESMP describes the implementation schedule of the proposed mitigation measures as well as planning for long-term monitoring activities. It defines the roles and responsibilities of different actors of the plan. The Approach environmental and social costs amount to TSH 10,000,000 (Excluding the costs that will appear in then (BOQ) and resettlement exercise. The estimated annual costs for carrying out the proposed environmental and social motoring program amounts to TSH 24,000,000.

CONCLUSION

It is, therefore, concluded that implementation of the proposed construction of Public toilets Kampochea market, Rangitatu Mtaa, Charambe ward in Temeke Municipality will entail no detrimental impacts provided that the recommended mitigation measures are adequately and timely put in place. The identified adverse impacts shall be managed through the proposed mitigation measures and implementation regime laid down in this EIS. DAWASA is committed to implementing all the recommendations given in the EIS and further carrying out the environmental auditing and monitoring schedules.

Comprehensive project brief for The Proposed Public Toilet to be built at Built at Kampochea Market, Charambe ward, Temeke Municipality in Dar es Salaam Region

1.0 BACKGROUND AND JUSTIFICATION

The Government of the United Republic of Tanzania (GoT) through the Dar es Salaam Water and Sewerage Authority (DAWASA) under the Ministry of Water intends to implement an Off Grid Sanitation Project (OGSP) in Dar es Salaam City to serve peri-urban areas not connected to the central sewerage system. DAWASA has received financing from the International Development Association (IDA) in the form of a credit to implement the project. Prior to implementing the project, the law in Tanzania requires an Environmental Impact Assessment to be conducted and approved by relevant authority. In order to comply with the law in Tanzania, the DAWASA intends to apply a portion of the proceeds of the credit to eligible payments for consulting services for Preparation of Environmental and Social Impact Assessment (ESIA) and Resettlement Action Plan (RAP) Report for construction of off grid sanitation projects.

Dar es Salaam is the largest and most important commercial and industrial centre in Tanzania. The city has an estimated population of about 5.0 million and is projected to double at the end of the project horizon of 25 years (ToR). About 10% of the population is served by sewers and the rest almost depend on on-site sanitation systems. The sewer coverage is only limited to the area within city centre with a total length of 67.8km and the system is based on a separate system and discharge their effluent into oxidation ponds, and into the sea through sea outfall of about 1.03km long. The onsite sanitation systems result into Faecal sludge of which handling and management throughout the sanitation chain (from domestic containment, transportation as well as disposal and treatment) is currently hygienically inadequate thus posing environmental and public health risks. The Off Grid project is intended to address these challenges. The Off Grid project is divided into several subprojects which will

be implemented in the five municipalities of Dar es Salaam City. One of these is the Construction of a Public Toilet at Kampochea Market in Charambe Ward, Temeke Municipality. The toilet will mostly serve the people using the Kampochea market (traders and their customers).

The ESIA study was conducted in accordance with the Environmental Management (Environmental Impact Assessment and Audit) (Amendment) Regulations, 2018 along with the Environmental Impact Assessment and Audit Regulations of 2005. These Regulations provide legal procedures for implementing the requirements of the the Environmental Management Act Cap.191 of 2004. The Regulations give mandate to NEMC to oversee the EIA process, which culminates with an award of the EIA Certificate by the Ministry responsible for Environment.

In accordance with the EIA Regulations, NEMC is mandated to screen projects and make decisions of level of EIA required as well as evaluating the adequacy of respective environmental statements. Considering the nature and size of the proposed “Public Toilet Project in Temeke Municipality”, the project falls under Category “B2” (Non-Mandatory) in accordance with Reg.4(1)(c) and First Schedule of the amended 2018 Regulations. The regulations require developers to prepare and submit to the National Management Council (NEMC) filled EIA registration forms and “Project Briefs” for all B2 projects. The preparation and content of the “Project Briefs” is provided under Regulation 6(1) of Environmental Impact Assessment and Audit Regulations, 2005. The same has been followed in preparing this “Project Brief”. The ESIA study was conducted was conducted in June-August 2020.

This project brief for the Proposed Construction of Public Toilet in Temeke Municipality is being submitted to NEMC together with EIA Registration Forms for EIA Certificate decision.

1.2 NATURE OF THE PROJECT

The proposed project concerns construction of an engineered sanitary depository for sewage (night soil) for public use at Kampochea Market, Rangitatu Mtaa, Charambe ward, Temeke Municipality. The nature of the project enhances environmental protection through proper handling and disposal of domestic sewage. According to First Schedule of the EIA and Audit Regulations (Amended) of 2018, the nature of the project is small and entails no significant impacts. The project can be categorised as Type B2, which according to the regulations are “small-scale activities and enterprises that require registration but shall not require Environmental Impact Assessment. Further, the projects shall not require screening and scoping, rather, the Project Brief shall be examined and issued with an Environmental Impact Assessment Certificate”.

2.0 PROJECT DESCRIPTION

2.1 Project Location

The project site is located at Rangitatu Mtaa, Charambe ward, Temeke Municipal within Dar es Salaam Region. The project site is geographically located at 37S UTM zone with coordinates in Table 1. The site is 14 Kilometers from Dar es Salaam city centre via Kilwa road. (Refer Figure 1, and Figure 2).

Table 1: The coordinates of the project area

| S/n | Coordinates | |
|------------|--------------------|-----------------|
| | Easting | Northing |
| 1 | 529678 | 9235083 |

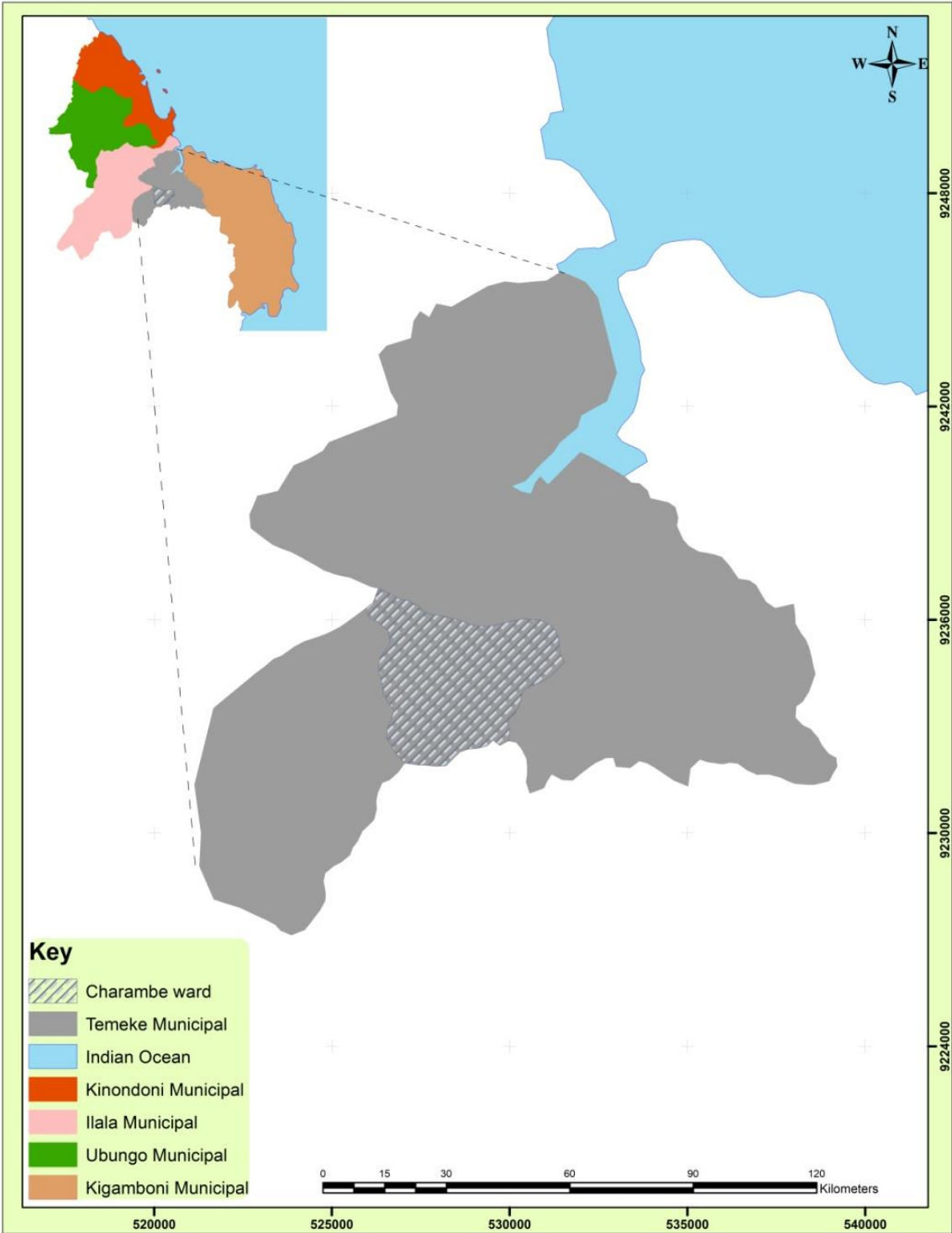


Figure 1: A Map of Dar es salaam region showing the project Municipal

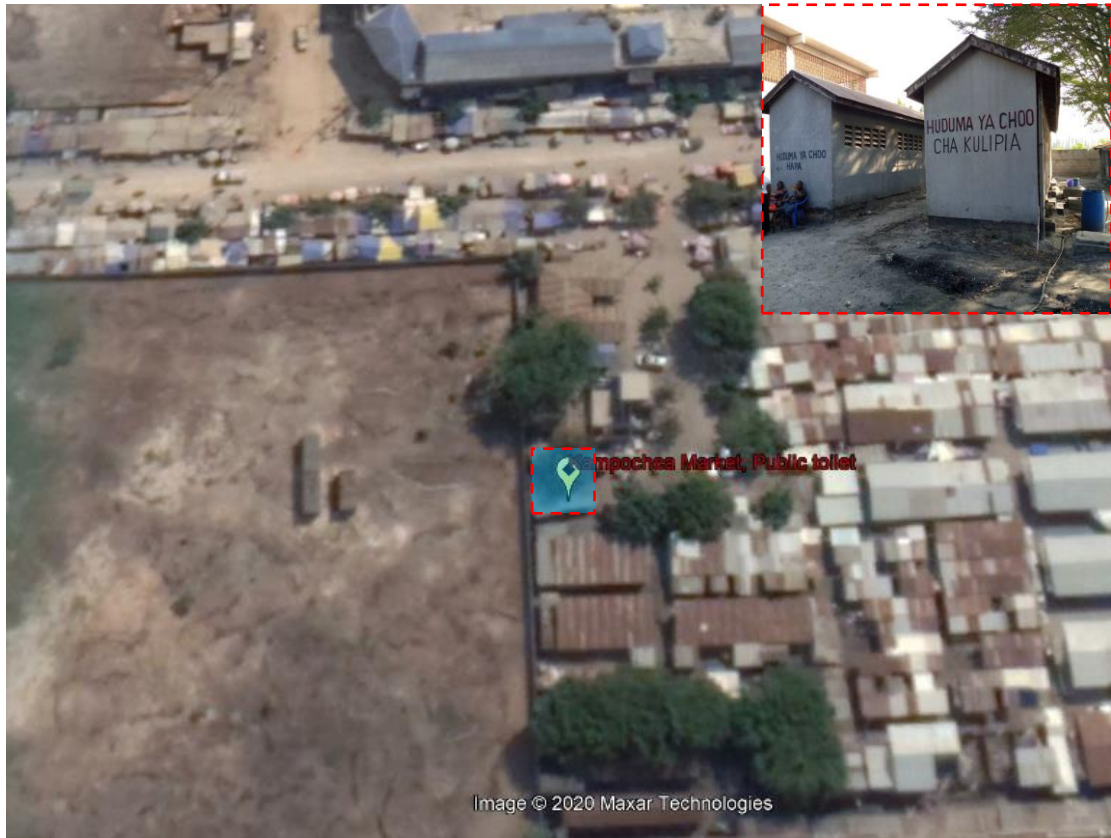


Figure 2: An Extract Google view to show the Location of the project area

2.2 Accessibility

The project area is accessible from the city center via Kilwa road 14Km, and it is about 0.3km from Kilwa road at the right-hand side as one move from City Center to Mbagala at Rangitatu bus stop.

2.3 Specific Features

There is some vegetation close to the proposed project site which includes Neem plant (2 in number). Most of the structures within the project site are; an existing privately owned and operated public toilet and wastewater collection chamber (Figure 3). The project site is located at the Market place which is adjacent to the fenced plots.



Figure 3: Some of the structures at the project site

2.4 Adjacent Land Use

The main land use at the proposed project site includes; warehouses, fenced private plots, small business structures, and access road for tank emptiers to reach the existing public toilet for desludging, figure 4.



Figure 4: Access Road and business structures around the project site

2.5 Baseline information

2.5.1 Water Table and water quality analysis

Groundwater is abundant in almost the entire Dar es salaam City. This is evidenced by the fact that shallow wells are one of the sources of domestic

water supply for most of the households around the project site and therefore the water table is high which is about 6m. Rises in groundwater level, can cause reductions in strength of the soil that can lead to failures of slopes. In regions of significant slope instability, significant damage to buildings can occur as a result of landslides. Lowering of the groundwater table can cause the soil to consolidate, which induces settlement.

2.5.2 Air quality

The air quality observations indicate that the general air quality in the project area is good as there is no any strange activity contributing to air pollution. However, seasonal variation as well as localized and temporal deterioration in air quality does occur. Smokes and greenhouse gases such as carbon dioxide, carbon monoxide is expected to be emitted from moving vehicles due to the burning of fossil fuels which passes at Kilwa road which and other street roads closer to the project area. During construction phase, air quality of the area will be impacted and the proponent will be advised to use good quality material transportation vehicles.

2.5.3 Noise levels

The noise level at the project area is mainly due to moving vehicle along the road, moving air (wind) or rain and birds. Project activities during construction will change patterns and amplitude of noise in the project area. Operations of construction machines may cause adverse impacts on local residents, and on workers. The proponent has to ensure proper provision of ear mask to the workers and all works have to be executing during the day time.

2.5.4 Climate

Charambe ward in Temeke Municipality of Dar es Salaam Region in which the proposed site is located is close to the warm Indian Ocean. Temeke Municipality lies in the tropical coastal bely of Tanzania and is influenced by two major climatic seasons, namely rainfall and temperature. Rainfall pattern is that of bimodal type with erratic conventional rains. The monsoon rains occurring almost throughout the Municipality between December and February, While the long heavy rains in the period from March to June, The amount of

rainfall received ranges from 800-1200mm per annum. Temperature just like rainfall is also influenced by ocean. High temperature prevails throughout the year ranging from 25⁰C during the period of June to August up to 35⁰C in the period of January to March (MSN Weather, 2009). Implementation of Public toilet project will not be affected by the climate in Charambe area because the structure has been designed in accordance to the climate of the proposed site, that means the indoor climate of the established facility will not hamper the its usage.

3.0 POLICIES, LEGISLATION AND INSTITUTIONAL ASPECT

According to the fundamental principles of environment, any developmental activities of this nature such as construction of Public Toilet would have socio-economic and somehow environmental impacts that must be addressed and governed in order to serve public interest and sustainable development. Given the many existing and developing environmental laws, regulations and standards in Tanzania, it is worth considering resorting to constitutional provisions to protect and manage the environment. With increasing environmental awareness in recent decades, the environment has become a higher political priority and many constitutions now expressly guarantee a 'right to a healthy environment', as well as the procedural rights necessary to implement and enforce the substantive rights granted. The public or national interest in this aspect is addressed through government Policies and regulated by Principal Acts and Regulations. The implementation of the proposed project shall touch various sectors; therefore, the developer has to comply with number of cross-sectorial policies and legislations relevant to this project. Also, the listed institutions involved in environmental management for the project is included in this chapter.

3.1 RELEVANT POLICIES

This section focuses on various policies which guide the development aspects for sustainable vision, apart from the national environmental policy, there are numbers of sector policies that are to be reviewed when executing the proposed development and these include;

3.1.1 National Environment Policy 2021

The National Environmental Policy of 2021 has just been launched in February 2021. The new policy formulation is a revision of the National Environmental Policy of 1997. The Policy serves as a national framework for planning and sustainable management of the environment in a coordinated, holistic and adaptive approach taking into consideration the prevailing and emerging environmental challenges as well as national and international development issues. Effective implementation of this policy requires mainstreaming of environmental issues at all levels, strengthening institutional governance, and public participation in environmental management regimes. The long-term vision of this policy is geared towards the realization of environmental integrity, assurance of food security, poverty alleviation, and increased contribution of the environmental resources to the national economy. It also recommends strong institutional and governance measures to support the achievement of the desired objectives and goals.

The policy seeks to promote the economy and livelihoods of people while promoting sustainable utilization of natural resources in the country. The policy provides the framework for the formulation of plans, programmes, and guidelines for the achievement of sustainable development.

The policy overall objective is to provide a national framework for guiding harmonized and coordinated environmental management for the improvement of the welfare of present and future generations. The specific objectives are i) to strengthen coordination of environmental management in sectors at all levels; ii) to enhance environmentally sound management of land resources for socioeconomic development; iii) to promote environmental management of water sources; iv) to strengthen conservation of wildlife habitats and biodiversity; v) to enhance conservation of forest ecosystems for sustainable provision of environmental goods and services; vi) to manage pollution for the safe and healthy environment; vii) to strengthen the national capacity for addressing climate change impacts; viii) to enhance conservation of aquatic system for the sustained natural ecosystem; ix) to ensure safety at all levels of

application of modern biotechnology; x) to promote gender consideration in environmental management; xi) to promote good governance in environmental management at all levels; and xii) to ensure predictable, accessible, adequate and sustainable financial resources for environmental management.

3.1.2 National Land Policy of 1997

The National Land Policy states that “the overall aim of a National Land Policy is to promote and ensure a secure land tenure system, to encourage the optimal use of land resources, and to facilitate broad-based social and economic development without upsetting or endangering the ecological balance of the environment”. This study partly responds to this requirement.

3.1.3 Construction Industry Policy (2003)

Among the major objectives of the policy, which supports a sustainable building development sector, include the promotion and application of cost effective and innovative technologies and practices to support socio-economic development activities such as sanitation, water supply, buildings, road-works, shelter delivery and income generating activities and to ensure application of practices, technologies and products which are not harmful to either the environment or human health. Proposed project is in-line with this policy as ultra-modern technology is used during construction and its operation.

3.1.4 National Health Policy (2003)

The Health Policy is a vital guide towards health development of any country. It is particularly, important in a country like ours where resources and technology are more limited than in other countries, which are relatively better off in both technology and resources. This Policy is a revision of the 1990 Health Policy, which emphasized on the need for increasing community involvement in health development and improved access and equity in health and health services.

The Policy recognizes the challenges of consolidating the principles of the previous health policy in community involvement, improved health services provision, access and equity while addressing the different dimensions of reforms that are taking place in the Public Sector.

The proposed project will adhere to policy requirements to ensure no transmission of such communicable diseases between construction workers and the community, protect workers from all sorts of health risks and hazards; and provide adequate sanitation services within the project and ensure that its activities are not a source of health issues.

3.1.5 National Gender Policy of 2000

The overall objective of the Gender and Development Policy is to promote gender equality and equal participation of men and women through facilitation of access to education, child care, and employment and decision making. Also this policy is to provide guidelines that will ensure that gender-sensitive plans and strategies are developed in all sectors and institutions. While the policy aims at establishing strategies to eradicate poverty, it emphasizes gender quality and equal opportunity of both men and women to participate in development undertakings and to value the role played by each member of society. The proposed project will adhere the requirements addressed under this policy.

3.1.6 National Human Settlements Development Policy (2000)

Among the objectives of this policy is to improve the level of the provision of infrastructure and social services for the development of sustainable human settlements and to make serviced land available for shelter to all sections of the community. Such infrastructure and services constitute the backbone of urban/rural economic activities. Public Toilet is one among of the important infrastructure for Kampochea market, Charambe ward community and country at large

3.2 PRINCIPAL LEGISLATIONS AND REGULATIONS

The ESIA team reviewed several legislations relevant to the construction of public toilets. These encompass Principal Acts that support and provide guidelines to implement the intended project as discussed below.

3.2.1 Environmental Management Act (2004)

Among the major purposes of the EMA are to provide the legal and institutional framework for sustainable management of the environment in Tanzania; to outline principles for management, impact and risk assessment, the prevention and control of pollution, waste management, environmental quality standards, public participation, compliance, and enforcement; to provide the basis for the implementation of international instruments on the environment; to provide for the implementation of the National Environmental Policy; to provide for the establishment of the National Environmental Fund and to provide for other related matters.

Part III, Section 15(a) states that "*in matters about the environment, the Director of Environment shall coordinate various environment management activities being undertaken by other agencies to promote the integration of environmental considerations into development policies, plans, programs, strategies projects and undertake strategic environmental assessments to ensure the proper management and rational utilization of environmental resources on a sustainable basis for the improvement of the quality of human life in Tanzania*".

Part X of the law deals with Environmental Quality Standards. Section 140 of this act states that "*The National Environmental Standards Committee of the Tanzania Bureau of Standards established under the Tanzania Bureau of Standards Act, 1975 shall develop, review and submit to the Minister proposal for environmental standards and criteria concerning; water quality; discharge of effluent into the water; air quality; control of noise and vibration pollution; sub-sonic vibrations; soil quality, control of noxious smells; light pollution; and any other environmental quality standard*" Some of these standards have already been published in the government *gazette* while others are not in place. This project shall consider all the standards specified by this act.

3.2.2 The Environmental Management (Fees and Charges) Regulations, 2021

These Regulations shall apply in relation to an act or service in respect of which fees and charges are payable under the Act and Regulations made thereunder. The regulations emphasize that “a person shall not, upon payment of fees and charges prescribed in the Schedule to these Regulations, carry on any of the following”:

- Environmental Impact Assessment;
- Environmental Compliance Monitoring and Audit;
- Registration of Environmental Experts;
- Environmental Quality Standards;
- Noise and Vibrations; or
- other activities related to the environment

This project complies with the regulations since the proponent has already paid registration fees and review charges as directed by NEMC.

3.2.3 The Environmental Management (Control of hazardous Waste) regulations, 2021

The objective of these regulations is to protect the environment and human health by preventing or reducing the generation of Hazardous waste, the adverse impacts of the generation and management of hazardous waste and by reducing overall impacts of resource use and improving the efficiency of such use, which are crucial for the transition to a circular economy. The regulation requires that “any person generating, collecting, storing, transporting, treating, recycling, reusing, recovering and disposing of hazardous waste or any person exercising jurisdiction under these Regulations shall, assure that there are no adverse impacts to be generated or caused by the activity conducted. Project developer will comply with the requirements of this regulation by reducing the construction materials which may generate hazardous impacts, as well as proper handling of such waste such as in use of fuels for various purposes etc.

3.2.4 The Environmental Management (Control of Noise and vibration) regulations, 2015

The regulations focus on the maintenance of a healthy environment for all the people in Mainland Tanzania, the tranquility of their surrounding and their psychological well-being by regulating noise and vibration levels to prescribe the maximum permissible noise and vibration levels from a facility or activity to which a person may be exposed. The project developer will make sure that all the guidelines under this policy will be considered to ensure the healthy environment to everyone.

3.2.5 The Environmental Management (Prohibition of Plastic Carrier bags) regulations, 2019

Regulations are meant to impose a total ban on the import, export, manufacturing, sale, and use of plastic carrier bags regardless of their thickness. Plastic carrier bags has a wide definition in the Regulations, as a bag made of plastic film, with or without handles, or gussets and to which its layer is in any thickness. The Regulations also categorically state that no person shall sell or offer for sale beverages or other commodities wrapped in plastics unless the nature of such commodities require wrappings by plastics, and restricts any licensing authority from issuing any licenses after the Regulations come into force. Project developer will make sure that there will be no use of plastic bags within the project site and the whole project life time, also in case of the need of carrier bags the proponent will make sure that there will be a n alternative bags which are allowed by the regulations. For the commodities that are wrapped in plastic, then the proponent will make sure that such plastic will be handled properly.

3.2.6 The Environmental Management (Solid Waste Management) regulations, 2007

The solid waste management regulation of 2007, provides general directive on management of solid waste as follows: -

Regulation detail the requirements and responsibilities for managing solid waste in Tanzania

Highlight waste minimization and cleaner production principles alongside the duty to safeguard the public health and the environment from adverse effects of solid waste. Detail permitting requirements, notably that any person dealing with solid waste as collector, transporter, waste depositor or manager of a transfer station will apply to the LGA for a permit. The local authority will also issue licenses to individuals or companies qualified to operate solid waste disposal sites; permit is required to operate an LGA waste disposal site. The proposed project is expected to generate solid waste in construction phase. Therefore, to comply with this regulation the Project developer will engage the registered solid waste collection contractor.

3.2.7 The Environmental Management (Water Quality) regulations, 2009

Regulations provide for institutional and legal framework for sustainable management and development of water resources; to outline principles for water resources management; to provide for the prevention and control of water pollution; to provide for participation of stakeholders and the general public in implementation of the National Water Policy. These regulations require the sustainable management of water sources and proper use of the available sources without causing any damage towards such sources. Also, the regulations emphasize that it is every one's responsibility to conserve and preserve the available water sources in Tanzania. During all phases of the project there will be water demand, hence the project developer will make sure that there will be a sustainable use of water. Also during construction and maintenance phase the developer will make sure that the water supply pipes will not be damaged in either ways

3.2.8 The Environmental Management (Air Quality) regulations, 2009

The Regulations were formed in order to: -

- Prohibit emissions and releases of hazardous substances into the environment
- Prescribe permissible emission limits and quantities of emissions of sulphur oxide, carbon monoxide, black smoke and suspended particulate matters, nitrogen oxide, ozone, hydrocarbons, dust and lead

- Empower NEMC to issue air pollutant emission permits, enforce compliance, undertake emergency prevention and issue stop orders
- Set baseline parameters on air quality and emissions based on a number of practical considerations and acceptable limits and ensure protection of human health and the environment from various sources of pollution.

The proposed project will adhere the requirements of this Act, emission limits will be monitored to the permissible limits.

3.2.9 The Environmental Management (Soil Quality) regulations, 2009

These Regulations, made by the Minister of State under sections 143, 144 and 230 of the Environmental Management Act, concern soil pollution and soil quality standards and provide with respect to a soil protection permit and compliance system. They also concern measures of enforcement. The object of these Regulations is to

- Set limits for soil contaminants in agriculture and habitat;
- Enforce minimum soil quality standards prescribed by the National Environmental Standards Committee.

Also, the regulations require that, the contaminants of volatile organic compounds in habitat and agricultural soils shall comply with parameters and upper limits as prescribed and contaminants of heavy metals in habitat; agricultural soils shall comply with parameters and upper limits as prescribed and contaminants of pesticides in habitat and agricultural soils shall comply with parameters and upper limits as prescribed. Local government authority may prescribe special or specific measures and guidelines for soil conservation applicable to their respective areas of jurisdictions which are not below standards prescribed under these Regulations. The Project developer will comply with the requirements made under these regulations.

3.2.10 Occupational Health and Safety Act 2003

The provisions of this law require employers to provide decent working environment to employees to guarantee their health and safety. Occupational health and safety services are important for sustainable development of a

country, as they reduce occupational accidents and diseases which can have huge economic burden to individuals, enterprises and the nation as whole. Improving health and safety of workers will significantly increase productivity at the workplaces to encourage more investments, increase job creation, higher morale, and job satisfaction hence industrial harmony. The law also entails employers to fulfil obligations of ensuring safety of the equipment's used by workers and providing proper safety gears as required.

3.2.11 The Water Supply and Sanitation Act No. 12 of 2009

This is also a new legislation that provides for sustainable management and adequate operation and transparent regulation of water supply and sanitation services; provides for establishment of water supply and sanitation authorities as well as community owned water supply organizations; and provides for appointment for service providers. The main aim of this law is to ensure the right of every Tanzanian to have access to efficient, effective and sustainable water supply and sanitation services for all purposes by taking into account among others protection and conservation of water resources and development and promotion of public health and sanitation; and protection of the interest of customers. Under this law, the Minister responsible for water affairs shall establish water authority and cluster water authorities in order to achieve commercial viabilities.

3.12 Engineers Registration Act and its Amendments 1997 and 2007

The Acts regulate the engineering practice in Tanzania by registering engineers and monitoring their conduct. It establishes the Engineering Registration Board (ERB), the law requires any local or foreigner engineer to register with ERB before practicing in the country. Project developer will continue to comply as it has utilized the services of registered engineering firm for its structural designs which it will continue to use to supervise the construction process.

3.2.13 The Contractors Registration (Amendment) Act, 2008

The Contractors Registration Act requires contractors to be registered by the Contractors Board (CRB) before engaging in practice. It requires foreign contractors to be registered by the Board before gaining contracts in Tanzania.

Project Developer shall comply with the law requirement during the recruitment of contractors for project implementation.

3.2.14 The Architects and Quantity Surveyors Act (1997)

The Act requires Architects and Quantity Surveyors to be involved in the project to be registered by the Architects and Quantity Surveyor Board (AQSB) before engaging in practice. It also requires foreign contractors to be registered by the Board before gaining contracts in Tanzania. Project Developer has complied with the law requirement during the recruitment of architects who have designed the project and will continue to utilize registered persons in the project implementation.

3.2.15 The Urban Planning Act (2007)

The law provides for the orderly and sustainable development of land in urban areas, to preserve and improve amenities; to provide for the grant of consent to develop land and powers of control over the use of land and to provide for other related matters. Under Section 3, among others the law seeks to improve level of the provision of infrastructure and social services for sustainable human settlement development. This act established planning authorities which include the city, municipal, town and township councils in the country which have responsibilities including:

- Secure the orderly and environmentally sustainable development of area under its jurisdiction;
- Prepare general and detailed planning schemes;
- Control building densities and access to buildings;
- Recommending approval of building schemes and subdivision of plots by developers;
- Secure cooperation of all agencies, utility bodies, land owners and other bodies and institutions involved in the preparation and implementation of planning process;

3.2.16 Public Health Act (2009)

Provide for the promotion, preservation, maintenance of public health with a view to ensuring the provisions of comprehensive, functional and sustainable public health services to the general public. Part III (e) of the act requires premises owners to keep their premises free of mosquitoes and other disease vectors, vermin or causative agents; Section 54 prohibits causing or suffering from nuisance likely to be injurious or dangerous to health, land, premises, air or water; Part IV (c) assigns responsibility to City council to remove or appoint an agent to collect, transport and dispose solid and liquid waste and charge fees to beneficiaries of this service and responsibilities for prescribing types of wastes and guidelines for their collection and disposal; Section 101 it gives rights to any private sewer to connect it to any available public sewer to discharge foul or storm water therefore the project may connect to and discharge sewage or storm water into the available trunk main. However, the quality of the sewage should be as per agreed with the water authority.

The Contracting Authority will ensure that the project design, construction and operation does not constitute a nuisance; meets the requirements meets public health requirements

3.2.17 World Bank guidelines for Environmental Management

The main objective of this EMP is to establish a set of mitigation and monitoring measures to minimize the adverse social and environmental impacts that can take place during the implementation stage of the subproject. The measures especially focus on sensitive receptors or sensitive locations. The EMP also provides specific information about the monitoring program during construction stage including locations, frequency and reporting process. This project complies with these guidelines as it has ESMP which contains mitigation and monitoring plans of the identified impacts.

4.0 PROJECT ACTIVITIES

4.1 Mobilization or pre-construction phase

This phase entails mobilization of labour force, and equipment as well as acquisition of various permits as required by the law.

Other activities during this phase include;

- Topographical Survey for setting out purposes,
- Construction Materials' source Investigation,
- Land acquisition (Memorandum of Understanding is appended on appendix IV)
- Material storage and material preparation,

Duration

This phase is expected to take a total of three 3 Months.

4.2 Construction phase

During this phase a number of activities will be conducted, the phase is expected to last for one year the following is the list of activities expected to be carried out during this phase;

- **Site Clearance:** The contractor shall clear the construction areas within the site of all bushes, roots, boulders, natural obstructions, rubbish and any other natural or artificial obstructions, which would interfere with construction of buildings, roads, paths and drains.
 - **Excavation:** Excavations for foundations and the reinforced concrete structure shall be to the widths, depth and levels to accommodate the structure shown on the drawings. Working space has been allowed for in the measurement of excavation quantities given in these Bills of Quantities in accordance with the rules of measurement laid down elsewhere in these Bills, namely 1.00 meter from the face of any work which requires formwork over 1m deep below the starting level of excavation, and 0.30 meter from face of any work which requires formwork not exceeding 1-metre-deep below starting level of excavation.
 - **Filling:** The fill shall be clean, selected coarse sand or gravel. It should be taken from borrow pits if the soil on the site is found to contain too much fines and to have too low plasticity limit to be used as fill.
-

- **Soil Sterilization:** Anti-termite treatment is to be carried out by an approved specialist firm who will be required, upon completion of the soil sterilization, to furnish a written guarantee qualifying the following:
 - That the chemicals applied comply with the requirements and concentration (The chemicals used shall be one of the following: Aldrin 0.5% applied in oil solution or water emulsion, Benzene hexachloride, 0.8% of gamma isomer applied in oil solution or water emulsion, Chlordane 1.0% applied in solution or water emulsion, Dieldrin 0.5% applied in oil solution or water emulsion, Lindane; 0.8% in oil solution or water emulsion, Pentachlorophenol; 5% in oil solution, Trichlorobenzene; 1 part to 3 parts oil.
 - That the treatment will remain effective against termite infestation for a period of five years.
 - The free re-treatment by the firm of any areas showing signs of infestation before the expiry of the five-year period.
- **Disposal of surplus excavated material:** Surplus excavated material will be carted away from the vicinity of the walls and deposited, spread and levelled on areas to be allocated by the Structural Engineer, reasonably adjacent to the site.
- Concrete work:
- Steel fixing:
- Formwork preparation:
- Masonry work
- Finishing work
- Carpentry work

Alternative source of Energy

During this phase the alternative source of energy is the generator which will be stand-by during power outage from TANESCO.

Duration

This phase is expected to take a total of Six 6 Months.

4.3 Demobilization phase

This phase will involve the dismantling of temporary structures such as scar forming and removing/spreading spoil materials for proper restoration of the site, this phase will last for 2-3 months.

Other activities include;

- General cleanliness of the area, that is clearance of all sorts of solid wastes (plastics, wood, metal, papers, etc);
- Deposit all wastes to the authorized dumpsite;

4.4 Operation phase

The phase entails the actual usage of the toilet. Supply of water and toilet cleaning materials (disinfectants) are among the essentials for running the facility. Faecal sludge will be deslugged using vacuum takers and disposed of at waste stabilization ponds for further treatment. The Temeke municipality will decide on the mode of running the toilet for instance instituting fee, Standby attendants will be positioned to oversee the day to day running of the facility. The facility is estimated to run for 30 years with subject to minor and major repair.

4.5 Decommissioning Phase

Decommissioning is not anticipated in the foreseeable future as the completed facility will be serving a lot of people from; The bus stands and the nearby market, bodaboda drivers and the passersby who at present use the existing public toilet but it does not suffice. However, if this will happen, may entail change of use (functional changes) or demolition triggered by change of land use.

5.0 PROJECT DESIGN

5.1 Space and functional requirements

The project intends to establish the Modern Public Toilet at Kampochea Market, Charambe ward in Temeke Municipality. About 22 units each with different size

and type of service ranging from urinals, bidets, WCS, HWB, showers, lobby, storage room and office space, (*Technical guidelines for construction of institutional and public toilets 2012*). The Proposed Project site covers an approximately area of 120m². The project is one single multipurpose facility aimed at providing services to the community, this proposed project is suitable for the particular site because of the future land use plan of the area which is market, therefore the market will accommodate large number of people hence the public toilet was essential. Pertinent area of each cube/partition with their number in the facility is as described in Table 2.

Furthermore, the project will involve the construction of raiser for elevated water storage tank to build adequate pressure for proper functioning of the facility.

Other studies relevant to this project such as Geotechnical Investigation, Hydrology and hydraulics study etc. will be conducted during the detailed design depending on the site condition.

Table 2: The Proposed Standard Public Toilet working spaces with their respective areas

| Cube/partition | Unit area(m²) | Number of units in the Facility |
|-----------------------|---------------------------------|--|
| Ladies toilet | 24.5 | 6 |
| Gents Toilet | 24.5 | 4 |
| Disabled | 6.0 | 2 |
| Janitor | 3.6 | 1 |
| Store | 3.6 | 1 |
| Ladies shower | 5.5 | 3 |
| Gents Shower | 5.5 | 3 |
| Lobby | 17 | 1 |
| Reception | 2.6 | 1 |
| Total | 92.8 | 22 |

5.1.1 Design approach

- The basic idea of volumetric composition is based on emphasizing the entrance without affecting the privacy and security of the public.

- The building is designed with a connection of two volumes: the front entrance space and the functional toilet area to give comfort.
- Occupants waiting area are at the right and left side of the toilet which are not seen from the entry area into the toilet.

5.2 Layout Plan

The toilet layout plan is given in Figure 5. The project is a simple structure that shall be constructed using block works, corrugated iron sheets and wooden members for doors.

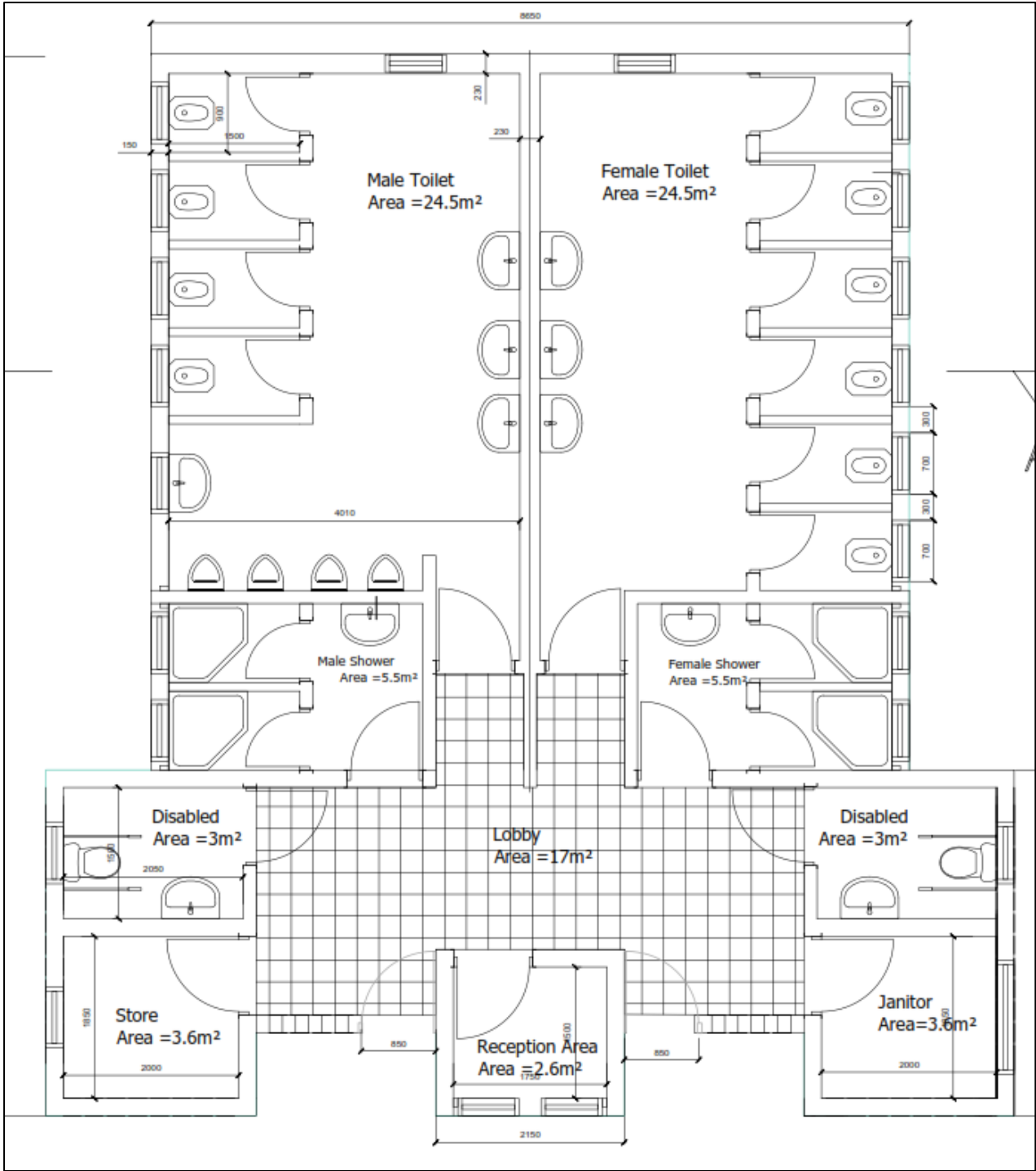


Figure 5: Floor Plan for Public Toilet

6.0 PROJECT REQUIREMENTS AND WASTE GENERATION

6.1 Project requirements

6.1.1 Construction materials and labour force

The main materials for Public toilet include cement, aggregates (stones), water, steel, sand, timbers, blocks, uPVC pipes, IPS Pipes and gravels. All materials are available in the local sources in Tanzania. The preliminary estimated quantities of the materials are summarized in table 3.

Table 3: Quantities of construction Materials

| Requirements | Type | Source | Approx. Quantity required |
|--------------|-----------------------------|-----------------------------|---------------------------|
| Substructure | Hardcore | Registered Local vendors | 114m ³ |
| | Concrete | | 249 m ³ |
| | Reinforcements | | 500 m ³ |
| Frame | Hardcore | | 114m ³ |
| | Concrete | | 249 m ³ |
| | Reinforcements | | 500 m ³ |
| Walling | 230mm thick Block wall | | 83 m ² |
| | 150mm thick Block wall | | 159 m ² |
| | 100mm thick Block wall | | 83 m ² |
| Roofing | 150x150 Rafters | | 127m |
| | 150x150 Tie Beams | | 110m |
| | 150x150 King posts | | 27m |
| | 150x150 Struts | | 213m |
| | 100x50 Thick wall plates | 36m | |

| | | | |
|-------------------|---|--|--------|
| | 50x50 Purlins | | 123m |
| | 240x20 Thick stained black fascia badge boards | | 54m |
| | 150mm Half round UPVC rainwater gutter fixed to fascial board | | 28m |
| | 100mm Diameter UPVC rainwater downpipe | | 15m |
| Windows and Doors | Door size 850 x 2400mm high | | 11 Nos |
| | Door size 850 x 1900mm high | | 14 Nos |
| | Window size 1300 x 1500mm High | | 1 Nos |
| | Window size 775 x 1500mm High | | 2 Nos |
| | Window size 700 x 500mm High | | 20 Nos |

6.1.2 Labour force

The labour force will be determined by the Contractor; nevertheless, it is projected that during the construction phase the project will require about 20 workers both skilled and non-skilled laborers for each phase of project construction.

6.1.3 Machinery and Equipment

The proposed project development will employ various standard construction equipment and machinery. Equipment expected to be used during the construction works are Tippers, Concrete Mixers, poker vibrators, Wheel barrow, Compactor, etc. All equipment and machineries for construction works needed by the proposed project will be determined when the bill of quantities (BoQ) and selection of Contractor is finalized. These equipments shall be temporary and shall be demobilized once project is completed.

6.2 Wastes generation

The major wastes generation associated with the project are spoil soils resulting from earthworks during the foundation excavations, solid wastes and liquid waste. The spoil soil shall be stock piled around the public toilet for further use in landscaping the site at the end of the project.

6.2.1 Liquid waste management

A total of 1m³ per day of liquid waste is estimated to be generated from temporary lined pit latrines during construction phase, based on the assumption that each laborer will consume 65litter of water per day. The project construction and operations will conform to the National Effluent Standard of Tanzania which includes pre-treatment through septic tanks (Appendix V) before emptying and transportation of sewage to the treatment facility. After the sewage treatment process is done, the effluent which is rich in nutrients is expected to cater for irrigation activities adjacent to the treatment facility. However, in case the nutritious effluent is not used for irrigation, there is a possibility of discharging direct to the receiving water body.

6.2.2 Solid waste management

About 50-100Kg per month of domestic refuse and other solid wastes is estimated to be generated during the construction phase. A well-established solid waste collection system will be instituted. The system will involve among other things wastes segregation at source, recycling or reuse of some wastes and final disposal to the approved dumpsite / landfill.

The project management team will provide waste bins and recycling receptacles of different type to enable sorting. Compostable materials will be sent direct to the city dumpsite area. Table 3 below shows solid and liquid waste wastes to be generated by the project and the methods of their disposal.

Table 4: Management of construction and operation wastes

| Type of waste | Sources | Disposal / Management procedure |
|--|---|--|
| Debris and Rubble (overburden) | Site clearance | Fill material for road potholes, etc. |
| Biodegradable materials mainly domestic waste (food, paper, wood etc.) | - Construction crew | Accessible litter bins within the camp site and later to the city waste disposal system (engage a private company) |
| Non- biodegradable materials (plastic, glass) | - Construction crew | Recycling/ reuse (Plastics to be sent to plastic recyclers and glass bottles to be sent to glass recyclers) |
| - Excreta (domestic) human - Grey water /cleaners | - Toilets and floor cleaning | Use of septic tanks and when full will empty to the wastewater treatment facility |
| - Construction waste | - resulted from masonry work, carpentry work and painting | Recycling/reuse |

7.0 POTENTIAL IMPACTS

7.1 Positive impacts

7.1.1 Improved living conditions and economic growth

The project will improve the living conditions in Temeke Municipal whereby the project operation phase will do away with open urination. The charged fee for using the facility will be such as affordable by the intended user. Thus, there will be dignity and increased money circulation that result into increased income consequently better standard of living of people in the project area.

7.1.2 Employment opportunities

Labour force for the project will be originated from Charambe ward and the surrounding communities particularly business people using the Kampochea Market. Even though during construction the employment will be on short term basis, employees will have been benefiting from the project. Some will witness their incomes and family level of life improved.

7.1.3 Improved public health

In crowded areas particularly Mbagala, it is normally hard to ensure safety to public health without the establishment of sound infrastructures. With the public toilet at crowded areas like markets and bus stands which offers a number of services under one umbrella, it is anticipated that the general health condition will not be endangered from health risks.

7.1.4 Increased socio-cultural interaction

Increased socio-cultural interaction is another anticipated positive impact. The implementation of the project will bring many people from different cultural backgrounds. The interactions may bring about social changes in the communities around the project areas. Interaction with technocrats as a result of new immigrants (customers) into the area will stimulate adoption of the new technologies.

7.1.5 Increased Revenue to the nation through taxes, both direct and indirect

The public toilet facility constructed by DAWASA is expected to be operated by the Temeke Municipal. Therefore, it is expected to increase government revenue collection at Municipal and at National level. This will be enhanced by time-to-time payment of service by users. The revenue collected will contribute towards economic development within the municipal and the country at large.

7.2 Negative impacts

7.2.1 Increased HIV/AIDS and other sexual related diseases:

Local communities surrounding the project area have to be aware of the fact that HIV/AIDS is present in their areas but accede to it not being at an alarming rate. The communities were worried that with an influx of people into the project area the pace of spread will accelerate especially during the construction phase.

Mitigation Measures

- Contractor shall enforce a code of conduct in the project area to encourage respect for the local community and to maintain self-cleanliness of the working area at all times.
- The contractor shall deploy locally available labour to reduce risk of spreading communicable diseases (especially STDs).
- In order to prevent more HIV/AIDS infection, during the implementation phase, the project should include information education and communication component (IEC) in its budget. This will help to raise more awareness on HIV/AIDS, and means to suppress its incidence.
- A safety, health and environment induction course shall be conducted to all workers, putting more emphasis on HIV/AIDS, which has become a national disaster.

7.2.2 Destruction and infringement of properties

Within and adjacent to the proposed project site there are small and temporary structures made from wood nailed with steel sheets and solid waste collection point. Such temporary structures accommodate the existing small businesses especially food vendors (*Mamantilie*) and privately owned and operated public toilet, therefore construction of the Public toilet might necessitate the destruction of such facilities.

Mitigation Measures

- Close supervision of construction works shall be observed in order to confine land clearance within the area where the construction activities are to take place to avoid unnecessary demolition.

7.2.3 Noise pollution

Noise pollution is likely to occur due to the application of construction equipment and generators at the site.

Mitigation Measure

- The proponent shall maintain equipment in good running conditions to ensure that ambient noise level and vibrations pollution into the environment is very minimum to comply with Tanzania standards
- The noisy construction activities will be scheduled at normal working hours. Regular inspection and maintenance of construction vehicles and equipment will be done to ensure that they have mufflers installed and worn parts are replaced

7.2.4 Air Pollution from dust emission

Air pollution is likely to occur due to the emission of suspended particulate matter (dust) to the atmosphere from the construction activities.

Mitigation Measure

- Mixing equipment shall be sealed properly and vibrating equipment will be equipped with dust removing devices.
- Also all vehicles that generate excessive black smoke will not be used.
- Adequate training and use of personal protective equipment (PPE) such as eye glasses and dust masks will be ensured in order to reduce risks associated with dust.

7.2.5 Potential communicable diseases transmission

Many people from different places and of different health status will be using the toilet. This creates a premise for potential transmission of different communicable diseases of wide range including diarrheas, typhoid, COVID-19 etc.

Mitigation measures

- Ensure supply of adequate provisions like water, toilet papers, soaps, disinfectants etc
- Maintain high level of cleanliness
- Install guidelines on the usage of toilets

7.2.6 Smells and flies in toilets

Inadequate attention to the public toilet may render the facility a liability to adjacent land users and businesses. Drainage system blockage due to misuse of toilet can be a source of sewage overflows and hence the area around becoming a nuisance to people. Overflowing sewage will produce awful smell of decomposing organic matter that lowers the air quality in the vicinity. Experience of abandoned public toilets in Tanzania shows that they easily become centers for vagabond boys to plan evil acts in the society.

Mitigation measures

- The developer to ensure adequate supply of provisions
- Adhere to good maintenance
- Timely desludging

7.2.7 High Risk of Health associated with construction work

Construction activities exposes the workers to a lot of risks for example risk of falling into the excavated pits more than 3metres deep, risk of injuries from falling objects or sharp pointed objects e.t.c

Mitigation measure

- The project proponent shall ensure that all personnel are provided with appropriate protective gear.
- All works shall be planned and conducted in accordance with relevant OHS Guidelines. First Aid Kit as well as regular medical check-ups for the workers will be provided during the entire working hours.
- Adequate number of firefighting equipment/extinguishers will be provided in every few distance to help putting off fire in case of occurrence.
- Excavated pits should be protected by warning tape and guardrails to prevent workers from falling

7.2.8 Waste generation during construction

A lot of waste will be generated especially during construction stage. For example excavation of foundations will generate a lot of spoil materials that will need to be disposed of. Construction of walls and roof will both generate wastes. Other wastes will be generated from painting and other related finishing works and cleaning of construction equipment and containers like mixers and paint buckets.

Mitigation measures:

- Stick to the design specifications
 - Provide waste containers
 - Provide training to workers and orient them towards environmental protection values
-

8.0 ACTION PLAN FOR PREVENTION AND MANAGEMENT OF ACCIDENTS DURING IMPLEMENTATION STAGE

The project shall be implemented in compliance to labour laws in Tanzania, in particular, the Occupational Health and Safety Act (2003). Clauses to protect the health and safety of workers shall be included in the contract documents for implementation stage.

8.1 Health and Safety

The proponent is committed to protect the health and safety of its employees and those of its contractors, to ensuring that activities are conducted in a manner that protects the environment and people. The Contractor shall provide and enforce the use of appropriate personal protective equipment for all workers e.g. overalls, gloves, masks, etc. (wherever required). Tanzanian/international construction standards will be followed for quality and safety to workers. First aid facility will be installed at the construction site.

8.2 Security

The whole proposed project will take care of security matter of the site by fencing the whole project area and provide gates for entrance and exit purpose. The project proponent shall have a 24 hours security services from a private company to secure the whole project premise at the site. Also, since the nature of investment involves fecal sludge management facility with the potential of biogas production. The project proponent will install the best firefighting system at site. The purpose of fire protection is to protect life, good and activities within the project site.

The following are some of the active and passive firefighting equipment that will be employed;

- Fire detection system
- Fire hydrant system
- Portable Fire Extinguishers

8.3 Monitoring, Maintenance and repair

The management of the facility will be upon both DAWASA and Temeke Municipal Council to ensure the approved design or plan is implemented accordingly. Furthermore, provision of basic services is being executed at high quality as intended for. However, the facility users will also have to ensure they are responsible with the common matters such as general cleanliness of the facility through; thorough flushing after use, avoid disposing diapers and littering within the toilet sink, paying service fees, etc

9.0 ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

9.1 Environmental and Social Management Plan

The Environmental and Social Management Plan (ESMP) presents the implementation schedule of the proposed mitigation measures for both environmental and social impacts. The ESMP for the proposed Construction of Public Toilet at Kampochea is summarized in Table 4. The ESMP also indicates environmental costs needed to implement the recommended mitigation measures. The public toilet site selection process and engineering designs have already included some of the mitigation measures recommended in this report. Additional recommendations are provided in the ESMP to enable the public toilet to be constructed and operated in environmentally friendly manner.

DAWASA in collaboration with Temeke Municipality shall be the main implementer of the ESMP through. The environmental measures incorporated in the detailed engineering design will be attached to the Bills of Quantities and Contract Documents. Moreover, there will be a Environmental, Social, Health and Safety (ESHS) Code of Conduct to be signed by the Contractor(s) to show their commitment in the implementation of the Environmental, Social, Health and Safety. The implementation of the Code will be supervised by DAWASA or his consultant.

The ESHS Code is a set of Guidelines attached to the Bidding Document and Contract to be adopted by Contractor during project implementation. It contains the commitment and obligations of the Contractor and its subsidiaries (i.e. Sub-

Contractors and staff) to undertake construction activities in accordance with all applicable Laws, Rules, and Regulations. The Contractor and its subsidiaries shall comply with the Code of Conduct with high ethical standards. Failure to observe the Code, will subject the firm to disciplinary action, including Contract termination. Violation of the Code, is violation of Law which may result to civil and/or criminal penalties to Contractors, Supervisors or Firm.

Some of the issues to be included in the ESHS shall include;

- Site specific **ESMP, HSMP**,
- Traffic Management Plan (**TMP**), **where applicable**
- HIV/AIDS Awareness Program,
- Occupational Health and Safety Awareness Program.
- Sexual Harassment prevention Policy
- Child Labour Prevention Policy

The environmental and social mitigation and enhancement measures incorporated in the detailed engineering design will be attached to the Contract Documents. The Contractor shall take stock of the contents of the Project Brief.

Table 5: Environmental and Social Management Plan for the Proposed Construction of Public Toilet at Kampochea Market, Charambe ward, Temeke Municipality

| Impact | Mitigation Measure | Responsible Institution | Estimated Time Cost (TZS) | One | Estimated cost (TZS) | Annual |
|----------------------------------|---|--|---------------------------|-----|----------------------|--------|
| Increased waste generation | <ul style="list-style-type: none"> ○ Stick to the design specifications ○ Provide waste containers ○ Provide training to workers and orient them towards environmental protection values | Contractor/DAWASA/Temeke Municipal Council | 500,000.00 | | | |
| Increased HIV/AIDS and other STD | <ul style="list-style-type: none"> ○ Contractor shall enforce a code of conduct in the project area to encourage respect for the local community and to maintain self-cleanliness of the working area at all times. ○ The contractor shall deploy locally available labour to reduce risk of spreading communicable diseases (especially STDs). | Contractor/DAWASA/Temeke Municipal Council | 500,000.00 | | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Impact | Mitigation Measure | Responsible Institution | Estimated Time Cost (TZS) | One | Estimated Annual cost (TZS) |
|--|---|--|---------------------------|-----|-----------------------------|
| | <ul style="list-style-type: none"> ○ In order to prevent more HIV/AIDS infection, during the implementation phase, the project should include information education and communication component (IEC) in its budget. This will help to raise more awareness on HIV/AIDS, and means to suppress its incidence. ○ A safety, health and environment induction course shall be conducted to all workers, putting more emphasis on HIV/AIDS, which has become a national disaster. | | | | |
| Destruction and infringement on properties | Close supervision of constructions | Contractor/DAWASA/Temeke Municipal Council | 500,000.00 | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Impact | Mitigation Measure | Responsible Institution | Estimated Time Cost (TZS) | One | Estimated Annual cost (TZS) |
|-------------------------------------|--|--|---------------------------|-----|-----------------------------|
| Noise pollution during construction | <ul style="list-style-type: none"> ○ The proponent shall maintain equipment in good running conditions to ensure that ambient noise level and vibrations pollution into the environment is very minimum to comply with Tanzania standards ○ All construction works will be scheduled at normal working hours. ○ Proper inspection and maintenance of construction vehicles and equipment will be done to ensure that they have mufflers installed and worn parts are replaced | Contractor/DAWASA/Temeke Municipal Council | 200,000.00 | | |
| Dust generation during construction | <ul style="list-style-type: none"> ○ Mixing equipment shall be sealed properly and vibrating equipment will be equipped with dust removing devices. | Contractor/DAWASA/Temeke Municipal Council | 300,000.00 | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Impact | Mitigation Measure | Responsible Institution | Estimated Time Cost (TZS) | One | Estimated Annual cost (TZS) |
|---|---|--|---------------------------|-----|-----------------------------|
| | <ul style="list-style-type: none"> ○ Also all vehicles that generate excessive black smoke will not be used. ○ Adequate training and use of personal protective equipment (PPE) such as eye glasses and dust masks will be ensured in order to reduce risks associated with dust. | | | | |
| Health Risks associated with construction works | <ul style="list-style-type: none"> ○ The project proponent shall ensure that all personnel are provided with appropriate protective gear. ○ All works shall be planned and conducted in accordance with relevant OHS Guidelines. First Aid Kit as well as regular medical check-ups for | Contractor/DAWASA/Temeke Municipal Council | 300,000.00 | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Impact | Mitigation Measure | Responsible Institution | Estimated Time Cost (TZS) | One | Estimated Annual cost (TZS) |
|------------------------|---|---------------------------------|---------------------------|-----|-----------------------------|
| | <p>the workers will be provided during the entire working hours.</p> <ul style="list-style-type: none"> ○ Adequate number of firefighting equipment/extinguishers will be provided in every few distance to help putting off fire in case of occurrence. ○ Excavated pits should be protected by warning tape and guardrails to prevent workers from falling ○ The developer to ensure adequate supply of provisions ○ Adhere to good maintenance | | | | |
| Potential communicable | <ul style="list-style-type: none"> ○ Ensure supply of adequate provisions like | DAWASA/Temeke Municipal Council | | | 10,000,000.00 |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Impact | Mitigation Measure | Responsible Institution | Estimated One Time Cost (TZS) | Estimated Annual cost (TZS) |
|----------------------------|--|---------------------------------|--------------------------------------|------------------------------------|
| diseases transmission | water, toilet papers, soaps, disinfectants etc ○ Maintain high level of cleanliness ○ Install guidelines on the usage of toilets | | | |
| Potential Smells and flies | ○ The developer to ensure adequate supply of provisions ○ Adhere to good maintenance ○ Timely desluding | DAWASA/Temeke Municipal Council | | Included in above |
| Total | | | 2,300,000.00 | 10,000,000.00 |

10.0 MONITORING PLAN

10.1 Environmental Monitoring

The national EIA guidelines require the developer to prepare and undertake monitoring plan of implemented development projects. Monitoring is needed to check if and to what extent the impacts are mitigated, benefits enhanced and new problems addressed. Recommendations for monitoring have been included in the Table 5. The monitoring plan also assigns responsibilities for different actors. Moreover, the ward and street environmental committees will shoulder the long-term monitoring of the project.

Table 6: Monitoring Plan for the Proposed Construction of Public Toilet at Kampochea Market in Charamabe Ward, Temeke Municipality

| Parameter | Monitoring Frequency | Sampling Area | Measurement Unit | Method | Target Level/Standard | Responsibility for monitoring | Estimated Annual (or once cost (TZS) |
|---------------------------|------------------------|--------------------------------|---|------------------------------------|--|-------------------------------|--------------------------------------|
| Mobilization Phase | | | | | | | |
| Dust | Daily | Immediate working area | ppm | Physical-visual | TBS | DAWASA | None |
| Air Quality | Daily | Around the Inspection chambers | µg/m ³ | Smelling (nasal) | TBS | DAWASA | 2,500,000.00 |
| Waste Generation | Weekly | At the working area | Amount of waste | Physical measurement or estimation | All waste contained | DAWASA | In BOQ |
| Health risks | Daily | At working area | Accidents | Counting | NO accident | DAWASA | In BOQ |
| HIV/AIDS | Monthly | Workers | Training | Numbers | One per month during construction phase only | DAWASA | 5,000,000.00 |
| Biodiversity | Once (at commencement) | Working area | Destruction of habitat or removal of biodiversity | Area affected | Minimal disturbance to biodiversity | DAWASA | 1,000,000.00 |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Parameter | Monitoring Frequency | Sampling Area | Measurement Unit | Method | Target Level/Standard | Responsibility for monitoring | Estimated Annual (or once cost (TZS) |
|-----------------------------|------------------------|--------------------------------|---|------------------------------------|--|-------------------------------|--------------------------------------|
| Construction phase | | | | | | | |
| Dust (PM 2.5, PM 10) | Weekly | Immediate working area | ppm | Physical-visual | tbs | DAWASA | None |
| Air Quality | Weekly | Around the Inspection chambers | µg/m ³ | Smelling (nasal) | TBS | DAWASA | 2,500,000.00 |
| Waste Generation | Weekly | At the working area | Amount of waste | Physical measurement or estimation | All waste contained | DAWASA | In BOQ |
| Health risks | Daily | At working area | Accidents | Counting | NO accident | DAWASA | In BOQ |
| HIV/AIDS | Monthly | Workers | Training | Numbers | One per month during construction phase only | DAWASA | 5,000,000.00 |
| Biodiversity | Once (at commencement) | Working area | Destruction of habitat or removal of biodiversity | Area affected | Minimal disturbance to biodiversity | DAWASA | 1,000,000.00 |
| Demobilization Phase | | | | | | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Parameter | Monitoring Frequency | Sampling Area | Measurement Unit | Method | Target Level/Standard | Responsibility for monitoring | Estimated Annual (or once cost (TZS) |
|------------------------|------------------------|--------------------------------|---|------------------------------------|--|-------------------------------|--------------------------------------|
| Dust (PM 2.5, PM 10) | Weekly | Immediate working area | ppm | Physical-visual | TBS | DAWASA | None |
| Air Quality | Weekly | Around the Inspection chambers | µg/m ³ | Smelling (nasal) | TBS | /DAWASA | 500,000.00 |
| Waste Generation | Weekly | At the working area | Amount of waste | Physical measurement or estimation | All waste contained | DAWASA | In BOQ |
| Health risks | Daily | At working area | Accidents | Counting | NO accident | DAWASA | In BOQ |
| HIV/AIDS | Monthly | Workers | Training | Numbers | One per month during construction phase only | DAWASA | 5,000,000.00 |
| Biodiversity | Once (at commencement) | Working area | Destruction of habitat or removal of biodiversity | Area affected | Minimal disturbance to biodiversity | DAWASA | 1,000,000.00 |
| Operation phase | | | | | | | |

Comprehensive Project Brief of the Proposed Public Toilet at Kampochea Market

| Parameter | Monitoring Frequency | Sampling Area | Measurement Unit | Method | Target Level/Standard | Responsibility for monitoring | Estimated Annual (or once cost (TZS) |
|------------------|-----------------------------|--------------------------------|-------------------------|------------------------------------|--|--------------------------------------|---|
| Air Quality | Monthly | Around the Inspection chambers | µg/m ³ | Smelling (nasal) | Absence of nuisance smells | DAWASA | 500,000.00 |
| Waste Generation | Monthly | At the working area | Amount of waste | Physical measurement or estimation | All waste contained | DAWASA | In operation manual |
| Health risks | Monthly | At working area | Accidents | Counting | NO accident | DAWASA | In operation manual |
| HIV/AIDS | Annually | Workers | Training | Numbers | One per month during construction phase only | DAWASA | In operation manual |
| Total | | | | | | | 24,000,000.00 |

11.0 PROJECT BUDGET

The investment cost for the proposed Faecal Sludge Treatment Plant is estimated to be around Tshs 45 Million that will be financed The World Bank.

12 STAKEHOLDER VIEWS ON THE PROPOSED PROJECT

During the conduction of this study, different stakeholders were consulted. Among these include the Temeke Municipal Council and community at Kampochea market (see Figure 6). Consultations were made through meetings held on 2nd July 2020.



Figure 6: Stakeholder's consultation meeting at Kampochea Market

During the meeting, the consultant gave a brief explanation on the proposed public toilet. The project description covered proposed location, type and design of toilet (a typical design was displayed), construction materials, faecal sludge emptying and disposal. The stakeholders were given chance give their views on the project. Moreover, the consultant offered chance to clarify issues where stakeholders wanted to be given more explanations. The comments by stakeholders were analyzed and incorporated in the design of mitigation measures. Table 6 summarizes the issues raised. The Minutes of local

community meetings are appended in appendix II and the stakeholders consulted are given in Appendix I.

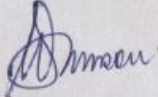
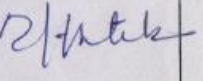
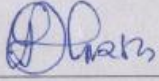
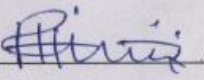
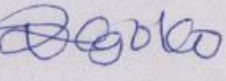
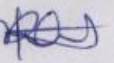
Table 7: Issues and concerns rose by stakeholders

| Institution | Name | Position | Issues/ concerns |
|---|---------------|-----------------------------|---|
| TEMEKE MUNICIPAL COUNCIL | Hanifa Mruma | Ag. MCDO | -Sensitization to the local leaders and the community on how the FSTP works and its benefits -Most of the people in project areas lack toilets, it is likely for the public toilets to be put at maximum use -Toilets to most of the local people are not a priority, they have nice houses but shabby toilets or no toilets at all-just using neighbors toilets. |
| TEMEKE MUNICIPAL COUNCIL | Veronica Koko | Ag. MUNRO | -Some proposed projects have ownership issues, for instance UVIKIUTA is still a nightmare -Proposed Kisewe mtaa for purchase of open piece of land for project purposes |
| TEMEKE MUNICIPAL COUNCIL, CHARAMB E WARD | Shufaa Msangi | EHO | -There are existing Public toilet facilities, they better be renovated rather than construction of new same facility |
| TEMEKE MUNICIPAL COUNCIL, KAMPOCH EA MARKET | Salum Msoka | Kampoche a Market Secretary | -Existing toilets are not sufficient for the market users |
| TEMEKE MUNICIPAL COUNCIL, KAMPOCH EA MARKEP | Hussein Mweyo | Kampoche a Market Treasurer | -Existing public toilets have a lot of problems, smell caused by poor ventilation and poor maintenance |

Appendix I: List of Stakeholders Consulted


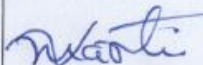
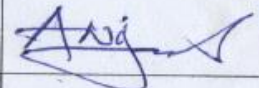
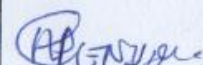
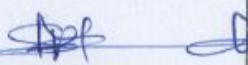

**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR CONSTRUCTION OF OFF GRID SANITATION PROJECTS,
DAR ES SALAAM**

LIST OF STAKEHOLDERS CONSULTED

| SN | DATE/TAREHE | NAME/JINA | INSTITUTION/TAASISI | POSITION/CHEO | PHONE NO./SIMU | SIGNATURE/SAINI |
|----|-------------|-----------------------|---------------------|---------------|----------------------------|---|
| 1 | 25.06.2020 | DR GWAMAKA MWABUKAMBO | TEMERKE MC | MUOH | 0715130050 |  |
| 2 | 25-06-20 | Ally Hatab | TEMERKE MC | MWFD | 0717368585 |  |
| | 25.06.20 | Jennifer UASSA | TEMERKE MC | IA | 0784 644134 0715 151561 |  |
| | 01/07/2020 | HANIFA MZUMU | TEMERKE MC | Ag, MCAO | 0657662699 |  |
| | 01/07/2020 | VERONICA GOICO | TEMERKE | Ag MUNRO | 0756763945 |  |
| | 01/7/2020 | REHEMA SADIQI | TEMERKE | MHO | 0754395669 |  |

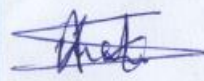

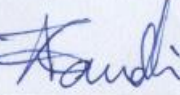
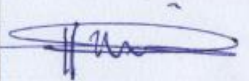

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR CONSTRUCTION OF OFF GRID SANITATION PROJECTS,
DAR ES SALAAM

LIST OF STAKEHOLDERS CONSULTED

| SN | DATE/TAREHE | NAME/JINA | INSTITUTION/TAASISI | POSITION/CHEO | PHONE NO./SIMU | SIGNATURE/SAINI |
|----|-------------|--------------------|---|---------------|----------------|---|
| | 02/07/20 | HAMZA JUMA TWAIBU | MTAA WA VIKUAMI | MWENAYEKITI | 0713623830 |  |
| | 02/07/2020 | VATHIB M. MIELE | MTAA WA VIKUAMI | MJUMBE | 0782-754148 |  |
| | 02/07/2020 | ABDULLI S. NG'ICHA | M/KITI SOKO ATAKIOANGOMA | M/KITI | 0717-69777 |  |
| | 2/07/2020 | CHEDIAU-N. TENDU | M/KITI MTA | M/KITI MTA | 0789015529 |  |
| | 02/07/2020 | MORRIS E. SENDI | MTAA WA RANGITATA | CEO | 0713759495 |  |
| | 02/07/2020 | SHUFAN S MSAMBE | AFISA AFIA KATA CHARANBE AFISA AFIA | AFISA AFIA | 0719368325 |  |

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR CONSTRUCTION OF OFF GRID SANITATION PROJECTS,
DAR ES SALAAM

LIST OF STAKEHOLDERS CONSULTED

| SN | DATE/TAREHE | NAME/JINA | INSTITUTION/TAASISI | POSITION/CHEO | PHONE NO./SIMU | SIGNATURE/SAINI |
|----|---------------------|------------------|---------------------|---------------|----------------|---|
| | 2/7/2020 | SALUM A MSOKA | SOKO LA KAMPOCHEA | KATIIBU | 0716 742 994 |  |
| | 2/7/2020 | HUSSEIN F. MUBYO | SOKO LA KAMPOCHEA | HAZINA | 0719-630247 |  |
| | 2/7/2020 | ARMED | | | | |
| | 2/7/2020 | ABDULLA MWENGE | SOKO KAMPOCHEA | MJUMBE | 0696 733655 |  |
| | 2/7/2020 | ARMED S. NGILWA | SOKO KAMPOCHEA | M/KIJI | 0782181318 |  |
| | 2/7/2020 | NURIDINI ALI | SOKO KAMPOCHEA | MJUMBE | 06 52255066 |  |
| | | | | | | |

Appendix II: Minutes of Meetings with Locals

TATHMINI YA ATHARI KWA MAZINGIRA NA JAMII NA
UHAMASISHAJI KWA JAMII KUTUSU MPANGO WA UKAZI
UMBADALA NA FIDA ZITUKANAZO A MRADI WA UJENZI
WA MIUNDOMBINU YA UCHAKATAJI MAJI TAJKA NA VYOO
VYA UMMA KIKOA WA DAR. ES. SALAAM

JORO LA KAMPICHEA

02/07/2020

1. KUFUNGUWA KIKAO
2. MAELEZO KUTUSU MRADI WA UCHAKATAJI MAJI TAJKA
3. MASWALI / MABINI KUTOKA KWA WADAO
4. KUATHIRISHA KIKAO .

AFISA MTENDAJI WA MTAJ
RANGI TATU

1. KUFUNGUWA KIKAO

Kikao kilifunguliwa na mwenyekiti ndugu Hafidhi Chavkuru unauo keda wa saa 10.00 na kuwatambulisha wageni wataalamu kutoka kampuni ya Royal Associate Engineering JO G-PES LTD kawa na Mwekezaji wa DARASSA.

2. MAELEZO KUTUSU MRADI WA UCHAKATAJI MAJI TAJKA

Mtaalamu ndugu Robert Keshiki alisimama na kueleza kuwa wamekuja kutoka laarifa kuhusu ujenzi wa vyoo vya umma na wao ni kashari hivyo kama mshauri amekuja kuangalia tathmini ya Mazingira na jamii, eneo la ujenzi wa chuo chakawa ni kwenye eneo la Senkali.

Choo kitakachojengwa ni kwa ajili ya wote wanawake na wanaume. Choo hiki kitakuwa cha kulipia, na yenzi wa choo kitasaidia waji kabira eneo la Kamkochea. kwa maeneo ya tembeke vitajengwa vyo viswili, kwa ujio wetu ni kutoa taarifa kwa kua hatuwezi kuanza mradi bila kuwashirikisha wananchi wa eneo hili ili tuwee kupata Maswali na Maoni yenu.

3. MASWALI / MAONI KUTOKA KWA WADAI

Bungala Mkilwa - kuna ongereko la watu na wafanyabiashara kwenye eno hili tunaomba utawari tunaomba vizingatiwe na kuna shida ya maji na hatujui maji yapatikana wapi hivyo tunaomba maoni yetu myafanyie kazi, tunahitaji vyo visafi vya kisasa, na tunahitaji chemba za uhakika.

Mtaalamu ndugu Robert Kishiki alijibu maoni yenu tumeyapokea na tutayazingatia tupo hapa kwa ajili ya hayo kukusanya maoni yenu

Swabaha - choo kikitengenezwa kinakuwa mali ya soko, halmashauri, au awasa.
Mtaalamu alijibu choo kikitamilika anakabidhiwa halmashauri

na DAWASA Inajukumu ya kuangalia usafi wa hivyo vyoo na upatikaji wa maji.

Mbaraka Chihake - Ameomba choo kimitikiwe na soko.

Jwabaha - alieliza je choo kilagharanikiwa na soko au nani kaka yemi. Mtaalamu alijibu gharama za yemi ni za serikali.

Ramla Said - Choo kilichopo sio rafiki kwa wanawake, maji ni muhimu pia tunaomba Ghimo lewe kubwa na kuwe na Tehemu ya wakemavu.

Hussain F. Mweyo - Analitaji kujua ramani ya hicho choo.

mtaalamu ndugu Adam kutoka DAWASA alijibu eno la choo tumepewa na kuonyeshwa na halmashauri ya lemeke, kwa sasa tupo kwenye tathmini ya Mazingira na jami, tukimaliza itakuya hatua ya design itafika na mtaonyeshwa Bungala Nkilwa aliomba mabanda na chemba yaondolewe ili yajengwe mengine, analitaji vyoo ambavyo vinatutiri

Bungala Mkwilwa - alionba watu walemavu hawana
sehemu ya kupanda kuingia choni tunaomba
muwazingatie walemavu.

Ramachabi Mwingele - Mama lithe hawana kabo
kalo la kuosha vyombo vya.

Mtaalamu alijibu wamelipokea ombi lao na
watalifanya kazi.

KUTHIRISHA KIKAO

kikao kilialinishwa mnamo muda wa saa 10:35
jioni na mwenyekiti wa kikao.

Kmji: ~~Maji~~

Sahihi ya Mwenyekiti
MWENYEKITI WA SERIKALI YA MTAJI
RANGI TATU

~~Sahihi~~
Sahihi ya Mtendaji
AFISA MTENDAJI WA MTAJI
RANGI TATU

TATHIMINI YA ATHARI KWA MAZINGIRA NA JAMII NA UHAMASISHAJI KWA JAMII KUHUSU MPANGO WA MAKAZI MBADALA NA FIDIA ZITOKANAZO NA MRADI WA UENZI WA MIUNDOMBINU YA UCHAKATAJI MAJI TAKA NA VYOO VYA UMMA MKOA WA

DAR ES SALAAM

MAHUDHURIO KWA AJILI YA MIKUTANO, MAJADILIANO

MSHAURI: ROYAL ASSOCIATES ENGINEERING JV G-PES LTD

MWEKEZAJI: DAWASA

WILAYA..... KATA..... MTA..... TAREHE.....

| S/N | JINA | WADHIFA | NAMBA YA SIMU | SAHIHI |
|-----|----------------------|----------|---------------|-------------|
| 01 | BUNGARA MUKI LWA | BIASHARA | 0786 864663 | [Signature] |
| 02 | NASSAW NASSAW | | 0715 581258 | [Signature] |
| 03 | ISMAIL LIWAMILE | BIASHARA | 0685 762991 | [Signature] |
| 04 | SUABAH ISA KIMBARDA | BIASHARA | 0688-684885 | [Signature] |
| 05 | IMRASA SUMBA | BIASHARA | 0786-605100 | [Signature] |
| 06 | SHABAN SUTAN | | 0656560802 | [Signature] |
| 07 | ASIA ZUBERI | | 0684494757 | [Signature] |
| 08 | RAMLA SAID | | 0715 805 501 | [Signature] |
| 09 | SABRINA AULY MOHAMED | | 0785 283858 | [Signature] |
| 10 | MBARAKA CHAMBA | | 0687 043463 | [Signature] |
| 11 | HABIBA YUSUF | | 0717-003455 | [Signature] |
| 12 | DABI JOHN | BIASHARA | 0620 805136 | [Signature] |
| 13 | AGNES BAKTER | C | 0693 102509 | A. B. |
| 14 | FATUMA MUSSA | BIASHARA | 0654 999491 | MUSA |
| 15 | AMINA SELEMI | | 0716 347753 | A. S |
| 16 | RETHAM ITHAM | BIASHARA | 0719 094663 | R. Ithamali |
| 17 | NURU HAMISI | BIASHARA | 0682 461687 | NH |
| 18 | HATUMA ABDUL KADIR | BIASHARA | 0688/46747 | H. A. K. |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

AFISA MTENDAJI WA MTA
RANGI TATU

Appendix III: Screening Decision from NEMC



NATIONAL ENVIRONMENT MANAGEMENT COUNCIL(NEMC)
BARAZA LA TAIFA LA HIFADHI NA USIMAMIZI WA MAZINGIRA

Telephone: +255 22 2774889,
Direct line: +255 22 2774852
Mobile: 0713 608930
Fax: +255 22 2774901
Email: dg@nemc.or.tz
Website: www.nemc.or.tz

35 Regent Street,
P. O. Box 63154
11404 Dar es Salaam
TANZANIA

Date: 06/04/2021

In reply please quote:

Ref: **EC/EIA/2020/7833**

Director General,
Dar es Salaam Water Supply and Sanitation Authority,
P. O. Box 1573,
Dar es Salaam.

RE: SCREENING DECISION FOR THE PROPOSED ESTABLISHMENT OF PUBLIC TOILET TO BE LOCATED AT KAMPOCHEA MARKET, CHARAMBE WARD IN TEMEKE MUNICIPALITY, DAR ES SALAAM

Reference is made to the above heading.

2. The Council has received your project brief for the aforementioned project on 31st August 2020. Following the review of the submitted project brief, the Council has reached a decision that your project falls under B2 types of projects and hence does not require full Environmental Impact Assessment study.
3. In this regard you will be required to submit Detailed Project Brief with the following taken into account;
 - i. All copies of relevant documents including certificate of occupancy bearing the name of the proponent and designated land use; Also provide the name of Mtaa and Ward of the project site;

All correspondence should be addressed to the Director General

- ii. Detailed key stakeholder's including neighbors surrounding the proposed project area, Mtaa Office, Charambe Ward Office and Temeke Municipality (Environment Management Unit, Town Planning and Land Departments); their views and concerns should be addressed, minutes of the meeting taken during consultation should be provided in the report. Consultation forms should bear recent **date of consultation** and each consulted stakeholder should **sign** against his/her **names**; **Ensure that all issues raised by stakeholders are responded by the Proponent**;
 - iii. Append a site layout plan showing all project components, size and ratio of the plot. The architectural design should be signed by the relevant authority;
 - iv. Describe in detail the management of solid wastes generated onsite and waste water from the toilets, provide the capacity of the onsite treatment facilities, how often will they be emptied and the final disposal of the fecal sludge;
 - v. Provide the current baseline data including the water table around the project site and water quality analysis;
4. Furthermore, be reminded that the project brief should conform to the EIA and Audit (Amendment) Regulations, 2018 particularly Regulation 6(1) for the content of the comprehensive project brief.
 5. Upon Submission of the Comprehensive Project Brief, the Council will arrange for an internal review of the document. Prior to this review, representative of the Council will visit the project site to inspect and verify the adequacy of the report with respect to the proposed project operation and surrounding environment. As you submit detailed project brief you will be required to as well pay to the Council a review cost though control number to be generated by the system. Upon submission of comprehensive project brief.
 6. In case you need additional information or clarification on this matter please do not hesitate to contact us through Tel. No.0788 110 349


Eng. Benjamin J. Mchwampaka
For: Director General

Cc: Prof, Rubhera RAM Mato (PhD)
P.O. Box 35176,
Dar es Salaam.

All correspondence should be addressed to the Director General

**Appendix IV: Memorandum of Understanding between DAWASA and Dar
es Salaam Municipal Councils**



MEMORANDUM OF UNDERSTANDING
BETWEEN
MINISTRY OF WATER
AND
THE DAR ES SALAAM WATER SUPPLY AND
SEWERAGE AUTHORITY,
REGIONAL ADMINISTRATIVE SECRETARIAT
AND
DAR ES SALAAM MUNICIPAL COUNCILS
(Kinondoni, Ilala, Temeke, Ubungo, Kigamboni)

JANUARY 2019

ACRONYMS

| | |
|----------------|---|
| BC | Beneficiary Community |
| CEO | Chief Executive Officer |
| CPM | Critical Path Method |
| CV | Curriculum Vitae |
| DAWASA | Dar es Salaam Water and Sewerage Authority |
| DDCA | Drilling and Dam Construction Agency |
| DEWATS | Decentralized Wastewater Treatment System |
| DSM | Dar es Salaam |
| EMP | Environmental Management Plan |
| ESA | Environmental and Social Assessment |
| ESIA | Environmental and Social Impact Assessment |
| ESMP | Environmental and Social Management Plan |
| EWURA | Energy and Water Utilities Regulatory Authority |
| FDR | Final Design Report |
| FSM | Feacal Sludge Management |
| GIS | Geographic Information System |
| GoT | Government of the United Republic of Tanzania |
| H&S | Health and Safety |
| ICB | International Competitive Bidding |
| IFRs | Interim Financial Report |
| LGAs | Local Government Authorities |
| m ³ | Cubic meter = 1,000 litres |
| MD | Managing Director |
| MKUKUTA | National Strategy for Growth and Reduction of Poverty |
| MoEVT | Ministry of Education and Vocational Training |
| MoHCDEC | Ministry of Health, Community Development, Gender, Elderly and Children |
| MoU | Memorandum of Understanding |
| MoW | Ministry of Water |
| NCB | National Competitive Bidding |
| NEMC | National Environment Management Council |

| | |
|---------|--|
| NGO | Non-Governmental Organization |
| NWSDS | National Water Sector Development Strategy |
| O&M | Operations and Maintenance |
| PAP | Projected Affected Person |
| PERT | Program Evaluation Review Technique |
| PIM | Project Implementation Manual |
| PIP | Program Implementation Plan |
| PO | Private Operators |
| PO-RALG | Presidents Office Regional Administration and Local Government |
| PPRA | Public Procurement Regulatory Authority |
| RAP | Resettlement Action Plan |
| RAS | Regional Administrative Secretary |
| RS | Regional Secretariat |
| RFP | Request for Proposals |
| SDG | Sustainable Development Goal |
| SPS | Small Piped Water Supply |
| TBS | Tanzania Bureau of Standards |
| ToR | Terms of Reference |
| UWSA | Urban Water and Sewerage Authority |
| WC | Water Committee |
| WSDP | Water Sector Development Program |
| WSS | Water Supply and Sanitation. |
| WSSP | Water Sector Development Program |
| WSSPII | Second Water Sector Support Project |

**A MEMORANDUM OF UNDERSTANDING
FOR THE IMPLEMENTATION OF THE OFF- GRID WATER SUPPLY AND
SANITATION PROJECTS UNDER THE SECOND WATER SUPPLY AND
SANITATION PROJECT USING EARMARKED FINANCING**

Memorandum of Understanding (“MoU”) between the Ministry of Water on one part and the Dar es Salaam Water Supply and Sewerage Authority (“DAWASA”), the Dar es Salaam Regional Secretariat (RS), and the five municipalities of Dar es Salaam (collectively referred to as “the MUNICIPALITIES”) on the other part.

WHEREAS in recognition of the importance and contribution of the water sector to the social and economic development of the United Republic of Tanzania, the Government has developed a water sector support framework set out in the following documentation: (a) the National Strategy for Growth and Reduction of Poverty (“MKUKUTA, as amended”), (b) the National Water Sector Development Strategy (“NWSDS”) and (c) the Water Sector Development Program (“WSSP”).

WHEREAS after being satisfied with the objectives of the WSSP II, parties to this Memorandum have expressed their willingness to participate fully in its implementation;

WHEREAS The WSSPII project development objective is to strengthen the capacity for the integrated water resources planning and management in the United Republic of Tanzania and improve access to water supply and sanitation services in an operationally efficient manner in Dar es Salaam. The project has four components namely: Integrated Water Resources Management, Dar es Salaam Water Supply improvement, Dar es Salaam Sanitation Improvement, and Project Management and Implementation support.

WHEREAS the project is being financed by IDA Credit through Investment Project Financing, the recipient has declared its commitment to the objectives of the Project.

WHEREAS on the other part DAWASA has committed itself to the principle of harmonization and strive for the highest degree of alignment with the Government’s budgetary and accountability systems and local financial framework so as to enhance effective implementation, reduce the administrative burden on the Government, and minimize transaction costs; and

NOW THEREFORE, the parties hereby agree to cooperate in coordinating the implementation of the off-grid water supply and sanitation part of WSSP II in accordance with the principles and procedures set forth in this MoU; provided, however, that in case of any conflict between the provisions of this MoU AND THE PROJECT Financing Agreement, the provisions of the Financing Agreement shall prevail.

1. DEFINITIONS

Unless the context otherwise requires, several terms defined in the Preamble of this MoU have the respective meanings set forth therein, and the additional terms referred to below have the following meanings:

1. **Off Grid water supply** means the activities which will provide water supply services to people of Dar es Salaam, who are not connected to the formal network. The proposed solutions include decentralized Interventions, which may be an interim measure to be integrated to the grid network as it expands in the future. Schemes to be implemented include mostly independent water supply distribution systems supplied from point sources (e.g boreholes) or a bulk water supply from the DAWASA distribution system. In areas where the existing grid network is not available, independent stand-alone Small Piped Water Supply (SPS) systems will be implemented. These projects, typically involve a source of water (for example, borehole), a community-based distribution system and water points at a community and/or household level. The operations and maintenance will be supported from the tariff collected from the users.
2. **Off-Grid Sanitation** means activities which will provide sanitation services in Dar es Salaam to areas without access to sewers. This activity will support installation of improved toilets; safe emptying and transportation of the waste to a treatment facility; and treatment and safe disposal of treated waste into the environment. This will include piloting decentralized systems and other new technology.
3. **Environmental and Social Management Framework or ESMF** means the framework dated September 2006, prepared by the Government and cleared by the International Development Association, setting forth an environmental and social screening process that will enable WSSP II Implementing Agencies to identify and assess potential adverse environmental and social impacts, and offset and reduce them to acceptable levels, or enhance positive impacts, and in accordance with which environmental and social management plans will be prepared by WSSP II Implementing Agencies.
4. **MKUKUTA II** Means the Government's National Strategy for Growth and Reduction of Poverty dated July 2010, covering the period from 2011 – 12 to 2016 – 17 and subsequent versions that may be introduced by GOT.
5. **Resettlement Policy Framework** or RPF means the governing framework dated September 2006, prepared by the Government and approved by the International Development Association, for land acquisition, resettlement and compensation under the WSDP, and in accordance with which resettlement action plans will be prepared,

as necessary, as the same may be amended from time to time with the concurrence of the International Development Association;

6. **WSSP Implementation Manual** means the Project Implementation Manual (PIM) specifying implementation arrangements for the Second WSSP, including institutional arrangements; procedures for procurement, disbursement of funds, financial management, environmental and social management, and monitoring and evaluation; and progress reporting requirements, including annexes to the said manual.
7. **Project Management Team** means a team set up by DAWASA for day to day management of the off-grid water supply sub-project. Same for management of off-grid sanitation sub-project.
8. **Facilitation Team** A team appointed by the Municipal Director of the respective Municipal Council from Dar es Salaam region for the purpose of facilitating the implementation of the Off-Grid water supply projects and Off- Grid Sanitation projects. The scope of their responsibility are detailed in the PIM and summarized in this MoU.

2. UNDERLYING PRINCIPLES

2.1 The MoW, DAWASA, RS and Municipalities agree that the following are the underlying principles that govern this partnership:

- (a.) Commitment to the fulfilment of the aspirations of the National Development Vision 2025;
- (b.) Compliance with defined budgeting, procurement and public financial management rules and regulations;
- (c.) Good governance and accountability of the Government to its citizens, including an active fight against corruption;
- (d.) Coordinating the implementation of the off-grid water supply and sanitation sub-projects cost effectively; and
- (e.) Each party executing its respective roles in a timely manner

3. GENERAL PROVISIONS

3.1 Purpose

This MoU outlines the responsibilities of the **MoW, DAWASA, RS and Municipalities** with respect to the implementation of off-grid water supply and sanitation sub-projects and sets forth common institutional, environmental and social measures, monitoring and evaluation, audit and reporting arrangements. The WSSP II Implementation Manual complements procedures and arrangements set out in this MoU.

3.2 **Status of the MoU**

This MoU is not intended to create any legally binding obligations and the parties take due cognizance of the separate sector laws and regulations between the Government Institutions, and this MoU is adopted pursuant to and subject to any such regulations. In case of any conflict between the provisions of this MoU and the project Financing Agreement, the provisions of the Financing Agreement shall prevail.

4. **OFF GRID WATER SUPPLY**

4.1. **Commitment**

The DAWASA declares its commitment to the objectives of the **Second Water Sector Support Project** and will act with due diligence and efficiency to facilitate the successful implementation of the projects. To this end, DAWASA, as an Implementing Agency will effectively carry out its roles and responsibilities in the implementation of the off-grid water supply and sanitation sub-projects as defined in the WSSP II Project Implementation Manual. The Ministry of Water, as the Responsible Agency for WSSP II will have overall responsibility for the coordination and implementation of the off-grid water supply and sanitation sub-projects.

4.2 **Institutional Arrangements**

The institutional framework for overseeing the implementation of the WSSP II comprises the following key bodies, as set out in the Sections below, and in greater detail in the WSSP Implementation Manual:

1. Ministry of Water;
2. Prime Minister's Office Regional Administration and Local Government;
3. Ministry of Health, Community Development, Gender, Elderly and Children
4. Municipal Councils
5. Beneficiary Communities ("BC");

4.2.1 **Ministry of Water (MoW)**

The MoW will be responsible for provision of overall coordination and oversight. The Ministry will also provide technical and administrative support in the implementation of WSSP II, including without limitation the following activities:

1. Coordinating and consolidating the quarterly WSSP II IFRs (Interim Financial Report); semi-annual and annual progress reports; and ensuring that funds earmarked for implementation of WSSP II activities are duly considered in the annual work plans

and budgets of the implementing agencies; and that the WSSP II procurement plans are consistent with WSSP II work plans and budgets;

2. Ensuring quality and consistency of the documents referred to in subparagraph (a) above prior to consolidation as indicated in the Programme Implementation Manual and submission to the Off-Grid WSS SC for discussion;
3. Monitoring the implementation of the Annual Work Plans and Budgets by the WSSP II Implementing Agencies, at least on quarterly basis;
4. Providing oversight on financial management, controls, audit and reports; and
5. Ensuring that management decisions made by the Off-Grid WSS Steering Committee are communicated to the Implementing Agencies, implemented and monitored.

4.2.2 DAWASA

DAWASA will be responsible for overall coordination and implementation of off grid water supply activities. The off-grid water supply shall be implemented under the Directorate of Infrastructure Development (for construction arrangements) in collaboration with the Communication Unit (for coordination arrangements). The Communication Unit will be generally responsible for:-

1. Coordinating inputs as required from other units within DAWASA such as Procurement, Technical Services, and Finance, etc.
2. Supervising and monitoring contracts / agreements
3. Setting up Sub-project Agreements with beneficiary communities
4. Monitoring and reporting overall progress of the off-grid water supply sub-component.
5. Reviewing and evaluating the operation and management of the water supply sub-projects.
6. The financial aspects for off- grid water supply sub-projects will be managed as per Project Implementation Manual VOLUME II, and
7. Overall supervision of off-grid water supply activities.

4.2.3 Municipal Councils (or DLGAs)

The five Dar es Salaam Municipal Councils, through their respective Urban Planning Department, Legal Unit, Municipal Health and Water Department, will be responsible for the following tasks:

1. Creating awareness and mobilization of the communities.

2. Each DLGA will form a Municipal Facilitation Team comprising different specialists from Water, Health, Education, Community Development departments that will be tasked to assist consultants/contractors/PO on implementation and operation of Off Grid Water Supply facilities in their respective areas.
3. DLGAs through Legal unit, Health and Water department will coordinate the formation of Water Supply by-laws and regulations and thereafter enforcing for sustainability of Off Grid Water Supply facilities.
4. DLGAs will be responsible for identification and facilitation of Land acquisition for construction of Off- Grid Water Supply facilities

4.2.4 WSS Steering Committee

Given the multiplicity of institutions with varying roles, a WSS Steering Committee (SC) will be set up under the project to ensure coordination, synergy, and dovetailing. This SC will be newly set up or be adopted from some of the other projects (for example, Dar es Salaam Metropolitan Development Program [DMDP]) which may have similar steering mechanisms. This steering committee will be chaired by the Head of the Water Sector from RS and DAWASA will provide the secretary to WSS SC.

The RS will chair the Off Grid WSS Steering Committee, which will be comprised of representatives from the DAWASA, RS, WRBO, MOW, DLGAs i.e Temeke, Ilala, Kinondoni, Kigamboni and Ubungo. The Steering Committee will be responsible for providing general oversight of the selection and approval of sub-projects for implementation by the Off-Grid Water Supply and Sanitation. The key responsibilities of the Off Grid WSS Steering Committee include:

1. Reviewing overall Off Grid Sanitation implementation arrangements
2. Reviewing and approving Off Grid Sanitation sub-project operational guidelines
3. Reviewing and approving Off Grid Sanitation sub-project proposals
4. Reviewing overall Off Grid Sanitation progress and performance and providing guidance for improvements if needed
5. Conflict Resolution as per PIM.

4.2.5 Beneficiary Community

At the project level, Beneficiary Community will be involved in the project appraisal, that includes identification of sources, selection of appropriate sites, kiosk locations, and

protection of water source and infrastructures. DAWASA will be responsible for the efficient operation and management of the water supply systems.

4.2.6 Private Operator

The Private Operator (PO) may be engaged if the expansion of DAWASA grid network is beyond five years away. The PO would primarily have as its members the households from the community, with an operating body selected by the members from among themselves, with additional membership from DAWASA/DLGA. The regulation of these systems, including the tariff, would be undertaken by EWURA, as part of the overall regulation of the sector in Dar es Salaam.

Private Operator will operate, maintain, and manage the scheme under contract with DAWASA.

The Private Operator shall be responsible for keeping and maintaining appropriate records of its business activities. These shall include:

1. Customer details
2. Operation and maintenance records including volume of water produced and sold
3. Asset register, work as executed records, manuals of plant and equipment
4. Condition and expected life of assets
5. The details of network expansions as up to standards.
6. The Private Operator shall prepare monthly and quarterly operation and maintenance
7. Reports for the completed off-grid water supply subproject
8. Billing and payment records
9. Business accounts and financial statement

In general, the Operation and Maintenance Reports will address such issues as:

1. Number of registered customers in the service area
2. Number of people in the service area and number of people served
3. Business plan and budget
4. Level of service; proposed and actual
5. Revenue and expenses, progress against budget
6. Customer satisfaction
7. Maintenance activities, breakdowns, failures
8. Availability of ground /reliable water sources
9. Availability for land resources for project activities
10. Manage non-revenue water in the business area

4.3 SELECTION CRITERIA

DAWASA, in consultation with the five municipalities Ilala, Temeke, Kinondoni, Kigamboni and Ubungu will identify communities which are eligible for the Off-Grid Water Supply sub-project under the WSSP II. The identification will follow the criteria below;

1. High population density
2. Low-income areas
3. Prevalence/risk of waterborne diseases
4. No wholesome water services
5. Near-trunk infrastructure
6. Availability of sufficient land for the interventions
7. Unplanned settlements
8. Community willingness

Each of these criteria will be allocated a score, and the communities prioritized according to their total score. Keeping in mind the decisions of other interventions (for example, The Dar es salaam Metropolitan Development Program - DMDP), WSSP-II will invest in those communities which have the highest need.

5.0 OFF-GRID SANITATION

5.1 Definition.

The Off-Grid Sanitation components will provide much needed improvements to wastewater management services in areas of Dar es Salaam that are not served by DAWASA network. These improvements will be realised as a result of construction of Off-Grid sanitation stand-alone projects such as Decentralized Waste Water Treatment Systems (DEWATSs), faecal sludge treatment facilities, and condominial/simplified sewerage. The Off-Grid Sanitation Services will address the lack of sanitation services in unserved areas.

5.2 Institutional Arrangements

A strategy to address the poor sanitation in Dar es Salaam requires clarity and coordination among the various institutions involved in the sector. However, institutional responsibility is fragmented and unclear, being divided between National Ministries, City Utilities, Municipal Organizations, Regulatory Authorities, Community-Based Organizations, the Informal Private Sector and sanitation users themselves.

Currently sanitation service delivery is undertaken by a mixture of Utilities, Municipalities and Regulators. DAWASA will be responsible for overall coordination and supervision of Off-Grid sanitation activities. Other institution as detailed in PIM are summarised below:

1. MoHCDGEC,
2. MoW,
3. RS,
4. DLGAs,
5. NGOs,
6. PO

5.2.1 Ministry of Water

Ministry of Water will be responsible with setting Policy and guidelines specific to FSM and overall project coordination and implementation support .

5.2.2 DAWASA

DAWASA will provide a foundation and resources for the overall implementation of Off-Grid Sanitation.

Directorate of Infrastructure Development will be the department within DAWASA responsible for overseeing the implementation of the WSSP II including Off-Grid Sanitation Sub component. The head of this department will report directly to the DAWASA Chief Executive Officer and will generally be responsible for:

1. Coordination of the Off-Grid Sanitation Steering Committee as well as establishing a general agenda and timetable for Steering Committee meetings with consultation with Steering Committee Chairperson and providing secretariat services.
2. Coordinating inputs as required from other Directorates within DAWASA such as Procurement, Infrastructure Development, and Finance, etc.
3. Signing, supervising and monitoring contracts / agreements
4. Setting up Sub-project Agreements with successful communities.
5. Monitoring and reporting overall progress of the Off-Grid Sanitation
6. Reviewing and evaluating the operation and management of the community sanitation schemes.

In support of Sub Component 3.2: a Sanitation coordination team led by PO-RALG - Regional Secretariat will be established to coordinate implementation of the Off- Grid sanitation services. The technical department in the municipalities in coordination with DAWASA will be responsible for implementation of the off-grid sanitation component. DLGAs through Health, Legal unit and Water departments will coordinate the formation or improvement of existing Sanitation by laws and regulations and thereafter enforcing them for the sustainability of Off Grid Sanitation facilities. Areas where these facilities will be built people will be required to connect. DLGAs will be responsible for identification and facilitation of Land acquisition for construction of Off- Grid Sanitation facilities, and management of Public toilets.

5.2.3 MoHCDGEC/MoW:
Policy and guidelines specific to FSM.

5.2.4 DLGAS under Regional Secretariat:

Roles and responsibilities of the DLGAs will include:

1. Creating awareness and mobilization of the community
2. Formulation of Municipal Facilitation Team comprised of specialists from Water, Health, Education, Community Development departments that will be tasked to assist consultants/Contractors/PO on implementation and operation of Off Grid Sanitation facilities
3. Coordination of the formation of Sanitation by-laws and regulations and thereafter enforcing them for sustainability of Off Grid Sanitation facilities through Legal unit, Health and Water Department
4. Identification and facilitation of land acquisition for construction of Off- Grid Sanitation facilities
5. Establish and capacitate the grievance redress mechanism (GRM) team
6. Monitor and evaluate project implementation, trouble shooting and responding to grievances raised by Grievance Redress Mechanisms (GRM) teams
7. Prepare and submit to WSS SC a monthly project implementation progress report

5.2.5 WSS Steering Committee

Given the multiplicity of institutions with varying roles, a WSS Steering Committee (SC) will be set up under the project to ensure coordination, synergy, and dovetailing. This SC will be newly set up or be adopted from some of the other projects (for example, Dar es Salaam Metropolitan Development Program [DMDP]) which may have similar steering mechanisms. This steering committee will be chaired by the Head of the Water Sector from RS and DAWASA will provide the secretary to WSS SC.

The RS will chair the Off Grid WSS Steering Committee, which will be comprised of representatives from the DAWASA, RS, WRBO, MOW, DLGAs i.e Temeke, Ilala, Kinondoni, Kigamboni and Ubungo. The Steering Committee will be responsible for providing general oversight of the selection and approval of sub-projects for implementation by the Off-Grid Water Supply and Sanitation. The key responsibilities of the Off Grid WSS Steering Committee include:

1. Reviewing overall Off Grid Sanitation implementation arrangements
2. Reviewing and approving Off Grid Sanitation sub-project operational guidelines
3. Reviewing and approving Off Grid Sanitation sub-project proposals

4. Reviewing overall Off Grid Sanitation progress and performance and providing guidance for improvements if needed
5. Conflict Resolution as per PIM.

5.2.6 Private Operator (PO):

The domestic private sector will be a major institution which will require to be involved for sanitation in low-income settlements. Their involvement will include approaches to empty faecal sludge from latrine pits and septic tanks. This could be through vacuum trucks, or in areas where access is difficult, small 'gulper' technologies.

Private Operator will form the basic unit for planning and eventually operating and managing the community-based sanitation schemes implemented under the off-grid sanitation. Off-grid sanitation POs, will be responsible for:

1. Possession of necessary registration as per requirements.
2. Undertaking training and development in operations and maintenance, financial management, monitoring and reporting.
3. Operating and maintaining the off-grid sanitation Scheme in a sustainable manner and providing equitable access to the service for everyone in the community
4. Maintaining adequate records and reporting on technical and financial performance to DLGAs and DAWASA.

5.2.7 NGOs/ Consultant:

NGO will be responsible for Capacity building, mobilization of community; media campaigns

DAWASA will contract with a reputable NGO active in the DAWASA service area as implementing agents for the off- grid Sanitation. The key roles of the off-grid sanitation NGO include:

1. Mobilising community groups to identify all sanitation needs and raising awareness within community groups about sanitation issues.
2. Assisting community members to obtain legal status if required and to set up the necessary bank accounts, for the community to qualify for funding from micro finance institution for toilet improvements.
3. Undertaking a needs analysis and preparing a subproject proposal design, budget, impact assessment, operational and maintenance of the sanitation facility
4. Preparing subproject proposals in association with the community members for consideration by the off-grid sanitation Steering Committee.
5. Sensitization and training of POs to operate, maintain, and manage off-grid sanitation systems.

6. Assisting DAWASA to develop suitable O&M guidelines/manuals and financial management guidelines for use by the POs in operating and managing the completed schemes.

5.3 SELECTION CRITERIA

DAWASA, in consultation with the five municipalities Ilala, Temeke, Kinondoni, Kigamboni and Ubungo will identify communities which are eligible for Off-Grid Sanitation sub-project under the WSSP II, in the eligible project area using the criteria mentioned in the PIM. The criteria will include the availability of land resources for the project activities as additional criteria.

Each of these criteria will be allocated a score, and the communities prioritized according to their total score. Keeping in mind the decisions of other interventions (for example, DMDP), WSSP-II will invest in those communities, which have the highest need.

The five municipalities will be the focal point for planning, prioritizing, and implementing the off-grid sanitation in their areas. A comprehensive master sanitation plan, based on empirical data and evidence, will form the basis for this planning and implementation.

The results of the ongoing efforts to map the city on the said indicators, will form the basis for the planning efforts by the stakeholders.

Summary of Institutional Roles for Sanitation Provision

| | |
|-----------------|--|
| MoH/MoW/PO-RALG | Policy and guidelines specific to FSM |
| MoW | Overall project coordination and implementation support |
| EWURA | Regulate performance of DAWASA |
| DAWASA | Facilitating the establishment and operation of treatment facilities (FSM and the like and facilitating the development of options for transportation and treatment of this waste, establishment and management of public toilets; regulating the services of transporters |
| Municipalities | Facilitating the upgrading of unimproved household toilets to improved ones and regulation of waste disposal; facilitating the availability of land for decentralized systems; provide licenses to private transport operators |
| Private sector | Development of infrastructure for transportation and treatment, operation |
| NGOs | Capacity building, mobilization of community; media campaigns |

| | |
|------|---|
| TBS | Setting up of standards for effluent disposal |
| NEMC | Regulation of disposal of effluent |

6.0 EFFECTIVENESS AND DURATION OF MoU

- 6.1. This MoU will become effective on the date of signature by all parties.
- 6.2. This MoU shall remain in force until end Closure of the Second WSSP, or as shall be mutually agreed by the parties hereto.

7.0 AMENDMENTS

This MoU may be amended at any time with the written agreement of the parties hereto.

8.0 CONFLICT RESOLUTION

In the event of any differences arising with respect to the provisions of this MoU, the parties will endeavour to find a solution through dialogue and consultation.

9.0 INFORMATION AND NOTICES

- 9.1. The parties to this MoU will furnish to each other all such information in relation to the WSSP II as will be reasonably requested in a timely manner.
- 9.2. Any notices or documents given, made or sent by the parties in relation to this MoU will be in writing and will be deemed to have been duly given, made or sent to the organization or person to which it is addressed at the time of its delivery by hand, mail, or courier at its respective address, as listed in this MoU.
- 9.3. Any party hereto may, by written notice to the other parties, change the address to which any notice or request for the Participant so giving such notice will be addressed.
- 9.4. All communications and documents submitted to any party and by any part will be in the English language.
- 9.5. The following addresses are specified for purposes of Section 16.2.

9.6 FOR THE PARTIES

Permanent Secretary

Ministry of Water

Address

Tel:

E-mail:

Chief Executive Officer

DAWASA

Address

Tel:

E-mail:

Region Administrative Secretary

Dar es Salaam Region

Address:

Tel:

E-mail:

Municipal Director

Temeke Municipal Council

Address:

Tel:

E-mail:

Municipal Director

Ilala Municipal Council

Address:

Tel:

E-mail:

Municipal Director

Kinondoni Municipal Council

Address:

Tel:

E-mail:

Municipal Director

Ubungo Municipal Council

Address:

Tel:

E-mail:

Municipal Director

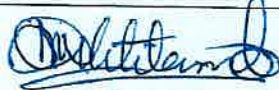

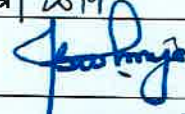

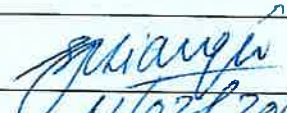

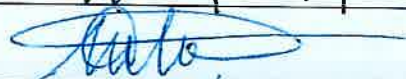

Kigamboni Municipal Council

Address:

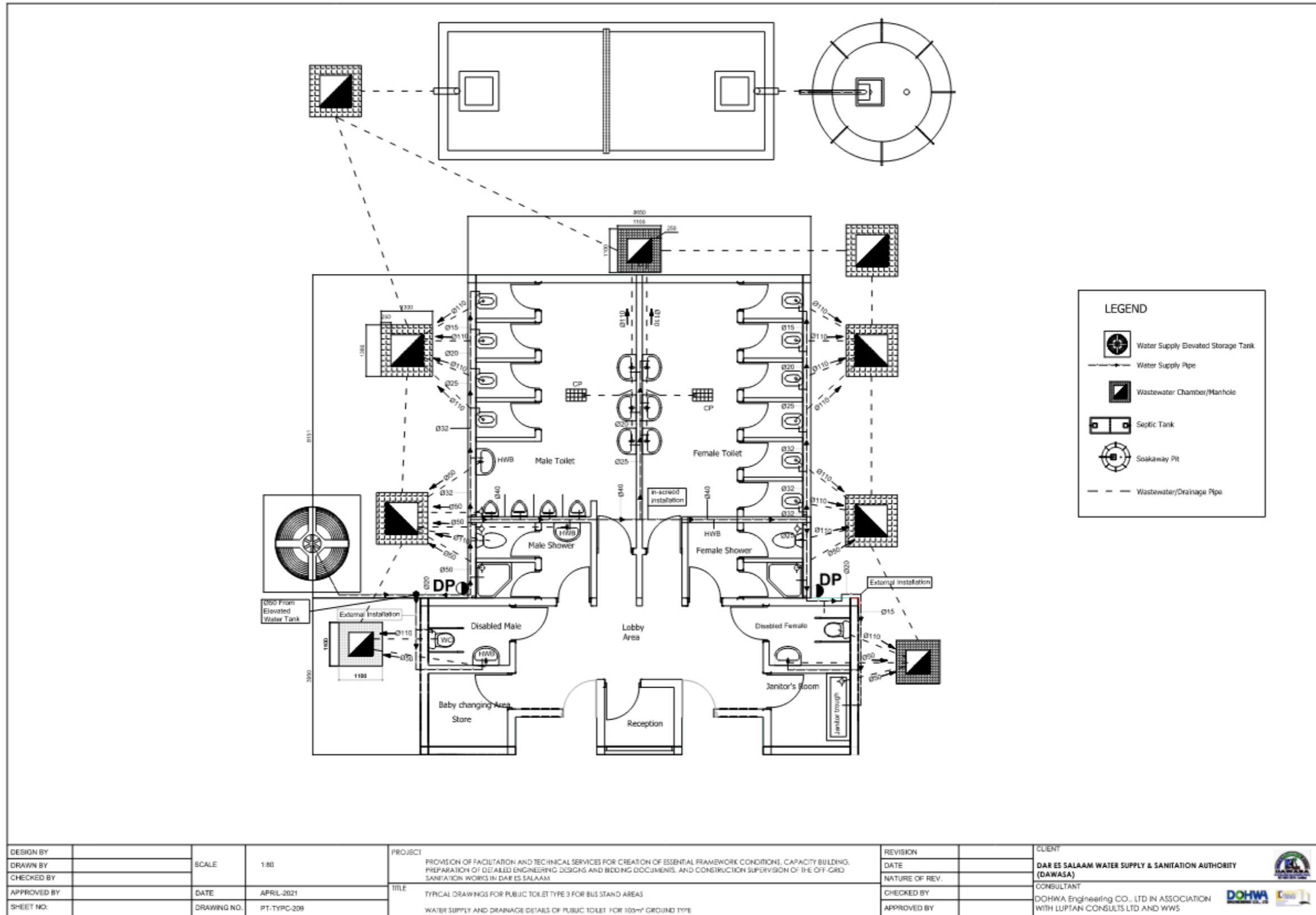
Tel:

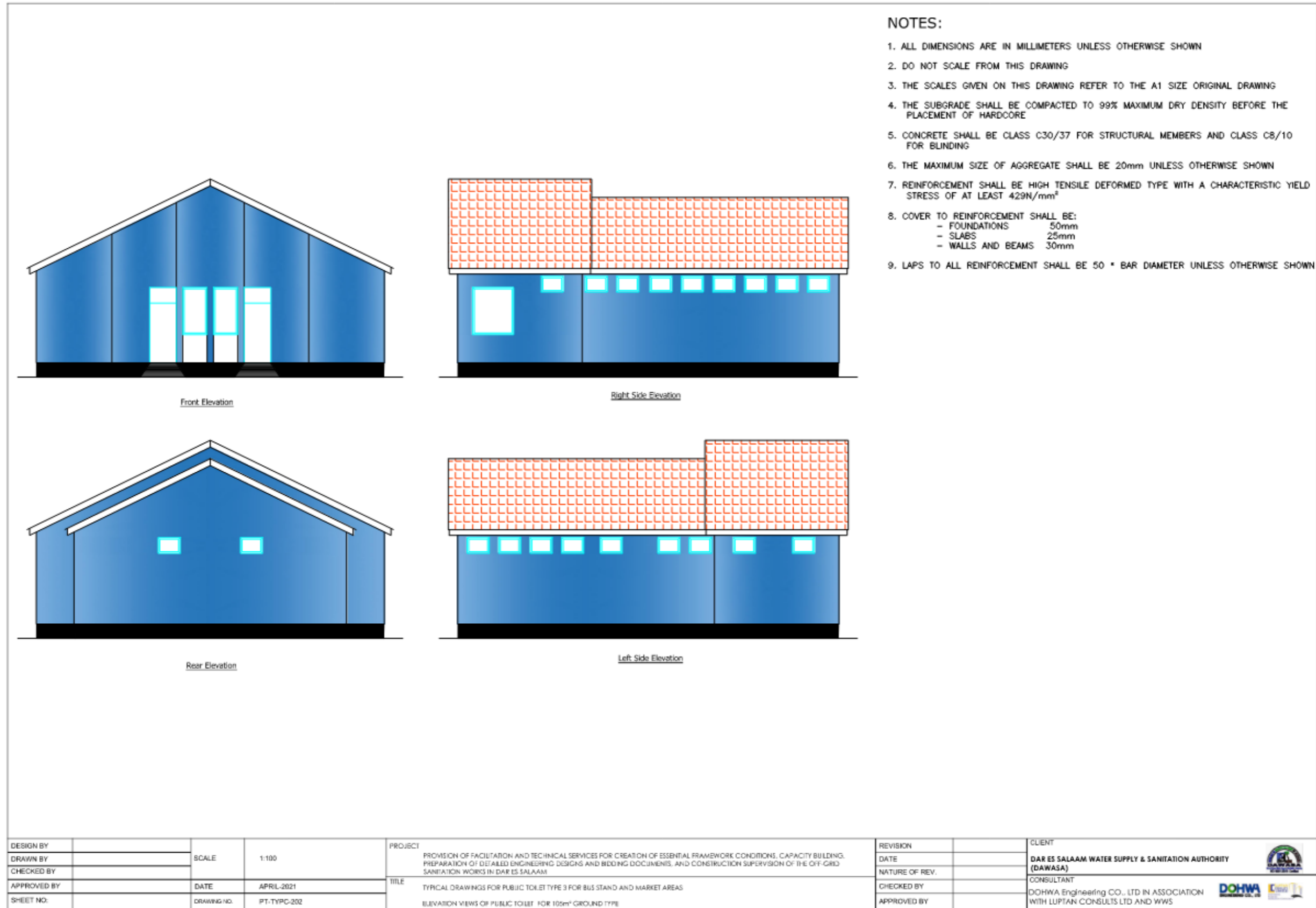
E-mail:

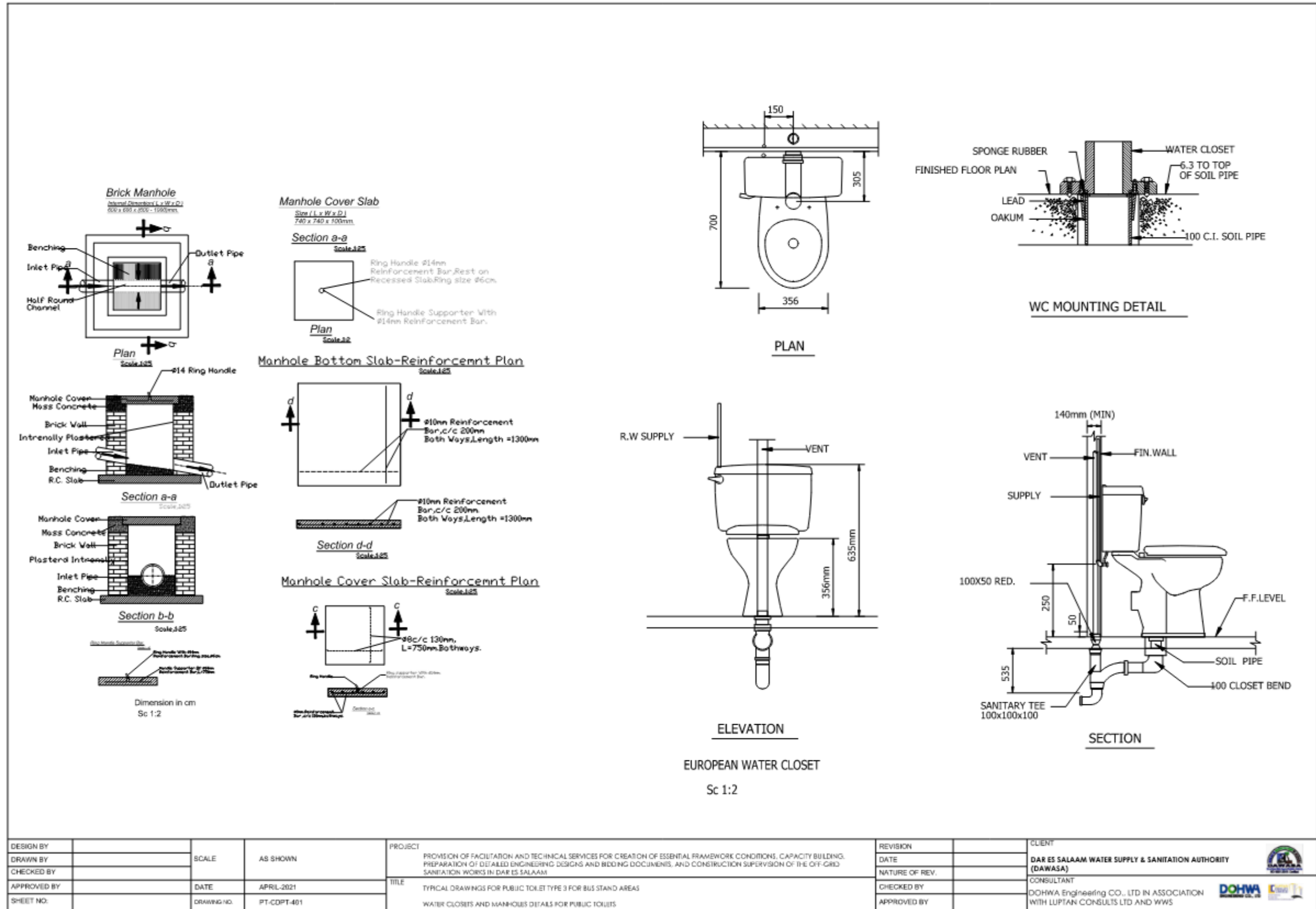
Signed by the duly authorized representatives of the parties as hereunder:

| | |
|--|--|
| Permanent Secretary Ministry of Water |  |
| | Date 18/2/2019 |
| Regional Administrative Secretary Dar es Salaam |  |
| | Date 1/2/2019 |
| CEO DAWASA |  |
| | Date 23.01.2019 |
| Municipal Director Temeke |  |
| | Date |
| Municipal Director Ilala |  |
| | Date 11/02/2019 |
| Municipal Director Ubungo |  |
| | Date 07/02/2019 |
| MD Kinondoni |  |
| | Date 07/02/2019 |
| Municipal Director Kigamboni |  |
| | Date 09/02/2019 |

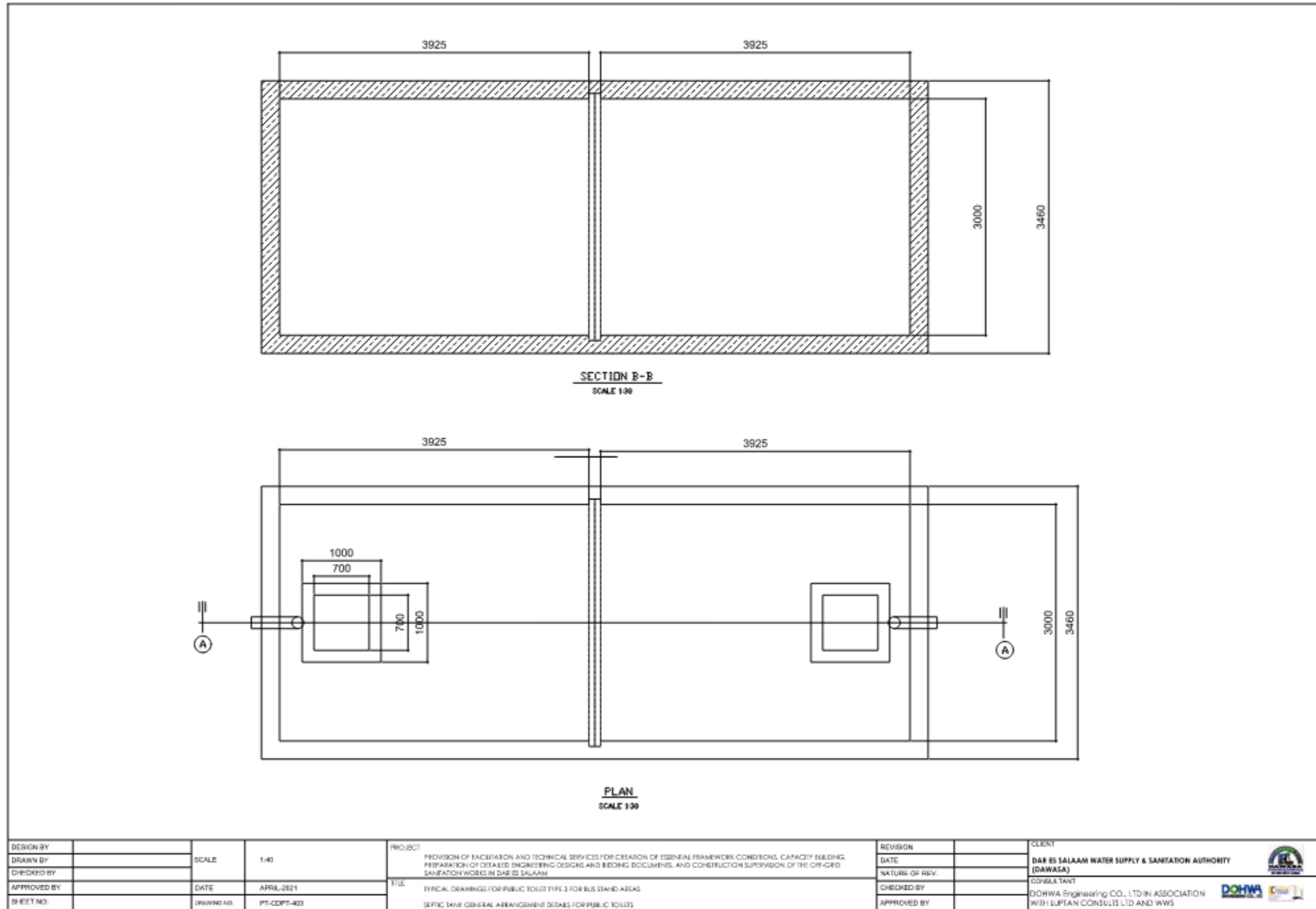
Appendix V: Approved Architectural Drawings

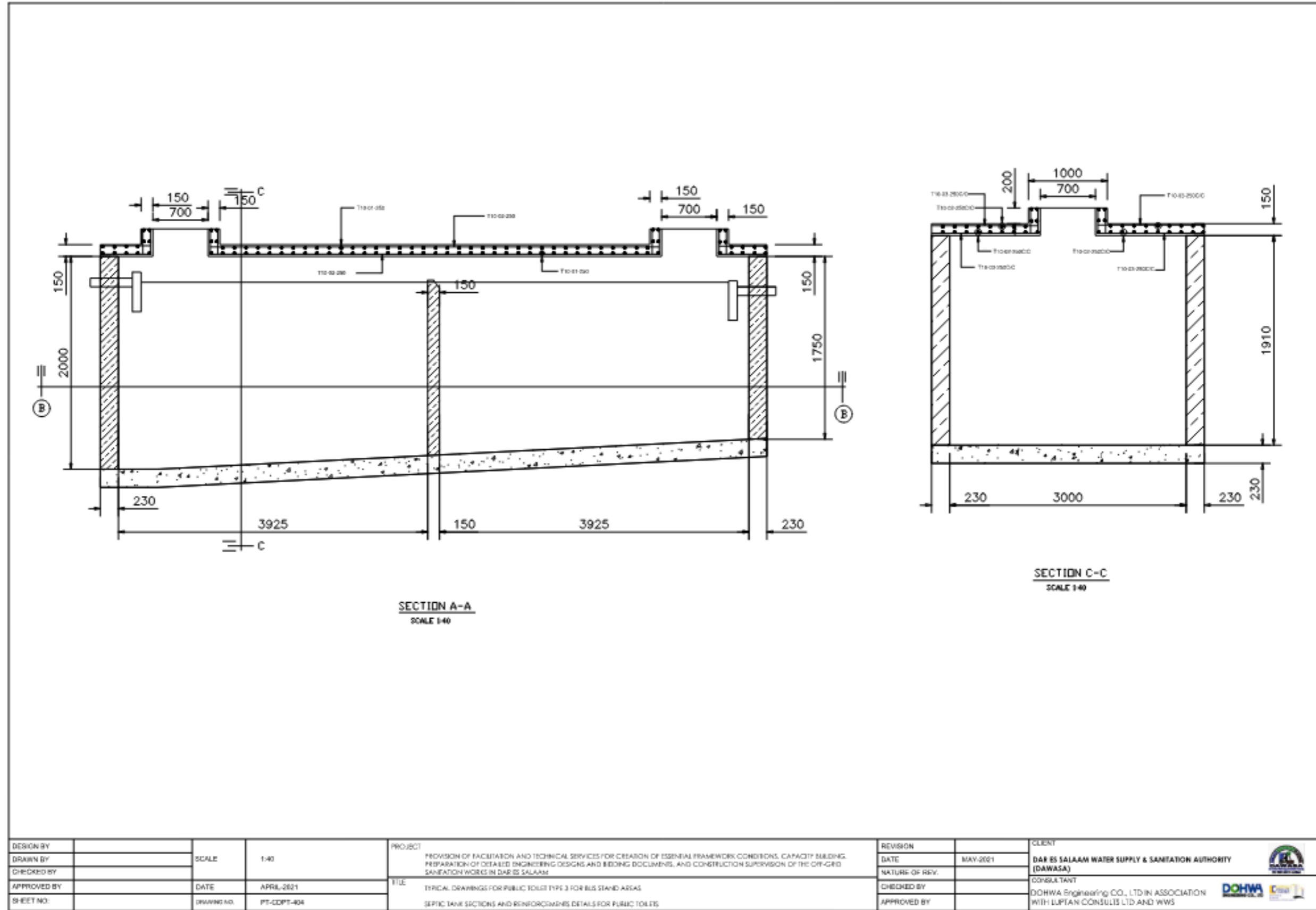


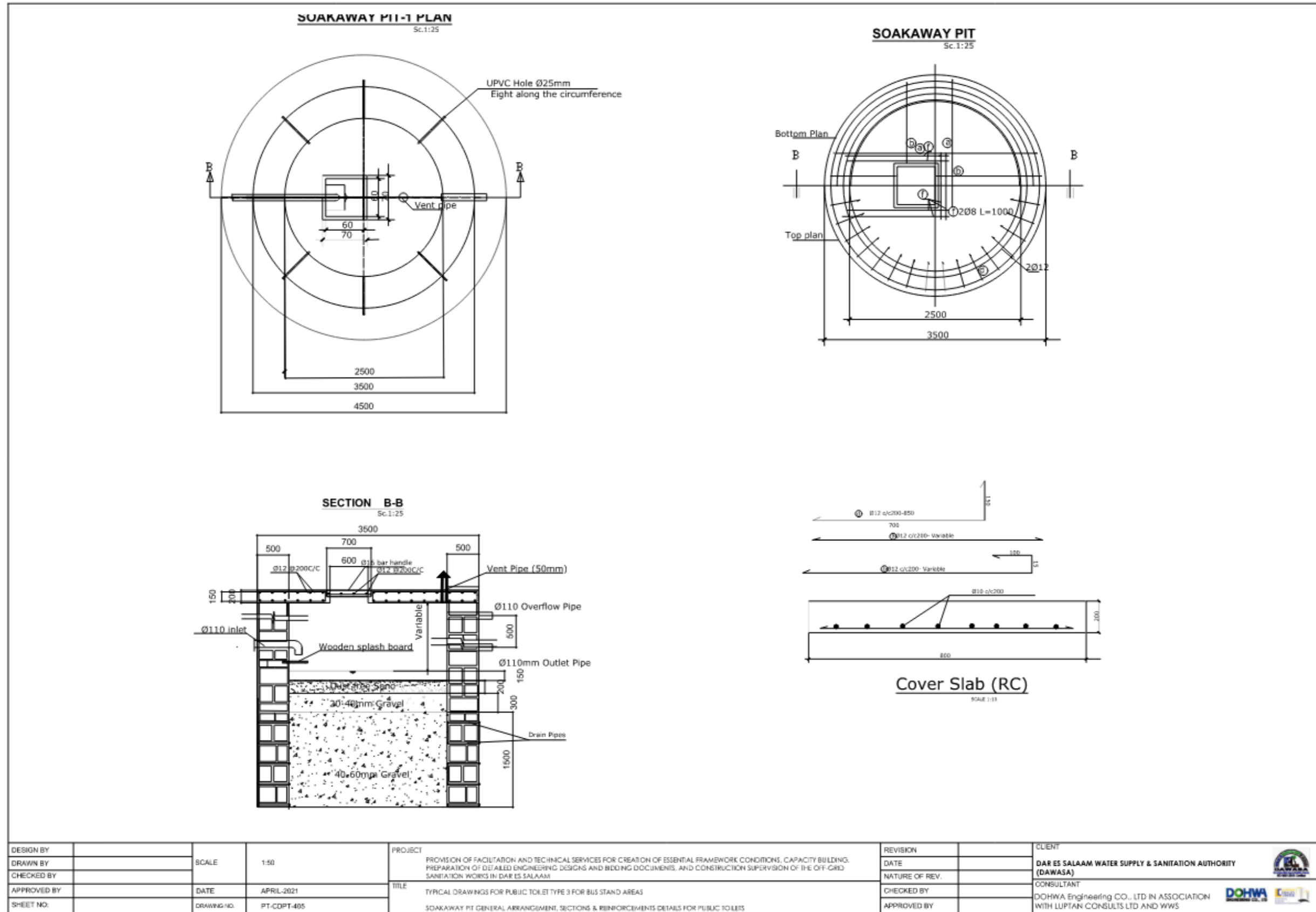




| | | | | | | | | | |
|-------------|--|-------------|-------------|---------|---|----------------|--|------------|--|
| DESIGN BY | | SCALE | AS SHOWN | PROJECT | PROVISION OF FACILITATION AND TECHNICAL SERVICES FOR CREATION OF ESSENTIAL FRAMEWORK CONDITIONS, CAPACITY BUILDING, PREPARATION OF DETAILED ENGINEERING DESIGNS AND BIDDING DOCUMENTS, AND CONSTRUCTION SUPERVISION OF THE OFF-GRID SANITATION WORKS IN DAR ES SALAAM | REVISION | | CLIENT | DAR ES SALAAM WATER SUPPLY & SANITATION AUTHORITY (DAWASA) |
| DRAWN BY | | DATE | APRIL-2021 | TITLE | TYPICAL DRAWINGS FOR PUBLIC TOILET TYPE 3 FOR BUS STAND AREAS | DATE | | CONSULTANT | DOHWA Engineering CO., LTD IN ASSOCIATION WITH LUPTAN CONSULTS LTD AND WWS |
| CHECKED BY | | DRAWING NO. | PT-CDPT-401 | | WATER CLOSETS AND MANHOLES DETAILS FOR PUBLIC TOILETS | NATURE OF REV. | | | |
| APPROVED BY | | | | | | CHECKED BY | | | |
| SHEET NO. | | | | | | APPROVED BY | | | |







Appendix VI: Non-Technical Summary

THE UNITED REPUBLIC OF TANZANIA



MINISTRY OF WATER



Dar es Salaam Water Supply & Sanitation Authority

DAWASA Building, Dunga/Malaga Street, Mwananyamala Area

P. O. Box 1573, Dar es Salaam. TANZANIA.

Tel. +25522276006/15; Fax: +255222762480; E-mail: dawasaceo@dawasa.co.tz

Provision of Consultancy Services for Preparation of Environmental and Social Impact Assessment (ESIA) and Resettlement Action Plan (RAP) Report for Construction of Off Grid Sanitation Projects

Ref No: TZ-DAWASA-91652-CS-QCBS

Comprehensive Project Brief for the Proposed Public Toilet to be Built at Kampochea Market, Charambe Ward, Temeke Municipality, Dar es Salaam Region

NON-TECHNICAL EXECUTIVE SUMMARY (English and Kiswahili Versions)

Submitted to:

National Environment Management Council,

Head Office, Kambarage Tower, 6th Floor, P. O. Box 2724, Dodoma.

Phone: +255 262960098, 0713608930,

Email Address: nemcdg@nemc.or.tz

Website: www.nemc.or.tz

Lead Consultant:

Prof. Rubhera RAM Mato (PhD), CEng. (T), Reg. EIA Expert

Mobile: +255754898592; E-Mail: rubheramato@gmail.com

25th November 2020

NON-TECHNICAL EXECUTIVE SUMMARY
**Comprehensive Project Brief for the Proposed Public Toilet to be built at
Kampochea Market, Charambe ward, Temeke Municipality in Dar es
Salaam Region**

Proponent: Dar es Salaam Water Supply & Sanitation Authority

Proponent's Contact: DAWASA,
DAWASA Building, Dunga/Malaga Street,
Mwananyamala Area
P. O. Box 1573, Dar es Salaam. TANZANIA.
Tel. +25522276006/15; Fax: +255222762480;
E-mail: dawasaceo@dawasa.co.tz

EIA Expert: Prof. Rubhera RAM Mato (PhD), CEng. (T), Reg. EIA Expert
P. O BOX 35478, Dar es Salaam, Tanzania
Mobile: +255754898592
E-Mail: rubheramato@gmail.com

INTRODUCTION

The Government of the United Republic of Tanzania (GoT) through the Dar es Salaam Water and Sewerage Authority (DAWASA) under the Ministry of Water intends to implement an Off Grid Sanitation Project (OGSP) in Dar es Salaam City to serve peri-urban areas not connected to the central sewerage system. DAWASA has received financing from the International Development Association (IDA) in the form of a credit to implement the project. Prior to implementing the project, the law in Tanzania requires an Environmental Impact Assessment to be conducted and approved by relevant authority. In order to comply with the law in Tanzania, the DAWASA intends to apply a portion of the proceeds of the credit to eligible payments for consulting services for Preparation of Environmental and Social Impact Assessment (ESIA) and Resettlement Action Plan (RAP) Report for construction of off grid sanitation projects.

The Off-Grid project is intended to address these challenges. The Off-Grid project is divided into several subprojects which will be implemented in the five municipalities of Dar es Salaam City. One of these is the Construction of a

Public Toilet at Kampochea Market, Temeke Municipality. The toilet will mostly serve the people who are using market for business (Traders and their customers), food vendors (Mamantilie) and passersby.

POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

Tanzania is committed to attaining sustainable development goals. This urge is envisaged in the National Environmental Policy and other sectoral policies including;

- National Environment Policy, 2021
- National Land Policy of 1997
- Construction Industry Policy (2003)
- National Health Policy (2003)
- National Gender Policy of 2000
- National Human Settlements Development Policy (2000)

Important laws and regulations that have relevance to road development in respect of environmental management include;

- Environmental Management Act (2004)
- The Environmental Management (Fees and Charges) Regulations, 2021
- The Environmental Management (Control of hazardous Waste) regulations, 2021
- The Environmental Management (Control of Noise and vibration) regulations, 2015
- The Environmental Management (Prohibition of Plastic Carrier bags) regulations, 2019
- The Environmental Management (Solid Waste Management) regulations, 2007
- The Environmental Management (Water Quality) regulations, 2009
- The Environmental Management (Air Quality) regulations, 2009
- The Environmental Management (Soil Quality) regulations, 2009
- Occupational Health and Safety Act 2003
- The Water Supply and Sanitation Act No. 12 of 2009

- Engineers Registration Act and its Amendments 1997 and 2007
- The Contractors Registration (Amendment) Act, 2008
- The Architects and Quantity Surveyors Act (1997)
- The Urban Planning Act (2007)
- Public Health Act (2009)
- World Bank guidelines for Environmental Management

PROJECT DESCRIPTION

The main land use at the proposed project site include; warehouses, fenced private plots, existing public toilet, Food vendors and access road to the existing toilet.

The major construction activities for the sub-projects include;

- **Site Clearance:** The contractor shall clear the construction areas within the site of all boulders, natural obstructions, rubbish and any other natural or artificial obstructions, which would interfere with construction of buildings, roads, paths and drains.
- **Excavation:** Excavations for foundations and the reinforced concrete structure shall be to the widths, depth and levels to accommodate the structure shown on the drawings. Working space has been allowed for in the measurement of excavation quantities given in these Bills of Quantities in accordance with the rules of measurement laid down elsewhere in these Bills, namely 1.00 metre from the face of any work which requires formwork over 1m deep below the starting level of excavation, and 0.30 metre from face of any work which requires formwork not exceeding 1-metre-deep below starting level of excavation.
- **Filling:** The fill shall be clean, selected coarse sand or gravel. It should be taken from borrow pits if the soil on the site is found to contain too much fines and to have too low plasticity limit to be used as fill.
- **Soil Sterilization:** Anti-termite treatment is to be carried out by an approved specialist firm who will be required, upon completion of the soil sterilization, to furnish a written qualifying guarantee which includes; the chemicals applied comply with the requirements and concentration,

the treatment will remain effective against termite infestation for a period of five years as well as free re-treatment by the firm of any areas showing signs of infestation before the expiry of the five-year period.

- Disposal of surplus excavated material: Surplus excavated material will be carted away from the vicinity of the walls and deposited, spread and levelled on areas to be allocated by the Structural Engineer, reasonably adjacent to the site.
- Concrete work:
- Steel fixing and Formwork preparation:

PROJECT ENVIRONMENT

Project site

The project site is located at Rangitatu Mtaa, Charambe ward, Temeke Municipal within Dar es Salaam Region. The site is 14 Kilometers from Dar es Salaam city centre via Kilwa road.

The site area lies in the tropical coastal bely of Tanzania and is influenced by two major climatic seasons, namely rainfall and temperature. Rainfall pattern is that of bimodal type with erratic conventional rains. The monsoon rains occurring almost throughout the Municipality between December and February, While the long heavy rains in the period from March to June, the amount of rainfall received ranges from 800-1200mm per annum. Temperature just like rainfall is also influenced by ocean. High temperature prevails throughout the year ranging from 25⁰C during the period of June to August up to 35⁰C in the period of January to March.

Water sources

Groundwater is abundant in almost the entire Dar es salaam City. This is evidenced by the fact that shallow wells are one of the sources of domestic water supply for most of the households around the project site and therefore the water table is high.

Air quality and Noise level

The air quality observations indicate that the general air quality in the project area is good as there is no any strange activity contributing to air pollution.

However, seasonal variation as well as localized and temporal deterioration in air quality does occur.

On the other hand, noise level at the project area is mainly due to moving vehicle along the road, moving air (wind) or rain and birds. Project activities during construction will change patterns and amplitude of noise in the project area.

Vegetation

The proposed project site is characterized with a few artificial vegetation including senna seamea and some few neem plants at the vicinity of the project site.

PROJECT STAKEHOLDERS AND INVOLVEMENT

A simple methodology was adopted to identify key stakeholders and main environmental and social concerns. This involved physical observations and consultations (direct consultations). Other information on the project was obtained through a desk study.

During the conduction of this study, different stakeholders were consulted. Among these include the Temeke Municipal Council and community at Kampochea market. During the meeting, the consultant gave a brief explanation on the proposed public toilet.

POTENTIAL SIGNIFICANT ENVIRONMENTAL AND SOCIAL IMPACTS

The impacts are categorized into Mobilization phase impacts, Construction phase impacts, and Operational phase impacts. The main receptors of impacts associated with the anticipated Construction of a Public Toilet at Kampochea Market, Charambe ward in Temeke Municipality include physical resources (groundwater quality, soils, air quality, and noise); ecological resources (vegetation); material assets, public health, and safety, aesthetics, and landscape.

The following impacts were identified to be likely to occur during Mobilization Phase

- Employment opportunities

- Noise pollution
- Air Pollution from dust emission

The following impacts were identified to be likely to occur during Construction Phase

- Employment opportunities
- Improved living conditions and economic growth
- Improved public health
- Increased socio-cultural interaction
- Increased Revenue to the nation through taxes, both direct and indirect
- Increased HIV/AIDS and other sexual related diseases:
- Destruction and infringement of properties
- Noise pollution
- Air Pollution from dust emission
- Potential communicable diseases transmission
- Smells and flies in toilets
- High Risk of Health associated with construction work
- Waste generation during construction
- Groundwater contamination from soil sterilization

The following impacts were identified to be likely to occur during Operation Phase

- Improved social-economic livelihood and dignity within the beneficiary society
- Increased Revenue to the nation through taxes, both direct and indirect
- Smells and flies in toilets

PREVENTION AND MANAGEMENT OF ACCIDENTS DURING IMPLEMENTATION STAGE

The project shall be implemented in compliance to labour laws in Tanzania, in particular, the Occupational Health and Safety Act (2003). Clauses to protect

the health and safety of workers shall be included in the contract documents for implementation stage which includes the following; provision and enforcement of the use of appropriate personal protective equipment for all workers e.g. overalls, gloves, masks, etc. (wherever required), presence of the emergency preparedness plan in place prior to commencement of construction activities as well as ensuring security matter of the site by fencing the whole project area and provide gates for entrance and exit purpose.

MITIGATION MEASURES AND ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

The options to minimize or prevent the identified adverse social and environmental impacts as well as a monitoring plan have been suggested in this report and are contained in the ESMP. Many of them are based on good engineering practices and the timely responsiveness of the responsible institution. The ESMP describes the implementation schedule of the proposed mitigation measures as well as planning for long-term monitoring activities. It defines the roles and responsibilities of different actors of the plan. The Approach environmental and social costs amount to TSH 10,000,000 (Excluding the costs that will appear in then (BOQ) and resettlement exercise. The estimated annual costs for carrying out the proposed environmental and social motoring program amounts to TSH 24,000,000.

CONCLUSION

It is, therefore, concluded that implementation of the proposed construction of Public toilets Kampochea market, Rangitatu Mtaa, Charambe ward in Temeke Municipality will entail no detrimental impacts provided that the recommended mitigation measures are adequately and timely put in place. The identified adverse impacts shall be managed through the proposed mitigation measures and implementation regime laid down in this EIS. DAWASA is committed to implementing all the recommendations given in the EIS and further carrying out the environmental auditing and monitoring schedules.

MUHTASARI USIOKUWA WA KITAALAMU

Muhtasari wa Mradi wa Mapendekezo ya Choo cha Umma kujengwa katika Soko la Kampochea kata ya Charambe Manispaa ya Temeke mkoani Dar es Salaam.

Mmiliki: Mamlaka ya Majisafi na Usafi wa Mazingira Dar es Salaam

Mawasiliano ya Mmiliki: DAWASA,

DAWASA Building, Dunga/Malaga Street,
Mwananyamala Area

S.L.P 1573, Dar es Salaam. TANZANIA.

Simu :. +25522276006/15; Fax: +255222762480;

Barua Pepe: dawasaceo@dawasa.co.tz

Mshauri Muelekezi: Prof. Rubhera RAM Mato (PhD), CEng. (T), Reg.
EIA Expert

S.L.P 35478, Dar es Salaam, Tanzania

Simu: +255754898592

Barua Pepe: rubheramato@gmail.com

UTANGULIZI

SERIKALI ya Jamhuri ya Muungano wa Tanzania (GoT) kupitia Mamlaka ya Majisafi na Majitaka Dar es Salaam (DAWASA) chini ya Wizara ya Maji inatarajia kutekeleza Mradi wa Usafi wa Mazingira wa Nje (OGSP) katika Jiji la Dar es Salaam ili kuhudumia maeneo ya pembezoni mwa miji. haijaunganishwa na mfumo mkuu wa maji taka. DAWASA imepata ufadhili kutoka kwa Jumuiya ya Maendeleo ya Kimataifa (IDA) ikiwa ni mkopo wa kutekeleza mradi huo. Kabla ya kutekeleza mradi huo, sheria nchini Tanzania inataka Tathmini ya Athari kwa Mazingira ifanywe na kuidhinishwa na mamlaka husika. Ili kuzingatia sheria nchini Tanzania, DAWASA inatarajia kutumia sehemu ya mapato ya mikopo kwa malipo stahiki kwa ajili ya huduma za ushauri kwa ajili ya Maandalizi ya Tathmini ya Athari kwa Mazingira na Kijamii (TAM) na Ripoti ya Mpango Kazi wa Makazi Mapya (RAP) kwa ajili ya ujenzi. ya miradi ya usafi wa mazingira nje ya gridi ya taifa.

Mradi huu unakusudiwa kutatua changamoto hizi. Mradi wa Off-Grid umegawanywa katika miradi midogo kadhaa ambayo itatekelezwa katika manispaa tano za Jiji la Dar es Salaam. Mojawapo ni Ujenzi wa Choo cha Umma katika Soko la Kampochea, Manispaa ya Temeke. Choo hicho kitahudumia zaidi watu wanaotumia soko kwa biashara (Wafanyabiashara na wateja wao), wauzaji wa vyakula (Mamantilie) na wapita njia.

SERA, MFUMO WA SHERIA NA TAASISI

Tanzania imejitolea kufikia malengo ya maendeleo endelevu. Msukumo huu unazingatiwa katika Sera ya Taifa ya Mazingira na sera nyingine za kisekta zikiwemo;

- Sera ya Kitaifa ya Mazingira, 2021
- Sera ya Taifa ya Ardhi ya mwaka 1997
- Sera ya Sekta ya Ujenzi (2003)
- Sera ya Taifa ya Afya (2003)
- Sera ya Taifa ya Jinsia ya 2000
- Sera ya Taifa ya Maendeleo ya Makazi (2000)

Sheria na kanuni muhimu ambazo zina umuhimu kwa maendeleo ya barabara kuhusiana na usimamizi wa mazingira ni pamoja na;

- Sheria ya Usimamizi wa Mazingira (2004)
- Kanuni za Usimamizi wa Mazingira (Ada na Ada) za 2021
- Kanuni za Usimamizi wa Mazingira (Udhibiti wa Taka hatarishi), 2021
- Kanuni za Usimamizi wa Mazingira (Udhibiti wa Kelele na Mtetemo), 2015
- Kanuni za Usimamizi wa Mazingira (Marufuku ya Mifuko ya Kubeba Plastiki), za 2019
- Kanuni za Usimamizi wa Mazingira (Udhibiti wa Taka Ngumu), 2007
- Kanuni za Usimamizi wa Mazingira (Ubora wa Maji), 2009
- Kanuni za Usimamizi wa Mazingira (Ubora wa Hewa), 2009
- Kanuni za Usimamizi wa Mazingira (Ubora wa Udongo), 2009
- Sheria ya Afya na Usalama Kazini ya 2003
- Sheria ya Ugavi wa Maji na Usafi wa Mazingira Na. 12 ya 2009
- Sheria ya Usajili wa Wahandisi na Marekebisho yake ya 1997 na 2007

- Sheria ya Usajili wa Makandarasi (Marekebisho) ya mwaka 2008
- Sheria ya Wabunifu na Wakadiriaji Majenzi (1997)
- Sheria ya Mipango Miji (2007)
- Sheria ya Afya ya Umma (2009)
- Miongozo ya Benki ya Dunia ya Usimamizi wa Mazingira

MAELEZO YA MRADI

Matumizi makuu ya ardhi katika eneo la mradi unaopendekezwa ni pamoja na; maghala, viwanja vya watu binafsi vilivyozungushiwa uzio, vyoo vya umma vilivyopo, wachuuzi wa vyakula na barabara ya kuingilia kwenye choo kilichopo. Shughuli kuu za ujenzi wa miradi midogo ni pamoja na;

- **Usafishaji wa Maeneo:** Mkandarasi atasafisha maeneo ya ujenzi ndani ya tovuti ya mawe yote, vizuizi vya asili, takataka na vizuizi vyovyote vya asili au vya bandia, ambavyo vitaingilia ujenzi wa majengo, barabara, njia na mifereji ya maji.
- **Uchimbaji:** Uchimbaji wa misingi na muundo wa saruji iliyoimarishwa utakuwa wa upana, kina na ngazi ili kuzingatia muundo ulioonyeshwa kwenye michoro. Nafasi ya kufanyia kazi imeruhusiwa kwa ajili ya kupima kiasi cha uchimbaji kilichotolewa katika Miswada hii ya Viwango kwa mujibu wa kanuni za kipimo zilizowekwa mahali pengine katika Miswada hii, yaani mita 1.00 kutoka eneo la kazi yoyote ambayo inahitaji uundaji wa kina cha zaidi ya mita 1 chini ya mwanzo. kiwango cha uchimbaji, na mita 0.30 kutoka uso wa kazi yoyote ambayo inahitaji formwork isiyozidi mita 1-kina chini ya ngazi ya kuanzia ya uchimbaji.
- **Kujaza kifusi:** Kifusi kiitakuwa safi, mchanga mgumu uliochaguliwa au changarawe. Inapaswa kuchukuliwa kutoka kwa mashimo ya kukopa ikiwa udongo kwenye tovuti unapatikana kuwa na faini nyingi na kuwa na kikomo cha chini cha plastiki kutumika kama kujaza.
- **Utunzaji wa Udongo:** Matibabu ya kuzuia mchwa yatafanywa na kampuni ya kitaalam iliyoithinishwa ambayo itahitajika, baada ya kukamilika kwa kufungia udongo, kutoa hati ya maandishi ya kuhitimu ambayo inajumuisha; kemikali zinazotumika zinakidhi mahitaji na mkusanyiko, matibabu yatabaki kuwa na ufanisi dhidi ya wadudu wa mchwa kwa muda wa miaka mitano na pia matibabu ya bure na kampuni

ya maeneo yoyote yanayoonyesha dalili za kushambuliwa kabla ya kumalizika kwa kipindi cha miaka mitano. .

- Utupaji wa ziada ya kifusi zilizochimbwa: kifusi kilichochimbwa zaidi zitatolewa kutoka karibu na kuta na kuwekwa, kutawanywa na kusawazishwa kwenye maeneo yatakayotengwa na Mhandisi wa Miundo, karibu na tovuti.
- Kazi ya zege:
- Ufungaji wa chuma na Foroma

MAZINGIRA YA MRADI

Eneo la mradi

Eneo la mradi lipo Mtaa wa Rangitatu, kata ya Charambe, Manispaa ya Temeke ndani ya Mkoa wa Dar es Salaam. Eneo lipo Kilomita 14 kutoka katikati ya jiji la Dar es Salaam kupitia barabara ya Kilwa.

Eneo la tovuti liko katika ukanda wa pwani wa kitropiki wa Tanzania na huathiriwa na misimu miwili mikuu ya hali ya hewa, ambayo ni mvua na joto. Mpangilio wa mvua ni ule wa aina mbili na mvua za kawaida zisizo na uhakika. Mvua za masika zinazonyesha karibu katika Manispaa nzima kati ya Desemba na Februari, Wakati mvua kubwa za muda mrefu katika kipindi cha Machi hadi Juni, kiasi cha mvua zilizopatikana ni kati ya Milimita 800-1200 kwa mwaka. Halijoto kama vile mvua pia huathiriwa na bahari. Joto la juu hutawala mwaka mzima kuanzia nyuzijoto 25⁰C katika kipindi cha Juni hadi Agosti hadi Nyuzi joto 35⁰C katika kipindi cha Januari hadi Machi.

Vyanzo vya maji

Maji ya chini ya ardhi ni mengi karibu katika Jiji zima la Dar es salaam. Hii inathibitishwa na ukweli kwamba visima vifupi ni moja ya vyanzo vya maji ya majumbani kwa kaya nyingi zinazozunguka eneo la mradi na kwa hivyo kiwango cha maji ni kikubwa.

Ubora wa hewa na kiwango cha Kelele

Uchunguzi wa ubora wa hewa unaonyesha kuwa hali ya hewa kwa ujumla katika eneo la mradi ni nzuri kwani hakuna shughuli yoyote ya ajabu inayochangia uchafuzi wa hewa. Hata hivyo, mabadiliko ya msimu pamoja na kuzorota kwa hali ya hewa ya ndani na ya muda hutokea.

Kwa upande mwingine, kiwango cha kelele katika eneo la mradi ni hasa kutokana na kusonga gari kando ya barabara, kusonga hewa (upepo) au mvua na ndege. Shughuli za mradi wakati wa ujenzi zitabadilisha mwelekeo na amplitude ya kelele katika eneo la mradi.

Mimea

Maeneo ya mradi yaliyopendekezwa yana sifa ya uoto wa bandia wachache ikiwa ni pamoja na senna seamea na baadhi ya mimea michache ya mwarobaini karibu na eneo la mradi.

WADAU WA MRADI NA USHIRIKISHI

Mbinu rahisi ilipitishwa ili kubainisha washikadau wakuu na maswala makuu ya kimazingira na kijamii. Hii ilihusisha uchunguzi wa kimwili na mashauriano (mashauriano ya moja kwa moja). Taarifa nyingine kuhusu mradi huo zilipatikana kupitia utafiti wa dawati.

Wakati wa kufanya utafiti huu, wadau mbalimbali walishauriwa. Miongoni mwao ni pamoja na Halmashauri ya Manispaa ya Temeke na jumuiya katika soko la Kampochea. Katika mkutano huo, mshauri huyo alitoa maelezo mafupi kuhusu pendekezo la choo cha umma.

ATHARI MUHIMU ZINAZOWEZEKANA KWA MAZINGIRA NA KIJAMII

Athari zimeainishwa katika athari za awamu ya Uhamasishaji, athari za awamu ya Ujenzi, na athari za awamu ya Uendeshaji. Vipokezi vikuu vya athari zinazohusiana na Ujenzi unaotarajiwa wa Choo cha Umma katika Soko la Kampochea, kata ya Charambe katika Manispaa ya Temeke ni pamoja na rasilimali asili (ubora wa maji chini ya ardhi, udongo, ubora wa hewa na kelele); rasilimali za kiikolojia (mimea); mali, afya ya umma, na usalama, aesthetics, na mazingira.

Athari zifuatazo zilitambuliwa kuwa zinaweza kutokea wakati wa Awamu ya Uhamasishaji

- Fursa za ajira
- Uchafuzi wa kelele
- Uchafuzi wa Hewa kutokana na uchafuzi wa vumbi

Athari zifuatazo zilitambuliwa kuwa zinaweza kutokea wakati wa Awamu ya Ujenzi

- Fursa za ajira
- Kuboresha hali ya maisha na ukuaji wa uchumi
- Kuboresha afya ya umma
- Kuongezeka kwa mwingiliano wa kijamii na kitamaduni
- Ongezeko la Mapato kwa taifa kupitia kodi, za moja kwa moja na zisizo za moja kwa moja
- Kuongezeka kwa VVU/UKIMWI na magonjwa mengine yanayohusiana na ngono:
 - Uharibifu na ukiukaji wa mali
 - Uchafuzi wa kelele
 - Uchafuzi wa Hewa kutokana na uchafuzi wa vumbi
 - Uwezekano wa maambukizi ya magonjwa ya kuambukiza
 - Hunuka na nzi kwenye vyoo
 - Hatari kubwa ya Afya inayohusishwa na kazi ya ujenzi
 - Uzalishaji wa taka wakati wa ujenzi
 - Uchafuzi wa maji chini ya ardhi kutokana na kufungia udongo

Athari zifuatazo zilibainishwa kuwa zinaweza kutokea wakati wa Awamu ya Operesheni

- Kuboresha maisha ya kijamii na kiuchumi na heshima ndani ya jamii inayofaidika
- Ongezeko la Mapato kwa taifa kupitia kodi, za moja kwa moja na zisizo za moja kwa moja
- Hunuka na nzi kwenye vyoo

KINGA NA USIMAMIZI WA AJALI WAKATI WA HATUA YA UTEKELEZAJI

Mradi utatekelezwa kwa kufuata sheria za kazi nchini Tanzania, hususan, Sheria ya Afya na Usalama Kazini (2003). Vifungu vya kulinda afya na usalama wa wafanyikazi vitajumuishwa katika hati za mkataba kwa hatua ya utekelezaji ambayo ni pamoja na yafuatayo; utoaji na utekelezaji wa matumizi ya vifaa vya kinga binafsi vinavyofaa kwa wafanyakazi wote k.m. ovaroli, glavu, barakoa, n.k. (popote inapohitajika), uwepo wa mpango wa maandalizi ya dharura uliowekwa kabla ya kuanza kwa shughuli za ujenzi na vile vile kuhakikisha usalama wa tovuti kwa kuzungushia uzio eneo lote la mradi na kutoa milango kwa madhumuni ya kuingilia na kutoka. .

HATUA ZA KUPUNGUZA NA MPANGO WA USIMAMIZI WA MAZINGIRA NA KIJAMII (ESMP)

Chaguzi za kupunguza au kuzuia athari mbaya za kijamii na kimazingira zilizotambuliwa pamoja na mpango wa ufuatiliaji zimependekezwa katika ripoti hii na zimo katika ESMP. Wengi wao ni msingi wa mazoea mazuri ya uhandisi na mwitikio wa wakati wa taasisi inayohusika. ESMP inaeleza ratiba ya utekelezaji wa mapendekezo ya hatua za kupunguza na pia kupanga shughuli za ufuatiliaji wa muda mrefu. Inafafanua majukumu na wajibu wa watendaji mbalimbali wa mpango. Gharama za Mbinu za kimazingira na kijamii ni TSH 10,000,000 (Bila gharama zitakazoonekana katika bajeti ya ujenzi wa mradi) na zoezi la makazi mapya. Makisio ya gharama za kila mwaka za kufuatilia mapendekezo ya mpango wa kutunza mazingira na jamii ni TSH 24,000,000.

HITIMISHO

Hivyo basi, imehitimishwa kuwa utekelezaji wa mapendekezo ya ujenzi wa vyoo vya Umma katika soko la Kampochea, Mtaa wa Rangitatu, Kata ya Charambe katika Manispaa ya Temeke hautaleti madhara yoyote isipokuwa kwamba hatua zinazopendekezwa za kupunguza makali zimewekwa ipasavyo na kwa wakati. Athari mbaya zilizotambuliwa zitadhibitiwa kupitia hatua zilizopendekezwa za kupunguza na mfumo wa utekelezaji uliowekwa katika ripoti ya TAM. DAWASA imejitolea kutekeleza mapendekezo yote yaliyotolewa katika riport na kutekeleza zaidi ratiba za ukaguzi na ufuatiliaji wa mazingira.

Appendix VII: Letter from Temeke Municipal Council



JAMHURI YA MUUNGANO WA TANZANIA
OFISI YA RAIS, TAWALA ZA MIKOA NA SERIKALI ZA
MITAA



HALMASHAURI YA MANISPAA YA TEMEKE

Ukijibu tafadhali taja:

Kumb. Na: TMC/MD/D.4/4/15

Tarehe: 06.07.2023

Afisa Mtendaji Mkuu
Mamlaka ya Majisafi na Usafi wa Mazingira,
Dar es Salaam (DAWASA),
S.L.P 1573
DAR ES SALAAM.

**YAH: KUHAMISHA UJENZI WA CHOO CHA UMMA KUTOKA SOKO LA
ZAKHIEM KATA YA KIBONDEMAJI KWENDA SOKO LA
KAMPOCHEA KATA YA CHARAMBE**

Tafadhali husika na somo tajwa hapo juu,

2. Rejea barua yetu yenye kumb.Na **TMC/MD/D.4/4/98** ya tarehe **03/12/2018** iliyotoa idhini ya kutumia maeneo kwa ajili ya ujenzi wa vyoo vya umma.
3. Miongoni mwa maeneo yaliyoidhinishwa kwa ajili ya ujenzi wa vyoo vya umma ni pamoja na soko la Zakhiem kata ya Kibondemaji ambalo baada ya uchunguzi eneo halikufaa kwa ajili ya utekelezaji wa mradi tajwa.
4. Kwa barua hii napenda kukujulisha kuwa eneo hili limefutwa rasmi kutokana na eneo hilo kutokidhi vigezo stahiki kwa ajili ya ujenzi wa choo cha umma hivyo Halmashauri ya Manispaa inatoa eneo la Soko Kampochea kata ya Charambe kwa ajili ya ujenzi wa choo cha umma.

Nakutaki utekelezaji mwema


Elihuruma Mabelya
MKURUGENZI WA MANISPAA
**MKURUGENZI WA MANISPAA
TEMEKE**