

Punjab Municipal Development Fund Company

Hiring of Consulting Services for Preparation of Integrated Development and Asset Management Plan (IDAMP) for 16 selected MCs In Punjab under Punjab Cities Program (PCP)

IDAMP – Municipal Committee Muridke May 2024







Table of Contents

Section 1. Introduction	5
Section 2. Overview – Municipal Committee Muridke	12
Section 3. Existing Asset Inventory Analysis	15
Section 4. Level of Services (LOS)	19
Section 5. IDAMP Projects, Operations & Maintenance(O&M) Strategy	
Section 6. Financial and Economic Analysis	42
Annexure	45

List of Tables

Table 1: Asset Summary	.5
Table 2: Condition of Existing Assets	
Table 3: Current & Target LOS	
Table 4: IDAMP Projects	
Table 5: Projects Detail	
Table 6: Financial Projections4	

1 Introduction

Section 1. Introduction

1.1. Context

Punjab's urban metropolises are growing at an alarming rate thereby accelerating the demand at the municipal service levels. The gap between supply and demand in terms of quality of services at the municipal level rings a bell at the corridors of stakeholders both at government and local levels. Accordingly, the study seeks to identify viable business solutions for effective service deliveries. In particular, this report investigates the conditions of assets, both moveable and immoveable, at the MC level to elucidate the foundation for the development of IDAMP.

Infrastructure plays a pivotal role in achievement of service delivery objectives of public sector entities. Without long term planning and optimal management of infrastructure, risk of failure to meet the service delivery program increases significantly. Thus, infrastructure management is a critical concern for the sustainability of public sector entities.

Keeping in view the importance of infrastructure, an IDAMP Framework has been developed which spells out the principles for effective development and management of asset portfolio in order to achieve service delivery objectives, prescribes a consistent approach and a common methodology for development and management of assets and provides guidelines to ensure informed decision making by Municipal Committees for investment in and management of those assets which help the achievement of the service delivery objectives.

1.2. Scope

This document has been prepared for Integrated Development and Asset Management Planning of Municipal Committee (MC) Muridke. Thus, this document is confined to the planning and management of assets of MC Muridke.

1.3. Brief Methodology for IDAMP Development

The methodology employed for the preparation of the Integrated Development and Asset Management Plan (IDAMP) involved several key steps, which are summarized as follows:

1. Development of Asset Inventory Database

The first step in the IDAMP methodology was to develop a comprehensive asset inventory by PMDFC. This included identifying different asset categories and collecting relevant attribute data. Further, data available at PMDFC and MCs was thoroughly reviewed to ensure accurate and synchronized documentation. This involved cross-referencing and aligning the available data with the requirements of the project. This served as a fundamental basis for integrated asset management.

2. Asset Condition Analysis

It was imperative to have a clear picture of the physical condition of assets and current level of service. Decisions regarding maintenance, rehabilitation and renewal revolved around these two aspects. Asset physical condition analysis was used to determine the need and timing of some preventative or corrective maintenance to ensure desired Level of Service and prevent service breakdown. Below is given the different categories of condition together with reasons/actions for the applicable condition:

Category	Asset Condition	Actions Required
А	Excellent	Routine Maintenance
В	Good	Minor Repair
С	Fair	Major Repair
D	Poor	Rehabilitation
E	Failing	Replacement

3. Current and Target Level of Services (LOS)

To ensure optimal service delivery, an analysis of asset divergence was conducted to assess the alignment between the existing asset inventory and the desired level of service (LOS). This step involved identifying the current level of services, setting target LOS, evaluating the service delivery gap, assessing asset condition assessment, and planning for necessary asset improvements accordingly.

Gap analysis reports and energy audit reports (where available) were reviewed to identify and define the existing infrastructure assets. These reports provided insights into the gaps and deficiencies in the current infrastructure and helped in formulating appropriate strategies for improvement. Further, sectoral plans for infrastructure investments were carefully reviewed to ensure synchronization with the target level of service.

Additionally, community consultative sessions were conducted to gather valuable insights into the needs and desires of the local community. Furthermore, it was made a priority to consult with the management and staff of the respective MCs during our field visits. Please refer **Annexure E** for details.

4. Identification of Projects

Once the inventory and performance targets were updated, project proposals were developed to bridge the service delivery gap. Project were identified based on asset types, for rehabilitation/replacement of existing assets or the creation of new assets. The project proposals encompassed project identification, preparation, and appraisal, ensuring that steps were taken to achieve the target LOS.

Preliminary estimates for capital expenditure and Operating and Maintenance (O&M) costs of identified projects were made. Considering the project scope, capital cost of the projects incorporated both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period. O&M cost to be incurred during operational phases of the project, which included preventive maintenance cost, electricity and other utility cost, administrative expenses, payroll cost and other overheads etc.

Following matrix is used for the computation of O&M costs:

Sr.	Sectors/ Projects	Annual O&M Cost (%age of Capital Cost)
1	Water Supply	5%
2	Filtration Plants/OHR	10%
3	GST (Ground Storage Tank)	2.50%
4	Sewerage Network	2.50%
5	Roads	5%
6	Street Lights	2.50%
7	Parks, Playgrounds, Open Spaces	2.50%
8	Buildings	0.5%

Sr.	Sectors/ Projects	Annual O&M Cost (%age of Capital Cost)
9	Bus stand	2.50%
10	Slaughterhouse	2.50%
11	Storm water drainage;	1%
12	Municipal libraries;	0.5%
13	Solarization	0.5%

5. Financial Capacity Analysis

Analyzing potential financial sources was a crucial step to finance capital investments. This involved examining local capital revenues, planned operating surplus, provincial government transfers, and donor grants as potential funding sources. This analysis provided insights into the available financial capacity to support selected projects, guiding decision-making regarding project selection and phasing.

6. Project Screening & Phasing

Projects were screened and phased over a three-year period based on specific criteria. Projects were evaluated against each of the following factors and assigned scores:

- Project purpose and service delivery improvement
- Public Response/Community and citizens feedback
- Environment and Social Impacts
- Socio-economic impacts analysis
- Ease of implementation

Relative scoring criteria was used for the phasing, wherein projects achieving the highest scores are prioritized in the first year, subject to the availability of finances. Similarly, the scores are reviewed to determine the phasing of projects in the second and third years. This approach ensures the prioritized implementation of projects based on their relative merits.

1.4. Technical Inputs, Assumptions and Limitations

- The initial information of existing assets was obtained from PMDFC and MC Muridke. The data was obtained from multiple sources including Asset Management Information System. Additionally, energy audit reports, shape files, and gap analysis reports were also used to supplement the initial information.
- Asset inventory forms were designed to compile the asset attribute and condition information in consultation with the PMDFC management. The baseline data used for carrying out the condition assessment of assets was sourced from various reports provided by the PMDFC and MC Muridke. It primarily consisted of information related to the existing assets, including their names, numbers, residual life, technical specifications and other attributes of assets.
- Site surveys were also conducted to verify the information and collect any missing information. The compiled information was then shared with the MC Muridke management for their verification and endorsement.
- Age was the primary factor considered for assessing the condition of the water and sewerage network.
- The determination of the current and target level of service has been formulated through a consultative process involving relevant MC staff, and the analysis of data obtained from energy audit reports and gap analysis reports. For the computation of current level of service, following sources were consulted:
 - o Served and built-up areas for different sectors were calculated from the relevant sectors' maps;
 - Total population of MC was taken from the sensus report of Pakistan Beuro of Statistics (PBS) while applying popupation growth rates for the incremental period;
 - Daily water supplied to the distribution system was calculated on the basis of capacity of tubewell and average daily operational hours of tubewell;
 - O Non revenue water was computed by considering actual revenue collected by MC and total connections in the served area;
 - Total number of pipe leakages of the water distribution network was computed on the basis of number of complaints received by MC. It was assumed that one complaint represented one pipe leakage;
 - Total number of sewerage blockages was computed on the basis of number of complaints received by MC. It was assumed that one complaint represented one sewerage blockage; and
 - The total annual operating expenses for each sector were determined based on the expenditure report provided by the MC staff, which covered nine (9) months' worth of data. To obtain the annual operating expenses, an extrapolation method was used to estimate the remaining three (3) months' expenditures.

Municipal Committee Muridke

- Target level of services were determined considering the findings from condition assessment, findings of energy audit reports, findings from gap analysis reports, consultative sessions with MC management, industry best practices and regulatory requirements.
- Projects (repair/ rehabilitation/ new creation) were identified in consultation with the respective Asset Managers keeping in view the service delivery gaps.
- Rrough cost estimates (Capital and Operational & Maintenance) was performed on the basis of Market Rating System (MRS) and Non MRS rates of items.
- Identified projects were evaluated on the basis of project screening and phasing criteria prescribed in the IDAMP Framework.
- The cost and book values of the MC assets have been provided by PMDFC staff.

Overview – Municipal Committee Muridke

Section 2. Overview – Municipal Committee Muridke

2.1. Introduction

The city of Muridke is a major commercial area near the city of Lahore, Pakistan. It is located at 31°45′35N 73°50′16E and has an elevation of 205 m (675 ft) and is situated on the famous Grand Trunk Road and at the crossroads to Sheikhupura, Gujranwala and Narang Mandi/Narowal. The economic and social life of the city, which has three police stations and a railway station, mainly depends on Lahore.In 17th October 2005 Muridke became the headquarters of the newly created Muridke Municipal Committee of Sheikhupura District.¹

Municipal Committee Muridke facilitates its citizen towards sustainable economic growth, infrastructure development, social development and municipal services excellence. MC Muridke promises to provide the basic amenities to general public with full dedication, commitment and exuberance and always striving hard to create business conducive environment, Citizen Centric (Baldia to Citizen) environment and implementation of E-Governance initiatives. MC Muridke plans to establish orderly development, well maintained infrastructure and efficient delivery of social services to its people.

2.2. Functions of Municipal Committee Muridke

Section 31(p) of the Local Government Act, 2022, the Municipal Committees to provide, manage, operate, maintain and improve municipal infrastructure and services, including:

- water supply and control and development of water sources;
- sewage and sewage treatment and disposal;
- storm water drainage;
- sanitation and solid waste collection and disposal of solid wastes, treatment and disposal including landfill site and recycling plants
- roads and streets;
- public transport and mass transit systems, construction of express ways, flyovers, bridges, roads, under passes, traffic planning, engineering and management including traffic signaling systems, signs on roads, street markings;
- firefighting;

_

¹ https://mcmuridke.lgpunjab.org.pk/about-us/history/

- street lighting;
- parks, playgrounds, open spaces;
- parking stands;
- graveyards;
- arboriculture/ tree afforestation;
- parking places;
- transport stations, stops, stands and terminals;
- slaughterhouses;
- municipal libraries;
- community and cultural centers;
- land use planning;
- building control; and
- environmental protection

Existing Asset Inventory Analysis

Section 3. Existing Asset Inventory Analysis

Over the years, MC Muridke has accumulated a large inventory of assets through development schemes and direct procurements. However, a centralized record of assets had not been maintained due to absence of a proper asset management system. Furthermore, as the development work used to be carried out through 'schemes', the asset generated through schemes could not be identified and classified into appropriate asset categories.

3.1. Existing Assets Summary

The summary of existing assets of MC Muridke based on its' functions is presented below:

Table 1: Asset Summary

Sr No.	Asset Category	Asset Sub-Category	Unit	Total
		Tube wells	No.	17
1	Water Supply System	Water Supply Network	Meter	154,799
	Water Supply System	OHR	No.	2
		Movable Assets (Vehicles/Machinery)	No.	1
		Sewerage Network	Meter	146229
2	Sewerage System	Disposal Stations	No.	1
		Movable Assets (Vehicles/Machinery)	No.	15
3	Recreational	Park	No.	5
4	SWMA Poseuros	Dumping site	No.	1
4	SWM Resource	Movable Assets (Vehicles/Machinery)	No.	636
5	Bus Stands	Bus Stand	No.	1
6	Buildings	Offices	No.	1
6	Buildings	Shops	No.	1
7	Public Places	Slaughter Houses	No.	1
8	Street Lights		No.	225
9	Roads		Km.	12.96

Sr No.	Asset Category	Asset Sub-Category	Unit	Total
10	Office Vehicles	Office Vehicles	No.	3

The detail of the assets is provided in the **Annexure A**.

3.2. Condition of Existing Assets

The condition of assets of MC is presented below:

Table 2: Condition of Existing Assets

		Asset Condition						
Asset Category	Asset Sub-Category	Excellent (A)	Good (B)	Fair (C)	Poor (D)	Failing (E)	Unit	Total
	Tube wells	-	7	5	5	-	No.	17
Water Supply	Water Supply Network	-	-	154,799	-	-	Meter	154,799
System	OHR	-	-	-	2	-	No.	2
	Movable Assets (Vehicles/Machinery)	-	1	-		-	No.	1
	Sewerage Network	-	89130	-	57099	-	Meter	146229
Sewerage System	Disposal Stations	-	1	-	-	-	No.	1
Sewerage System	Movable Assets (Vehicles/Machinery)	1	7	8	-	-	No.	15
Recreational	Park	-	3	1	1	-	No.	5
	Dumping site	-	-	1	-	-	No.	1
SWM Resource	Movable Assets (Vehicles/Machinery)	599	30	7	-	-	No.	636
Bus Stands	Bus Stand	1	-	1	-	-	No.	1
Buildings	Offices	-	1	-	-	-	No.	1

		Asset Condition						
Asset Category	Asset Sub-Category	Excellent (A)	Good (B)	Fair (C)	Poor (D)	Poor (D) Failing (E)		Total
	Shops	-	1	-	-	-	No.	1
Public Places	Slaughter Houses	-	-	1	-	-	No.	1
Street Lights		107	-	-	-	118	No.	225
Office Vehicles	Office Vehicles	-	-	2	1	-	No.	3
Roads	-	-	-	9.5	3.46	-	Km.	12.96

Level of Services (LOS)

Section 4. Level of Services (LOS)

Assets are planned and managed for the service delivery to the consumers. Therefore it is pertinent to assess the current service level and set out the desired service level over a certain period by keeping in view the community needs and demands. In order to measure the service levels, indicators are designed on which periodic assessments of the levek of service are carried out.

A set of Level of Service (LOS) indicators has been prescribed for the MCs for achievement of the service delivery objectives. The MCs shall compute their existing LOS and set the target LOS for the next three years. Target LOS shall be used as key performance indicators to assess the performance of assets and monitor the extent of service delivery by the MCs.

The current and target level of service for MC Muridke are provided here under:

Table 3: Current & Target LOS

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
Water supply and control and development of water sources;	Water Supply Coverage by MC %	Percentage of area, where water supply network is available in comparison to total built up area.	51%	51%		
	Water Supply Coverage by private wells %	Percentage of area, where residents have own water sources.	49%	49%		
	Water production GPCD	Total daily water supplied to the distribution system (ex-treatment plant and including purchased water, if any) expressed by population served per day.	16.1	22	Replacement of Water Supply System in Muridke City	2023-2024
	Non-revenue water %	Difference between total water produced (ex -treatment plant) and total water sold expressed as a percentage of total water produced.	51%	51%		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Pipe breaks (Leakages/Breaks /Km)	Total number of pipe leakages/breaks per year expressed per km of the water distribution network.	N/A	Improved services quality would result in fewer leakages/ breaks	Replacement of Water Supply System in Muridke City	2023-2024
	Unit operational cost - water sold (production cost at consumer end) (PKR)	Total annual operating expenses divided by the total annual volume of water sold.	0.05	0.04	Solarization of Tube wells and Water Supply System	2023-2024
	Unit operational cost - water produced (gross production cost) (PKR)	Total annual operating expenses divided by the total annual water of water produced.	0.03	0.02	Solarization of Tube wells and Water Supply System	2023-2024
	Salary cost as proportion of Operating costs	Total annual salary costs (including salaries, wages, pensions, other benefits, etc.) Expressed as a percentage of total annual operating costs.	33%	33%		
	Power and Electricity Costs as proportion of Operating Costs	Total annual power/electricity costs of the utility expressed as a percentage of total annual operating costs.	49%	42%	Solarization of Tube wells and Water Supply System	2023-2024
	Unfit water samples % (not conforming with the requirements of NEQ)	Total number of unfit water samples (not conforming with the requirements of NEQ) expressed as a percentage of total samples taken	N/A	Conformance with NEQ	Replacement of Water Supply System in Muridke City	2023-2024
	Continuity of Service Hrs. / Day.	Average hours of service per day for water supply. (Average operational hours of tube well per day)	8	8		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Water Supply Complaints %	Total number of water supply complaints per year expressed as a percentage of the total number of water supply connections.	N/A	Improved services quality would result in fewer complaints	Replacement of Water Supply System in Muridke City	2023-2024
	Sewerage Coverage %	Population with sewerage services (direct service connection) as a percentage of the total population. (Total served area as a percentage of the total built up area)	86%	86%		
	Risk of crown failure	Whether there is an indication of crown failure?	No	No		
Sewage and sewage treatment and disposal;	Sewerage blockages (Blockages/KM)	Total number of blockages/ complaints per year expressed per km of sewers	N/A	Replacement of sewers would result in fewer blockages	Replacement of lateral sewer between G.T road and Canal Road in Muridke City	2023-2025
	Sewerage staff per 1000 sewerage connections (Number)	Total number of sewerage staff expressed as per thousand sewerage connections	0.11	0.11		
	Wastewater Treatment – Primary (%)	Proportion of collected sewage that receives primary treatment only, i.e., involving settlement with the intention of removing solids, but not biological treatment. Both lagoon and mechanical treatment can be included, where appropriate.	NIL	NIL		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Wastewater Treatment – Secondary (%)	Proportion of collected sewage that receives at least secondary treatment, i.e., removing oxygen demand as well as solids, normally biological. Both lagoon and mechanical treatment can be included, where appropriate.	NIL	NIL		
	Sewerage Complaints (%)	Total number of sewerage complaints per year expressed as a percentage of the total number of sewerage connections.	.21%	Replacement of sewers would result in fewer complaints	Replacement of lateral sewer between G.T road and Canal Road in Muridke City	2023-2025
Storm water drainage;	Storm water drainage coverage (%)	The percentage of MC area that the drainage system protects from flooding.	86%	86%		
	Collection efficiency (%)	Total amount of solid waste collected expressed as a percentage of total solid waste produced.	63%	63%		
	Disposal efficiency (%)	Total amount of solid waste disposed off expressed as a percentage of total solid waste collected.	100%	100%		
Sanitation and solid waste collection and	Door-to-door %	Percentage of area with door-to-door solid waste collection.	NIL	NIL		
disposal of solid wastes, treatment and disposal including	Primary SWM Coverage each day in localities %	Percentage of area from which the sanitary staff sweeps & collects waste each day	63%	63%		
landfill site and recycling plants;	Primary SWM Coverage each day in Roads %	Primary SWM Coverage each day in Roads	63%	63%		
	Open Collection Points (Number)	Open Collection Points	32	32		
	Secondary collection machinery (Number)	Secondary collection machinery	6	6		
	Adequacy of parking facilities for SWM vehicles	Adequacy of parking facilities for SWM vehicles	Yes	Yes		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Waste transported in covered vehicles	Waste transported in covered vehicles	No	No		
	Private Sector involved in Secondary Collection	Private Sector involved in Secondary Collection	No	No		
	Sufficiency of existing dumping area (Landfill site).	Sufficiency of existing dumping area (Landfill site).	Yes	Yes		
	Mechanism for Final Disposal	Is there any mechanism for Final Disposal?	No	No		
	Roads with condition "A" (Excellent) %	Total number of roads with condition "A" expressed as a percentage of total roads.	0%	0%	1.Improvement and Construction of	
	Roads with condition "B" (Good) %	Total number of roads with condition "B" expressed as a percentage of total roads.	0%	17%	Roads & Chowks in MC Muridke. 2.Improvement and Rehabilitation of P2- Canal Road in MC Muridke.	2023-24
Roads and streets;	Roads with condition "C" (Fair) %	Total number of roads with condition "C" expressed as a percentage of total roads.	73%	73%		2023-24
	Roads with condition "D" (Poor) %	Total number of roads with condition "D" expressed as a percentage of total roads.	27%	10%	3.Improvement & Rehabilitation of	2024-25
	Roads with condition "E" (Failing) %	Total number of roads with condition "F" expressed as a percentage of total roads.	0%	0%	Roads Project in Muridke city	
Ctro atlighting	Streetlight coverage. (%)	Percentage of area/roads with streetlights.	3.4%	3.4%		
Streetlighting;	Working Streetlight %	Percentage of working streetlights as of total streetlights.	48%	48%		
arks, Playgrounds,	Open spaces as percentage of total MC area. %	Open spaces as percentage of total MC area. %	0%	0%		
Open spaces;	Playgrounds as percentage of total MC area. %	Playgrounds as percentage of total MC area. %	0.2%	0.2%		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Parks with condition "A" (Excellent) %	Parks with condition "A" expressed as a percentage of total parks.	0%	0%		
	Parks with condition "B" (Good) %	Parks with condition "B" expressed as a percentage of total parks.	60%	80%	1.Rehab of Parks.	2023-24
	Parks with condition "C" (Fair) %	Parks with condition "C" expressed as a percentage of total parks.	20%	20%	2.Rehabilitation /	
	Parks with condition "D" (Poor) %	Parks with condition "D" expressed as a percentage of total parks.	20%	0%	Improvement of Park	2025-26
	Parks with condition "E" (Failing) %	Parks with condition "E" expressed as a percentage of total parks.	0%	0%		
	Parks as percentage of total MC area. %	Parks as percentage of total MC area. %	0.5%	0.5%		
	Graveyards as percentage of total MC area. %	Graveyards as percentage of total MC area. %	0%	0%		
	Graveyards with condition "A" (Excellent) %	Total area of graveyards with condition "A" expressed as a percentage of total area of graveyards.	0%	0%		
Graveyards;	Graveyards with condition "B" (Good) %	Total area of graveyards with condition "B" expressed as a percentage of total area of graveyards.	0%	0%		
	Graveyards with condition "C" (Fair) %	Total area of graveyards with condition "C" expressed as a percentage of total area of graveyards.	0%	0%		
	Graveyards with condition "D" (Poor) %	Total area of graveyards with condition "D" expressed as a percentage of total area of graveyards.	0%	0%		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Means to achieve target/ project name	Timeframe (FY)
	Graveyards with condition "E" (Failing) %	Total area of graveyards with condition "E" expressed as a percentage of total area of graveyards.	0%	0%		
Transport stations, stops, stands and	Ratio of bus stations to the total length of roads	Ratio of bus stations to the total length of roads	`1:204	`1:204		
terminals;	Adequacy of facilities at bus stands	Adequacy of facilities at bus stands	Yes	Yes		
	Adequacy of slaughterhouses	Adequacy of slaughterhouses keeping in view the population of the MC	No	No		
Slaughterhouses;	Adequacy of facilities in slaughterhouses	Adequacy of facilities in slaughterhouses in terms of tools, disinfectants, refrigeration/storage systems, drainage, and disposal facility, etc.	No	Yes	Rehabilitation of slaughterhouse	2025-26
	Total number of Libraries per 100,000 persons	Total number of Libraries per 100,000 persons	NIL	NIL		
Aunicipal libraries;	Adequacy of facilities in library	Adequacy of facilities in library in terms of books, computers, furniture, airconditioning, lighting, drinking water etc.	N/A	N/A		

Notes:

- While achieving the target level of service, MC shall ensure conformance with applicable laws and regulations including but not limited to land use planning, building control, environmental and social considerations.
- Environmental and social considerations are provided in Annex D.
- Comprehensive list of LOS indicators is provided in IDAMP Framework, please refer to section 5, however, certain LOS indicators are not applicable to MC Muridke such as metered water connections, firefighting coverage etc.
- For certain service levels, the existing level of service is sustained during the term of IDAMP i.e. three years, despite the recognized need for enhancements. This circumstance arises due to various factors, including but not limited to funding constraints, the reluctance of asset owners to initiate required modifications and the lack of suitable land availability. Nevertheless, it is crucial to emphasize that the preparation and revision of

the IDAMP is an ongoing process. As a result, the target level of service in these areas may be redefined in the future, facilitating the implementation of potential improvements.

- The calculation of daily water supplied to the distribution system has considered the capacity of tubewells, in combination with the average hours of service per day for water supply.
- In order to reduce the reduction in non-revenue water, certain initiatives are required such as capacity building for MC staff, the installation of water meters, tariff revisions, regulatory reforms, among other measures. It's important to note that the percentage of non-revenue water may not necessarily improve solely with an increase in water production.
- As regards to landfilling, developing regional landfill sites, rather than smaller units for each city, would be advisable

SIDAMP Projects

Section 5. IDAMP Projects

Based on the asset condition analysis and target level of services, the following projects have been identified in respect of various asset categories. Preliminary cost estimates for the project, encompassing both capital and operational & maintenance expenses, were calculated using the current Market Rating System (MRS) and Non-MRS rates for items. It's important to note that this estimation does not factor in inflation. Further, 12the coding scheme adopted to allot codes to the projects and the proposed projects' screening and phasing evaluation is given in Annexure B and C respectively.

Table 4: IDAMP Projects

				Total	2023-	24	2024	-25	2025	-26	Project
Sr. No.	Project ID	Project Name	Asset Category	Capial Cost	Capital	O&M	Capital	O&M	Capital	O&M	Screening
						(N	lillions)				(Score)
1	01-05-01-02-01	Improvement & Rehabilitation of water supply system in Muridke City	Water Supply	80.00	80.00	4.00	-	4.00	-	4.00	87
2	01-05-01-02-02	Improvement & Rehabilitation of water supply system in Muridke City	Water Supply	23.00	23.00	1.15	ı	1.15	ı	1.15	87
3	01-05-01-06-01	Construction of Underground Water Storage Tank	Water Supply	400.00	200.00	-	200.00	10.00	1	10.00	87
4	01-05-02-01-01	Replacement of lateral sewer between G.T road and Canal road in Muridke City	Sewerage	342.00	171.00	-	171.00	8.55	ı	8.55	84
5	01-05-04-01-01	Improvement & Rehabilitation of Roads Project in Muridke city	Roads	170.41	-	-	170.41	8.52	-	8.52	74
6	01-05-05-06-01	Rehabilitation of slaughter house	Slaughterhouse	87.13	-	-	-	ı	87.13	2.18	62
7	01-05-05-01-01	Rehabilitation / Improvement of Park	Parks	50.00	-	-	50.00	1.25	-	1.25	74

				Total	2023-	24	2024	-25	2025	5-26	Project
Sr. No.	Project ID	Project Name	Asset Category	Capial Cost	Capital	O&M	Capital	O&M	Capital	O&M	Screening
				(Millions)						(Score)	
8	01-05-06-01-01	Solarization of the municipal buildings	Buildings	100.00	100.00	0.50	-	0.50	-	0.50	80
9	01-05-04-03-01	Repair & Replacement of Streetlights	Streetlights	2.50	2.50	0.06	-	0.06	-	0.06	80
10	01-05-01-01-01	Solarization of Tube wells and Water Supply System	Water Supply	150.00	150.00	0.75	1	0.75	-	0.75	80
11	01-05-05-01-02	Rehabilitation of Parks	Parks	400.00	400.00	10.00	ı	10.00	i	10.00	80
12	01-05-04-01-02	Improvement and Construction of Roads & Chowks in MC Muridke	Roads	232.61	232.61	11.63	-	11.63	-	11.63	81
13	01-05-04-01-03	Improvement and Rehabilitation of P2- Canal Road in MC Muridke	Roads	239.96	239.96	12.00	-	12.00	-	12.00	81
14	01-05-03-03-01	SWM Vehicle Parking Shed	Solid Waste Management System	53.28	53.28	3.0		3.0		3.0	80
15	01-05-01-01-02	Energy Management Plan	Water Supply	3.06	3.06	0		0		0	80
16	01-05-01-01-03	SCADA System for tubewells	Water Supply	34.93	34.93	2.0		2.0		2.0	74
		Total		2,368.88	1,690.34	45.09	591.41	73.41	87.13	75.59	

5.1. Detail of proposed projects:

The following section provides high-level particulars of the identified projects, serving as a point of reference for creating planning documents and PC forms²:

Table 5: Projects Detail

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
1	Water Supply	01-05-01-	Improvement &	The Project has the following	Areas served by	80	4	Areas served by
		02-01	Rehabilitation of	objectives;	following Tube			following Tube
			water supply system	1. Project's design objectives are to	wells:			wells:
			in Muridke City	provide move efficient and	1. Old Daoke			1. Old Daoke
				cost effective water supply services	Rehman Park Rehman Pura			2. Rehman Park 3. Rehman Pura
				targeting the population densities of 2032.	4. Bus Stand			4. Bus Stand
				2. The proposed water supply	5. MC Office			5. MC Office
				network will able the MC to fulfil	6. Qazzafi Park			6. Qazzafi Park
				the basic water needs of the city.	7. Peeran Mandi			7. Peeran Mandi
				3. It will improve the supply	8. Old Committee			8. Old
				network and control the losses.	9. Nizam Park			Committee
				4. Reduced the or nullify the gap	10. Ahmad Pura			9. Nizam Park
				between demand and supply of	11. Basra Colony			10. Ahmad Pura
				this project area.				11. Basra
				5. It will provide the more safe /				Colony
				quality improved water to the				
				consumers.				
				6. Provide the better or improved				
				nodel pressure.				
				7. Will prode the the chance to MC				
				to improve its capacity.				
				8. Provide a well maintained and				

² <u>https://www.pc.gov.pk/web/downloads/pc</u>

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				monitored water supply network within the targeted project area				
2	Water Supply	01-05-01-02-02	Improvement & Rehabilitation of water supply system in Muridke City	The Project has the following objectives; 1. Project's design objectives are to provide move efficient and cost effective water supply services targeting the population densities of 2032. 2. The proposed water supply network will able the MC to fulfil the basic water needs of the city. 3. It will improve the supply network and control the losses. 4. Reduced the or nullify the gap between demand and supply of this project area. 5. It will provide the more safe / quality improved water to the consumers. 6. Provide the better or improved nodel pressure. 7. Will prode the the chance to MC to improve its capacity. 8. Provide a well maintained and monitored water supply network within the targeted project area	- Replacement of 4 pumpsets - Installation of capacitors	23	1.15	Muridke City
3	Water Supply	01-05-01- 06-01	Construction of Underground Water Storage Tank	The main objectives are - To supply safe drinking water ub sufficient quantity at doorsteps of consumers with reasonable cost - To encourging personal hygiene	Design and Engineering Site Preparation Excavation and Earthwork	400	10	Muridke City

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				anad household cleanliness of users - Reduction of water borne diseases - Reduction in medical expenditures - Improvement in environment of the city	Foundation Works Masonary Works Coation and Insulation Piping and Connection Concrete Works		·	
4	Sewerage	01-05-02- 01-01	Replacement of lateral sewer between G.T road and Canal road in Muridke City	1. Improvement of service delivery level of the sewerage sector for provision of better basic urban services for improved livability of the citizen. 2. Reduction in surcharging and overflowing of sewers thus reducing waste water ponding in the city. 3. Elimination of damages to public and private properties 4. Elimination of traffic hazards created due to waste water flooding 5. Provision of ease for pedestrians who are presently obstructed due to waste water of vehicles travelling in ponding areas 7. Provision of clean approach for the citizen for commercial and residential areas 8. Elimination of foul & obnoxious smell and suffocation created by waste water ponding 9. Reduction of water borne and water related diseases	1. Replacement of Lateral Sewer line 2. Construction of Man Hole Chambers 3. Electrical Works 4. Desilting of Existing Sullage Carrier/Storm Water Drain 5. Sewer House Connections	342	8.55	

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				10. Improvement of environments of the city 11. Improvement of local economy due to improved municipal infrastructure 12. Improvement in growth potential of the city due to improved municipal infrastructure and clean environments of the city.				
5	Roads	01-05-04- 01-01	Improvement & Rehabilitation of Roads Project in Muridke city	1. Improvement of service delivery level of the municipal services in the sector of communication. 2. Better travelling facilities for the commuters. 3. Reduction in road accidents. 4. Saving in travelling and repair cost of the vehicles. 5. Reduction in annual maintenance charges of roads and parks 6. Better lit roads and streets adding to security of people travelling at night. 7. Improvement in environments of the city making them livable. 8. Improvement in local and province economy. 9. Improvement in the economic growth potential of the city.	Rehabilitation of Existing Pavement Structure Pavement Marking Improvement of drainage system Street Light	170.41	8.52	Canal Road (From West of G.T Road Daokey to Basra Bridge)
6	Slaughterhouse	01-05-05- 06-01	Rehabilitation of slaughter house	Ensure compliance with sanitation and hygiene standards. Improve the welfare and treatment of animals.	 Evisceration Hall Meat Cutting Room Blood Collection 	87.13	2.18	Daoke, Muridke

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				Enhance public health and safety. Increase the efficiency of the slaughter process. Reduce operating costs and increase profitability. Upgrade facilities and equipment to meet modern standards. Minimize the impact on the environment. Ensure compliance with regulatory requirements. Improve working conditions for employees. Improve the overall performance of the slaughterhouse.	Arrangements 4. Skin Storage Room 5. Tools Disinfectant System 6. Health and Hygiene SOPs 7. Refrigeration / Storage System 8. Separate Facility for Sick Animals 9 Doctor's room 10 Solid waste collection and disposal system			
7	Parks	01-05-05- 01-01	Rehabilitation / Improvement of Park	1. To reduce urban heat island effect. 2. To provide active and passive recreational opportunities 3. To contribute to the health and wellness of a community 4. To create valuable green space 5. To combat air pollution caused by vehicles and industries 6. Improvement in environments of the city making them livable. 7. Improvement in local and province economy. 8. Improvement in the economic growth potential of the city.	1 Guard Room 2 Toilet Block 3 Tuck Shop 4 Prayer Room 5 Gardener Room 6 Shopping + Sitting Area 7 Store Room 8 Bird Cage 9 BBQ Pit (2 Nos.) 10 Gazebo (4 Nos.) 11 Percolation Well & Drainage System 12 Boundary Wall	50	1.25	Techno Park

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
					13 Other Facilities 14 External Works			
8	Buildings	01-05-06- 01-01	Solarization of the municipal buildings	The primary objectives of solarization are as follows: a) Enhance Sustainability: By generating clean and renewable energy, the project can reduce its environmental impact and contribute to sustainable development. b) Reduce Carbon Footprint: Solar PV systems produce electricity with zero greenhouse gas emissions, helping to mitigate climate change and improve air quality. c) Cut Down Energy Costs: Utilizing solar energy can significantly reduce reliance on conventional grid electricity, resulting in long-term cost savings and improved financial viability.	Solarization of the municipal buildings based on the site load and installation capacity assessment	100	0.5	Muridke City
9	Streetlights	01-05-04- 03-01	Repair & Replacement of Streetlights	Enhance public safety and security by providing adequate lighting. Improve visibility for motorists and pedestrians. Increase the overall quality of street lighting. Reduce energy consumption and operating costs. Promote energy efficiency and sustainability. Improve the aesthetics of the area.	Installation of LEDs at all non- functional MC operated streetlights	2.5	0.063	Muridke City

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				Enhance the functionality of the street lighting system. Improve reliability and reduce maintenance downtime. Ensure compliance with regulatory requirements. Increase the lifespan of the street lighting system.				
10	Water supply	01-05-01- 01-01	Solarization of Tube wells and Water Supply System	The primary objectives of solarization are as follows: a) Enhance Sustainability: By generating clean and renewable energy, the project can reduce its environmental impact and contribute to sustainable development. b) Reduce Carbon Footprint: Solar PV systems produce electricity with zero greenhouse gas emissions, helping to mitigate climate change and improve air quality. c) Cut Down Energy Costs: Utilizing solar energy can significantly reduce reliance on conventional grid electricity, resulting in long-term cost savings and improved financial viability.	Solarization of the tubewells based on the site load and installation capacity assessment. Tubewell solarization project scope involves converting conventional water pumping systems into solar-powered ones to ensure sustainable and energy-efficient water supply for rural needs.	150	0.75	Muridke City
11	Parks	01-05-05- 01-02	Rehabilitation of Parks	1.The project's main objective is to rehabilitate the existing park with the upgradation to the existing & new facilities to provide the local	Rehab of park alongwith the railway line MC Muridke.	400	10	MC Muridke

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				community a recreational space with all the allied facilities. 2. The project also aims to construct a green space equipped with all the facilities that should be provided in a thriving neighborhood. 3. To create safe neighborhoods for the people. 4. To create valuable green spaces. 5. To enhances the aesthetic beauty of the city. 6. To contribute the health and wellness of the community. 7. Ornamental plants, green areas & rain water harvesting structures.				
12	Roads	01-05-04- 01-02	Improvement and Construction of Roads & Chowks in MC Muridke	The Project has the following objectives; 1. Improvement of service delivery level of the municipal services in the sector of communication. 2. Better travelling facilities for the commuters. 3. Reduction in road accidents. 4. Saving in travelling and repair cost of the vehicles. 5. Reduction in annual maintenance charges of roads and parks 6. Better lit roads and streets adding to security of people travelling at night.	Geometric Improvement and Rehabilitation of Existing Pavement Structure, Pavement Marking, Improvement of drainage system	232.61	11.6305	1.Hussain Town Road 2. Muridke Distributary Road 3. Haddoke Bazar Road 4. Bangla Pully Road 5. Main Bazar Road 6. Main Bazaar Daoke Road

Sr. No.	Service Sector	Project ID	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				7. Improvement in environments of the city making them livable.8. Improvement in local and province economy.9. Improvement in the economic growth potential of the city.				
13	Roads	01-05-04- 01-03	Improvement and Rehabilitation of P2- Canal Road in MC Muridke	The Project has the following objectives; 1. Improvement of service delivery level of the municipal services in the sector of communication. 2. Better travelling facilities for the commuters. 3. Reduction in road accidents. 4. Saving in travelling and repair cost of the vehicles. 5. Reduction in annual maintenance charges of roads and parks 6. Better lit roads and streets adding to security of people travelling at night. 7. Improvement in environments of the city making them livable. 8. Improvement in local and province economy. 9. Improvement in the economic growth potential of the city.	Rehabilitation of Existing Pavement Structure, Pavement Marking, Improvement of drainage system, Street Light	239.96	11.998	West of G.T Road Daokey to Basra Bridge, Muridke City

5.2. Operations and Maintenance (O&M) Strategy:

The Operations and Maintenance (O&M) Strategy outlined in this Integrated Development and Asset Management Plan (IDAMP) ensures the effective management and sustainability of critical infrastructure assets, including sewerage, water supply, and solid waste machinery. Each component of the O&M strategy is designed to optimize asset performance and support ongoing service delivery.

1. Sewerage Operations and Maintenance

- **Preventive Maintenance**: Regular inspection, cleaning, and repair of sewer lines, manholes, and treatment facilities to prevent blockages and ensure uninterrupted flow.
- **Emergency Response**: Establishment of rapid response protocols for addressing sewerage system failures and overflows to minimize public health and environmental risks.
- **Pump Station Management**: Routine maintenance of sewerage pumping stations to optimize performance and extend equipment lifespan.
- Asset Monitoring: Implementation of real-time monitoring systems to track sewerage system performance and identify potential issues proactively.
- **Budget Allocations**: All O&M expenses for sewerage infrastructure are based on the IDAMP guidelines, with a detailed list of expenses provided in Annexure G,H &I.

2. Water Supply Operations and Maintenance

- Water Quality Management: Regular testing and treatment of water sources to maintain compliance with quality standards and ensure safe drinking water supply.
- Distribution Network Maintenance: Inspection and repair of pipelines, valves, and pumps to minimize leaks and pressure fluctuations in the water distribution network.
- Reservoir and Pump House Operations: Scheduled maintenance of water reservoirs and pump houses to optimize operational efficiency and reduce energy consumption.
- Leak Detection: Utilization of advanced leak detection technologies to identify and repair water leaks promptly.
- Budget Allocations: O&M expenditures for water supply infrastructure are aligned with the IDAMP framework, as detailed in Annexure XYZ.

3. Solid Waste Machinery Operations and Maintenance

- **Equipment Servicing**: Routine servicing and lubrication of solid waste machinery, including compactors, shredders, and sorting equipment, to optimize performance and reduce downtime.
- Waste Collection Fleet Management: Maintenance and repair of waste collection vehicles to ensure reliable and efficient solid waste collection services.
- Landfill Management: Regular monitoring and maintenance of landfill sites to mitigate environmental impacts and ensure compliance with waste disposal regulations.
- Recycling Infrastructure Maintenance: Inspection and upkeep of recycling facilities and equipment to support sustainable waste management practices.
- **Budget Allocations**: O&M expenses related to solid waste management are calculated based on IDAMP guidelines, with a comprehensive breakdown provided in Annexure G,H &I..

In conclusion, the integrated Operations and Maintenance (O&M) Strategy within the IDAMP framework underscores our commitment to effective asset management and service delivery. By prioritizing preventive maintenance, rapid response capabilities, and continuous monitoring while aligning expenditures with the IDAMP, we ensure the long-term reliability and sustainability of essential infrastructure services. This proactive approach supports our mission to provide quality public services while optimizing resource utilization and minimizing operational risks.

6 Financial and Economic Analysis

Section 6. Financial and Economic Analysis

In this chapter, financial and economic analysis has been carried out for the new project proposed under IDAMP to assess its economic and financial viability and determine its do-ability by reference to its financial resources required next three financial years.

1.1. Qualitative Assessment

The qualitative benefits of the proposed projects are as under:

- (i) The benefits of municipal project Engines of Growth: Among other benefits, municipal projects generate employment opportunities and create a positive impact on the standard of living. Few projects proposed under IDAMP are mega projects which would create their own economy, boast manufacturing & trading, create need for commerce value chain.
- (ii) **Environmental Up-gradation:** Development of wastewater treatment plant would provide primary and secondary treatment, thereby have a positive bearing on environment. Further, all projects will especially focus environmental considerations during construction and operational phases. Further green areas, trees and plantations will provide not only refreshing view but will enhance the environmental conditions and help climate stabilization.
- (iii) **Employment Opportunities:** The Project is likely to create employment opportunities for over 1,000 people during construction and about 500 people at operational stage in addition to indirect employment generation.
- (iv) **Improvement in Service Delivery of Water Supply:** Replacement of water supply system would improve the water quality for the target population, thus will help to improve public health index.
- (v) **Rehabilitation of Parks Creation of Social Hub in the Locality:** These projects will provide a recreational facility to the residents of the catchment area of respective parks thus improve the visitors count of the parks and create social harmony and extended connectivity in the people.
- (vi) Saving in Fuel Consumption and Improved Connectivity Rehabilitation of roads infrastructure would not only improve the service delivery level of the municipal services but also result in few road accidents, potential savings in travelling and repair cost of the vehicles, reduction in annual maintenance charges of roads and parks. Moreover, better lit roads and streets would add to security of people travelling at night.
- (vii) **Generation of Business Opportunities:** Projects will open new corridors for small- and large-scale businesses right from the construction phase and onwards throughout the life of the Project.

(viii) **Revenue Generation:** Local government is estimated to generate direct and indirect revenue from the projects.

1.2. Quantitative Assessment of the Project

Various basis has been used, primarily relying on the results of the financial model which has been developed to conduct the financial analysis that assesses the viability and sustainability of this Project. Free Cash Flows (FCF) of the Project have been used to determine the key financial indicators of the projects.

Using the free cash flow model, given below are the key financial indicators for project appraisal:

- (i) **Net Present Value (NPV)** of the projects is calculated which represents in present value terms the net benefit that accrues from the Project after meeting its capital cost requirements as well as the cost of operations and other expenditures.
- (ii) **Financial Internal rate of return (FIRR)** of the projects is calculated While representing an average return and its comparison with the required rate of return, which is taken as KIBOR rate
- (iii) **Payback period** of the Project is estimated duly incorporating construction and operational period over the useful life of asset.
- (iv) Cost benefit analysis of the projects is made to determine the ratio of cumulative benefits versus cumulative cost of each project over its useful life.

1.3. Annual Financial Projections

The annual financial projection of Municipal Committee Muridke is given below:

Table 6: Financial Projections

Amount in PKR Million

Year	202	23-24	202	24-25	202	25-26
Category	Capital Cost	O&M Cost	Capital Cost	O&M Cost	Capital Cost	O&M Cost
Water Supply	453.00	5.90	200.00	15.90	-	15.90
Sewerage	171.00	-	171.00	8.55	-	8.55
Roads	472.57	23.63	170.41	32.15	-	32.15
Slaughterhouse	-	-	-	-	87.13	2.18
Parks	400.00	10.00	50.00	11.25	-	11.25
Buildings	100.00	0.50	-	0.50	-	0.50
Streetlights	2.50	0.06	-	0.06	-	0.06
Total	1,599.07	40.09	591.41	68.41	87.13	70.59

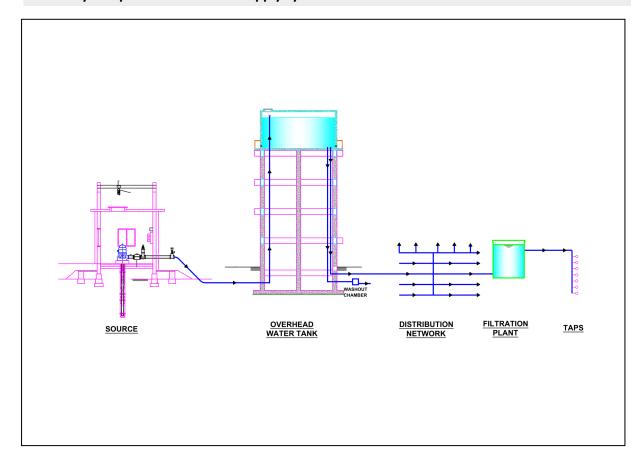
Capital cost of the projects incorporates both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period.

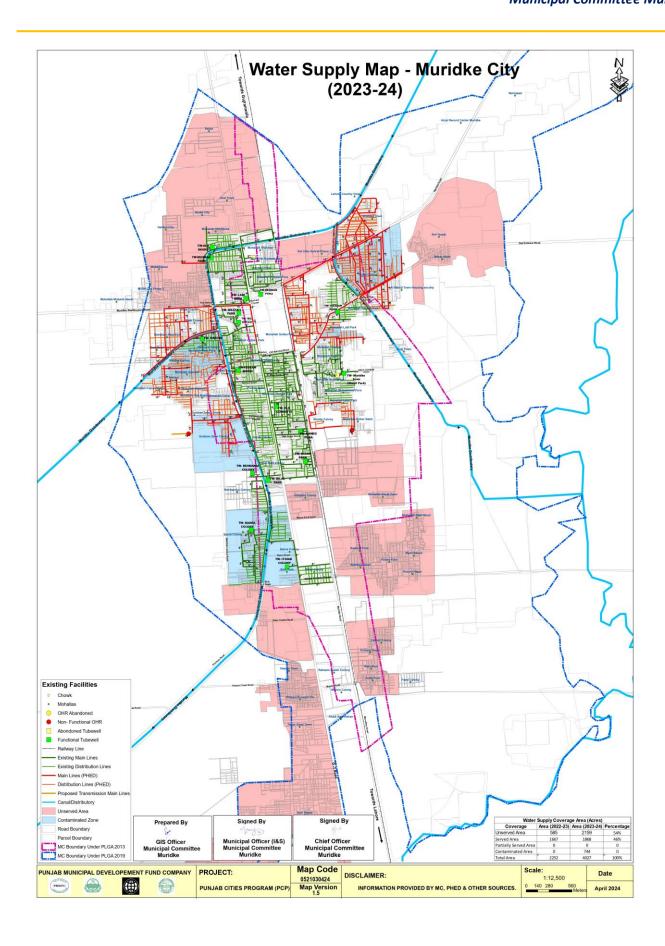
Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.

Annexure

Annexure A. Detail of Assets

- 1. Water Supply:
- A. Key Components of a Water Supply System





B. Tube well

Sr #	Name	Pump Age (Years)	Condition	Status	Book Value (PKR)	Discharge (cusec)	Pump Make	Motor Make	Motor hp
1	Bus Stand Muridke	3	Good	Functional	13	1	PECO	PECO	25
2	Supply Scheme #10 - Mohala Qadafi park	3	Good	Functional	17	1	KSB	SIEMENS	25
3	Supply Scheme #8 - Old Dawke Muridke	3	Fair	Functional	8.3	1	KSB	SIEMENS	25
4	Hadokay Mohallah	3	Fair	Functional	8.3	1	KSB	SIEMENS	25
5	Pera Mandi	44	Poor	Functional	0.8	1	Local Made	SIEMENS	25
6	Mohallah Canal Park	2	Good	Functional	8.5	1	PECO	SIEMENS	25
7	Mohallah Rehmania Colony	25	Poor	Functional	0.7	1	KSB	SIEMENS	25
8	Mohallah Bassra Colony	3	Good	Functional	16	1	Local Made	SIEMENS	25
9	Supply Scheme #16 - Itahad Colony	8	Fair	Functional	4	1	FLOW PAK	SIEMENS	40
10	Water Supply Faisal Colony- Bilal Park/Municipality Office Site	2	Good	Functional	15	1	KSB	SIEMENS	25
11	Mohallah Rehman Purah	2	Good	Functional	17	1	KSB	SIEMENS	25
12	Supply Scheme #2 - Nizam Park	17	Poor	Functional	1.4	1	KSB	SIEMENS	25
13	Supply Scheme #4 - Mohallah Shaikhan	6	Poor	Functional	3	1	KSB	SIEMENS	25
14	Muridke Town	3	Good	Functional	17	1	KSB	SIEMENS	25
15	Hassan Park	6	Poor	Functional	0.7	1	KSB	SIEMENS	25
16	Supply Scheme #3 - Old Committee Office	3	Fair	Functional	14	1	PECO	PECO	25
17	Supply Scheme #1 - Ahmed Pura	6	Fair	Functional	3	1	FLOW PAK	SIEMENS	25

	In	tegrated Deve	elopment and A	sset	Man	age	ment Plan (II	ρA
			Municipal Com	mitt	ee N	luric	lke	
Form:			Tube Well					
IDAMP-A1		Asset (Condition Assess					
		Asset De						
Name			Bus Sta	_		dke		
Location	Latitu			8094				
	Longit	ude		2518				
Address			Bus Sta	nd, N	∕lurio	lke		
Area (Marla)			1	Mar				
Working Status	orking Status		Functional			Non าctic		
nstallation Year of Tube Well			 2022		ictic	niai –		
nstallation Year of Pump			2022					
Capital Cost of Machinery			60	Lacs	Pkr			
perational Hours				8				
Dia				8"				
Delivery Pipe	Mate	ial	Mi	ld St	eel			
Chlorinator			Yes			No)	
Chlorination Sched	ule		Once in a Year	_	er 6		No	
Cinormation Sched	uie		Office in a rear	Мо	nths	Sch	edule	
Apron Around Pum	ιρ Ηοι	ise	Yes No)		
Hoisting Girder			Yes No)		
Civil Structure Cond	dition		Good	Fa	air	E	Bad	
Approach to Pump	House	9	Good Fair Bad			Bad		
		Pump De	tails					
Pump Type			Turbine					
Pump Make				Peco)			
Discharge Capacity		c)		1				
Rotational Speed (I				1465)			
Housing Dia (inches	s)		12					
Bore Depth (ft.)			550					
Head (ft.)			150					
Impeller Installatio		th (ft.)		110				
Paint of Pumping U			'	Good	l			
<u> </u>	Gate \			1				
Number of Valves		eturning		1				
I	Valve		Yes			No		
Base Plate	ectro	Mechanical F	quipment Detai	ls		INC)	
Transformer Capac			quipinent Detai	50				
Sanctioned Load (Kw)			<u> </u>	19				
Motor Power (HP)	,		19 30					
Motor Make			Peco					
MCU			Yes No)		
	orthing of Motor			Yes No				
Power Wiring			Yes No					
Service Cable			Yes			No		
					—	No		



Pictures







lı	ntegrated Develo	pment and Asset M	anagement F	Plan (IDAMP)								
Municipal Committee Muridke												
Form:		Tube Well			Asset Code:							
IDAMP-A1	Asset Cor	ndition Assessment			Date: 24-04-2023							
Energy Meter		Yes	No									
Water Meter		Yes	No									
PFI Equipment		Yes	No									
Generator		Yes	No									
Change Over		Yes	No									
	Overall Rating											
Average Score	1	2	3	4	5							
Asset Condition	Excellent	Good	Fair	air Poor Fa								
Category	Α	В	С	D	E							
		Remarks / Require	ments									
 No remarks 												
Data Collected By: Mr. Jo	awad	Designation: Team	Member	Sign & Date: 30-								
Data Checked By: Mr. M.	. Fiaz	Designation: Team	Lead	Sign & Date: 30	May 2023							

	I	ntegrated [Development ar	nd Asse	t Mana	geme	ent Plan (IDAMP)
			Municipal (Commi	ttee Mu	ıridke	e	
Form: IDAMP-A1		As	Tube We		ent			P
12711111 712			set Detail					
Name		Α,	Qadafi Park					
- Turne	Latit	ude	31.808196					
Location		itude	74.251416					
Address	1=08		Supply Scheme# 10, Mohallah Qadafi Park					
Area (Marla)			Supply Scheme		1 Marla		aun r unk	
Working Status			Functional		Non- I		ional	
Installation Year o	f Tube	e Well		202				
Installation Year of Pump				202	22			
Capital Cost of Machinery				60 Lac	s Pkr			
Operational Hours				8				
		8						
Delivery Pipe		Mild	Steel			Soogle		
Chlorinator Material			Yes			No		
Chlorination Schedule			Once in a Year	Afte Moi	-	No S	chedule	
Apron Around Pur	np Ho	use	Yes			No		
Hoisting Girder			Yes No					
Civil Structure Con	ditior	1	Good	Fa	ir		Bad	100
Approach to Pump	Hous	se	Good Fair Bad					
		Pu	mp Details					
Pump Type			Turbine					×
Pump Make			KSB					
Discharge Capacity	y (Cus	ec)		1				1 6
Rotational Speed	(RPM)			146	55			
Housing Dia (inche	es)			12	2			
Bore Depth (ft.)				60	0			
Head (ft.)				15	0			(
Impeller Installation		pth (ft.)		10				
Paint of Pumping				God				7
Number of Valves	Non-	_		1 1				∳ A ogia
	Valve	2						
Base Plate			Yes			No		
Turanafarina			nical Equipment					4
Transformer Capa		(VA)		50 22				
Sanctioned Load (Kw)								. 2
Motor Power (HP)				30 Siem				
Motor Make			Siemens					
MCU Earthing of Motor			Yes No				BII MARKET	
Power Wiring						No		
Service Cable			Yes			No		Southe
Earthing of MCU			Yes			No		
Energy Meter			Yes			No		
Fuelgy Mieter			163			INO		



Pictures







	Integrated Development and Asset Management Plan (IDAMP)									
Municipal Committee Muridke										
Form:		Tube Well			Asset Co					
IDAMP-A1	Ass	et Condition Assessme	ent		D	ate: 24-04-2023				
Water Meter		Yes No								
PFI Equipment		Yes	No							
Generator		Yes	No							
Change Over		Yes	No							
	Overall Rating									
Average Score	1	2	3		4	5				
Asset Condition	Excellent	Good	Fair		Poor	Failing				
Category	Α	В С			D	Е				
		Remarks / Requ	irements							
No remarks										
Data Collected By: Mr.	Jawad	Designation: Team Member			Sign & Date: 3					
Data Checked By: Mr. N	Л. Fiaz	Designation: Team Le	rad		Sign & Date: 3	epy				

	lr	ntegrated Dev	velopment and a	Asset	Mana	gem	nent Pla	n (IDAMP)
			Municipal Cor	nmitt	ee Mı	uridk	ке	
Form: IDAMP-A1		Asset	Tube Well Condition Asse	essme	nt			
		Asset	Detail					
Name		7.5500	0					
	Latitu	ıde	3					
Location	Longi			4.248				
Address			Sui Gas Bazaar, Old Dawke, Mur					
Area (Marla))1 Ma		<u>, </u>		
Working Status			Functional		Non- I	Func	tional	
Installation Year o	f Tube	Well		1998	3			
Installation Year of Pump				2022	2			1
Capital Cost of Machinery			No	t Avai	lable			4 C
Operational Hours				8				
Deliver Dis-	Dia			6				•
Delivery Pipe	Delivery Pipe Material			∕Iild St	eel			ecodo
Chlorinator			Yes			No)	
Chlorination Schedule			Once in a Year	_	er 6 nths		No nedule	
Apron Around Pur	np Ho	use	Yes	•		No		
Hoisting Girder	_		Yes No					
Civil Structure Cor	dition		Good Fair			Bad	0	
Approach to Pump	Hous	е	Good Fair Bad					
		Pump	Details					
Pump Type				Turbi	ne			
Pump Make			KSB					Sangara
Discharge Capacity	y (Cuse	ec)	1					
Rotational Speed	(RPM)			146	5			1000
Housing Dia (inche	es)			12				
Bore Depth (ft.)			600					
Head (ft.)			150					The state of the s
Impeller Installation	-	oth (ft.)	100					11/2/
Paint of Pumping				Goo	d			-
		Valve		1				9
Number of Valves	Non-l Valve	_		1				Soogle
Base Plate			Yes			No)	
	Electr	o-Mechanical	Equipment De	tails				
Transformer Capa	city (k	VA)		50				
Sanctioned Load (Kw)				23				
Motor Power (HP)				30				
Motor Make				Sieme	ns			
MCU			Yes No)		
Earthing of Motor			Yes No)	•	
Power Wiring			Yes No)	e gal	
Service Cable			Yes			No		
Earthing of MCU			Yes			No		
Energy Meter			Yes			No)	



Pictures







	Integrated Development and Asset Management Plan (IDAMP)											
Municipal Committee Muridke												
Form: IDAMP-A1	Asset (Tube Well Condition Assessment			Code: Date: 24-04-2023							
Water Meter		Yes	No									
PFI Equipment		Yes	No									
Generator		Yes	No									
Change Over		Yes	No									
Overall Rating												
Average Score	1	2	3	4	5							
Asset Condition	Excellent	Good	Fair	Poor	Failing							
Category	Α	В	С	D	E							
		Remarks / Require	ements									
No remarks												
Data Collected By: Mr. J	awad	Designation: Team N	1ember	Sign & Date: 30								
Data Checked By: Mr. M	1. Fiaz	Designation: Team L	ead	Sign & Date: 30	May 2023							

	In	tegrated Deve	lopment and A	sset	Man	age	ement P	lan (IDA	M
		6	Municipal Com						
Form:			Tube Well						
IDAMP-A1		Asset C	Condition Assessment						
		Asset De	etail						
Name			Murio	dke 1	Towr	1			
	Latitu	de	31	L.801	.6				
Location	Longit	tude	74.	2645	83				
Address			Murio			1			
Area (Marla)	rea (Marla)			Mar	rla				
Working Status			Functional			Nor ncti	n- onal		
Installation Year o	f Tube	Well		2022					100
Installation Year o	f Pumr)		2022					THE R
Capital Cost of Ma				Lacs					S INC
Operational Hours		,	501	8				00 to 10 to	
	Dia			8					5000
Delivery Pipe	Mate	rial	Mi	ld Ste	موا			_	
Chlorinator	, riacci	191	Yes			N	0		
				Δft	er 6	14	No		
Chlorination Scheo	dule		Once in a Year Months Schedul						
Apron Around Pur	np Hou	ıse			N				
Hoisting Girder		-	Yes			N	_		
Civil Structure Con	dition		Good Fa		ir		Bad		27/
Approach to Pump		a	Good	Fa			Bad		F
Approach to rump	711043	Pump De					10		
Pump Type		i ump be	Turbine						-oogl
Pump Make								_	
Discharge Capacity	, (Cuso	.c)	KSB 1						
Rotational Speed (1465				- 1		
Housing Dia (inche			1465 12						
Bore Depth (ft.)	.51			600					
Head (ft.)									1
Impeller Installation	n Dan	th (ft)	150 100						1
Paint of Pumping		tii (16. <i>)</i>	,	300d	ı				10.1X
· ante of runiping	Gate \	/alve	<u> </u>	1	•				100
Number of Valves									-oogl
	Valve	Cuming		1				г	- 10
Base Plate		Yes			N	0			
	lectro-	Mechanical Fo	quipment Detai	ls	<u> </u>				
Transformer Capacity (kVA)		, production of the control of the c	25						
Sanctioned Load (I		··· · /	19						
Motor Power (HP)	_		30						
Motor Make			Siemens					in	
MCU			Yes No			0		312	
Earthing of Motor			Yes No					1	
Power Wiring			Yes			N			oog
Power wiring Service Cable			Yes			N			
Earthing of MCU									
Earthing OF MICO			Yes		<u> </u>	N	U		



Pictures







lı	ntegrated Develo	pment and Asset N	/lanageme	ent Pl	an (IDAMP)							
Municipal Committee Muridke												
Form:		Tube Well	ube Well			Code:						
IDAMP-A1	Asset Cor	ndition Assessment				Date: 24-04-2023						
Energy Meter		Yes	No									
Water Meter		Yes	No									
PFI Equipment		Yes	No									
Generator		Yes	No									
Change Over		Yes	No									
	Overall Rating											
Average Score	1	2 3		4	5							
Asset Condition	Excellent	Good	Fair	r	Poor	Failing						
Category	Α	В С			D	E						
		Remarks / Require	ements									
 No remarks 												
Data Collected By: Mr. Jo	Designation: Team Member			Sign & Date: 30-1								
Data Checked By: Mr. M.	Designation: Team Lead			Sign & Date: 30 N	Лау 2023							

	In	tegrated Deve	lopment and A	sset	Mana	age	ment P	lan (II	DAMP
			Municipal Com						
Form:			Tube Well						
IDAMP-A1		Asset C	Condition Assessment						
		Asset De	tail						
Name			Hass						
Location	Latitu	de	31.	8099	45				
Location	Longit	ude	74.	2666	07				
Address			Hass	san P	Park				
Area (Marla)	ea (Marla)			Mar	la				i
Working Status			Functional			lon ctic	n- onal		
Installation Year o	f Tube	Well	Not A	Avail	able				
Installation Year o	f Pump)	-	1995					711
Capital Cost of Ma	chiner	у	Not A	Avail	able				
Operational Hours				8					•
Dolivom, Din -	Dia			6					Soogle
Delivery Pipe	Mate	rial	Mil	d Ste	eel				
Chlorinator			Yes			No	0		
Chlorination Sched	مايية		Once in a Year	Afte			No		91
Ciliorination Scree	Juie		Office III a Tear	Moı	onths Schedule				
Apron Around Pur	np Hοι	ise				No	0		
Hoisting Girder			Yes			No)		U
Civil Structure Con	dition		Good	Fa	ir	I	Bad		
Approach to Pump	House	e	Good	Fa	ir		Bad		
		Pump De							Socie
Pump Type			Turbine						ENTOSA MA
Pump Make			KSB						- CHAP
Discharge Capacity		c)	1						
Rotational Speed (1485						
Housing Dia (inche	es)		12						
Bore Depth (ft.)			600						
Head (ft.)		.1. (6.)		150					
Impeller Installation		th (ft.)		100					
Paint of Pumping			-	300d					•
Name har after	Gate \			1					Soogle
Number of Valves		leturning		1					
Base Plate	Valve		Yes			No	-		
	lectro	Machanical Fo	uipment Detail	c		INC	J		
Transformer Capa			Ambinetit petali	50					
Sanctioned Load (I		rry		19					Heal
Motor Power (HP)	_		30						
Motor Make			Sid		 1S				999
MCU			Siemens Yes No						
Earthing of Motor			Yes		No			Special	
Power Wiring			Yes			No			Table 1
Service Cable			Yes			No			
Earthing of MCU			Yes			No			
-3 5 0. 14100						. • (-		



Pictures







lı	Integrated Development and Asset Management Plan (IDAMP)											
Municipal Committee Muridke												
Form:		Tube Well			Asset	Code:						
IDAMP-A1	Asset Cor	ndition Assessment				Date: 24-04-2023						
Energy Meter		Yes	No									
Water Meter		Yes	No									
PFI Equipment		Yes	No									
Generator		Yes	No									
Change Over		Yes	No									
Overall Rating												
Average Score	1	2	3	3	4	5						
Asset Condition	Excellent	Good	Fa	ir	Poor	Failing						
Category	Α	В	C	2	D	E						
		Remarks / Require	ements									
Pump has outlived	its life and needs	replacement.										
Data Collected By: Mr. Jo	Designation: Team Member			Sign & Date: 30-May-2023								
Data Checked By: Mr. M.	Designation: Team Lead			Sign & Date: 30 I	May 2023							

	In	tegrated Deve	lopment and A	sset	Man	age	ement P	lan (II	DAMP)
			Municipal Com						
Form:			Tube Well						,
IDAMP-A1		Asset C	Condition Assessment						
		Asset De	etail						
Name			Mohallah Rehman Purah						
	Latitu	de	31.81113						
Location	Longit	ude	74	2568	358				
Address			Mohallah I	Rehn	nan I	Pura	ah		-
Area (Marla)	ea (Marla)			Mar	rla				
Working Status						Nor ncti	n- onal		
Installation Year o	f Tube	Well	2	2022					
Installation Year o	f Pump)	- 2	2022					
Capital Cost of Ma	chiner	у	60 ו	acs	Pkr				
Operational Hours	3			8					•
Daliana Bina	Dia			8					Soogle
Delivery Pipe	Mate	rial	Mil	ld St	eel				
Chlorinator			Yes			No	0		
Chlorination Scheo	dule		Once in a Year	-	er 6	C - L	No		
Anron Around Dun	nn Hai	150	Yes		ntns	SCr No	nedule		
Apron Around Pur Hoisting Girder	пр пос	ise	Yes			No	_		
Civil Structure Con	dition		Good	Γa	ir		Bad		
			Good	Fa			Bad Bad		3/12
Approach to Pump	nous	Pump De		Га	111		Dau		
Pump Type		ruiiip De	Turbine						Soogle
Pump Make									
Discharge Capacity	, (Cuse	c)	KSB 1						
Rotational Speed		<u>.</u>	1 1465						
Housing Dia (inche			-	12	<u> </u>				
Bore Depth (ft.)	.31								1
Head (ft.)			600 150						1
Impeller Installation	on Den	th (ft.)	†	100					
Paint of Pumping		- : \/		3000	l				
	Gate \	/alve		1	-				
Number of Valves	Non-F			1					Soogle 131
Valve				l					
Base Plate	1	8.0 l 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Yes	1-		No	0		
Electro-Mechanical Education Transformer Capacity (kVA)		uipment Detail							
-		(A)		50					
Sanctioned Load (I	_			19					
Motor Power (HP)			C:	30	20				
Motor Make			Siemens						
MCU			Yes			No No			
Earthing of Motor	Power Wiring			Yes					Google
Service Cable			Yes No						
			Yes						
Earthing of MCU			Yes		<u> </u>	No	υ		



Pictures







lı	ntegrated Develo	pment and Asset N	/lanageme	ent Pl	an (IDAMP)						
Municipal Committee Muridke											
Form:		Tube Well			Asset	Code:					
IDAMP-A1	Asset Cor	ndition Assessment				Date: 24-04-2023					
Energy Meter		Yes	No								
Water Meter		Yes	No								
PFI Equipment		Yes	No								
Generator		Yes	No								
Change Over		Yes	No								
Overall Rating											
Average Score	1	2	3		4	5					
Asset Condition	Excellent	Good	Fair	r	Poor	Failing					
Category	Α	В	С		D	E					
		Remarks / Require	ements								
 No remarks 											
Data Collected By: Mr. Jo	Designation: Team Member			Sign & Date: 30-May-2023							
Data Checked By: Mr. M.	Designation: Team) Lead		Sign & Date: 30 N	лау 2023						

	lr	ntegrated Dev	velopment and A	Asset	Man	agen	nent Pla	ın (IDAM
			Municipal Cor	nmitt	ee M	uridl	ke	
Form:			Tube Well					
IDAMP-A1		1.0000	Condition Asse					
		Asset I						
Name			Pe					
Location	Latitu			1.802				
	Longi	tude		4.251				402
Address			Mohallah Faiz			1, Mı	uridke	
Area (Marla)	· · · · · · · · · · · · · · · · · · ·)1 Ma				
Working Status	· - ·	14. II	Functional			Func	tional	100
Installation Year o				1999				90
Installation Year o				1999				
Capital Cost of Ma		у	No.	t Avai	iable			
Operational Hours				8				
Delivery Pipe	Dia		_	6 4:14 C4	اء دا			500
Chila utu a ka u	Mate	riai		1ild St	eei I	NI-		_
Chlorinator			Yes	۸.61		No		
Chlorination Scheo	dule		Once in a Year		er 6 nths		No nedule	4
Apron Around Pun	np Ho	use	Yes			No)	
Hoisting Girder			Yes			No)	1
Civil Structure Con	dition		Good	Fa	air	E	Bad	
Approach to Pump	Hous	е	Good	Fa	ir	E	Bad	
		Pump [Details					A
Pump Type			-	Turbii	ne			50
Pump Make			Local Made					_
Discharge Capacity	/ (Cuse	ec)	1					
Rotational Speed (1465					
Housing Dia (inche	es)			12				
Bore Depth (ft.)				600				
Head (ft.)				150				
Impeller Installation	•	oth (ft.)		100				
Paint of Pumping I				Fair				克基 地
		Valve		1				
Number of Valves		_		1				500
D D' '	Valve	!			1			
Base Plate	Fla - •	. Na - l ' '	Yes	!!-		No		
			Equipment Det					
Transformer Capacity (kVA) Sanctioned Load (Kw)				50				
		23						
Motor Power (HP)			30 Siemens					
Motor Make MCU				oreitie	115	No		1
			Yes					
Earthing of Motor Power Wiring			Yes Yes			No No		
Service Cable			Yes			No No		
Earthing of MCU			Yes			No		
Energy Meter			Yes			No		
Lileigy Wieter			162			INO		



Pictures







	Integrated Development and Asset Management Plan (IDAMP)										
Municipal Committee Muridke											
Form: IDAMP-A1	Asset C	Tube Well condition Assessment			Code: Date: 24-04-2023						
Water Meter		Yes	No								
PFI Equipment		Yes	No								
Generator		Yes	No								
Change Over		Yes	No								
Overall Rating											
Average Score	1	2	3	4	5						
Asset Condition	Excellent	Good	Fair	Poor	Failing						
Category	Α	В	С	D	E						
		Remarks / Require	ements								
 Pump has outlived 	its life and need	ls replacement.									
Data Collected By: Mr. J	awad	Designation: Team N	Летber	Sign & Date: 30-May-2023							
Data Checked By: Mr. M	1. Fiaz	Designation: Team L	ead	Sign & Date: 30 May 2023							

	In	tegrated Deve	lopment and A	sset	Mana	age	ment I
			Municipal Com				
Form:			Tube Well				
IDAMP-A1		Asset C	Condition Assessment				
		Asset De	tail				
Name			Bilal Park				
Location	Latitu	de	31.	7902	39		
Location	Longit	ude	74.	2541	.26		
Address			Faisal Col	ony,	Mur	idk	е
Area (Marla)	ı (Marla)			Mar	la		
Working Status			Functional		-	Non ictio	n- onal
Installation Year o	f Tube	Well		2022			
Installation Year o			†	2022			
Capital Cost of Ma			1	Lacs			
Operational Hours		-		8			
•	Dia			8			
Delivery Pipe	Mater	rial	Mil	ld Ste	eel		
Chlorinator	•		Yes			No)
Chlorinotic: Cal	مارياد		Ongo in a Varia	Aft	er 6		No
Chlorination Scheo	uie		Once in a Year Mor		nths Schedule		
Apron Around Pur	np Hou	ise	Yes			No	0
Hoisting Girder			Yes			No)
Civil Structure Con	dition		Good	Fa	ir		Bad
Approach to Pump	House	е	Good	Fa	ir		Bad
		Pump De	tails				
Pump Type			Turbine				
Pump Make			Peco				
Discharge Capacity	/ (Cuse	c)	1				
Rotational Speed (RPM)		1465				
Housing Dia (inche	es)			12			
Bore Depth (ft.)			600				
Head (ft.)			150				
Impeller Installation		th (ft.)		100			
Paint of Pumping			(Good			
	Gate \			1			
Number of Valves		Returning		1			
D 0' -	Valve						
Base Plate			Yes			No)
			uipment Detail				
Transformer Capacity (kVA) Sanctioned Load (Kw)				50			
	_			39			
Motor Power (HP)			<u> </u>	30			
Motor Make			Siemens			_	
MCU			Yes			No	
Earthing of Motor			Yes			No	
Power Wiring			Yes			No	
Service Cable			Yes			No	
Earthing of MCU			Yes			No	ט



Pictures







lı	ntegrated Develo	pment and Asset N	/lanagem	ent Pl	an (IDAMP)						
Municipal Committee Muridke											
Form:		Tube Well				Code:					
IDAMP-A1	Asset Cor	ndition Assessment				Date: 24-04-2023					
Energy Meter		Yes	No								
Water Meter		Yes	No								
PFI Equipment		Yes	No								
Generator		Yes	No								
Change Over		Yes	No								
Overall Rating											
Average Score	1	2	3		4	5					
Asset Condition	Excellent	Good	Faiı	r	Poor	Failing					
Category	Α	В	С		D	E					
		Remarks / Require	ements								
 No remarks 											
Data Collected By: Mr. Jo	Designation: Team Member			Sign & Date: 30-May-2023							
Data Checked By: Mr. M.	Designation: Team Lead			Mayfa Sign & Date: 30 N	лау 2023						

	lr	ntegrated Dev	elopment and	Asset	Mana	gem	ent Plan	(IDAMP)
			Municipal Co	mmitt	ee Mu	ıridk	e	
Form: IDAMP-A1		Asset	Tube Well t Condition Ass	essme	ent			A
		Asset	Detail					
Name		710000	Mohallah					
	Latitu	ıde		31.788			• •	
Location	Longi		7					
Address	8		Mohallah Rehmania Colony, Muridke					
Area (Marla)								
Working Status			Functional		Non-	Func	tional	
Installation Year o	f Tube	Well	No	ot Ava	ilable			
Installation Year o	f Pum	p		199	5			
Capital Cost of Ma	chine	ry	No	ot Ava	ilable			
Operational Hours	3			8				
Daliana Dia	Dia			6				•
Delivery Pipe	Mate	rial	٦	Mild S	teel			Spagle 14
Chlorinator			Yes			No		
Chlorination Scheo	dule		Once in a Year	_	er 6 nths		No nedule	
Apron Around Pur	np Ho	use	Yes			No		
Hoisting Girder			Yes			No		
Civil Structure Con	dition		Good	Fa	air	ı	Bad	20
Approach to Pump	Hous	e	Good	Fa	air	I	Bad	
		Pump	Details					
Pump Type			Turbine					=oode
Pump Make			KSB					Salar alfalia
Discharge Capacity		ec)	1					
Rotational Speed (1465					
Housing Dia (inche	es)		12					
Bore Depth (ft.)				550)			
Head (ft.)			150					7
Impeller Installation		oth (ft.)		100				
Paint of Pumping				Fai	r			
Number of Valves	Non-	_		1 1				Socie
D 01 /	Valve	!			1			
Base Plate	-1 .		Yes			No		111
Tuomafaura au Carre		l Equipment De					1	
Transformer Capa Sanctioned Load (I		50 23				11/2		
Motor Power (HP)				30				
Motor Make			Sieme					
MCU			Yes	SICILIE	-113	No		la
Earthing of Motor			Yes			No		
Power Wiring						No		Socie
Service Cable			Yes			No		苏州内里
Earthing of MCU			Yes			No		
Energy Meter			Yes		_	No		
			1.03			.10		



Pictures







Integrated Development and Asset Management Plan (IDAMP)										
		Municipal Committee	Muridke							
Form:		Tube Well		Asset (Code:					
IDAMP-A1	Asset	Condition Assessment	[Date: 24-04-2023						
Water Meter		Yes	No							
PFI Equipment		Yes	No							
Generator		Yes	No							
Change Over		Yes	No							
Overall Rating										
Average Score	1	2	3	4	5					
Asset Condition	Excellent	Good	Fair	Poor	Failing					
Category	Α	В	С	D	E					
		Remarks / Require	ments							
 Pump has outlived 	its life and nee	ds replacement.								
Data Collected By: Mr. J	lawad	Designation: Team M	lember	Sign & Date: 30-May-2023						
Data Checked By: Mr. N	1. Fiaz	Designation: Team Le	ead	Sign & Date: 30	May 2023					

	ln	tegrated Deve	lopment and A	sset	Man	age	ment P	
			Municipal Com	mitt	ee M	urio	dke	
Form:			Tube Well					
IDAMP-A1		Asset C	Condition Assessment					
		Asset De	tail					
Name			Mohallah	Bass	ra Co	lon	ıy	
Location	Latitu	de	31.	7843	395			
Location	Longit	ude	74.	2517	798			
Address			Basr	a Co	lony			
Area (Marla)	ea (Marla)			. Mar	rla			
Working Status			Functional		-	Non ictio	ı- onal	
Installation Year o	f Tube	Well		2022				
Installation Year o	f Pump)		2022				
Capital Cost of Ma	chiner	y	60	Lacs	Pkr			
Operational Hours		-		8				
-	Dia			8				
Delivery Pipe	Mater	ial	Mi	ld Ste	eel			
Chlorinator			Yes			No)	
Chlorination Scheo	dule		Once in a Year	I	er 6		No	
			Mor		nths		redule	
Apron Around Pun	np Hοι	ise	Yes			No		
Hoisting Girder			Yes		<u> </u>	No)	
Civil Structure Con	dition		Good	Fa	nir		Bad	
Approach to Pump	House	e	Good	Fa	nir	ı	Bad	
		Pump De	tails					
Pump Type			Turbine					
Pump Make			Local Made					
Discharge Capacity	(Cuse	c)	1					
Rotational Speed (RPM)			1465				
Housing Dia (inche	es)		12					
Bore Depth (ft.)			600					
Head (ft.)			150					
Impeller Installation	on Dep	th (ft.)		100				
Paint of Pumping I	Unit		(Good	l			
	Gate \			1				
Number of Valves	Non-R Valve	Returning		1				
Base Plate	vaive		Yes			No	\neg	
	lectro	Mechanical Fo	uipment Detai	lc		INC	,	
Transformer Capac			dibinent petal	50				
Sanctioned Load (I		19						
Motor Power (HP)	_							
Motor Make			30 Sigmans					
MCU			Siemens Yes			No	-	
Earthing of Motor			Yes			No		
Power Wiring Service Cable			Yes			No		
			Yes			No		
Earthing of MCU			Yes		l	No	J	



Pictures







lı	ntegrated Develo	pment and Asset N	/lanagem	ent Pl	an (IDAMP)						
Municipal Committee Muridke											
Form:		Tube Well			Asset	Code:					
IDAMP-A1	IDAMP-A1 Asset Condition Assessment										
Energy Meter		Yes	No								
Water Meter		Yes	No								
PFI Equipment		Yes	No								
Generator		Yes	No								
Change Over		Yes	No								
Overall Rating											
Average Score	1	2	3		4	5					
Asset Condition	Excellent	Good	Fai	ir	Poor	Failing					
Category	Α	В	С		D	E					
		Remarks / Requir	ements								
 No remarks 											
Data Collected By: Mr. Jo	Designation: Team Member			Sign & Date: 30-May-2023							
Data Checked By: Mr. M.	Designation: Team	ı Lead		Sign & Date: 30 N	Лау 2023						

Integrated Development and Asset Management Plan (IDAMP)								
Municipal Committee Muridke								
Form:		Tube Well				Δ		
		sset Condition						
Ni		P	asset Detail					
Name	1 - 4 4	.d.		Itahad				
Location	Latitu		31.779506					
Address	Longi	ngitude 74.253724						
Area (Marla)			Supply Scheme # 16, Itehad Colony, Muridke 01 Marla					
Working Status			Functional Non- Functional					
Installation Year o	f Tube	Well	T dilictiona	Not Available				
Installation Year o				20				
Capital Cost of Ma				45 La	cs Pkr			
Operational Hours	;			8	3			
Delivery Dies	Dia			8	3			
Delivery Pipe	Mate	rial		Mild	Steel		Google	
Chlorinator			Yes	ı	No)	- 6.3	
Chlorination Scheo	dule		Once in a Year	_	er 6 nths	Schedule		
Apron Around Pur	np Hoi	use	Yes		No)	3	
Hoisting Girder			Yes			No		
Civil Structure Con			Good	Fa		Bad		
Approach to Pump	Hous		Good	Fa	nir	Bad		
		P	ump Details					
Pump Type			Turbine				Google	
Pump Make	. (С.,,,,		Flow Pak 1					
Discharge Capacity Rotational Speed (:C)	1460					
Housing Dia (inche	_		12					
Bore Depth (ft.)	.51		600					
Head (ft.)			200					
Impeller Installation	on Dep	th (ft.)	100					
Paint of Pumping	•		Fair					
		Valve	1					
Number of Valves	Non-F Valve	_		<u>-</u>	1			
Base Plate			Yes		No)	635	
	Elec	tro-Mecha	nical Equipme	nt Detai	ls			
Transformer Capacity (kVA)			50					
Sanctioned Load (Kw)			30					
Motor Power (HP)		40						
Motor Make		Siemens						
MCU		Yes			No			
Earthing of Motor		Yes		No				
Power Wiring			Yes		No			
Service Cable			Yes No					
Earthing of MCU			Yes		No.			
Energy Meter			Yes		N	J		



Pictures







Integrated Development and Asset Management Plan (IDAMP)									
Municipal Committee Muridke									
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: Date: 24-04-2023				
Water Meter		Yes	No						
PFI Equipment		Yes	No						
Generator		Yes	No						
Change Over		Yes	No						
Overall Rating									
Average Score	1	2		3	4	5			
Asset Condition	Excellent	Good	Fa	air	Poor	Failing			
Category	Α	В		С	D	E			
	Remarks / Requirements								
No remarks	No remarks								
Data Collected By: Mr. Jawad		Designation: Team Member			Sign & Date: 30-May-2023				
Data Checked By: Mr. M. Fiaz		Designation: Team Lead			Sign & Date: 30 May 2023				

Integrated Development and Asset Management Plan (IDAMP)								
Municipal Committee Muridke								
Form: IDAMP-A1 A		Tube Well Asset Condition Assessment					A	
			Asset Detail					
Name			Old Committee Office					
_	Latitu	ıde		31.79	98492			
Location	Longi	tude	74.255937					
Address			Adjacent Tameer Bank, Near GT Road, Muridke					
Area (Marla)			01 Marla					
Working Status			Functional Non- Functional					
Installation Year o	f Tube	Well		Not A	vailable			8
Installation Year o	f Pum	p		20	008			
Capital Cost of Ma	chiner	У		Not A	vailable			
Operational Hours	;	-			8			B
	Dia				6			177
Delivery Pipe	Mate	rial		Mild	Steel			
Chlorinator	•		Yes			No		
Chlorination Scheo	dule		Once in a Year	•	er 6 nths	No S	Schedule	
Apron Around Pur	np Ho	use	Yes		N			
Hoisting Girder			Yes			No		8
Civil Structure Con	dition		Good	Fa	air		Bad	
Approach to Pump	Hous	e	Good	Fa	air	Bad		CAT
		ſ	Pump Details					
Pump Type			Turbine					
Pump Make			Peco					
Discharge Capacity	y (Cuse	ec)	1					
Rotational Speed	(RPM)		1465					
Housing Dia (inche	es)		12					
Bore Depth (ft.)			600					
Head (ft.)			150					
Impeller Installation	on Dep	th (ft.)	100					
Paint of Pumping			Good					4
Number of Valves		Valve Returning			1 1			50
	Valve	!	1			13		
Base Plate			Yes No					
			nanical Equipme	nt Deta	ils			1
Transformer Capacity (kVA)			50					
Sanctioned Load (Kw)			19					
Motor Power (HP)			30					
Motor Make				Pe	eco			
MCU			Yes No					
Earthing of Motor			Yes			No		50
Power Wiring			Yes			No		
Service Cable			Yes No					
Earthing of MCU			Yes No					
Energy Meter			Yes			No		



Date: 24-04-2023

Pictures







	Integrated De	evelopment and Asset M	anagement F	Plan (IDAN	IP)	
		Municipal Committee	Muridke			
Form: IDAMP-A1	As	Tube Well set Condition Assessmen	Asset Code: Date: 24-04-2023			
Water Meter		Yes	No			
PFI Equipment		Yes	No			
Generator		Yes	No			
Change Over		Yes	No			
		Overall Ratin	g			
Average Score	1	2	3		4	5
Asset Condition	Excellent	Good	Fai	r	Poor	Failing
Category	Α	В	С		D	E
		Remarks / Require	ments			
 No remarks 						
Data Collected By: Mr	lawad	Designation: Team Member			Sign & Date: 30-May- 2023	
Data Checked By: Mr. N	Л. Fiaz	Designation: Team Lead			Sign & Date: 30 May 2023	

	lı	ntegrated D	Development an	d Asse	t Manag	ement Pla	n (IDAMP)
			Municipal (Commi	ttee Mur	idke	
Form: IDAMP-A1		Ass	Tube Wel	-	ent		Į.
1211111111111			set Detail				
Name		7.55	ı	Nizam	Park		
- Commo	Latitu	ıde		31.791			
Location	Longi			74.25			
Address	8		Supply Scheme			k. Muridke	Participal sur
Area (Marla)			,	01 M		,	136.00
Working Status			Functional		Non- Fu	nctional	W.
Installation Year of Tube Well				N.A	١		
Installation Year o	f Pum	р		199	18		BN
Capital Cost of Ma	chine	ry	N	lot Ava	ilable		
Operational Hours	;			8			
Dolivery Dine	Dia			8			₩î.
Delivery Pipe Material				Mild S	teel		Soogle
Chlorinator			Yes			No	
Chlorination Scheo	dule		Once in a Year	Afte Mo		No Schedule	
Apron Around Pur	np Ho	use	Yes		No		
Hoisting Girder			Yes				
Civil Structure Con	dition		Good	Fa	ir	Bad	
Approach to Pump	Hous		Good	Fa	ir	Bad	
		Pun	np Details	Turb			
Pump Type				Soogle			
Pump Make				-			
Discharge Capacity		ec)					
Rotational Speed (-			
Housing Dia (inche	es)			12			
Bore Depth (ft.)				600			N draw
Head (ft.)		(6.)		150			0 0
Impeller Installation		otn (π.)		100			
Paint of Pumping		Valve		Fai 1	r		-
Number of Valves	Non-	Returning		1			Google
	Valve)					
Base Plate	-1 .	20 1	Yes	.		No	
Transformer Care			ical Equipment				-11-12-5
Transformer Capacity (kVA) Sanctioned Load (Kw)				50 23			
Motor Power (HP)							
Motor Make			30 Siemens				
MCU			Yes		10		
Earthing of Motor			Yes	<u> </u>			
Power Wiring			Yes		<u>.</u>	300gle	
Service Cable			Yes		i	-	
Earthing of MCU			Yes		i	1	
Energy Meter			Yes			No	-
Energy Meter							



Asset Code:

Pictures







	Integrated De	evelopment and Asset	Managem	ent Plan	(IDAMP)		
		Municipal Committ	ee Muridko	e			
Form:		Tube Well			Asset Code:		
IDAMP-A1	Asse	t Condition Assessmen	nt		Da	ate: 24-04-2023	
Water Meter		Yes	No				
PFI Equipment		Yes	Yes No				
Generator		Yes	No				
Change Over		Yes	No				
		Overall Rat	ing				
Average Score	1	2	3		4	5	
Asset Condition	Excellent	Good	Fa	ir	Poor	Failing	
Category	Α	В	C	:	D	E	
		Remarks / Requirements					
Pump has outlived	lits life and ne	eeds replacement.					
Data Collected By: Mr	lawad	Designation: Team Member			Sign & Date: 30-May-2023		
Data Checked By: Mr. N	1. Fiaz	Designation: Team Lead			Sign & Date: 30 May 2023		

	l e	stagrated [Development an	d Acco	+ Man	2000	ont Dlan	(IDAMD)
	"	itegrated L	Development an	ia Asse	t iviana	agem	ent Plan	(IDAIVIP)
			Municipal (Commi	ttee M	uridk	e	
Form:			Tube We	II				
IDAMP-A1		As	set Condition As	ssessm	ent			
		As	set Detail					
Name				Ahmed	Pura			
Location	Latitu	ıde		31.79	5212			
Location	Longi	tude		74.25	9554			
Address			Supply Scheme #1, Ahmad Pura, Muridke					
Area (Marla)				01 M	arla			
Working Status			Functional		Non-	Funct	ional	
Installation Year o	f Tube	Well		N/	4			
Installation Year o	f Pum	р		201	L7			建。
Capital Cost of Ma	chine	Υ	6	6 Millio	n PKR			
Operational Hours	;			8				-
Dolivory Dina	Dia			6				9
Delivery Pipe	Delivery Pipe Material			Mild 9	Steel			Songle
Chlorinator			Yes			No		
Chlorination Scheo	dule		Once in a Year		er 6 nths	Sch	No nedule	
Apron Around Pur	np Ho	use	Yes			No		
Hoisting Girder			Yes			No		
Civil Structure Con	dition	l	Good	Fa	ir		Bad	
Approach to Pump	Hous	e	Good	Fa	iir		Bad	
		Pur	mp Details					
Pump Type			Turbine					
Pump Make			Flow Pak					diser
Discharge Capacity	y (Cuse	ec)	1					
Rotational Speed	(RPM)		1460					1
Housing Dia (inche	es)		12					1/2
Bore Depth (ft.)				60	0			
Head (ft.)				15	0			
Impeller Installation	on Dep	oth (ft.)		10	0			
Paint of Pumping				Pod	or			
		Valve		1				•
Number of Valves		_		1				\$000lp
Dana Blata	Valve	!	V			NI -		
Base Plate	Elect	ro Machan	Yes ical Equipment	Dotail		No		Vi.
Transformer Capa			icai Equipment	10				
	*^)						1	
Sanctioned Load (Kw) Motor Power (HP)			19 25					
Motor Make		Siemens						
MCU						No		1
Earthing of Motor			Yes	No				
Power Wiring			Yes	No			Social	
Service Cable			Yes			No		
Earthing of MCU			Yes			No		
Energy Meter			Yes			No		
- 0/								



Asset Code:

Pictures







	Integrated D	evelopment and Asse	t Manageme	nt Plan	(IDAMP)		
		Municipal Commi	ttee Muridke	!			
Form: IDAMP-A1	Ass	Tube Well et Condition Assessm	ent		Asset Code: Date: 24-04-2023		
Water Meter		Yes	No				
PFI Equipment		Yes	No				
Generator		Yes	No				
Change Over		Yes	No				
		Overall Ra	ating				
Average Score	1	2	2 3			5	
Asset Condition	Excellent	Good	Fai	ir	Poor	Failing	
Category	Α	В	С		D	E	
		Remarks / Requirements					
No remarks							
Data Collected By: Mr. Jawad		Designation: Team Member			Sign & Date: 30-May-2023		
Data Checked By: Mr. N	Л. Fiaz	Designation: Team I	Lead	Sign & Date: 30 May 2023			

	- 1	ntegrated D	evelopment an	d Asse	t Mana	agen	nent Pla	n (IDAMP)
			Municipal C	ommi	ttee M	uridl	ke	
Form:			Tube Well					P
IDAMP-A1		Asse	et Condition Ass	sessm	ent			
		Asse	et Detail					
Name			_		haikha	ın		
Location	Latit			31.802				
	Long	itude	74.257264 Supply Scheme #4, Mohallah Shaikhan					
Address			Supply Scheme			ah Sh	aikhan	
Area (Marla) Working Status			Fatia.aal	01 Ma			·: I	
Installation Year o	f Tub	o Moll	Functional	198	Non- F	-unc	tionai	
Installation Year o				198				
Capital Cost of Ma		-	N.	ot Ava				
Operational Hours		1 y	IN.	<u>01 Ava</u> 8	liable			4/08
Operational flours	Dia			8				
Delivery Pipe	Mate	erial		Mild S	teel			Songle
Chlorinator	111141		Yes	IVIII G		No		
				Afte	er 6		No	
Chlorination Scheo	dule		Once in a Year	Moi	nths	Sch	nedule	- U
Apron Around Pur	np Ho	use	Yes			No		
Hoisting Girder			Yes No					
Civil Structure Con			Good	Fa	ir	l	Bad	7.0
Approach to Pump	Hou		Good	Fa	ir		Bad	
		Pum	p Details					
Pump Type			Turbine					Google
Pump Make	10		KSB					
Discharge Capacity			1					
Rotational Speed (Housing Dia (inche			1465 12					
Bore Depth (ft.)	:5]			600				
Head (ft.)				150				1.18
Impeller Installation	n De	nth (ft)		100				
Paint of Pumping		pen (iei)		Goo				
		Valve		1				
Number of Valves								⊊nade
	Valve	_		1				EMPLOYED AND ADDRESS OF THE PARTY OF THE PAR
Base Plate			Yes			No		1
	Electi	ro-Mechanic	al Equipment D	etails				
Transformer Capacity (kVA)				50				9 3 a
Sanctioned Load (Kw)				19				Change
Motor Power (HP)				30				
Motor Make			Siemens					100 a = 0
MCU			Yes	No			1xx	
Earthing of Motor			Yes			No		•
Power Wiring			Yes			No		Songle
Service Cable			Yes			No		
Earthing of MCU			Yes			No		
Energy Meter			Yes			No		



Asset Code:

Pictures







	Integrated De	velopment and Asset I	Managemen	t Plar	ı (IDAMP)				
	Municipal Committee Muridke								
Form:		Tube Well			Asset Code:				
IDAMP-A1	Asset	Asset Condition Assessment				ate: 24-04-2023			
Water Meter		Yes	No						
PFI Equipment		Yes No							
Generator		Yes No							
Change Over		Yes No							
Overall Rating									
Average Score	1	2 3			4	5			
Asset Condition	Excellent	Good	Fair		Poor	Failing			
Category	Α	В	С		D	E			
		Remarks / Requi	rements						
 Pump has outlived 	lits life and ne	eds replacement.							
Data Collected By: Mr	lawad	Designation: Team Member			Sign & Date: 30-May-2023				
Data Checked By: Mr. N	1. Fiaz	Designation: Team Lead			Sign & Date: 30 May 2023				

	In	tegrated Deve	lopment and A	sset l	Mana	gen	nent Pl	an (IDAMF
			Municipal Com	mitte	ee Mu	urid	ke	
Form: IDAMP-A1		Asset (Tube Well Condition Asses	smer	nt			
323 3333 332		Asset D						
Name		7,05000	Ca					
_	Latitu	de	31	.8021	L14			
Location	Longi		74	1.251	14			
Address			Gulshan-e-Zaf	far Co	lony,	Μι	ıridke	
Area (Marla)		1 Mai						
Working Status			Functional	١	lon- l	Fund	ctional	
Installation Year o	f Tube	Well		2022				
Installation Year o	f Pump)		2022				
Capital Cost of Ma	chiner	У	6 M	illion	PKR			
Operational Hours				8				
•	Dia			8				•
Delivery Pipe	Mate	rial	М	ild St	eel			Google
Chlorinator			Yes			No)	
Chlorination Sched	dule		Once in a Year		er 6		No	
				IVIO	nths		redule	
Apron Around Pur	np Hou	ıse	Yes			No		
Hoisting Girder	-1'a'		Yes	F-	•	No		
Civil Structure Con			Good	Fa			Bad	α
Approach to Pump	House		Good	Fa	ur	<u> </u>	Bad	S
Pump Type		Pump Do		urbir				•
Pump Make				Songle				
Discharge Capacity	, ICuso	.cl						
Rotational Speed (
Housing Dia (inche								
Bore Depth (ft.)	.31		12 600					5
Head (ft.)			150					
Impeller Installation	on Den	th (ft.)						
Paint of Pumping			100 Good					
	Gate '	Valve		1	-			
Number of Valves	Non-F	Returning		1				≂oogle
	Valve							
Base Plate	_		Yes			No)	
			quipment Deta					
Transformer Capa		50						
Sanctioned Load (I	19							
Motor Power (HP)	30							
Motor Make	Seimens							
MCU	Yes			No		(9)(00)		
Earthing of Motor			Yes			No		
Power Wiring			Yes			No		Sociale
Service Cable			Yes			No		
Earthing of MCU			Yes			No		
Energy Meter			Yes No					



Asset Code: _

Pictures







l.	ntegrated Develo	pment and Asset M	anagement Pl	an (IDAMP)					
	Municipal Committee Muridke								
Form:		Tube Well		Asset Code:					
IDAMP-A1	Asset Co	ndition Assessment			Date: 24-04-2023				
Water Meter		Yes	No						
PFI Equipment		Yes	No						
Generator		Yes	No						
Change Over		Yes							
Average Score	1	2	3	4	5				
Asset Condition	Excellent	Good	Fair	Poor	Failing				
Category	Α	В	С	D	E				
		Remarks / Requirements							
 No remarks 									
Data Collected By: Mr. Jawad		Designation: Team	Member	Sign & Date: 30-May-2023					
Data Checked By: Mr. M	. Fiaz	Designation: Team	Lead	Sign & Date: 30 May 2023					

	In	tegrated Deve	lopment and A	sset	Mana	ger	ment F	
			Municipal Com					
Form:			Tube Well					
IDAMP-A1		Asset C	Condition Assessment					
		Asset De	etail					
Name			Hadoke					
1 4!	Latitu	de	31.	8158	397			
Location	Longit	tude	74.	2482	19			
Address	•		Sui Gas Wala	Baz	aar, N	1uri	dke	
rea (Marla)		01	Mai	¹la				
Varking Status		Functional		N	lon-	-		
Working Status				Fund	ctio	nal		
Installation Year o			Not a	Avail	able			
Installation Year o			+	2005				
Capital Cost of Ma		у	Not A	Avail	able			
Operational Hours				8				
Delivery Pipe	Dia			6				
	Mater	rial		ld St	eel			
Chlorinator			Yes			No		
Chlorination Scheo	dule		Once in a Year		er 6	-	No	
Annon Anound Dun	an Hai		Vac	IVIO	nths S			
Apron Around Pur	пр нос	ise	Yes Yes			No		
Hoisting Girder	al:4: a.a				•	No		
Civil Structure Con			Good	Fa			Bad	
Approach to Pump	nouse		·	Fa	iir	D	Bad	
Dumn Tyno		Pump De	Turbine					
Pump Type Pump Make								
Pump Make Discharge Capacity	, (Cuso	·c)	Not Available					
Rotational Speed (c,	1 1465					
Housing Dia (inche				12				
Bore Depth (ft.)	:3)			600				
Head (ft.)				150				
Impeller Installation	on Den	th (ft.)		100				
Paint of Pumping		·· \1	(3000	l			
	Gate \	/alve		1				
Number of Valves								
	Valve	_		1				
Base Plate			Yes			No)	
E	lectro-	Mechanical Ed	quipment Detai	ls				
Transformer Capa	city (k\	/A)		50				
Sanctioned Load (Kw)			23					
Motor Power (HP)			25					
Motor Make			Siemens					
MCU	cu			Yes No)	
Earthing of Motor			Yes			No)	
Power Wiring			Yes			No)	
Service Cable			Yes			No)	
Earthing of MCU			Yes			No)	



Asset Code: _

Pictures







lı .	ntegrated Develo	pment and Asset M	anagement Pl	an (IDAMP)		
	M	unicipal Committee	Muridke			
Form:		Tube Well		Asset Code:		
IDAMP-A1	Asset Cor	ndition Assessment			Date: 24-04-2023	
Energy Meter		Yes	No			
Water Meter		Yes	No			
PFI Equipment		Yes	No			
Generator		Yes	No			
Change Over		Yes	No			
		g				
Average Score	1	2	3	4	5	
Asset Condition	Excellent	Good	Fair	Poor	Failing	
Category	Α	В	С	D	E	
		Remarks / Requirements				
 Pump has outlived 	its life and needs	replacement.				
Data Collected By: Mr. Jawad		Designation: Team	Member	Sign & Date: 30-May-2023		
Data Checked By: Mr. M.	Designation: Team	Lead	Sign & Date: 30 May 2023			

C. OHR

Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Million)	Capacity
1	Mohalla Peeran Mandi	Not Available	Poor	Abandoned	2	100,000
2	Bhutta Colony	Not Available	Poor	Abandoned	1.8	50,000

		Integrated D	evelopme	nt A	And Asset N	Mana	nagement Plan (IDAMP)
			Munici	pal	Service Un	it Mı	Muridke
Form:	-				d Reservoii on Assessn		Asset Code:
Name			Mohalla	a Pe	eran Mano	ik	Pictures
	Latitud	le	3	1.80	01814		
Location	Longit	ude	7	4.2	51403		
Address					eran Mano ridke	li,	
Year of Cons	tructio	n	Not Available				
Capacity (UK Gallons)			50,	,000			
Cleaning Fre		-		-	0		
Type of Stru		(,	Brid	ck N	/lasonrv		
Structure Co			Brick Masonry Good Fair Poor				
Tank Conditi			Good		air Po	_	
		luo	Juu	г	an PO	UI .	
	luice Va						f GPS Map Camera
of Valves N	on-Keti	urning valve					Muridke, Punjab, Pakistan R722+MGC, Tanki Wala Bazar, Canal Park Mohalla Faiz e
Working Sta	1		Abandoned				Madina, Muridke, Sheikhupura, Punjab, Pakistan Lat 31,801814* Long 74,251403* "GOOGLE" 21/06/23 12:41 PM GMT +05:00
Rising Main	Di						(analysis and)
		aterial					
Delivery Ma	in Di	a aterial					
Overflow &	Di						
Scour Pipe		aterial					TV.
occur i ipc		sing Main	Yes		No		
	De	elivery Main	Yes		No		
Sluice Valve	Sc	our Pipe	Yes		No		
	0\	erflow Pipe	Yes		No		
Stair Case			Yes		No		
Apron Arour			Yes		No		
Tank Top Ra			Yes		No		Muridke, Punjab, Pakistan
Top Indication		;	Yes		No		R722+MGC, Tanki Wala Bazar, Canal Park Mohalla Faiz e Madina, Muridke, Sheikhupura, Punjab, Pakistan
Lightening A			Yes		No		Lat 31,801806* Long 74,251479* GOOGIE 4 7 21006/23 12:40 PM GMT +05:00
Boundary W		ate Arrangements	Yes Yes		No No		Selector Ford V
Approach to	-	an angements	Good	Fa	' ,	Ь	\dashv
Approactive	O I III				ks / Requir		ents
No rem	arks		nei		, 110quii		
Data Collected By: Mr. Jawad			Designation: Team Member			mber	er Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz			Designation: Team Lead				Sign & Date: 30 May 2023

		Integrated D	evelopme	nt A	nd As	sset Man	agemer	nt Plan (IDAMP)
			Munic	ipal :	Servi	ce Unit M	uridke	
Form:			Over Head Reservoir Asset Condition Assessment					Asset Code: Date: 24-04-2023
Name			Bh	utta	Colo	าง		Pictures
	Latituc	ام	31.797536					1 10001100
Location	Longit							
	LONGIL	uue	74.262499 Mohalla Peeran Mandi,					
Address				Mur		viandi,		
Year of Cons			No	ot Av	ailab	le		
Capacity (UK	Gallon	s)		100,	,000			
Cleaning Free	quency	(Per Year)		()			
Type of Struc	cture		F	rame	e, RCC	2		
Structure Co			Good		ir	Poor		A STATE OF THE STA
Tank Condition			Good	Fa		Poor		The state of the s
	uice Va	hio	3300	1 6	***	. 001		
of Valves N	on-keti	urning valve						The second second
Working Stat	tus		А	band	done	d		
Rising Main	Di	a						
Mishing Midhi	M	aterial						
Delivery Mai	n Di	-					_	
_	IVI	aterial						
Overflow &	Di	-						GPS Map Camera
Scour Pipe		aterial	Ves No					Muridke, Punjab, Pakistan q7X7+563, Bhutta Colony Muridke, Sheikhupura,
		sing Main	Yes			No		Punjab, Pakistan Lat 31.797536°
Sluice Valve		elivery Main our Pipe	Yes Yes		No No		Goo	Long 74.262499°
	<u> </u>	erflow Pipe	Yes			No	150	21/06/23 12:55 PM GMT +05:00
Stair Case	OI	remow ripe	Yes	-		No	<u> </u>	
Apron Aroun	d OHR		Yes			No	1	
Tank Top Rai			Yes			No	1	
Top Indication			Yes			No	1	
Lightening A			Yes			No	1	
Boundary Wa		ate	Yes			No		
Overflow Dis	posal A	Arrangements	Yes			No		
Approach to	OHR		Good	Fa	ir	Bad		
			Rei	mark	s / R	equireme	ents	
No remainstance	arks							
Data Collected By: Mr. Jawad			Designation: Team Member				r	Sign & Date: 30-May-2023
Data Checked	d By: M	r. M. Fiaz	Designat	tion:	Tean	n Lead		Sign & Date: 30 May 2023

C. Water Supply Network

Sr #	Dia	Length (meter)	Age (Years)	Material	Condition	Book Value (PKR Million)
1	3	130733				2.81
2	4	8307				2.3
3	6	12504	11	UPVC	Fair	5.5
4	8	5311				3.9
6	12	4,245				0.74

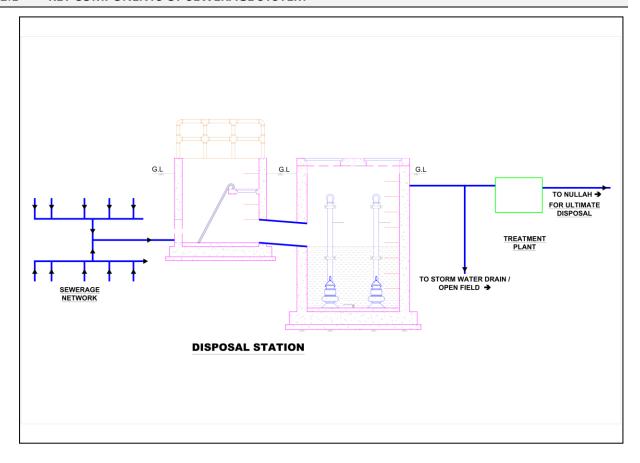
	Integrated D	evelopr	nent And A	sset Manager	ment Plan (IDAN	ΛP)			
		Mur	nicipal Com	ımittee Murid	ke				
Form: IDAMP-A5			y Network Assessme	nt			Asset Code: Date: 24-04-2023		
Desci	ription		Area (Acres)	Area (Acres) w.r.t MC Boundary	Percentage w.r.t MC Boundary	Built-up Area (Acres)	Percentage w.r.t Built- up Area		
Serve	d Area		1667		17.8%		51%		
Contamir	nated Area		-	9337	-	3270			
Water Sho	ortage Area		-	9337	-	3270			
Unserv	ed Area		1603		17.2%		49%		
Latest water quality for commun	y analysis carri nity network?	ed out		Yes			No		
If yes, which lab	•				Not Available				
Findings of wate					Not Available				
	f PEQSs, which e safe drinking onsumers?	steps water	Not Available						
Any complaints of v			Yes No						
If yes, which steps we the con	vere taken to inplaints?	resolve	Not Available						
Pipe Dia (inches)	Pipe Material	Leng	gth (ft)	(ft) Year of Laying			Age of Pipe		
3	UPVC	13	0733		2012		11 Years		
4	UPVC		307		2012		11 Years		
6	UPVC		2504		2012		11 Years		
8	UPVC		311		2012		11 Years		
12	UPVC		290	•	2012		11 Years		
		R	temarks / F	Requirements					
No remarks		Π	Т						
Data Collected By: N	nation: Member Sign & Date: 30-May-2023								
Data Checked By: Mi	r. M. Fiaz	Design Team L		Sign & Date:	30 May 2023				

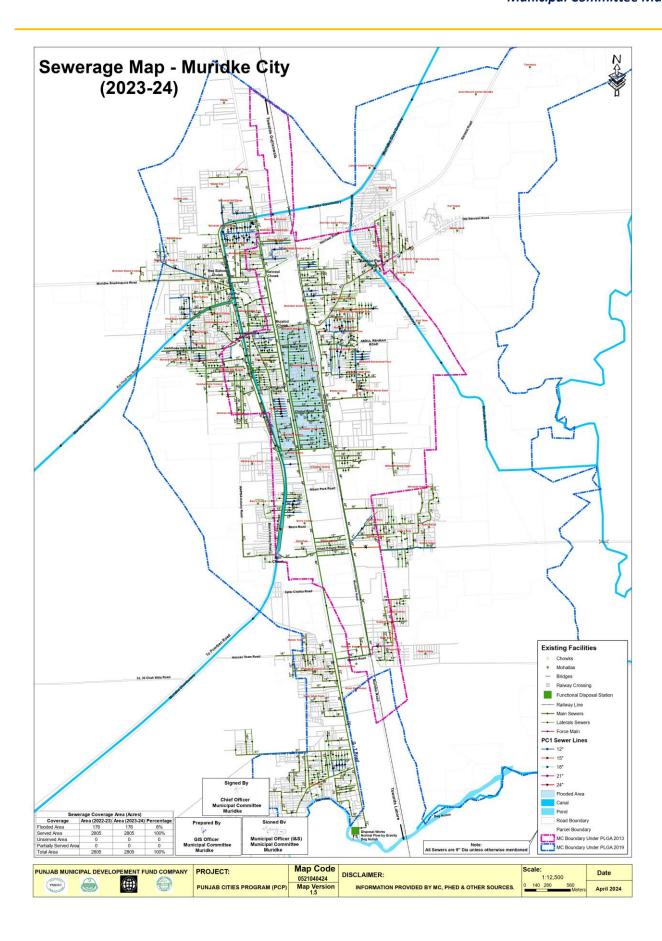
D.	Vehicles/ Machinery										
Sr #	Name	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Million)	Capacity				
1	Water Bowser	SAJ-21	9	Good	Functional	0.8	55hp/500gallons				

	Integ	rated De	evelopment and A	sset Manageme	nt Plan (IDAMP)				
Municipal Committee Muridke									
Form:			Moveable A	sset	Asset Code:				
IDAMP-A16			Asset Condition As	ssessment	Date: 24-04-2023				
Type of \	/ehicle	/ Mach	inery		Pictures				
	ater B	owser							
Capacity				500 Ga					
Purpose				Water S					
Year of Manufacturi	ng			201	<u>-</u>				
Model				New Holla	nd 480				
Capital Cost				Not Ava	ilable				
Fuel Consumption				118	2				
(lit/month)									
Condition				Goo					
Engine Capacity				55 h	р				
Maintenance Cost				Not Ava	ilable				
Oiling /Fitness				Yes					
Fitness Certificate				No					
Registered				SAJ-2	21				
			Remarks / R	equirements					
No remarks									
Data Collected By: M	r. Jawo	ad	Designation: Tea	m Member	Sign & Date: 30-May-2023				
Data Checked By: Mr	. M. Fi	az	Designation: Tea	m Lead	Sign & Date: 30 May 2023				

2. Sewerage

2.1 KEY COMPONENTS OF SEWERAGE SYSTEM





A. Sewerage Network

Sr #	Dia		Length (meter)	Age (Years)	Condition	Book Value (PKR Million)	Material	
1	9"	Dia Dia	38030					
2	12	" Dia	2697					
3	15	" Dia	2384					
4	18	" Dia	3735			0		
5	24	" Dia	503	38	Poor			
6	36	" Dia	877				RCC	
7	42	" Dia	661					
8	54	" Dia	4064					
9	60	" Dia	4148					
10	9"	Dia Dia	45176			32.52		
11	12	" Dia	23121			37.93		
12	15	" Dia	9223			34.48		
13	18	" Dia	3140	12	Cood	54.86		
14	21	" Dia	3166	13	Good	34.48		
15	24	" Dia	1310			37.93		
16	27	" Dia	2475			32.52		
17	36	" Dia	1519			33.54		

	Integrated D	evelopment and As	sset Management	Plan (IDAMP)			
			ce Unit Muridke				
		District Governm	nent Sheikhupura				
Form:		Sewerage Netv	work	Asset Code:			
IDAMP-A6		Asset Condition Ass	sessment	l	Date: 24-04-2023		
Descr	iption	Area (Acres)	Perce	ntage		
Serve	d Area	28	05	86	5%		
Floode	d Area	17	76				
Unserv	ed Area	46	55	14	%		
Type and number	er of complaints						
received to N			Not A	vailable			
sewerage	-						
Steps conside resolve the	ered by MC to		Not A	vailable			
Pipe Dia			No. of				
(inches)	Pipe Material	Length (m)	Manholes	Year of Laying	Age of Pipe		
9" Dia	R.C.C	38030	2496				
12" Dia	R.C.C	2697	88				
15" Dia	R.C.C	2384	52				
18" Dia	R.C.C	3735	61				
24" Dia	R.C.C	503	7	1985	38 Years		
36" Dia	R.C.C	877	10]			
42" Dia	R.C.C	661	7				
54" Dia	R.C.C	4064	33				
60" Dia	R.C.C	4148	34				
9" Dia	R.C.C	45176	2964				
12" Dia	R.C.C	23121	759				
15" Dia	R.C.C	9223	202	_			
18" Dia	R.C.C	3140	52	2010	13 Years		
21" Dia	R.C.C	3166	42				
24" Dia	R.C.C	1310	17	_			
27" Dia	R.C.C	2475	27	_			
36" Dia	R.C.C	1519 Remarks / Re	17 equirements				
No remarks		Remarks / R	equilements				
710 1 011101110							
				Jawas	d-		
Data Collected By	v: Mr. Jawad	Designation: Teal	m Member	awas			
				Sign & Date: 30-N	/lay-2023		
				Maybu	3		
Data Checked By:	: Mr. M. Fiaz	Designation: Teal	m Lead	/ Vi Lugging			
	-						
				Sign & Date: 30 N	1ay 2023		

B. Disposal Station

	Age		ars)			Book		Disabayas			
Sr #	Name	Civil Structure	Pump	Condition	Status	Value (PKR Million)	Nos. of pump	Discharge Each (Cusec)	Motor hp	Pump Make	Motor Make
1	Ravi Ryan Dake Disposal	13	13	Good	Functional	47	5	10(3nos.) 5(2nos.)	100(3nos.) 75(2nos.)	KSB	Siemens

	Integrated	Developme	nt and As	set Manag	
				nittee Mur	
Form: IDAMP-A7		rage Disposal Station			
IDAIVII -A7	Asset C		36331116116		
Name	Asset L		n Disposa	l Station	
	Latitude		31.747138		
Location	Longitude	-	74.262897	7	
Address		Main GT	Road, She	ikhupura	
Area (Acres)			0.5		
Installation Yea	:=		2010		
Capital Cost of	Machinery	84	Million P	kr	
Outfall Drain	Dia		72"		
Sewer	Material		RCC		
	No. of Screens		2	1	
Screening	Screen Condition	Good	Fair	Poor	
Chamber	Chamber				
	Structure		RCC		
	Number	2			
	Shape	Rectangu		Circular	
Wet Wells	Size		30'		
	Structure	Mason	ry	RCC	
	Railing	Yes		No	
	No. of force		1		
	mains		_		
	Dia		60"		
Force Main	Material		AC		
	Starting Point		ump Hous		
	Ending Point	1	Nala Daigh	1	
	Length		50′		
	Size				
Sullage Carrier	Shape	No S	Sullage Ca	rrier	
-	Length		-		
	Condition Dia	24"		12"	
Delivery Pipe	Material	C.I			
	iviateriai	C.I		C.I	

Integrated Development and Asset Management Plan (IDAMP) Municipal Committee Muridke Sewerage Disposal Station Asset Code: Form: **IDAMP-A7 Asset Condition Assessment** Date: 24-04-2023 24" Dia 12" **Suction Pipe** Material C.I C.I **Sluice Valves** 10 Non-Return Number of 5 **Valves Valves Penstock** 2 **Valves Ultimate Disposal** Nala Daigh **Civil Structure Condition** Good Fair Poor **Control Room Structure** Good Fair Poor **Discharge Box Structure** Good Fair Poor Good Poor **Approach to Pump House** Fair **Hoisting Girder** Yes No **Boundary Wall & Gate** Yes No **Treatment of Sewage** No Yes Wastewater daily discharge in m3/day? 57,263 (based on available information at MC) Ultimate disposal of wastewater? **Electro-Mechanical Equipment Details Number of WAPDA Feeders** Transformer Capacity (kVA) 400 **Number of MCU** 5 Sanctioned Load (kw) 340 **Power Factor Improvement** Yes No Equipment **Service Cable** Yes No **Power Wiring** No Yes **Earthing of Motor** Yes No **Earthing of MCU** No Yes **Generator Availability** No Yes **Light Wiring of Pump House** Yes No **Change Over** Yes No **Pump Detail** Pump A Pump B Pump C Pump D Pump E Centrifugal/ Centrifugal/ Centrifugal/ Centrifugal/ Centrifugal/ **Pump Type** Non-Non-Non-Clogging Non-Clogging Non-Clogging Clogging Clogging Pump Brand **KSB KSB KSB KSB KSB Pump Paint** Good Good Good Good Good **Motor Brand** Siemens Siemens Siemens Siemens Siemens **Installation Year of Pump** 2010 2010 2010 2010 2010 **Discharge Capacity (Cusecs)** 10 10 10 5 **Rotational Speed (RPM)** 960 960 960 960 960 Head (ft.) 30 30 30 30 30 100 100 75 Motor Power (HP) 100 75

	Integrated Development and Asset Management Plan (IDAMP)											
Municipal Committee Muridke												
Form: IDAMP-A7		age Disposal Station Asset Code: ondition Assessment Date: 24-04-2					04-2023					
Pump Daily Ru (Hours)	nning Time		-	_			-	_			-	
Base Plate		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Number of	Sluice Valve						10					
Valves	Non-Returning Valve						5					
			Remar	ks / Rec	Juirem	ents						
• Its operat	disposal station is ir ional frequency is 5- bypass arrangemer	-6 times	a year,	during	the he	avy rains	5.		ough gi	ravity in	nala	
Data Collected	By: Mr. Jawad	Designation: Team Member			S	Sign & Date: 30-May-2023						
Data Checked I	By: Mr. M. Fiaz	Design	ation: 1	Team Led	ad	M	Dughi	/ay 2023				

C.	Vehicles/	Mac	hinery
----	-----------	-----	--------

	c. Temples, maximery											
Sr #	Name	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Million)	Capacity					
1	Suction Machine	SAG-29	5	Good	Functional	11	130hp,7000Liters					
2	Jetting Machine	SAG-18-30	5	Good	Functional	11	130hp,7000Liters					
3	De Watering Sets (5 Nos)	N/A	5	Good	Functional	0.9	N/A					
4	Shoulder Foggers (4 Nos)	N/A	10	Fair	Functional	0.036	N/A					
5	Spray Pumps (1 Nos)	N/A	10	Fair	Functional	0.009	N/A					
6	Safety Gear (1 Nos)	N/A	10	Fair	Functional	0.009	N/A					
7	Sewer Safety Equipment (2 Nos)	N/A	10	Fair	Functional	0.018	N/A					

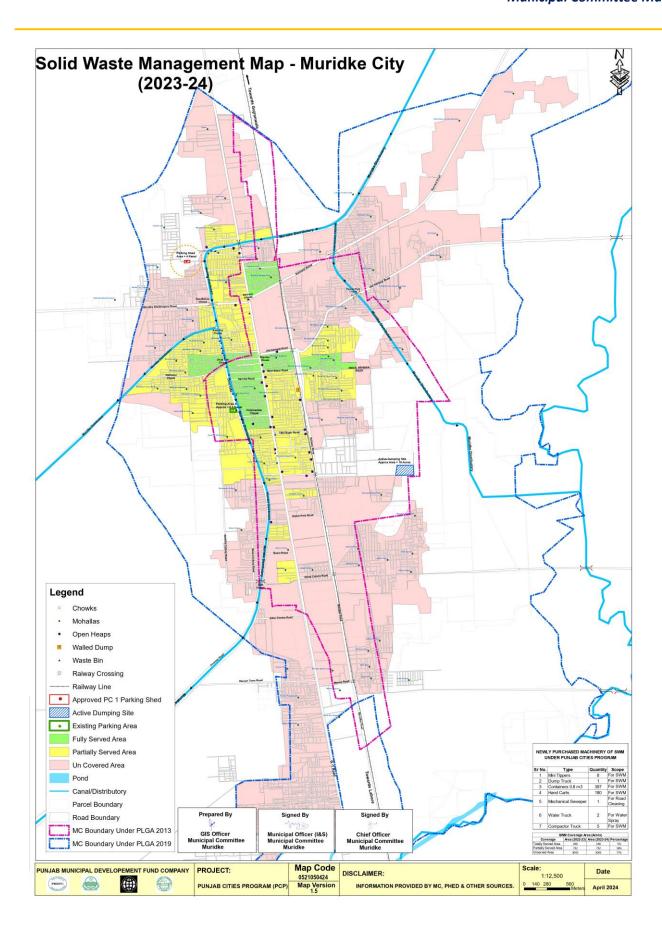
Integ	Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke						
			Asset Code: Date: 24-04-2023			
Type of Vehicle	e / Machinery		Pictures			
Suc	ker		RECO.			
Capacity		7000 Liters				
Purpose	To re	move blockage of sewe	er pipelines			
Year of Manufacturing		2018				
Model	MPR					
Capital Cost		Not Available				

Fuel Consumption (lit/month)	16						
Condition	Good						
Engine Capacity	200h	p					
Maintenance Cost	Not Avai	lable					
Oiling /Fitness	Yes						
Fitness Certificate	No						
Registered	SAG-2	29					
	Remarks / Requirements						
No remarks							
Data Collected By: Mr. Jawa	Designation: Team Member	Sign & Date: 30-May-2023					
Data Checked By: Mr. M. Fid	Designation: Team Lead	Sign & Date: 30 May 2023					

Integrated Development and Asset Management Plan (IDAMP)						
			Municipal Com	mittee Muridke		
Form:		Moveable Asset			Asset Code:	
IDAMP-A16			Asset Condition As	ssessment	Date: 24-04-2023	
Type of \	/ehicle	/ Mach	inery		Pictures	
Jetting Machin						
Capacity				7000 Lite		
Purpose			To re	emove blockage of	sewer pipelines	
Year of Manufacturin	ng	2018				
Model				BECO (MF	-	
Capital Cost				Not Availa	ble	
Fuel Consumption				13		
(lit/month) Condition				Good		
				200hp		
Engine Capacity Maintenance Cost				Not Availa	hlo	
					bie	
Oiling /Fitness Fitness Certificate				Yes		
				No 546 18 3	20	
Registered			Damada / D	SAG-18-3	30	
			Kemarks / K	equirements		
No remarks						
Data Collected By: Mr. Jawad			Designation: Team Member		Sign & Date: 30-May-2023	
Data Checked By: Mr. M. Fiaz		Designation: Team Lead		Sign & Date: 30 May 2023		

3. Solid Waste Management





A.	Dumping Si	te					
Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Million)	Area (Acres)	Ownership
1	Pind Muridke	1	Fair	Functional	86.1	16	private

		Integr	ated Deve	lopn	nent And Ass	et Manage	ement Plan (IDAMP)	
	Municipal Committee Muridke							
Forn	n:		So	lid V	Waste Dump	ing Site	Asset Code:	
IDAMP-	-A11		Ass	et C	ondition Ass	essment	Date: 24-04-2023	
Name			Pin	d M	uridke		Pictures	
Location	Latitud	е	31.789133					
Location	Longitu	de	74	1.267	7101			
Address			Pin	d M	uridke			
Area (Acres	s)			16	5			
Distance fr	om urban	area		5 k	m			
Year the sit	te started	for		202))			
dumping se	ervice			202				
Average wa	aste dum _l	oed				K. Carl		
daily			Not	- Δνε	ailahle			
(based on information		Not Available				GPS Man Camera		
provided by MC)					TIL	Muridke, Punjab, Pakistan		
EHS SOPs fo	or waste		Not	Not Available			Q7Q9+F2J, Muridke, Sheikhupura, Punjab, Pakistan Lat 31.789133°	
handlers					Google	Long 74.267101°		
Availability			Yes		No	Joogle	27/03/23 12:24 PM GMT +05:00	
waste colle								
Expected L)	5					
Land Owne	<u>-</u>			Priva				
Site Access				Pod				
Surface Typ			Flat		Depressed			
Approach F		dition	Good	Fai				
Parking She			Yes		No	1.72	The state of the s	
Boundary \	Nall		Yes		No		GES Man Camara	
Gate			Yes		No	TIL	Muridke, Punjab, Pakistan	
Ramps			Yes		No	7	Q7Q9+F2J, Muridke, Sheikhupura, Punjab, Pakistan Lat 31.789166°	
Any Buildir			Yes		No	Foodla	Long 74.267095°	
Weigh Brid			Yes		No	Soogie	27/03/23 12:23 PM GMT +05:00	
	Earth Cover Arrangements		Yes		No			
Compactio			Yes		No			
Plantation			Yes		No			
Any illegal	-							
encroachm		erved-		No)			
if yes, type								
Remarks / Requirements								

be given a landfill site project for the better utilization of available land.

Presently MC collects solid wastes and dispose off at plain area dumping site i.e. 16 acres. This is not a proper disposal of solid wastes in respect of environment and utilization of land.MC should

Data Collected By: Mr. Jawad	Designation: Team Member	Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz	Designation: Team Lead	Sign & Date: 30 May 2023

B. Vehicles/ Machinery

	vernicles/ iviacinnery							
Sr #	Name	Registration Number	Quantity	Age (Years)	Condition	Status	Book Value (PKR Million)	Capacity
1	MF385	SAJ-13-14	1	10	Fair		0.3	85 HP
2	FIAT480	Not Registered	1	9	Fair		0.6	55 HP
3	MF260	SAJ-18-14	1	5	Good		1.2	60 HP
4	MF240	SAG-8365		24	Fair		0.1	46 HP
5	MF375	SAJ-18-13	1	5	Good		1.3	75 HP
6	MF385	Not Registered	1	4	Good		1.4	85 HP
7	MF240	SAG-4208	1	26	Fair		0.1	46 HP
8	MF385	SAH-402	1	15	Fair		0.2	85 HP
9	MF240	SAC-9381	1	24	Fair		0.2	46 HP
10	MF385	SAJ-13	1	8	Fair		0.4	85 HP
11	Containers 0.8 m3	N/A	27	-	Good		0.001	0.8 Cubic Meter
12	Garbage container 0.8 M3	N/A	397	1	Excellent	Functional	0.06	0.8 M3
13	Garbage Compactor 8 M3	Not Registered	5	1	Excellent	Functional	7.92	8 M3
14	Hand Cart conventional	N/A	180	1	Excellent	Functional	0.00	
15	Dump truck 10 M3	N/A	1	1	Excellent	Functional	10.62	10 M3
16	Mini tippers 1 M3	Not Registered	8	1	Excellent	Functional	0.95	1 M3
17	Wheel Excavator	Not Registered	1	1	Excellent	Functional	29.25	
18	Mobile Workshop	Not Registered	1	1	Excellent	Functional	4.68	
19	Water truck spray system	Not Registered	2	1	Excellent	Functional	4.68	
20	Aerial platform	N/A	1	1	Excellent	Functional	4.5	2 People

21	Sewer Jetting Machine 7000 liters	Not Registered	1	1	Excellent	Functional	0.00	7000 liters
22	Sewer Suction Machine 4500 liters	Not Registered	1	1	Excellent	Functional	0.00	4500 liters
23	Truck mounted Vacuum Sweeper 4 M3 (Not recieved yet)	Not Registered	1	1	Excellent	Functional	4.68	4 M3

Integ	rated Develo	pment a	and Asset Mana	gement Plan	(IDA	MP)		
	M	lunicipal	l Committee Mu	ıridke				
Form:		Mo	veable Asset			Asset Code:		
IDAMP-A16			ndition Assessm	ent		Date:	24-04-2023	
Type of Vehic	le / Machine	ery			P	ictures		
Tractor								
	Tracto		Tractor No.2	Tractor No	o.3	Tractor No.4	Tractor No.5	
Capacity		HP	55 HP	60 HP		46 HP	75 HP	
Purpose		Blade ider	Trolley	Trolley		Trolley	Trolley	
Year of Manufacturing		13	2014	2018		1999	2018	
Model	MF	385	FIAT480	MF260		MF240	MF375	
Capital Cost	.b. \ 1.0	77	012	505		070	Γ00	
Fuel Consumption (lit/mont Condition		77 ood	913 Good	595 Good		970 Fair	588 Good	
Engine Capacity	85		55 HP	60 HP		46 HP	75 HP	
Maintenance Cost		ailable	Not Available	Not Availa	ble	Not Available	Not Available	
Oiling /Fitness	Y	es	Yes	Yes		Yes	Yes	
Fitness Certificate	N	lo	No	No		No	No	
Registered	SAJ-1	L3-14	No	SAJ-18-1	4	SAG-8365	SAJ-18-13	
		Remar	ks / Requireme	nts				
No remarks								
Data Collected By: Mr. Jawad Designation: Te			nation: Team Me	tion: Team Member		Sign & Date: 30-May-2023		
Data Checked By: Mr. M. Fia	ecked By: Mr. M. Fiaz Designation			ation: Team Lead		Sign & Date: 30 May 2023		

	Integrated Development and Asset Management Plan (IDAMP)							(IDAMP)	
			Muni	cipal Com	mittee	e Muridke			
Form:				oveable A				Asset Co	
IDAMP-A16				ndition As	sessm	ent	Date: 24-04-2023		
Type of V	ehicle /	Machi	inery					Pictures	
Tractor									
		Tracto	r No.6	No.6 Tractor No.7 Trac		Tractor No	8.0	Tractor No.9	Tractor No.10
Capacity		85		46 H	P	85 HP		46 HP	85 HP
Purpose		Front Loa		Trolle	ey .	Trolley		Trolley	Front Blade Loader
Year of Manufacturin	g	20	19	1997	7	2008		1999	2015
Model		MF3		MF24		MF385		MF240	MF385
Capital Cost	ľ	Not Av	ailable	Not Avai	lable	Not Available		Not Available	Not Available
Fuel Consumption (lit/month)		45	50	920		1009		Non- Operational	1602
Condition		Go	od	Fair		Good		Poor	Good
Engine Capacity		85		46 H	Р	85 HP		46 HP	85 HP
Maintenance Cost	ľ	Not Av		Not Avai		Not Availal	ble	Not Available	Not Available
Oiling /Fitness		Ye		Yes		Yes		No	Yes
Fitness Certificate		N		No CA C. 45	200	No CALL 402		No SAG 0304	No
Registered		N		SAG-42		SAH-402		SAC-9381	SAJ-13
No remarks	• No remarks								
Data Collected By: Mr. Jawad Designation: Ted			ation: Tea	Team Member Sign & Date: 30-May					
Data Checked By: Mr. M. Fiaz Designation: Ted				ation: Tea	Walter		y 2023		

4. Building

Α.	Offices					
Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Million)	Area (Acres)
1	MC Office	10	Good	Functional	40	0.4

Integrated De	velopment an	d Asset Mana	gement Plan (IDAMP)				
	Municipal Committee Muridke						
Form:	Build	ing	Asset Code:				
IDAMP-A14	IDAMP-A14 Asset Condition Assessmen						
Name	MC C	Office	Pictures				
Latitude	31.80	8554					
Location Longitude	74.25	3049					
Address	Sheikhup	ura Road					
Year of Construction	20	13					
Land Area (Acres)	0.	.4					
No. of Stories	2	2					
Condition	Good Fa	air poor					
Purpose	MC A	ffairs					
No. of Staff	15	50					
No. of Rooms	2	3					
Conference/Meeting Room	Yes	No					
Store Room	Yes	No					
Study Room/Book Shelf	Yes	No					
Boundary Wall	Yes	No					
Heating & Cooling Arrangement	Yes	No	CI NAME OF THE PROPERTY OF THE				
Parking Lots	Yes	No					
Drinking Water Facilities	Yes	No					
Availability and quality of water							
(based on available water quality	Yes	No					
test reports)							
Washrooms / Sewerage System	Yes	No					
Separate Washroom for Ladies	Yes	No	GPS Nap Camera				
Prayers Area/room	Yes	No	Muridke, Punjab, Pakistan AH2, Muridke, Sheikhupura, Punjab, Pakistan				
Furniture	Yes	No	Lat 31.808554°				
Electric Appliances (Fans Etc.)	Yes	No	Long 74.253049° 27/03/23 11:27 AM GMT +05:00				
Machinery & Equipment	Yes	No	The state of the s				
Sports Club	Yes	No					
Staff Attendance System	Yes	No					
Emergency Alarm System	Yes	No					
Fire Fighting System / Equipment	Yes	No					
Ramps for wheel chairs at entry	Yes	No					
gate							
Security Guard	Yes	No					
Park/lawn outdoor/indoor plantation	Yes	No					
	Remarks	/ Requireme	nts				

Integrated Development and Asset Management Plan (IDAMP)								
Form: IDAMP-A14		Municipal Committee Muridke Building Asset Condition Assessment	Asset Code: Date: 24-04-2023					
No remarks								
Data Collected By: Mr. Jawad		Designation: Team Member	Sign & Date: 30-May-2023					
			Maylay					
Data Checked By: N	1r. M. Fiaz	Designation: Team Lead	Sign & Date: 30 May 2023					

B. Shops

Sr#	Location	Condition	Total	Area sq_ft	Book Value (PKR Mil)
1	Octroi Post/Chung (Railway Station, Muridke)	Fair	1	136	3.0

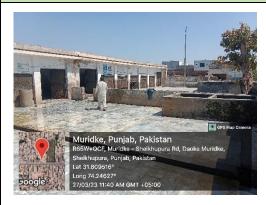
5. Public Places

A.	Slaughterhouse							
Sr #	Name	Age (Years)	Condition	Area (Acres)	Book Value (PKR Million)			
1	Slaughterhouse	32	Fair	0.25	1.5			

Asset Code:

Date: 24-04-2023

		Integrated D	evelopm	ent	and	Asset N	Management Plan (IDAMP)
		e Muridke					
Form:						ouse	As
IDAMP-A	15	A	sset Con				
Name			Slaug				Picture
Location	Latitu				0957		
	Longi	itude	-		636		
Address			Daok	œ, I	Muri	idke	
Year of Con	structi	on		19			
Total Area (Acres)			0.2	25		
Ownership				M	С		
Slaughter Capacity	Larg	er Animals		40-	45		Muridke, Punjab, Pa
(Per Day)	Sma	ller Animals		55-	60		R65W+QCF, Muridke - Sheik Sheikhupura, Punjab, Pakist Lat 31.809516°
Supervisor			Yes			No	Doogle Long 74.24627° 27/03/23 11:40 AM GMT +0:
Doctor's Ro	om		Yes		No		
Inhabitatio	n Facili	ty	Yes		No		1
Slaughterin	g Hall		Yes		No		TI
Evisceration	Hall		Yes		No		2
Meat Cuttin	g Roo	m	Yes		No		
Blood Colle	ction A	rrangements	Yes		No		
Skin Storage	e Roon	n	Yes		No		
Tools Disinf	ectant	System	Yes			No	
Health and	Hygien	ie SOPs	Yes		No		
Refrigeratio	n / Sto	orage System	Yes			No	
Separate Facility for Sick Animals		Yes			No		
Water Supply System		Yes			No		
Drainage & Disposal Facility		Yes			No		
Solid Waste Collection Facility		Yes			No	Muridke, Punjab,	
Boundary Wall & Gate		Yes		No		R65W+QCF, Muridke - S Sheikhupura, Punjab, Pal Lat 31.80957°	
Approach R	oad Co	ondition	Good	Fa	air	Poor	Lat 31.8095/° Long 74.246369° 27/03/23 11:41 AM GMT
Civil Structu	re Con	dition	Good	Fa	air	Poor	2//05/25 11-41 AM GMT
		·					



Pictures



Remarks / Requirements

No remarks

Data Collected By: Mr. Jawad	Designation: Team Member	Jawad-
		Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz	Designation: Team Lead	Maypy
		Sign & Date: 30 May 2023

В. **Bus Stand**

Sr #	Name	Age (Years)	Condition	Area (Acres)	Book Value (PKR Million)
1	Bus Stand	6	Fair	1.3	50

		Integrate	ed Dev	/elopm	ent and	d Asset	t Management Plan (IDAMP)
				Muni	cipal Co	ommit	tee Muridke
Form:					Bus St		Α.
IDAMP-A12							ssment
Name			G		Bus Sta	nd	Picture
Location	Latitude				9670		
	Longitud	e			2653		WE
Address			[Daoke I	Muridk	e	
Year of Cons	truction			20	17		
Last Major R	enovatio	n		Not Av	⁄ailable		
Area (Acres)				1	.3		
Ownership				N	1C		
Class			Α	В	С	D	
Designed	Buses			Not Av	ailable		Muridke, Punjab, Pakis R753+R2V, Daoke Muridke,
Capacity of	Coaster	s		Not Av	ailable/		Lat 31.809523° Long 74.252472°
Vehicles	Wagons	}		Not Av	ailable		Google 24/03/23 12:47 PM GMT +0
Daily parking of	Buses			20	-25		
vehicles (based on	Coaster	s		,	_		
information	Wagons	3		60	-70		
provided by MC)	Ricksha		10-15				
Distance from	n the urb	an area		Withi	n City		
Security	At Entry	<u> </u>	Y	'es	N	0	Muridke, Punjab, Pakis
	At Exit		Y	'es	No		R753+R4P, Muridke - Sheikhupu Punjab, Pakistan
Gate	At Entry	<i>'</i>	Y	'es	N	0	Lat 31.809832° Long 74.252716° 27/03/23 04:06 PM GMT +05:06
Gate	At Exit		Y	'es	N	o	
Waiting	Men		Y	'es	N	0	
Area	Families	3	Υ	'es	N	0	
	Male		Υ	'es	N	0	
Washroom	Female		Υ	'es	N	0	一人多意思
Prayer	Male		Υ	'es	N	0	
Room	•		Y	'es	N	0	PH Chronic Co.
Administration Office		Y	'es	N	0	THE PARTY OF THE P	
Parking Stan	Ricksh	aw	Y	'es	N	0	Muridke, Punjab, Pakis R753+R2V, Daoke Muridke,
	Cars		Y	'es	N	0	Lat 31.809574° Long 74.252364°
Fuel Outlets			Y	'es	N	0	300gle 24/03/23 12:46 PM GMT +
Reception De	esk		Y	'es	N	0	
Ticketing System		Y	'es	N	0		



Pictures

Asset Code:

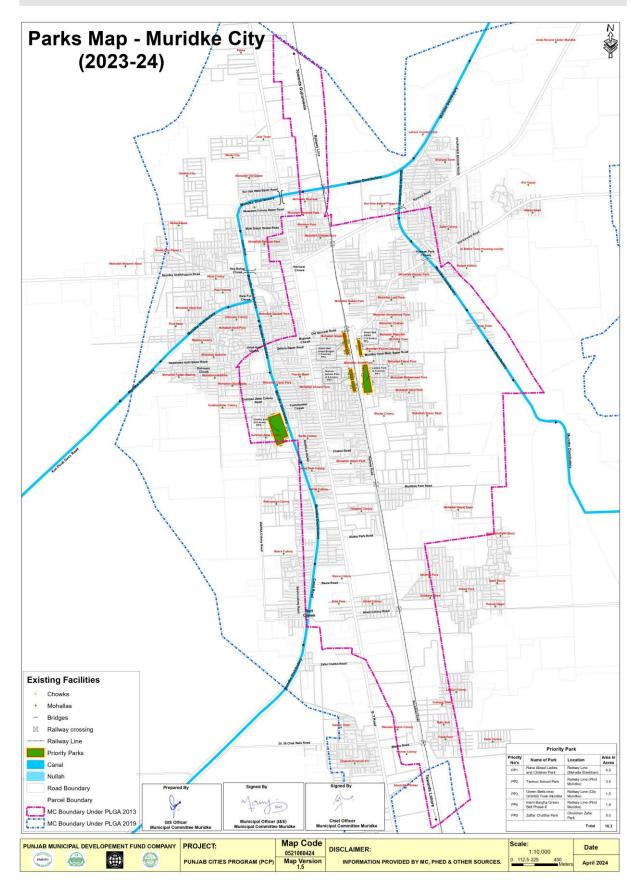
Date: 24-04-2023





	Integrated Development and Asset Management Plan (IDAMP)										
			ľ	/lunici	pal Cor	nmit	tee Muridke				
Form:				E	Bus Sta	nd		Asset Code:			
IDAMP-	A12		Ass	et Con	dition	Asse	ssment	Date: 24-04-2023			
Tuck Shop			Yes		No						
Workshop			Yes		No						
Ablution Are	a		Yes		No						
Pedestrian			Yes		No						
Green Spaces	S		Yes		No						
Water Drinki	ng Arran	gement	Yes		No						
Water Dispos	sal Arrang	gement	Yes		No						
Boarding She	ed		Yes		No						
Workshops			Yes		No						
Lighting			Yes		No						
Boundary Wa	all		Yes	Yes		No					
Flooring &	Туре		T	Tuff Pav		avers					
Pavement	Condition	on	Good	ood Fair Poor							
				Rem	arks /	Requ	irements				
No rema	arks										
Data Collected By: Mr. Jawad			De	Designation: Team Member			1ember	Jawad-			
								Sign & Date: 30-May-2023			
Data Checked By: Mr. M. Fiaz			De	Designation: Team Lead			ead	Maypy			
								Sign & Date: 30 May 2023			

C. Parks



Sr #	Name	Condition	Area	Book Value (PKR Million)
1	Imam Bargah Park	Good	1.5	171.6
2	Techno Park	Poor	1.5	171.6
3	Ladies Children Park	Good	4.75	543.4
4	Boranwala (Pind muridke)	Fair	1	114.4
5	Chatha Park	Good	9	1029.6

		Integra	ted Develo	pme	nt an	d Asset N	lanagement Plai	n (IDAMP)			
			N	lunic	ipal C	Committee	e Muridke				
Form:			Asset	Park A							
Name			Ima	m Ba	rgah I	Park		Pictur			
_	Latitud	е		31.80)2596						
Location	Longitu	ıde		74.25	8666						
Area In Acre	S			1	.5						
Ownership-Opossession a by any other (documents	llocated depart	to MC ment		N	1C						
Turfing Cond	lition		Good	Fa	air	Poor	第二条上系	market 12			
Approach Ro	oad		Good	Fa	air	Poor		Z			
Parking Lots			Yes			No		And the second second			
Canteen Ava	ilability	,	Yes			No		dke, Punjab, Pak			
Average nun visitors (based on th MC staff)		-	N	ot Av	ailab'	Lat 31. Long 7	X74, Mohalla Sheikhan 802596° 4.258666° (23 11:14 AM GMT +05:				
Any illegal of encroachme yes, type	-		Not Available								
Security syst	em		Yes			No					
	\	Watering 8	& Irrigation					A THE			
Tube Well			~ .		'es	No					
Water Supply from Municipal : Water Tank			system		' <mark>es</mark> 'es	No No	Muri	dke, Punjab, Pak			
Pumping Unit					'es	No	R725+	uke, Fulijab, Fak X74, Mohalla Sheikhan 802541°			
Distribution Pipe Lines					'es	No	Long 7	'4.258569° '23 11:14 AM GMT +05:			
Valves					'es	No	Soogle				
Sprinkler System				Υ	'es	No					
Ground water				1	'es	No					
6 5 1	Laı	ndscaping	& Plantati		,		_				
Grass Beds				Y	'es	No	_				



Pictures

Asset Code: _

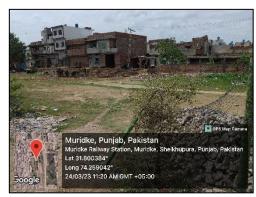
Date: 24-04-2023



Flower Beds		Yes		No
Hedges				No
Plants				No
Number of trees and	d species	Yes		
(based on readily av	=	Not Available		
at MC)				
- ,	Lights	1		
Total Number	8		9	
Poles		Yes		No
Cables		Yes		No
Brackets And Lights		Yes		No
Bulbs And Tubes		Yes		No
Control Units		Yes		No
	Structures			-
	Gents		-	
No. of Toilets	Ladies		-	
	Gents		-	
Condition of Toilets	Ladies		_	
Buildings		Yes		No
Fountains & Water I	Fall Structure	Yes		No
Walkways		Yes		No
Jogging tracks		Yes		No
Ramps at entry gate	s for wheel chairs	Yes		No
Bridges & Culverts		Yes		No
Play Area		Yes		No
Gazebos		Yes		No
Benches/ sitting arra	angements	Yes		No
Boundary Wall & Ga		Yes		No
Toilets		Yes		No
Lakes & Brooks		Yes		No
	lechanical Equipmer			
Pumping Units	1- 1- 1-	Yes		No
Swings		Yes		No
Children Games		Yes		No
Fixtures		Yes		No
Benches		Yes		No
	nitation & Water Sup			
Litter Bins		Yes		No
Condition of SWM		Good	Fair	_
Toilet Fixtures		Yes		No
Sewerage System		Yes		No
Vegetation Cuttings	& Disposal	Yes		No
Drinking water avail				
(based on availabilit		Not	Avail	lable
test reports)				
Water Pipes		Yes		No
•	HR			
Security Guards		Yes		No
Landscape Experts		Yes		No
Mali / Beldaar (Num	iber)	Yes		No
			ks / I	Require
No remarks				,
110 10110110				

Data Collected By: Mr. Jawad	Designation: Team Member	Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz	Designation: Team Lead	Sign & Date: 30 May 2023

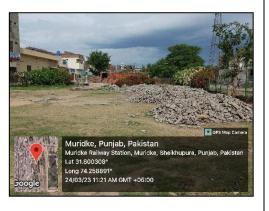
		Integra					lanagement Pla	n (IDAMP)
			M	lunici	pal C	ommittee	e Muridke	
Form IDAMP-			Asset	Conc	Par lition	k ı Assessm	ent	A
Name			Т	echno	o Par	k		Pictur
_	Latitud	le	3	31.80	0080	ı		
Location	Longitu	ıde	-	74.25	9343			
Area In Acre				1.	5			
Ownership-	Owned	by MC or						
possession a				М	C			
by any othe	-			171	C		Market Barrier	
(documents		le)					100	*
Turfing Cond	dition		Good	Fa	ir	Poor		
Approach Ro	oad		Good	Fa	ir	Poor	N	
Parking Lots			Yes			No		
Canteen Ava	ailability	,	Yes No					
Average nur	nber of	daily					100 C. 100 M	idke, Punjab, Pak
visitors		_	N	ot Av	ailab	le	Muri	dke Railway Station, Mi 1.800384°
(based on th	ie asses	sment of				-	Long	74.259042° 3/23 11:20 AM GMT +0
MC staff) Any illegal o	ccupant	rs or					Soogle 27	
encroachme	-		N	ot Av	ailah	او		
yes, type							(
Security syst	tem		Yes			No		
	1	Natering 8	k Irrigation	<u> </u>				
Tube Well				Y	es	No		
Water Suppl	y from I	Municipal S	System	Y	es	No	To work and bury	
Water Tank				Y	es	No	Company of the last of	-
Pumping Unit				-	es	No	Mul	idke, Punjab, Pak
Distribution Pipe Lines					es	No		dke Railway Station, Mi 1.800308°
Valves Sprinkler System					es	No	Google Long	74.258891° 3/23 11:21 AM GMT +0
Sprinkler System Ground water storage reservoi			irs/pands	Yes Yes		No	CHARLE .	
Ground Wale			& Plantati		-3	No		
Grass Beds	Lai	iascaping	<u> </u>	1	es	No		
Flower Beds					es	No		
Hedges					es	No		
Plants				Y	es	No		



Asset Code:

Pictures

Date: 24-04-2023



Number of trees and	d snacias			
	-	ion No	nt Δv	ailable
(based on readily available information at MC)		INC	NOT Available	
Lights				
Total Number	0			_
Poles		Ye	es	No
Cables		Ye		No
Brackets And Lights		Ye		No
Bulbs And Tubes		Ye		No
Control Units		Ye		No
	Structures			
	Gents		()
No. of Toilets	Ladies)
	Gents			-
Condition of Toilets	Ladies			_
Buildings	1 = 3.0.00	Ye	<u>.</u>	No
Fountains & Water F	Fall Structure	Ye		No
Walkways		Ye		No
Jogging tracks		Ye		No
Ramps at entry gate	s for wheel chair			No
Bridges & Culverts		Ye		No
Play Area		Ye		No
Gazebos		Ye		No
Benches/ sitting arra	angements	Ye		No
Boundary Wall & Ga		Ye		No
Toilets		Ye		No
Lakes & Brooks		Ye		No
	lechanical Equip			
Pumping Units	-11	Ye	es	No
Swings		Ye		No
Children Games		Ye		No
Fixtures		Ye		No
Benches		Ye		No
	nitation & Water			
Litter Bins		Ye	es	No
Condition of SWM		Ye		No
Toilet Fixtures		Ye		No
Sewerage System		Ye		No
Vegetation Cuttings	& Disposal	Ye		No
Drinking water avail				
(based on availabilit	•	•	ot Av	ailable
test reports)	,	, ···		
Water Pipes		Ye	<u>!</u> S	No
p	HR	,	-	
Security Guards		Ye	<u>.</u>	No
Landscape Experts		Ye		No
Mali / Beldaar (Number)		Ye		No
, , , , , , , , , , , , , , , , , , , ,	- ,			/ Require
No remarks				
0 . 6			_	
Data Collected By: N	⁄Ir. Jawad	Designatio	on: T	eam Mem
		<u> </u>		

Data Checked By: Mr. M. Fiaz	Designation: Team Lead	Waltha
		Sign & Date: 30 May 2023

Asset Code: _

Date: 24-04-2023

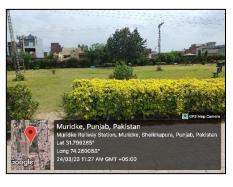
		Integra	ted Develo	pment an	d Asset M	anagement Plan (IDAMI
			M	unicipal (Committee	Muridke	
Form			A t	Par			
IDAMP-	AIU		Asset	Condition	n Assessm	ent	
Name			Ladie	s Children	Park		Pic
	Latitud	le	3	31.799282)		
Location	Longitu	ıde	-	74.260068	3]	
Area In Acre	es			4.75			660
Ownership-	Owned	by MC or				100000000000000000000000000000000000000	
possession a		-		NAC			
by any othe	r depart	ment		MC			100000
(documents	availab	le)	,			Lengung	uulluuut
Turfing Cond	dition		Good	Fair	Poor		
Approach Ro	oad		Good	Fair	Poor		e, Punjab Railway Stati 19249°
Parking Lots	1		Yes		No	Long 74.	
Canteen Ava	ailability	,	Д	bandone	d	TO SECOND	
Average nur							
visitors		•	NI.	ot Availab	lo.		
(based on th	ne asses	sment of	IN	ot Avallab	ie	William Ball	
MC staff)							Yana ara
Any illegal o	-						
encroachme	ents obs	erved-if	N	ot Availab	le		
yes, type	tom		Yes		No	Muridk	e, Punjab
Security syst		Matarina S	R Irrigation		INO	Muridke Lat 31.79	Railway Stati 9285°
Tube Well	<u>'</u>	watering c	x III igation	Yes	No	Long 74. 24/03/23	259997° 3 11:26 AM G
Water Suppl	v from I	Municipal 9	System	Yes	No	ase (Fus)	
Water Tank	,		7,000	Yes	No	Walley Land	
Pumping Un	it			Yes	No		
Distribution	Pipe Lin	es		Yes	No	*	1
Valves				Yes	No		
Sprinkler Sys				Yes	No		1 1
Ground wate			•	Yes	No	The state of the s	
Caran Davida	Lai	ndscaping	& Plantati		N	Muridk	e, Punjab
Grass Beds Flower Beds				Yes Yes	No No	Lat 31.79	
Hedges				Yes	No		260066° 3 11:27 AM G
Plants				Yes	No		
Number of t	rees and	d species					77.11
(based on re		-	ormation	Not A	vailable		
at MC)							Via differ
		Lig	hts	1			
Total Number	er				LO No		1
Poles Cablos				Yes	No		
Cables Brackets And	d Lights			Yes Yes	No No	Muridk	e, Punjab Railway Stati
Bulbs And Ti				Yes	No	Lat 31.79	
Control Unit				Yes	No		3 11:27 AM G
		Struc	tures				
No. of Toilet	S	Gents			0		
		-	-		-		



Pictures







	Ladies			4				
Condition of Toilets	Gents			Fai	r			
Condition of Tollets	Ladies			Fai	r			
Buildings			Yes		No			
Fountains & Water F	all Structure		Yes		No			
Walkways			Yes		No			
Jogging tracks			Yes		No			
Ramps at entry gate	s for wheel chai	irs	Yes		No			
Bridges & Culverts			Yes		No			
Play Area			Yes		No			
Gazebos			Yes		No			
Benches/ sitting arra	ingements		Yes		No			
Boundary Wall & Ga			Yes		No			
Toilets			Yes		No	\dashv		
Lakes & Brooks			Yes		No			
	lechanical Equi	nmen			.10			
Pumping Units	icenamear Equi	וושוויק	Yes		No	\dashv		
Swings			Yes		No	\dashv		
Children Games			Yes		No			
	_							
Fixtures			Yes		No			
Benches			Yes		No			
	itation & Wate	r Supp						
Litter Bins			Yes		No			
Condition of SWM			Good	Fai		r		
Toilet Fixtures			Yes		No			
Sewerage System			Yes		No			
Vegetation Cuttings			Yes		No			
Drinking water availa		-						
(based on availability	y of water quali	ty	Not	Ava	ilable			
test reports)								
Water Pipes			Yes		No			
	HR		•					
Security Guards			Yes		No			
Landscape Experts			Yes		No			
Mali / Beldaar (Num	ber)		Yes		No			
			Remar	ks /	Requi	rer	ments	
 No remarks 								
Data Collected By: N	Ir. Jawad	Desi	esignation: Team Memb			rml		Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz Des			esignation: Team Lead			Sign & Date: 30 May 2023		

Pictures

Asset Code: _

Date: 24-04-2023

		Integrat	ted Develo	pment	an	d Asset M	anagement Plan (IDAMP)
							e Muridke	
Form IDAMP-			Asset		Parl	k Assessm	ent	A
Name			Boranwa	ala (Pin	d m	nuridke)		Pictur
	Latitud	le		31.802	295			
Location	Longit	ıde		74.259			-	
Area In Acre				1			-	
Ownership-	Owned	by MC or					<u>-</u>	
possession a by any othe (documents	r depart	ment		MC				
Turfing Con		icj	Good	Fair		Poor		
Approach R			Good	Fair		Poor		
Parking Lots			Yes			No	ANNONA	
Canteen Ava		ı	Yes			No		افتتاج
Average nur visitors (based on th MC staff)	mber of	daily		Not Available		R725+XJ Lat 31.80 Long 74.		
Any illegal of encroachme yes, type			N	ot Avai	labl	le		
Security sys	tem		Yes			No		
		Natering 8	k Irrigation					
Tube Well				Yes	5	No		
Water Supp	ly from I	Municipal 9	System	Yes	5	No		SAME NES
Water Tank				Yes		No		
Pumping Un				Yes		No		, Punjab, Paki
Distribution Valves	Pipe Lin	es		Yes		No No	R725+XJ Lat 31.80	IJ, Muridke, She 02295°
Sprinkler Sys	stem			Yes		No	Joogle Long 74.	259704° 3 11:34 AM GM ⁻
Ground wat		ge reservoi	irs/ponds	Yes		No		
			& Plantation					
Grass Beds				Yes	5	No		
Flower Beds	<u> </u>			Yes	5	No		
Hedges				Yes		No		
Plants Number of t	roos and	d species		Yes	5	No		
(based on reat MC)		-	ormation	No	t Av	/ailable	W. Wildall Minde	Duniah Baki
		Lig	hts				R725+XJ	, Punjab, Paki JJ, Muridke, Sh
Total Numb	er)	Lat 31.80 Long 74.	259751°
Poles				Yes		No	24/03/23	3 11:34 AM GM
Cables Brackets An	d Lights			Yes		No No	-	
Bulbs And T				Yes		No	-	
Control Unit				Yes		No	1	
		Struc	tures]	
No. of Toilet	ts	Gents			()		







	Ladies		()		
Condition of Toilets	Gents		-	-		
Condition of Tollets	Ladies		-	-		
Buildings			Yes	No		
Fountains & Water F	all Structure		Yes	No		
Walkways			Yes	No		
Jogging tracks			Yes	No		
Ramps at entry gate	s for wheel chai	rs	Yes	No		
Bridges & Culverts			Yes	No		
Play Area			Yes	No		
Gazebos			Yes	No		
Benches/ sitting arra	angements		Yes	No		
Boundary Wall & Ga			Yes	No		
Toilets			Yes	No		
Lakes & Brooks			Yes	No		
N	1echanical Equip	omen	t]	
Pumping Units			Yes	No	1	
Swings			Yes	No	1	
Children Games			Yes	No		
Fixtures			Yes	No		
Benches			Yes	Yes No		
San	itation & Water	r Supp				
Litter Bins			Yes	No		
Condition of SWM						
Toilet Fixtures			Yes	No		
Sewerage System			Yes	No		
Vegetation Cuttings	& Disposal		Yes	No		
Drinking water avail		tv				
(based on availabilit		-	Not Available			
test reports)						
Water Pipes			Yes	No		
·	HR					
Security Guards			Yes	No		
Landscape Experts			Yes	No		
Mali / Beldaar (Num	ber)		Yes	No		
				/ Require	ments	
No remarks						
	Data Collected By: Mr. Jawad Design		gnation: T	eam Mem	ber	Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz Desi		esignation: Team Lead			Sign & Date: 30 May 2023	

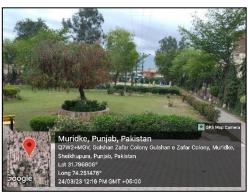
Pictures

Asset Code: _

Date: 24-04-2023

		Integra	ted Develo	pment an	d Asset M	lanagement Plan (IDAMP)
			М	unicipal C	Committee	e Muridke	
Form IDAMP-			Asset	Par Condition	k n Assessm	ent	A
Name			С	hatha Par	k		Pictur
	Latitud	le	3	31.795978	}		
Location	Longitu	ıde		74.251396			
Area In Acre				9	•	-	
Ownership-	Owned	bv MC or				1	
possession		-		N 4 C			
by any othe	_			MC			1.1
(documents	availab	le)			ı		بارب
Turfing Con	dition		Good	Fair	Poor		MARIA BOAR
Approach R	oad		Good	Fair	Poor	الح ماع	
Parking Lots	5		Yes		No	P-163)	ለ ልዕ
Canteen Ava	ailability	,	Д	bandone	t	CALCAL CONTROL OF THE STATE OF	
Average nui	mber of	daily				EMAZ EMAZ	
visitors			N	ot Availab	ام	Q7W2+MG	, Punjab, Paki V, Gulshan Zafar Co
(based on th	ne asses	sment of	NOT Available			Lat 31.7968	
MC staff)							2:16 PM GMT +05:0
Any illegal o			NI	ot Availab	ما		
yes, type	21112 0112	erveu-ii	INC	Ji Avallab	ie	AND AND	10
Security sys	tem		Yes		No		
.,.,.		Natering 8	& Irrigation				
Tube Well			0	Yes	No		
Water Supp	ly from I	Municipal S	System	Yes	No	And thousand the	
Water Tank				Yes	No		
Pumping Un				Yes	No	Muridke	, Punjab, Paki
Distribution	Pipe Lin	es		Yes	No		V, Gulshan Zafar Co a, Punjab, Pakistan
Valves	ctom			Yes	No	Long 74.25	
Sprinkler Sys Ground wat		reservo	irs/nands	Yes Yes	No No	24/03/23 12	2:16 PM GMT +06:0
Ground wat			& Plantation		140		
Grass Beds				Yes	No		
Flower Beds	;			Yes	No		
Hedges				Yes	No		
Plants				Yes	No		- Lanney
Number of t						and the same of th	
(based on re	eadily av	ailable into	ormation	Not A	/ailable		
at MC)		lia	hts				, Punjab, Paki V, Gulshan Zafar Co
Total Numb	er	LIB	1113		8	Sheikhupur Lat 31.7967	a, Punjab, Pakistan '92°
Poles	- -			Yes	No	Long 74.25	
Cables				Yes	No		111111111
Brackets An	d Lights			Yes	No		
Bulbs And T	ubes			Yes	No		
Control Unit	is			Yes	No	1	
		Struc	tures	ı		_	
No. of Toilet	ts	Gents			2		

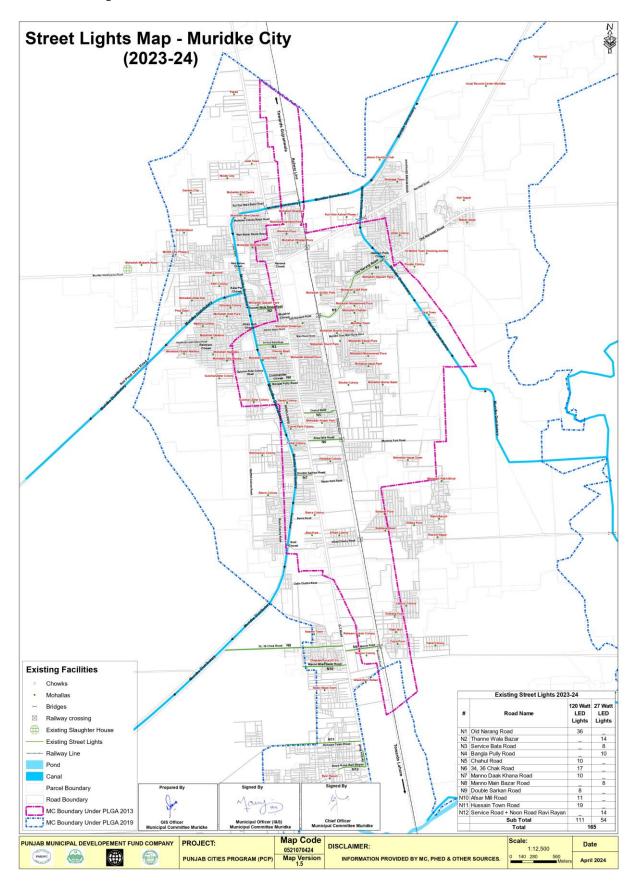






	Ladies		2	2		
Condition of Toilets	Gents		Go	od		
Condition of Tollets	Ladies		Go	od		
Buildings			Yes	No		
Fountains & Water I	all Structure		Yes	No		
Walkways			Yes	No		
Jogging tracks			Yes	No		
Ramps at entry gate	s for wheel chai	rs	Yes	No		
Bridges & Culverts			Yes	No		
Play Area			Yes	No		
Gazebos			Yes	No		
Benches/ sitting arra	angements		Yes	No		
Boundary Wall & Ga			Yes	No		
Toilets			Yes	No		
Lakes & Brooks			Yes	No		
	lechanical Equi	pmen				
Pumping Units			Yes	No	1	
Swings			Yes	No	1	
Children Games			Yes	No	-	
Fixtures			Yes	No		
Benches			Yes	No	-	
	nitation & Wate	r Sunr		110		
Litter Bins	mation & wate	Jup	Yes	No	-	
Condition of SWM			Go		-	
Toilet Fixtures			Yes	No	-	
Sewerage System			Yes	No		
Vegetation Cuttings	9. Disposal		Yes	No		
Drinking water avail		i+\/	163	NO		
(based on availabilit		-	Not Available			
test reports)	y or water quair	Ly	NOL AV	allable		
Water Pipes			Yes	No		
vvater ripes	HR		163	INO		
Security Guards	IIIX		Yes	No	-	
Landscape Experts			Yes	No		
Mali / Beldaar (Num	har)		Yes	No		
Ivian / Beidaar (Ivan	iber j			/ Require	ments	
No remarks			Kemarks	/ Nequire	incits	
- NOTEIIIAINS						
Data Collected By: N	pata Collected By: Mr. Jawad Desig		gnation: Team Member		ber	Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz Desi		esignation: Team Lead			Sign & Date: 30 May 2023	

6. Streetlights



	Streetlights	MC Operated	Privately Operated
Operational Street Lights	141	107	34
Non-Operational Street Lights	53	50	3
Meter Disconnected	68	68	0
Total	262	225	37

Operated by	Precast Concrete	Steel Structure	Tubular Steel	Wall Mounted	Grand Total
MC	46	113	38	2	199
Private		2	24		26

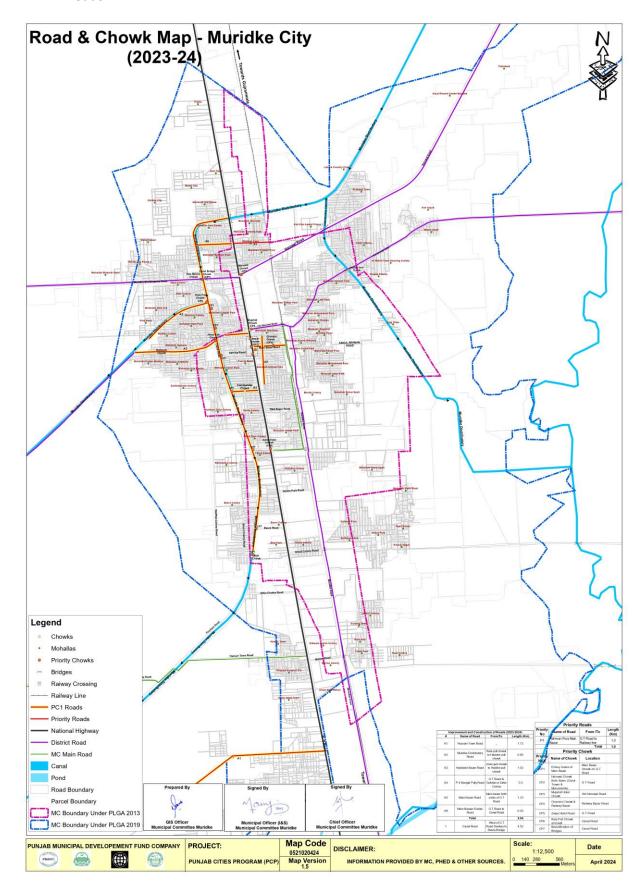
Inte		opment and Asset Manage		IDAMP)			
_	Municipal Committee Muridke						
Form:	Street Lights Asset Condition Assessment			Asset Code: Date: 24-04-2023			
IDAMP-A9		Di	ate: 24-04-2023				
		Pictures		W1/ /			
	THE PARTY OF THE P						
		Type of Luminaries			Poles Type		
Area		Led (27w/120w)	Total	Operational Status	(WAPDA Pole / MC Pole)		
Police Station Bazar Muridke		15	15	Not Available	Not Available		
Service Bazar		11	11	Not Available	Not Available		
Bangla Road		11	11	Not Available	Not Available		
Hassain Town		18	18	Not Available	Not Available		
Ravi Rayan		14	14	Not Available	Not Available		
Akhtar Mills Road		10	10	Not Available	Not Available		
Ladies and Children Park		32	32	Not Available	Not Available		
Green Park Muridkey Town		9	9	Not Available	Not Available		
Muridkey Town purana naran	g road.	41	41	Not Available	Not Available		
Lari Ada		12	12	Not Available	Not Available		
Double Road		8	8	Not Available	Not Available		

34-36 Bazar	17	17	17 Not Available Not Availab			
Manu Main Bazar	8	8	8 Not Available Not Availab			
Raheem Baksh Colony	10	10	10 Not Available Not Available			
Chahal Road	9	9	9 Not Available Not Available			
Chatha Park	26	26	Not Available	Not Available		
Imam Bargha Park 11 11 Not Available Not Av				Not Available		
	Remarks / Requirements					
Out of the 262 lights in the MC	, only 141 lights were found to be	c operatio				
Data Collected By: Mr. Jawad Designation: Team Member						
Sign & Date: 30-May-2023						
Data Checked By: Mr. M. Fiaz	Designation: Team Lead		Mayby			
		Sign	& Date: 30 May	2023		

Out of the 262 lights in the MC, only 141 lights were found to be operational. Details are given in the following table:

Operational Street Lights							
Equipment Type	Wattage of Lighting	Quar	ntity	Daily Operational			
Equipment Type	Fixture	MC	Private	Hours			
LED	27	14	-	12.0			
LED	120	93	34	12.0			
Total		14	1				

7. Roads



Sr#	Road Name	R.O.W (ft)	Existing Type	Length (km)
1	Canal Road (Both sides of canal)	46	Asphalt	5
2	Shahzad town road (Both sides of canal)	44	Asphalt	2
3	Kala Pull to City boundary	40	Asphalt	2
4	Sui Gas Road	25	Asphalt	0.50
5	Main rail bazar	20	TST	0.63
6	Karkana Bazar	20	TST	0.44
7	TMA bazar	15	TST	0.38
8	Chahul Road	20	TST	0.38
9	Bismillah Service station street	15	TST	0.63
10	Masjid Muhajiran road	20	TST	0.50
11	Chakiwala Bazar Daoky	-	Asphalt	0.23
12	Mian Bazar Daoky	-	Asphalt	0.30

	Integrated Development and Asset Management Pla	an (IDAMP)						
Municipal Committee Muridke								
Form:	Road	Asset Code:						
IDAMP-A8	Asset Condition Assessment	Date: 24-04-2023						
	Pictures							

Sr. No.	Road Name	TST, Asphalt Or Concrete Pavers	Row (Ft)	Paved Width (Ft)	Approx. Length (Km)	Condition
1	Canal Road (Both sides of canal)	Asphalt	46		5	Fair
2	Shahzad town road (Both sides of canal)	Asphalt	44		2	Fair
3	Kala Pull to City boundary	Asphalt	40	Not	2	Fair
4	Sui Gas Road	Asphalt	25		0.50	Fair
5	Main rail bazar	TST	20	Availabl e	0.63	Poor
6	Karkana Bazar	TST	20		0.44	Poor
7	TMA bazar	TST	15		0.38	Poor
8	Chahul Road	TST	20		0.38	Poor

		Integrated D	evelopment and Asso			Plan (IDAMP)				
ID	Form: OAMP-A8	, and the second	Municipal Comm Road Asset Condition Asses		ke		Asset Code: Date: 24-04-2023			
9	Bismillah Ser	vice station street		TST	15	i	0.63	Poor		
10	Masjid Muha	ijiran road		TST	20)	0.50	Poor		
11	Chakiwala Ba	zar Daoky		Asphalt	-		0.23	poor		
12	Mian Bazar D	aoky		Asphalt	-		0.30	poor		
			Remarks / Red	uirements						
• 1	No remarks									
Data (Collected By: I	Mr. Jawad	Designation: Team I	Designation: Team Member			Sign & Date: 30-May-2023			
Data (Checked By: N	1r. M. Fiaz	Designation: Team Lead			Sign & Date: 30 May 2023				

8. Office Vehicles

Sr #	Name	Registration Number	_	Condition	Status	Book Value (PKR Million)	Capacity
1	Car 1	SAG 8393	17	Fair	Functional	0.3	1000 cc
2	Car 2	SAD-1425	31	Poor	Functional	0.15	1000 cc
3	Jeep	SAG-8115	17	Fair	Functional	0.5	1000 cc

Inte	egrated Development and As Municipal Comn		DAIVIP)
Form: IDAMP-A16	Moveable As Asset Condition Ass		Asset Code: Date: 24-04-2023
12111111111111111	cle / Machinery		ctures
rype or venic	ie / Machinery	PII	ctures
Cars & Jeeps			
	Car No.1	Car No.2	Jeep No.1
Capacity	1000 cc	1000 cc	1000 cc
Purpose	Office Use	Office Use	Office Use
Year of Manufacturing	2006	1992	2006
Model	Cultus	Sunny	Potohar
Capital Cost	Not Available	Not Available	Not Available
Fuel Consumption (lit/month)	217	214	152
Condition	Fair	Poor	Fair
Engine Capacity	1000 cc	1000 cc	1000 cc
Maintenance Cost	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	Yes
Fitness Certificate	No	No	No
Registered	Yes	Yes	Yes
	Remarks / Re	quirements	
No remarks			

Data Collected By: Mr. Jawad	Designation: Team Member	Sign & Date: 30-May-2023
Data Checked By: Mr. M. Fiaz	Designation: Team Lead	Sign & Date: 30 May 2023

9. Shop

	Integrated Development and Asset Management Plan (IDAMP)													
	Municipal Committee Muridke													
Forn	n: IP-A17						Asse	Shop et Condition As	sessment			А	sset Code: Date: 24	l-04-2023
SR.	Shop Code	Property Address	Latitude	Longitud e	Area (Sqft)	No of Storie s	Property Location Status	Ownershi p Status	Encroach ment Status	Litigation Exist	Current Status	Conditio n	Tenant Name	Busin ess
1	07001	Railway Station, Muridke	31.801820 84	74.258376 33	136				No	No	Rented/L eased	Good	Shahid Malik	Rental Purpos e
	erage core		1			2			3			4		5
	sset ndition		Excellent			Good			Fair			Poor		ing
Ca	tegory		Α			В			С			D		
		Data Collecte	d By: Mr. Jawa	d		Designation: Team Member					Jawad-			
		Data Checked	l By: Mr. M. Fia	IZ	Designation: Team Lead					Sign & Date: 30-May-2023 Sign & Date: 30 May 2023				

Annexure B. Projects Coding Scheme:

Region Name	Region Code	МС	MC Code	Property Types	Property Type Code	Sub Property Types	Sub Property Type Code	Unique Codes
						Tube wells	01	01-05-01-01-XX
						Water Supply Network (ft)	02	01-05-01-02-XX
				Water Supply	01	OHR	03	01-05-01-03-XX
				System		Filtration Plants	04	01-05-01-04-XX
						Vehicles	05	01-05-01-05-XX
						GST	06	01-05-01-06-XX
						Sewerage Network (ft)	01	01-05-02-01-XX
				Sewerage System	02	Disposal Stations	02	01-05-02-02-XX
			ke 05	,		Vehicles	03	01-05-02-03-XX
				Solid Waste		Dumping site	01	01-05-03-01-XX
Northern		Muridke		Management	03	Vehicles	02	01-05-03-02-XX
Punjab	01			System		Parking Shed	03	01-05-03-03-XX
				Roads and Streets		Roads	01	01-05-04-01-XX
					04	Street	02	01-05-04-02-XX
						Street light	03	01-05-04-03-XX
				2 11: 21		Parks	01	01-05-05-01-XX
				Public Places		Playgrounds	02	01-05-05-02-XX
						Open Spaces / Plots	03	01-05-05-03-XX
					05	Bus Stand	04	01-05-05-04-XX
					US	Library	05	01-05-05-05-XX
						Slaughter Houses	06	01-05-05-06-XX
						Graveyards	07	01-05-05-07-XX
						Masjid/ Imam bargah	08	01-05-05-08-XX

Region N	ame	Region Code	МС	MC Code	Property Types	Property Type Code	Sub Property Types	Sub Property Type Code	Unique Codes
							Shops	09	01-05-05-09-XX
							Office buildings	01	01-05-06-01-XX
					Others	06	Office vehicles	02	01-05-06-02-XX
							Residential building	03	01-05-06-03-XX

Annexure C. Project Screening and Phasing

Project Screening and Phasing Criteria:

Project ID:

01-05-01-02-01

Project Description:

Replacement of Water Supply System in Muridke City

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ect Purpose & Service Delivery Improvement						
			10	2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?			7.5	Major contribution	Significant contribution	10
				10	Significant contribution		
		-		0	No contribution.		
	Whether the project will contribute to Sectoral			2.5	Indirect contribution.	Major contribution to key	
1.2	Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
				10	Major contribution to key development goal.		
				0	No consequences		
4.2	Whether the deference/ delay of the project is		10	2.5	Minor consequences	Major immediate	10
1.3	going to affect citizens' health, safety, property, prosperity etc.?			7.5	Major future consequences	consequences	10
				10	Major immediate consequences		
2. Publi	ic Response	•	•	•			
				1	Less than 10%		
2.1	.1 Population served by the project.		7.5	5	Between 10% to 20%	Greater than 20%	7.5
		15		7.5	Greater than 20%		
2.2			5	0	Majority opposition	Majority support	5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition for the			1	Minority opposition		
	project from NGO's, community groups,			5	Majority support		
	network, media or business organizations?			2.5	Minority support		
				0	Majority opposition		
2.2	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0.5	Minority opposition	Majority support	2.5
2.3			2.5	2.5	Majority support	Majority support	2.5
	,			1.5	Minority support		
3. Envir	onmental Impact						
	The impact of the proposed project on the			0	Negative effects on quality of the local environment	Positive effects on the quali	
3.1	quality of local environment (e.g. Air quality,	10	10	5	Neutral		10
	Water pollution, Waste reduction, etc.			10	Positive effects on the quality of the lo cal environment	ey or the local environment	
4. Socio	-Economic Impact						
				0	No direct revenue		
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	Direct revenue is not sufficient to meet O&M	2.5
	, , ,			5	Revenue meets O&M costs	costs	
		15		7.5	Revenue exceeds O&M costs		
	Are there indirect economic benefits from this			0	Negative impact on the local economy		
4.2	project in the long term, e.g. employment creation, investment generation, increase in		7.5	2.5	Little or no long term economic development benefits	Additional investment in the area and increased	5
	land/property prices, reduction in citizens' expenditures, etc.?			5	Additional investment in the area and increased wealth for citizens	wealth for citizens	

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
				7.5	Significant competitive advantage to industry and boost to the local economy		
5. Ease	of Implementation					,	
5.1	Has land been acquired for the project (If		10	10 0	Yes No	Yes	10
	required)?	_		5	Yes		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	0	No	Yes	5
				1	Difficult		
5.3	Will the project get approval from higher levels of Government?		5	2.5	Standard	Easy	5
				5	Easy		
		30		1	Difficult		
5.4	Ease of implementation of project in respect of technical design?		5	3	Standard	Standard	3
				5	Easy		
				0	Outside expertise needed for construct ion, O&M		
5.5	Is there a capable system in place to implement and operate this project or is external support		5	1	Outside expertise needed for construct ion phase only	Outside expertise needed f	1
J.J	needed?		5	3	Outside expertise needed for preparati on phase i.e. feasibility studies	or construction phase only	1
				5	No outside expertise needed		
Total A	chieved Score						86.5

Project Screening and Phasing Criteria:

Project ID:

01-05-01-02-02

Project Description:

Improvement & Rehabilitation of water supply system in Muridke City

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ect Purpose & Service Delivery Improvement						
				2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Significant contribution	10
	service delivery.			10	Significant contribution		10
				0	No contribution.		
	Whether the project will contribute to Sectoral			2.5	Indirect contribution.	Major contribution to key	
1.2	Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
				10	Major contribution to key development goal.		10
				0	No consequences		
1.3	Whether the deference/ delay of the project is		10	2.5	Minor consequences	Major immediate	10
1.5	going to affect citizens' health, safety, property, prosperity etc.?		10	7.5	Major future consequences	consequences	10
	· · ·			10	Major immediate consequences		
2. Publi	ic Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Greater than 20%	7.5
		15		7.5	Greater than 20%		
2.2				0	Majority opposition	Majority support	F
2.2			5	10 7.5 10 2.5 7.5 10 7.5 5 7.5 7.5	Minority opposition	Majority support	5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition for the			5	Majority support		
	project from NGO's, community groups, network, media or business organizations?			2.5	Minority support		
				0	Majority opposition		
2.3	Is there support or opposition from residents in the immediate vicinity of the		2.5	0.5	Minority opposition	Majority support	2.5
2.3	new facility?		2.5	2.5	Majority support	Majority support	2.5
				1.5	Minority support		
3. Envir	ronmental Impact						
	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.			0	Negative effects on quality of the local environment	Positive effects on the quali ty of the local environment	
3.1		10	10	5	Neutral		10
				10	Positive effects on the quality of the lo cal environment		
4. Socio	p-Economic Impact	_					
				0	No direct revenue	Direct revenue is not sufficient to meet O&M	
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs		2.5
	g a same a same			5	Revenue meets O&M costs	costs	
				7.5	Revenue exceeds O&M costs		
		15		0	Negative impact on the local economy	A LIVE A LA	
	Are there indirect economic benefits from this project in the long term, e.g. employment			2.5	Little or no long term economic development benefits		
4.2	creation, investment generation, increase in land/property prices, reduction in citizens'		7.5	5	Additional investment in the area and increased wealth for citizens	Additional investment in the area and increased wealth for citizens	5
	expenditures, etc.?			Significant competit industry and boost t	Significant competitive advantage to industry and boost to the local economy		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
- A	Has land been acquired for the project (If		40	10	Yes		
5.1	required)?		10	0	No	Yes	10
				5	Yes		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	0	No	Yes	5
				1	Difficult		
5.3	Will the project get approval from higher levels of Government?		5	2.5	Standard	Easy	5
		5 Easy	Easy				
		30		1	Difficult		
5.4	Ease of implementation of project in respect of technical design?	5	5	3	Standard	Standard	3
	teelimeal design.			5	Easy		
				0	Outside expertise needed for construct ion, O&M		
5.5	Is there a capable system in place to implement and operate this project or is external support		5	1	Outside expertise needed for construct ion phase only	Outside expertise needed f	1
5.5	needed?		3	3	Outside expertise needed for preparati on phase i.e. feasibility studies	or construction phase only	1
				5	No outside expertise needed		
Total A	chieved Score						86.5

Project Screening and Phasing Criteria:

Project ID:

01-05-01-06-01

Project Description:

Construction of Underground Water Storage Tank

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ect Purpose & Service Delivery Improvement						
				2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Significant contribution	10
	33.113.33.34.1			10	Significant contribution		Score
				0	No contribution.		
	Whether the project will contribute to Sectoral			2.5	Indirect contribution.	Major contribution to key	
1.2	Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
				10	Major contribution to key development goal.		
				0	No consequences		
1.3	Whether the deference/ delay of the project is		10	2.5	Minor consequences	Major immediate	10
1.5	going to affect citizens' health, safety, property, prosperity etc.?		10	7.5	Major future consequences	consequences	10
				10	Major immediate consequences		
2. Publi	ic Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Greater than 20%	7.5
		15		7.5	Greater than 20%		
2.2			г	0	Majority opposition	Majority support	F
2.2			5	1	Minority opposition	- Majority support	5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition for the			5	Majority support		
	project from NGO's, community groups, network, media or business organizations?			2.5	Minority support		
				0	Majority opposition		
2.3	Is there support or opposition from residents in the immediate vicinity of the		2.5	0.5	Minority opposition	Majority support	2.5
2.3	new facility?		2.5	2.5	Majority support	Majority support	2.5
				1.5	Minority support		
3. Envir	ronmental Impact						
	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.			0	Negative effects on quality of the local environment	Positive effects on the quali ty of the local environment	
3.1		10	10	5	Neutral		10
				10	Positive effects on the quality of the lo cal environment		
4. Socio	p-Economic Impact	_					
				0	No direct revenue	Direct revenue is not sufficient to meet O&M	
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs		2.5
	g a same a same			5	Revenue meets O&M costs	costs	
				7.5	Revenue exceeds O&M costs		
		15		0	Negative impact on the local economy	A LIVE A LA	
	Are there indirect economic benefits from this project in the long term, e.g. employment			2.5	Little or no long term economic development benefits		
4.2	creation, investment generation, increase in land/property prices, reduction in citizens'		7.5	5	Additional investment in the area and increased wealth for citizens	Additional investment in the area and increased wealth for citizens	5
	expenditures, etc.?			Significant competit industry and boost t	Significant competitive advantage to industry and boost to the local economy		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
- A	Has land been acquired for the project (If		40	10	Yes		
5.1	required)?		10	0	No	Yes	10
				5	Yes		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	0	No	Yes	5
				1	Difficult		
5.3	Will the project get approval from higher levels of Government?		5	2.5	Standard	Easy	5
		5 Easy	Easy				
		30		1	Difficult		
5.4	Ease of implementation of project in respect of technical design?	5	5	3	Standard	Standard	3
	teelimeal design.			5	Easy		
				0	Outside expertise needed for construct ion, O&M		
5.5	Is there a capable system in place to implement and operate this project or is external support		5	1	Outside expertise needed for construct ion phase only	Outside expertise needed f	1
5.5	needed?		3	3	Outside expertise needed for preparati on phase i.e. feasibility studies	or construction phase only	1
				5	No outside expertise needed		
Total A	chieved Score						86.5

Project Screening and Phasing Criteria:

Project ID:

Project Description:

01-05-02-01-01

Replacement of lateral sewer between G.T road and Canal road in Muridke City

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ct Purpose & Service Delivery Improvement	1	•				
	S			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Significant contribution	10
	or service delivery:			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to	30	10	2.5	Indirect contribution.	Major contribution to	10
1.2	Sectoral Plan / City Master Plan?			7.5	Minor direct contribution	key development goal.	10
				10	Major contribution to key development goal.		
				0	No consequences	Major immediate consequences	
1.2	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	2.5	Minor consequences		10
1.3				7.5	Major future consequences		10
				10	Major immediate consequences		
2. Public	Response						
				1	Less than 10%	Greater than 20%	7.5
2.1	Population served by the project.		7.5	5	Between 10% to 20%		
				7.5	Greater than 20%		
				0	Majority opposition		
2.2	Is there support or opposition for the	15	_	1	Minority opposition		5
۷.۷	project from NGO's, community groups, network, media or business organizations?		5	5	Majority support	Majority support	3
				2.5	Minority support		
2.3			2.5	0	Majority opposition	Majority support	2.5
2.5			2.5	0.5	Minority opposition	Majority support	2.3

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition from			2.5	Majority support		
	residents in the immediate vicinity of the new facility?			1.5	Minority support		
3. Enviro	onmental Impact						
				0	Negative effects on quality of the local environment	Positive effects on the	
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality,	10	10	5	Neutral	quality of the local envi	10
3.1	Water pollution, Waste reduction, etc.	10	10	10	Positive effects on the quality of the local environme nt	ronment	10
4. Socio	-Economic Impact						
				0	No direct revenue		
4.1	NA/III the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	No direct revenue	0
4.1	Will the project bring in direct revenue?		7.5	5	Revenue meets O&M costs	No direct revenue	U
				7.5	Revenue exceeds O&M costs		
				0	Negative impact on the local economy	Additional investment in the area and increased wealth for citizens	
	Are there indirect economic benefits from this project in the long term, e.g. employment	15		2.5	Little or no long term economic development benefits		
4.2	creation, investment generation, increase in land/property prices, reduction in citizens'		7.5	5	Additional investment in the area and increased wealth for citizens		5
	expenditures, etc.?			7.5	Significant competitive advantage to industry and boost to the local economy	- Citizens	
5. Ease	of Implementation						
5.1	Has land been acquired for the project (If		10	10	Yes	Yes	10
5.1	required)?		10	0	No	res	10
	Has funding been secured/allocated within			5	Yes		
5.2	the Local Government budget or whether the external sources of funding have been	30	5	0		Yes	5
	secured?			1	No Difficult		+
5.3	Will the project get approval from higher levels of Government?		5	2.5	Standard	Easy	5
	levels of government:			2.5	Stanuaru		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
				5	Easy		
				1	Difficult		
5.4	Ease of implementation of project in respect of technical design?		5	3	Standard	Standard	3
	of technical design:			5	Easy	7	
				0	Outside expertise needed for construction, O&M		
	Is there a capable system in place to			1	Outside expertise needed for construction phase only	Outside expertise need	
5.5	implement and operate this project or is external support needed?		5	3	Outside expertise needed for preparation phase i.e. f easibility studies	ed for construction pha se only	1
				5	No outside expertise needed		
Total Ac	hieved Score						84

Project ID:

Project Description:

01-05-04-01-01

Improvement & Rehabilitation of Roads Project in Muridke city

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Projec	ct Purpose & Service Delivery Imp	rovement					
	Does the project fill a gap in a			2.5	Minor contribution		
1.1	wider system of service		10	7.5	Major contribution	Major contribution	7.5
	delivery?			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to Sectoral Plan /		10	2.5	Indirect contribution.	Major contribution to key	10
1.2	City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
	orey musical radii.			10	Major contribution to key development goal.		
	Whether the deference/ delay			0	No consequences		
4.2	of the project is going to affect		40	2.5	Minor consequences	Major immediate	40
1.3	citizens' health, safety,		10	7.5	Major future consequences	consequences	10
	property, prosperity etc.?			10	Major immediate consequences		
2. Public	Response					·	
				1	Less than 10%		
2.1	Population served by the		7.5	5	Between 10% to 20%	Between 10% to 20%	5
	project.			7.5	Greater than 20%		
	Is there support or opposition			0	Majority opposition		
	for the			1	Minority opposition		
2.2	project from NGO's,	15	5	5	Majority support	Majority support	5
	community groups, network, media, or business organizations?			2.5	Minority support		
	Is there support or opposition			0	Majority opposition		
2.3	from		2.5	0.5	Minority opposition	Majority support	2.5
	residents in the immediate			2.5	Majority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	vicinity of the new facility?			1.5	Minority support		
3. Enviro	onmental Impact						
ĺ	The impact of the proposed			0	Negative effects on quality of the local environment		
2.1	project on the quality of local	10	10	5	Neutral	Positive effects on the qual	10
3.1	environment (e.g., Air quality, Water pollution, Waste reduction, etc.	10	10	10	Positive effects on the quality of the local environment	ity of the local environmen t	10
4. Socio-	-Economic Impact						
				0	No direct revenue		
4.1	Will the project bring in direct		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	No direct revenue	
4.1	revenue?		7.5	5	Revenue meets O&M costs	- No direct revenue	0
				7.5	Revenue exceeds O&M costs		
	Are there indirect economic			0	Negative impact on the local economy		
	benefits from this project in	15		2.5	Little or no long-term economic development benefits	for Little or no long-term	
4.2	the long term, e.g., employment creation, investment generation,		7.5	5	Additional investment in the area and increased wealth for citizens	Little or no long-term economic development	2.5
	increase in land/property prices, reduction in citizens' expenditures, etc.?			7.5	Significant competitive advantage to industry and boost to the local economy	economic development benefits	
5. Ease o	of Implementation					1	1
5.1	Has land been acquired for the		10	10	Yes	Yes	10
J.1	project (If required)?		10	0	No	103	10
	Has funding been			5	Yes	_	
5.2	secured/allocated within the Local Government budget or whether the external sources	30	5	0		Yes	5
	of funding have been secured?				No		
5.3			5	1	Difficult	Standard	2.5
				2.5	Standard	2 3 3 3 3 3 3	

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Will the project get approval from higher levels of Government?			5	Easy		
	Ease of implementation of			1	Difficult		
5.4	project in respect of technical		5	3	Standard	standard	3
	design?			5	Easy		
				0	Outside expertise needed for construction, O&M		
	Is there a capable system in			1	Outside expertise needed for construction phase only	Outside sympostice meeded f	
5.5	place to implement and operate this project or is external support needed?		5	3	Outside expertise needed for preparation phase i.e., feasibil ity studies	Outside expertise needed f or construction phase only	1
				5	No outside expertise needed		
Total Ac	hieved Score						74

Project ID:

Project Description:

01-05-05-06-01 Rehabilitation of slaughter house

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ect Purpose & Service Delivery Improven	nent				•	
	Describe anniest fill a new in a widen			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5
	System of service delivery.			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to		10	2.5	Indirect contribution.	Indirect contribution.	2.5
1.2	Sectoral Plan / City Master Plan?	30	10	7.5	Minor direct contribution	manect contribution.	2.5
				10	Major contribution to key development goal.		
	Whether the deference/ delay of the			0	No consequences		
1.3	project is going to affect citizens'		10	2.5	Minor consequences	Major future consequences	7.5
1.3	health, safety, property, prosperity		10	7.5	Major future consequences		7.5
	etc.?			10	Major immediate consequences		
2. Publi	ic Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Between 10% to 20%	5
				7.5	Greater than 20%		
	Is there support or opposition for the			0	Majority opposition		
2.2	project from NGO's, community		_	1	Minority opposition		_
2.2	groups, network, media, or business	15	5	5	Majority support	Majority support	5
	organizations?			2.5	Minority support		
	Is there support or opposition from			0	Majority opposition		
2.2	residents in the immediate vicinity of		2.5	0.5	Minority opposition	Majority support	2.5
2.3	the			2.5	Majority support		2.5
	new facility?			1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Envi	onmental Impact						
	The impact of the proposed project			0	Negative effects on quality of the local environme nt		
3.1	on the quality of local environment	10	10	5	Neutral	Neutral	5
	(e.g., Air quality, Water pollution, Waste reduction, etc.			10	Positive effects on the quality of the local environ ment		
4. Socio	p-Economic Impact						
				0	No direct revenue		
4.1	Will the project bring in direct		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	Direct revenue is not	2.5
4.1	revenue?		7.5	5	Revenue meets O&M costs	sufficient to meet O&M costs	2.5
				7.5	Revenue exceeds O&M costs	00313	
				0	Negative impact on the local economy		
	Are there indirect economic benefits from this project in the long term,	15	7.5	2.5	Little or no long-term economic development benefits	Little or no long-term	
4.2	e.g., employment creation, investment generation, increase in land/property prices, reduction in			5	Additional investment in the area and increased wealth for citizens	economic development benefits	2.5
	citizens' expenditures, etc.?			7.5	Significant competitive advantage to industry and boost to the local economy		
5. Ease	of Implementation						
5.1	Has land been acquired for the		10	10	Yes	Yes	10
5.1	project (If required)?		10	0	No	res	10
	Has funding been secured/allocated			5	Yes		
5.2	within the Local Government budget or whether the external sources of	30	5	0	N-	Yes	5
	funding have been secured?	30		1	No Difficult		
5.3	Will the project get approval from		5	2.5	Standard	Standard	2.5
5.5	higher levels of Government?		3	5	Easy	Staridard	2.5
5.4			5	1	Difficult	Standard	3

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score		
	Ease of implementation of project in			3	Standard				
	respect of technical design?			5	Easy				
				0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase o nly			
	Is there a capable system in place to		_	1	Outside expertise needed for construction phase o nly				
5.5	implement and operate this project or is external support needed?		5	3	Outside expertise needed for preparation phase i. e., feasibility studies		1		
				5	No outside expertise needed				
Total A	Total Achieved Score								

Project ID:

Project Description:

01-05-05-01-01 Rehabilitation / Improvement of Park

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ect Purpose & Service Delivery Improveme	nt					
	Death and the fill and the wide			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Significant contribution	10
	System of service delivery.			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to		10	2.5	Indirect contribution.	Major contribution to key	10
1.2	Sectoral Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
				10	Major contribution to key development goal.		
	M/h shh sa hh s dafa as as a / dalay af hh s			0	No consequences		
1.3	Whether the deference/ delay of the project is going to affect citizens' health,		10	2.5	Minor consequences	Major future consequences	7.5
1.5	safety, property, prosperity etc.?		10	7.5	Major future consequences		7.5
				10	Major immediate consequences		
2. Publ	ic Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Between 10% to 20%	5
				7.5	Greater than 20%		
	Is there support or opposition for the			0	Majority opposition		
2.2	project from NGO's, community groups,		5	1	Minority opposition	Majority support	5
2.2	network, media, or business	15	,	5	Majority support		3
	organizations?			2.5	Minority support		
				0	Majority opposition		
2.3	Is there support or opposition from residents in the immediate vicinity of		2.5	0.5	Minority opposition	Majority support	2.5
2.5	the new facility?		2.5	2.5	Majority support		2.5
				1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Envi	ronmental Impact						
	The impact of the proposed project on			0	Negative effects on quality of the local environmen t		
3.1	the quality of local environment (e.g.,	10	10	5	Neutral	Positive effects on the quali	10
	Air quality, Water pollution, Waste reduction, etc.			10	Positive effects on the quality of the local environ ment	ty of the local environment	
4. Socio	p-Economic Impact						
				0	No direct revenue		
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	No direct revenue	0
4.1	will the project bring in direct revenue?		7.5	5	Revenue meets O&M costs	No direct revenue	U
				7.5	Revenue exceeds O&M costs		
				0	Negative impact on the local economy	Little or no long-term	
	Are there indirect economic benefits from this project in the long term, e.g.,	15	7.5	2.5	Little or no long-term economic development benefits		
4.2	employment creation, investment generation, increase in land/property prices, reduction in citizens'			5	Additional investment in the area and increased wealth for citizens	economic development benefits	2.5
	expenditures, etc.?			7.5	Significant competitive advantage to industry and boost to the local economy		
5. Ease	of Implementation						
5.1	Has land been acquired for the project		10	10	Yes	Yes	10
5.1	(If required)?		10	0	No	res	10
	Has funding been secured/allocated			5	Yes		
5.2	within the Local Government budget or whether the external sources of funding have been secured?	30	5	0	No	Yes	5
	nave been secureu:			1	Difficult		
5.3	Will the project get approval from		5	2.5	Standard	Standard	2.5
	higher levels of Government?			5	Easy		-
5.4			5	1	Difficult	Standard	3

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score			
	Ease of implementation of project in			3	Standard					
	respect of technical design?			5	Easy					
				0	Outside expertise needed for construction, O&M					
	Is there a capable system in place to		_	1	Outside expertise needed for construction phase o nly	Outside expertise needed f				
5.5	implement and operate this project or is external support needed?		5	3	Outside expertise needed for preparation phase i.e ., feasibility studies	or construction phase only	1			
				5	No outside expertise needed					
Total A	otal Achieved Score									

Project ID: 01-05-06-01-01

Project Description : Solarization of the municipal buildings

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score															
1. Proje	ect Purpose & Service Delivery Imp	provement			1																	
				2.5	Minor contribution																	
	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5															
				10	Significant contribution																	
		ute to Sectoral Plan / City		0	No contribution.																	
	Whether the project will			2.5	Indirect contribution.	Major contribution to key																
1.2	contribute to Sectoral Plan / City		10	7.5	Minor direct contribution	development goal.	10															
	Master Plan?	Plans		10	Major contribution to key development	acveropment goal.																
				10	goal.																	
	Whether the deference/ delay of																		0	No consequences		
1 3	the project is going to affect		10	2.5	Minor consequences	Minor consequences	2.5															
	citizens' health, safety, property, prosperity etc.?			7.5	Major future consequences		2.3															
				10	Major immediate consequences																	
2. Publ	ic Response				1	1	l															
2.1	Population served by the project.	15	7.5	1	Less than 10%	Less than 10%	1															

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
				5	Between 10% to 20%		
				7.5	Greater than 20%		
	Is there support or opposition for the			0	Majority opposition		
22	project from NGO's, community		5	1	Minority opposition		5
	groups, network, media or business			5	Majority support		
	organizations?			2.5	Minority support		
	Is there support or opposition			0	Majority opposition		
	from residents in the immediate		0.5 Minority opposition 2.5 Majority support		Majority support	2.5	
	vicinity of the		2.3	2.5	Majority support	_imajority support	2.3
	new facility?			1.5	Minority support		
3. Envi	ronmental Impact						
				0	Negative effects on quality of		
	The impact of the proposed project on the quality of local			Ü	the local environment	Positive effects on the quality of	
3.1	environment (e.g. Air quality,	10	10	5	Neutral	the local environment	10
	Water pollution, Waste reduction, etc.			10	Positive effects on the quality of	and local crivil offinence	
				10	the local environment		
4. Socio	o-Economic Impact				•	•	ı
4.1		15	7.5	0	No direct revenue	Revenue exceeds O&M costs	7.5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Will the project bring in direct			2.5	Direct revenue is not sufficient to meet O&M costs		
	revenue?			5	Revenue meets O&M costs	7	
				7.5	Revenue exceeds O&M costs	7	
				0	Negative impact on the local economy		
	Are there indirect economic benefits from this project in the long term, e.g. employment			2.5	Little or no long term economic development benefits	Significant competitive advantage	
4.2	creation, investment generation, increase in land/property prices, reduction in citizens'	7.5	7.5	5	Additional investment in the area and increased wealth for citizens	to industry and boost to the local economy	7.5
	expenditures, etc.?			Significant competitive advantage to 7.5 industry and boost to the local economy			
5. Ease	of Implementation						
5.1	Has land been acquired for the		10	10	Yes	Yes	10
J	project (If required)?			0	No		
	Has funding been secured/allocated within the			5	Yes		
5.2	Local Government budget or whether the external sources of funding have been secured?	30	5	0	No	Yes	5
5.3			5	1	Difficult	Easy	5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Will the project get approval from higher levels of			2.5	Standard		
	Government?			5	Easy		
	Ease of implementation of			1	Difficult		
5.4	project in respect of technical		5	3	Standard	Easy	5
	design?			5	Easy		
				0	Outside expertise needed for		
				-	construction, O&M		
	Is there a capable system in place			1	Outside expertise needed for	Outside expertise needed for	
55	to implement and operate this project or is external support		5		construction phase only	_construction phase only	1
	needed?			3	Outside expertise needed for preparation	,	
					phase i.e. feasibility studies		
				5	No outside expertise needed		
otal A	chieved Score						79.5

Project ID: 01-05-04-03-01

Project Description : Repair & Replacement of Streetlights

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proj	ect Purpose & Service Delivery II	mprovement	l				
	Does the project fill a gap in a			2.5	Minor contribution		
1.1	wider system of service		10	7.5	Major contribution	Major contribution	7.5
	delivery?			10	Significant contribution		
				0	No contribution.		
	Whether the project will			2.5	Indirect contribution.	Major contribution to key	
1.2	contribute to Sectoral Plan /	30	10	7.5	Minor direct contribution	development goal.	10
	City Master Plan?	30		10	Major contribution to key development	uevelopinent goal.	
				10	goal.		
	NA/L-AL			0	No consequences		
	Whether the deference/ delay of the project is going to affect		10	2.5	Minor consequences	Minor consequences	2.5
	citizens' health, safety, property, prosperity etc.?		10	7.5	Major future consequences	Nillior consequences	2.3
	property, prospertty etc.			10	Major immediate consequences		
2. Publ	lic Response					I	1
2.1		15	7.5	1	Less than 10%	Less than 10%	1

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Population served by the			5	Between 10% to 20%		
	project.			7.5	Greater than 20%		
	Is there support or opposition for the			0	Majority opposition		
22	project from NGO's, community		5	1	Minority opposition	Majority support	5
	groups, network, media or business			5	Majority support		
	organizations?			2.5	Minority support		
	Is there support or opposition			0	Majority opposition		
	from residents in the immediate		2.5	0.5	Minority opposition	Majority support	2.5
	vicinity of the		2.5	2.5	Majority support	iviajority support	2.3
	new facility?			1.5	Minority support		
3. Envi	ronmental Impact						•
				0	Negative effects on quality of		
	The impact of the proposed project on the quality of local				the local environment	Positive effects on the quality of	
3.1	environment (e.g. Air quality, Water pollution, Waste	10	10	5	Neutral	the local environment	10
	reduction, etc.			10	Positive effects on the quality of		
					the local environment		
4. Soci	o-Economic Impact				1	1	1
4.1		15	7.5	0	No direct revenue	Revenue exceeds O&M costs	7.5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
				2.5	Direct revenue is not sufficient to		
	Will the project bring in direct				meet O&M costs		
	revenue?			5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
	Are there indirect economic			0	Negative impact on the local economy		
	ben			2.5	Little or no long term economic		
				2.3	development benefits	Significant competitive advantage	
4.2	efits from this project in the long term, e.g. employment		7.5	5	Additional investment in the area and	to industry and boost to the	7.5
	creation, investment generation, increase in				increased wealth for citizens	local economy	
	land/property prices, reduction			7.5	Significant competitive advantage to		
	in citizens' expenditures, etc.?			7.0	industry and boost to the local economy		
5. Ease	of Implementation	·					
5.1	Has land been acquired for the		10	10	Yes	Yes	10
٠. ـ	project (If required)?		10	0	No		10
	Has funding been			5	Yes		
	secured/allocated within the Local Government budget or	30	5			Yes	5
	whether the external sources of funding have been secured?			0	No		
5.3	Tang have been secured:		5	1	Difficult	Easy	5
٥.٥			.	1	Difficult	Lasy	3

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Will the project get approval from higher levels of			2.5	Standard		
	Government?			5	Easy		
	Ease of implementation of			1	Difficult		
5.4	project in respect of technical design?		5	3	Standard	Easy	5
	uesign:			5	Easy	-	
				0	Outside expertise needed for		
					construction, O&M	Outside expertise needed for	
	Is there a capable system in			1	Outside expertise needed for	Outside expertise fleeded for	
55	place to implement and operate this project or is external		5	1	construction phase only	construction phase only Outside expertise needed for	1
	support needed?	ort needed?		3	Outside expertise needed for preparation	construction phase only	
				· ·	phase i.e. feasibility studies		
				5	No outside expertise needed		
Total A	Achieved Score					•	79.5

Project ID:

Project Description:

01-05-01-01-01

Solarization of Tube wells and Water Supply System

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Project	Purpose & Service Delivery Improvement						
	5 11			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5
	of service delivery:			10	Significant contribution		
				0	No contribution.	Major contribution to key development goal.	
	Whether the project will contribute to			2.5	Indirect contribution.		
1.2	Sectoral Plan / City Master Plan?		10	7.5	Minor direct contribution		10
		30		10	Major contribution to key development goal.		
				0	No consequences		
	Whether the deference/ delay of the			2.5	Minor consequences		
1.3	project is going to affect citizens' health,		10	7.5	Major future consequences	Minor consequences	2.5
	safety, property, prosperity etc.?			10	Major immediate consequences		
2. Public R	esponse						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Less than 10%	1
				7.5	Greater than 20%		
				0	Majority opposition		
2.2	Is there support or opposition for the	15	_	1	Minority opposition	Majority support	_
2.2	roject from NGO's, community groups, etwork, media or business organizations?		5	5	Majority support	Majority support	5
	network, media or business organizations:			2.5	Minority support		
2.3			2.5	0	Majority opposition	National Association and Assoc	2.5
2.3				0.5	Minority opposition	Majority support	2.5

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition from			2.5	Majority support		
	residents in the immediate vicinity of the new facility?			1.5	Minority support		
3. Environi	mental Impact						
	The impact of the proposed project on the			0	Negative effects on quality of t he local environment	Positive effects on the qual	
3.1	quality of local environment (e.g. Air quality, Water pollution, Waste reduction,	10	10	5	Neutral	ity of the local environmen	10
	etc.			10	Positive effects on the quality o f the local environment	t	
4. Socio-Ec	onomic Impact						
				0	No direct revenue		
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	Revenue exceeds O&M	7.5
				5	Revenue meets O&M costs	costs	
				7.5	Revenue exceeds O&M costs		
				0	Negative impact on the local economy		
	Are there indirect economic benefits from this project in the long term, e.g.	15		2.5	Little or no long term economic development benefits	Significant competitive - advantage to industry and boost to the local economy	
4.2	employment creation, investment generation, increase in land/property prices, reduction in citizens' expenditures, etc.?		7.5	5	Additional investment in the area and increased wealth for citizens		7.5
	etc.r			7.5	Significant competitive advantage to industry and boost to the local economy		
5. Ease of	Implementation						
5.1	Has land been acquired for the project (If		10	10	Yes	Yes	10
J.1	required)?	30	10	0	No	163	10
5.2	Has funding been secured/allocated within	30	5	5	Yes	Yes	5
J.Z	the Local Government budget or whether		3	0	No	163	<u> </u>

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	the external sources of funding have been secured?						
	Well of the last			1	Difficult		
5.3	Will the project get approval from higher levels of Government?		5	2.5	Standard	Easy	5
	levels of Government:			5	Easy		
	5 6: 1 6			1	Difficult		
5.4	Ease of implementation of project in respect of technical design?		5	3	Standard	Easy	5
	respect of technical design:			5	Easy	·	
				0	Outside expertise needed for c onstruction, O&M		
	Is there a capable system in place to		-	1	Outside expertise needed for c onstruction phase only	Outside expertise needed f	4
5.5	implement and operate this project or is external support needed?		5	3	Outside expertise needed for p reparation phase i.e. feasibility studies	or construction phase only	1
				5	No outside expertise needed		
Total Achi	ieved Score						79.5

Project ID:

01-05-05-01-02

Project Description:

Rehabilitation of Parks

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ct Purpose & Service Delivery Improvement						
	Death was set fill a sea in a wide			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5
	system of service delivery:			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to		10	2.5	Indirect contribution.	Major contribution to key development goal.	10
1.2	Sectoral Plan / City Master Plan?	30	10	7.5	Minor direct contribution		10
				10	Major contribution to key development goal.		
			10	0	No consequences		
1.3	Whether the deference/ delay of the			2.5	Minor consequences	Minor consequences	2.5
1.3	project is going to affect citizens' health, safety, property, prosperity etc.?			7.5	Major future consequences	Minor consequences	2.5
	surcty, property, prosperity etc.:			10	Major immediate consequences		
2. Publi	c Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Less than 10%	1
				7.5	Greater than 20%		
				0	Majority opposition		
2.2	Is there support or opposition for the		5	1	Minority opposition	Majority support	5
2.2	project from NGO's, community groups, network, media or business organizations?	15	Э	5	Majority support	- Majority support	3
	network, media of business of guinzactions.			2.5	Minority support		
				0	Majority opposition		
2.2	Is there support or opposition from		2.5	0.5	Minority opposition	1	2.5
2.3	residents in the immediate vicinity of the new facility?			2.5	Majority support	- Majority support	2.5
	new racincy.			1.5	Minority support]	

ct of the proposed project on the focal environment (e.g. Air Vater pollution, Waste reduction,	10	10	0	Negative effects on quality of the local envir		
local environment (e.g. Air Vater pollution, Waste reduction,	10	10				
Vater pollution, Waste reduction,	10	10	5		Positive effects on the quality of t	
			_	Neutral	Positive effects on the quality of the local environment	10
Impact			10	Positive effects on the quality of the local en vironment	The local environment	
			0	No direct revenue		
project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	Revenue exceeds O&M costs	7.5
			5	Revenue meets O&M costs		
			7.5	Revenue exceeds O&M costs		
	15		0	Negative impact on the local economy		
Are there indirect economic benefits from this project in the long term, e.g.	13		2.5	Little or no long term economic development benefits	Significant competitive	
ent creation, investment on, increase in land/property duction in citizens' expenditures,		7.5	5	Additional investment in the area and increased wealth for citizens	advantage to industry and boost to the local economy	7.5
duction in chizens expenditures,			7.5	Significant competitive advantage to industry and boost to the local economy		
entation						
been acquired for the project (If		10	10	Yes	Vos	10
?		10	0	No	res	10
			5	Yes		
nal sources of funding have been	30	5	0	No.	Yes	5
			1			
		5			Fasy	5
project get approval from higher		5			Lasy	,
oroject get approval from higher Government?		5	1	,	Fasy	5
b ir	ng been secured/allocated within Government budget or whether hal sources of funding have been roject get approval from higher	ng been secured/allocated within Government budget or whether all sources of funding have been 30 Toject get approval from higher	ng been secured/allocated within Government budget or whether all sources of funding have been Toject get approval from higher	the een acquired for the project (If the proje	teen acquired for the project (If 10 10 10 No 10 No No No 10 No No 10 No No No No No No No No No N	seen acquired for the project (If 10 Yes 0 No 5 Yes 6

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Ease of implementation of project in			3	Standard		
	respect of technical design?			5	Easy		
	Is there a capable system in place to 5.5 implement and operate this project or is external support needed?			0	Outside expertise needed for construction, O &M		
5.5			5	1	Outside expertise needed for construction p hase only	Outside expertise needed for con	1
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies	struction phase only	_
				5	No outside expertise needed		
Total Achieved Score							79.5

Project ID:

01-05-04-01-02

Project Description:

"Improvement and Construction of Roads & Chowks in MC Muridke"

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score		
1. Projec	1. Project Purpose & Service Delivery Improvement								
	Door the president fill a new in a suiden			2.5	Minor contribution				
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5		
	System of service delivery:			10	Significant contribution				
				0	No contribution.				
1.2	Whether the project will contribute to		10	2.5	Indirect contribution.	Major contribution to key	10		
1.2	Sectoral Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10		
				10	Major contribution to key development goal.				
	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		A/I II I I I I I I I I I I I I I I I I I	A/I	(b-abl	0 No consequen	No consequences		
1 3		,	10	2.5	Minor consequences	Major future consequences	7.5		
1.3				7.5	Major future consequences		7.5		
				10	Major immediate consequences				
2. Public	Response								
				1	Less than 10%				
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Between 10% to 20%	5		
				7.5	Greater than 20%				
	la thana ann ant an amaasti an fan tha			0	Majority opposition				
2.2	Is there support or opposition for the project from NGO's, community groups,		5	1	Minority opposition	Majority support	5		
2.2	network, media or business organizations?	15	3	5	Majority support				
				2.5	Minority support				
	la than a compant on a magitic of for			0	Majority opposition				
2.3	Is there support or opposition from residents in the immediate vicinity of the		2.5	0.5	Minority opposition	Majority support	2.5		
2.5	new facility?			2.5	Majority support				
				1.5	Minority support				

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score	
3. Envir	onmental Impact							
	The impact of the proposed project on the			0	Negative effects on quality of the local envir onment			
3.1	quality of local environment (e.g. Air quality, Water pollution, Waste reduction,	10	10	5	Neutral	Positive effects on the quality of the local environment	10	
	etc.			10	Positive effects on the quality of the local en vironment	The local environment		
4. Socio	-Economic Impact							
				0	No direct revenue			
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	No direct revenue	0	
			7.5	5	Revenue meets O&M costs			
				7.5	Revenue exceeds O&M costs			
			7.5	0	Negative impact on the local economy	Significant competitive		
	Are there indirect economic benefits from this project in the long term, e.g. employment creation, investment generation, increase in land/property prices, reduction in citizens' expenditures,			2.5	Little or no long term economic development benefits			
4.2				7.5	7.5	5	Additional investment in the area and increased wealth for citizens	advantage to industry and boost to the local economy
	etc.?			7.5	Significant competitive advantage to industry and boost to the local economy			
5. Ease	of Implementation							
5.1	Has land been acquired for the project (If		10	10	Yes	Yes	10	
J.1	required)?		10	0	No	163	10	
	Has funding been secured/allocated within			5	Yes			
5.2	the Local Government budget or whether the external sources of funding have been	30	5	0	No.	Yes	5	
	secured?			1	No Difficult			
5.3	Will the project get approval from higher		5	2.5	Standard	Easy	5	
5.5	levels of Government?		5	5	Easy	Lusy	3	
5.4			5	1	Difficult	Easy	5	

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Ease of implementation of project in			3	Standard		
	respect of technical design?			5	Easy		
	Is there a capable system in place to 5.5 implement and operate this project or is external support needed?			0	Outside expertise needed for construction, O &M		
5.5			5 _	1	Outside expertise needed for construction p hase only	Outside expertise needed for con	1
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies	struction phase only	_
				5	No outside expertise needed		
Total Ac	hieved Score	•			•		81

Project ID: 01-05-04-01-03

Project Description : Improvement and Rehabilitation of P2- Canal Road in MC Muridke

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Proje	ct Purpose & Service Delivery Improvement						
	Describe ausiont fill a new in a suiden			2.5	Minor contribution		
1.1	Does the project fill a gap in a wider system of service delivery?		10	7.5	Major contribution	Major contribution	7.5
	system of service delivery:			10	Significant contribution		
				0	No contribution.		
1.2	Whether the project will contribute to		10	2.5	Indirect contribution.	Major contribution to key	10
1.2	Sectoral Plan / City Master Plan?	30	10	7.5	Minor direct contribution	development goal.	10
				10	Major contribution to key development goal.		
				0	No consequences		
1.2	Whether the deference/ delay of the		10	2.5	Minor consequences	Major future consequences	7.5
1.5	1.3 project is going to affect citizens' health, safety, property, prosperity etc.?			7.5	Major future consequences		7.5
	Surety, prosperty etc.:			10	Major immediate consequences		
2. Publi	c Response						
				1	Less than 10%		
2.1	Population served by the project.		7.5	5	Between 10% to 20%	Between 10% to 20%	5
				7.5	Greater than 20%		
				0	Majority opposition		
2.2	Is there support or opposition for the project from NGO's, community groups,		5	1	Minority opposition	Majority support	_
2.2	network, media or business organizations?	15	Э	5	Majority support	- Majority support	5
	Thetwork, media of business of garilleations.			2.5	Minority support		
				0	Majority opposition		
2.2	Is there support or opposition from		2.5	0.5	Minority opposition	Majority support	2.5
2.3	residents in the immediate vicinity of the new facility?			2.5	Majority support	- Majority support	
	new racinty?			1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score	
3. Envir	onmental Impact							
	The impact of the proposed project on the			0	Negative effects on quality of the local envir onment			
3.1	quality of local environment (e.g. Air quality, Water pollution, Waste reduction,	10	10	5	Neutral	Positive effects on the quality of the local environment	10	
	etc.			10	Positive effects on the quality of the local en vironment	The local environment		
4. Socio	-Economic Impact							
				0	No direct revenue			
4.1	Will the project bring in direct revenue?		7.5	2.5	Direct revenue is not sufficient to meet O&M costs	No direct revenue	0	
			7.5	5	Revenue meets O&M costs			
				7.5	Revenue exceeds O&M costs			
			7.5	0	Negative impact on the local economy	Significant competitive		
	Are there indirect economic benefits from this project in the long term, e.g. employment creation, investment generation, increase in land/property prices, reduction in citizens' expenditures,			2.5	Little or no long term economic development benefits			
4.2				7.5	7.5	5	Additional investment in the area and increased wealth for citizens	advantage to industry and boost to the local economy
	etc.?			7.5	Significant competitive advantage to industry and boost to the local economy			
5. Ease	of Implementation							
5.1	Has land been acquired for the project (If		10	10	Yes	Yes	10	
J.1	required)?		10	0	No	163	10	
	Has funding been secured/allocated within			5	Yes			
5.2	the Local Government budget or whether the external sources of funding have been	30	5	0	No.	Yes	5	
	secured?			1	No Difficult			
5.3	Will the project get approval from higher		5	2.5	Standard	Easy	5	
5.5	levels of Government?		5	5	Easy	Lusy	3	
5.4			5	1	Difficult	Easy	5	

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Ease of implementation of project in			3	Standard		
	respect of technical design?			5	Easy		
	Is there a capable system in place to 5.5 implement and operate this project or is external support needed?			0	Outside expertise needed for construction, O &M		
5.5			5 _	1	Outside expertise needed for construction p hase only	Outside expertise needed for con	1
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies	struction phase only	_
				5	No outside expertise needed		
Total Ac	hieved Score	•			•		81

Annexure D. Environmental and Social Considerations in IDAMP³

Section 1: Policy, Legal and Administrative Framework

This section provides an overview of the policy framework and national legislation that applies to the proposed project. The project is expected to comply with all national/provincial legislation regulations, EPA guidelines, World Bank Operational Policies and guidelines which are relevant and applicable to the sub-project.

1.1. Punjab Environment Protection Act 1997 (Amended 2012 & 2017)

Under Section 12 (and subsequent amendment in 2012 and then in 2017) of the PEPA (1997):

"a project falling under any category specified in Schedule I of the IEE/EIA Regulations 2022 requires the proponent of the project to file an IEE with the concerned provincial EPA while projects falling under any category specified in Schedule II require the proponent to file an EIA with the provincial agency, which is responsible for its review and accordance of approval or request any additional information deemed necessary"

In compliance of local legal framework, development of IEE/EIA reports and subsequent approval from the competent forums shall be mandatory for all new infrastructure projects.

Regulatory Clearances, Punjab EPA

In accordance with provincial regulatory requirements, an IEE/EIA satisfying the requirements of the Punjab Environmental Protection Act (amended 2012&2017) will be marked cleared by Punjab-EPA and No Objection Certificate (NOC) will be issued for it. MCs will ensure to obtain NOCs/approval from the competent forums before the execution of new infrastructure development projects.

³ The Environmental & Social Considerations have been provided by the Environment & Social Management (E&SM) team of PMDFC.

1.2. Guidelines for Environmental Assessment, Pakistan EPA

The Pak-EPA has published a set of environmental guidelines for conducting environmental assessments and the environmental management of different types of development projects. The guidelines that are relevant to the proposed projects are listed below:

- Guidelines for the Preparation and Review of Environmental Reports, Pakistan, EPA 1997.
- Guidelines for Public Consultations; Pakistan EPA May 1997

These guidelines have been adopted by the Punjab Environment Protection Agency after 18th amendment.

1.3. Punjab Environmental Quality Standards (PEQS)

The Punjab Environmental Quality Standards (PEQS), 2016 specify the following standards:

- 1. Punjab Environment Quality Standards for Drinking Water, 2016
- 2. Punjab Environment Quality Standards for Ambient Air, 2016
- 3. Punjab Environment Quality Standards for Noise, 2016
- 4. Punjab Environment Quality Standards for Municipal and Liquid Industrial Effluents, 2016

32 parameters of PEQSs for drinking water shall be applicable to all water supply schemes/ projects/ subprojects (rehabilitation and new). PEQSs for ambient air shall be applicable during rehabilitation or new construction of infrastructure development projects to analyze the emissions that may emerge from construction work machinery/equipment's. PEQSs for noise shall also be applicable during rehabilitation or new construction of infrastructure development projects to analyze the emissions that may emerge from construction work machinery/equipment. PEQSs for municipal and liquid waste shall be applicable to determine the quality of municipal wastewater where wastewater is to be treated.

1.4. Other Environment Related Legislations:

Sr. #	Act	Description	Applicability to sub-project
1.	Punjab Environment Protection Act, 1997 (as amended up to 2017)	The Act establishes the Environmental Protection Agency that deals with the preparation of national environmental policies, prepare & publish national environment report, ensure the enforcement of National Environmental Quality Standards, establishment of ambient air, water and land quality standards, measures to control environmental pollution. Additionally, under this Act, no proponent of a project shall commence construction or operation unless he has filed with the Provincial Agency an initial environmental examination or, where the project is likely to cause an adverse environmental effect, an Environmental Impact Assessment (EIA/ESIA), and has obtained from the approval in respect thereof.	Section 11,12,13 and 14 of PEPA, 2012 shall be applicable to all the new infrastructure projects.
2.	Punjab Environment Protection Review of IEE/EIA Regulations 2022	Provided that the proponent shall file an Initial Environmental Examination or Environmental Impact Assessment, if the project is likely to cause an adverse environmental impact	These regulations have two schedules I & II. As per schedule I the subprojects require submission of IEE report have to be prepared and as per schedule II the EIA of Subproject will be carried out.

Sr. #	Act	Description		Applicability	to sub-project
			The se	ctor wise screeni	ng of MCs subprojects as per
			Punia	ıb Environment r	protection review of IEE/EIA
			•	·	
				guiations 2000 a	re given below in Table.
			Schedule	Sector	Clause
			Schedule I	Stormwater Drainage	F. Water management, dams, irrigation and flood protection 1. Small Dams and reservoirs
					Irrigation and drainage projects
				Water supply Parks Waste	G. Water Supply and Treatment Water supply schemes and treatment plants with total cost less than Rs. 50 million I. Urban development and tourism 5. Urban development projects H. Waste disposal
			Schedule II	Water supply, Sewerage System and treatment	Non-hazardous scrap yard / warehouse F. Water supply, Sewerage System and treatment Water supply schemes and treatment plants (excluding the Reverse

Sr. #	Act	Description	Applicability to sub-project
			Osmosis, Ultra filtration and such like) with total cost more than Rs. 50 million 2. Wastewater channels / Sewerage System Schemes 3. Combined Wastewater Treatment Plants with treatment capacity greater than 100m3/hr Waste Storage and Disposal Disposal 1. Landfill sites 2. Waste Incinerators and autoclaves 3. Hazardous substance or waste storage warehouse
3.	Delegations of power for Environment Approvals Rule 2017	According to these rules the powers of environmental approval are delegated to commissioner for specific types of projects	 Under PCP the clause of h, n and o are applicable. clause h Construction of roads fallings within the jurisdiction of a district, expecting highways,

Sr. #	Act	Description	Applicability to sub-project	
4.	Notification No. SOG/ EPD/5-86/2019 delegation of powers to Deputy Commissioner	According to this notification the powers of environmental approval are delegated to deputy commissioner for specific types of projects	Under PCP clause g is applicable Bus and Wagon stands od category C with area upto 8 kanal.	
3.	Pakistan Penal Code, 1860	The Code deals with the offences where public or private property or human lives are affected due to intentional or accidental misconduct of an individual or organization. The Code also addresses control of noise, noxious emissions and disposal of effluents.	The provisions of the Penal Code, 1860 are applicable to the project in terms of penalties for effecting human lives and public property. It also addresses the control of noise, air emissions and effluent disposal.	
4.	Motor Vehicle Rules, 1969	It defines powers and responsibilities of Motor Vehicle Examiners (MVEs). The establishment of MVE inspection system is one of the regulatory measures that can be taken to tackle the ambient air quality problems associated with the vehicular emissions during operation phase.	This act is applicable to the gaseous emission that will be released from the vehicles in operation phase at machinery used during construction phase of this subproject.	
5.	The Land Acquisition Act, 1894	The Land Acquisition Act, 1894, is a "law for the acquisition of land needed for public purposes and for companies and for determining the amount of compensation to be paid on account of such acquisition".	This act will not be triggered as no land acquisition is required.	
6.	The Punjab Land Acquisition Rules, 1983,	It describes the land acquisition procedure for public purposes or for a company.	This act will be triggered as wherever land to be acquired for subproject. Such as in Swerage project, Construction of	

Sr. #	Act	Description	Applicability to sub-project
			Wastewater treatment plants, installation of new tube
			wells etc.
7.	Pakistan Antiquities Act 1975 and Punjab Antiquities Amendment Act 2012	The Punjab Antiquities Amendment Act, 2012 is adopted from the Pakistan Antiquities Act of 1975 with a few minor changes. The Antiquities Act, 1975 (amended in 1990) states the following: • "Ancient" is any object that is at least 75 years old; • All accidental discoveries of artifacts must be reported to the Federal Department of Archaeology; • The Government is the owner of all buried antiquities discovered on any site, whether protected or otherwise; • All new construction within a distance of 200 feet from protected antiquities is forbidden; • No changes or repairs can be made to a protected monument, even if it is owned privately, without approval of the responsible authorities; and The cultural heritage laws of Pakistan are uniformly applicable to all categories of sites regardless of their	The law will be applicable to the project due to its provision that if any accidental archaeological discoveries may occur during the excavation works for the construction of sub-projects.

Sr. #	Act	Description	Applicability to sub-project
8.	Punjab Restriction of Employment of Children	state of preservation and classification as monuments of national or world heritage. According to the sub-section 11(a) of this Act, an occupier who employs or permits a child (person under the age of 15 years) to work in an establishment shall be liable to punishment with imprisonment for a term which may	The relevance of this act to the project will be to prohibit child employment for construction related activities of the
<u> </u>	Act, 2016	extend to six months, but which shall not be less than seven days, and a mandatory fine between 10,000 and 50,000 rupees.	proposed sub- project and it will be applicable throughout the construction activities related to subprojects.
9.	The Punjab Occupational Safety and Health Act, 2019	The Punjab Occupational Safety and Health Act, 2019 (IV of 2019) An Act to provide for occupational safety and health at workplace. It is necessary to make and consolidate the law for the occupational safety and health of the persons at workplace and to protect them against risks arising out of the occupational hazards; to promote safe and healthy working environment catering to the physiological and psychological needs of the employees at workplace and to provide for matters connected therewith or ancillary thereto.	The Punjab Occupational Safety and Health Act, 2019 relevant sections to the proposed projects are: 8. Safety and Health, 10. Consultation 13. Notification and investigation of accidents, dangerous occurrences and occupational illness. Adopting this Act, PMDFC has developed SOPs for health and safety of the labor (including women workers) and communities which will be applicable for all the infrastructure related activities of new or rehabilitation subprojects.

Sr. #	Act	Description	Applicability to sub-project
10	National Hazardous Waste Management Policy, 2022	A policy to facilitate the implementation of international treaties & Conventions on a national level to improve the definition & implementation of Hazardous Waste Management (HWM) for better environmental management, clarify institutional responsibilities related to HWM, and strengthen the management of hazardous & other wastes.	Policy measures shall be applicable whereas there is any risk of usage or generation of hazardous waste.
11	Protection Against Harassment of Women at the Workplace (Amended) Act, 2014	In this act major and minor penalties are mentioned.	This act is applicable for all the employees of MCs, LG&CDD and women labor (if involved for infrastructure development activities)
12	Punjab Labor Policy, 2018	Punjab Labor Policy, 2018 presents a policy document which directly addresses the child labor, bonded labor, gender discrimination, gender mainstreaming, labor protection, out of school children and lack of health facilities for the workers etc. Labor Policy of 2018 incorporates the key thematic areas regarding effective implementation of labor standards, social dialogue, improvements in workplace safety, living wages, awareness raising, excellence in labor inspections regime, imparting quality technical trainings through well-	This act is applicable for all the employees of MCs, LG&CDD and women labor (if involved for infrastructure development activities)

Sr. #	Act	Description	Applicability to sub-project
		improved Training Centers, simplification of labor laws,	
		medical facilities for secured workers even after	
		retirement, establishment of labor colonies and schools	
		for workers' children, improvement in the wage fixation	
		process and strengthening the role of Punjab Minimum	
		Wages Board, efficient disbursement of welfare grants	
		and gradual extension of labor protection frame-work.	
		As per PLGA 2019 Functions of a Metropolitan	
		Corporation, Municipal Corporation and Municipal	
		Committee:	
		Part I	
		(g) Solid waste collection and disposal;	
	Punjab Local	(h) Sewerage collection and disposal including water	
13	Government Act, 2019	management and treatment;	All the related clauses of this Act shall be applicable for
15	Government Act, 2019	(i) Building control and land use;	MCs.
		(j) Births, deaths, marriages and divorce registration;	
		(k) Museums and art galleries;	
		(I) Open markets;	
		(m) Livestock and agriculture markets;	
		(n) Public parking facilities;	
		(o) City roads and traffic management;	

Sr. #	Act	Description	Applicability to sub-project
		(p) Public transport;	
		(q) Abstraction of water for industrial and commercial	
		purposes;	
		(r) Emergency planning and relief;	
		(s) Support to provincial agencies in prevention of crime	
		and maintenance of public order; and	
		(t) Regulatory enforcement in the functions assigned	
		under Part 1 and 2 of this Schedule;	
		Part 2	
		(u) Establishment and management of pre-schools;	
		(v) Libraries;	
		(w) Drinking water supply;	
		(x) Public convenances;	
		(z) Children's services;	
		(aa) Community safety;	
		(bb) Arts and recreation;	
		(cc) Public fairs and ceremonies;	
		(dd) Sports;	
		(ee) Environmental health, awareness and services;	
		(ff) Parks and landscape development;	
		(gg) Slaughtering of animals;	

Sr. #	Act	Description	Applicability to sub-project
		(hh) Street lights; and (ii) Sign boards and street advertisements.	
14	Guidelines for Preparation and Review of Environment Reports, 1997	Guidelines for preparation and Review of Environmental Reports were issued by Pak EPA in 1997 under Pakistan Environment Protection Act, 1997 and are adopted by Punjab Environment protection Agency after 18 th Amendment. These guidelines describe the steps in IEE Preparation, format of IEE Reports, assessing impacts, mitigation and impact management, reporting, reviewing and decision making, monitoring and auditing and project management.	These guidelines shall be applicable during preparation and review of IEEs/EIAs of new infrastructure development projects.
15	Guidelines for Public Consultation,1997	These guidelines address possible approaches to public consultation and techniques for designing an effective program of consultation that reaches all major stakeholders and ensures the incorporation of their concerns in any impact assessment study. The guidelines cover consultation, involvement, and participation of stakeholders; effective public consultation (planning, stages of an EIA where consultation is appropriate); and	Public consultation and citizens engagement is mandatory at projects planning and design phase and these guidelines shall be applicable for public consultation.

Sr. #	Act	Description	Applicability to sub-project
		facilitation of involvement (including the poor, women,	
		and NGOs).	
		These guidelines give details about disclosure of	
		environmental information. These guidelines have 2	
	Guidelines for Regulation	parts:	
	of Disclosure of	First part deals with Public Disclosure instructions	These guidelines will be applicable for public disclosure of
16	Environmental	regarding arrangement of public disclosure of	environment related information of IEEs/EIAs or any other
	Information & Citizen	environment information and maintenance of record in	interventions that may cause any harm to the
	Engagement 2020	indexed form	environment.
		Second part is regarding Citizen Engagement, and it gives	
		detailed information regarding citizen engagement and	
		Grievance redress mechanism.	
		The CDA focuses on construction and maintenance of	
		drainage channels and defines powers to prohibit	
		obstruction or order their removal. It also covers issues	
	Canal and Drainage Act	related to canal navigation. It briefly addresses issues	This act shall be applicable for all the subprojects of MCs
17	1873 and Amendment	relating to environmental pollution.	where untreated wastewater is being dispose off to the
	Act 2016	Section 70(5) of the CDA clearly states that no one is	irrigation canals.
		allowed to "corrupt or foul the water of any canal so as to	
		render it less fit for the purposes for which it is ordinarily	
		used."	

Sr. #	Act	Description	Applicability to sub-project
		In addition, Section 73 of the CDA gives power to arrest	
		without warrant or to be taken before the magistrate a	
		person who has willfully damaged or obstructed the canal	
		or "rendered it less useful."	
		The Act requires the protection of wildlife species	This act shall be applicable in case any harm to wildlife is
	Punjab Wildlife	declared as endangered/threatened and rare. It gives	assessed at the stage of early screening or if there is any
18	Protection, Conservation	protection to these species by declaring their natural	potential risk identified to the wildlife during or after
10	and Management Act,	living environment as protected and reserved, which	execution of the subprojects/projects related to
	1974	includes areas such as national parks, wildlife sanctuaries,	infrastructure development and municipal service
		and game reserves.	delivery.
		Punjab EPA has also designed the following	
		Guidelines/Checklists for IEE/EIA Projects:	Checklists for IEE and EIA shall be applicable to all the new
		Check List for IEE (updated September 2020)	infrastructure development projects.
		Check List for EIA (updated September 2020)	Following Guidelines shall be applicable for MC's
	Guidelines and Checklists	After 18 th Amendment, Punjab EPA has adopted the	municipal service delivery projects:
19	adopted by GOP after	following sectoral Guidelines that were prepared by	✓ Urban Roads
	18th Amendment	other provinces and were earlier adopted by Pak EPA:	✓ Water Supply
		✓ Poultry Farms	✓ Sanitation Schemes
		✓ Urban Roads	✓ Major Sewerage Schemes
		✓ Rural Schools	
		✓ Housing Schemes	

Sr. #	Act	Description	Applicability to sub-project
		✓ Petrol & CNG	
		✓ Forest Road	
		✓ Forest Harvesting	
		✓ Water Supply	
		✓ Tourist Facilities	
		✓ Sanitation Schemes	
		✓ Major Chemicals and Manufacturing Plants	
		✓ Flour Mills	
		✓ Carpet Manufacturing	
		✓ Housing Estates and New Town Development	
		✓ Industrial Estate	
		✓ Major Roads	
		✓ Major Sewerage Schemes	
		✓ Stone Crushers	
		✓ Marble Units	
		✓ Oil & Gas Exploration	

Section 2: Environmental & Social Categorization

2.1. Environmental Screening and Categorization of Sub-Projects

Based upon the Screening Checklists, following table will be used to for environmental screening of the identified sub-projects/projects and further documentation requirements. This classification is preliminary and will be finalized when the exact locations and scale of the sub-projects are identified, and screening checklist will be filled in for each of the sub-project/project.

Sr. #	Project Categories	Type of Sub-projects	Nature of Environmental Issues	Env. Category	Social Category	Instruments Required
			Waste Manageme	nt		
	Solid Waste	Collection Equipment, Collection Bins	Negligible environmental impacts	E3	\$3	Applicability of PMDFC EHS SOPs for SWM Machinery/Equipment
	Liquid Waste	Sludge ponds	May have some negative but localized environmental and social impacts	E2	S2	ESMP
1.		Community septic tanks	May have some negative but localized environmental and social impacts	E2	\$2	ESMP
		Vacuum Trucks, Vacuum Handcarts and others	Negligible environmental impacts	E3	\$3	NA
		Construction of Waste Water Treatment Plants	May have significant environmental impacts	E1	S2/S1	IEE/EIA as per nature of impacts and Schedule I and II of PEPA Review of IEE/EIA Regulations 2022.

Sr. #	Project Categories	Type of Sub-projects	Nature of Environmental Issues	Env. Category	Social Category	Instruments Required
2.			Water Supply	<u> </u>		
		Water supply pumps / tube wells	May have negligible environmental impacts	E3	S3	NA
		Overhead reservoirs (OHRs)	May have negligible environmental impacts	E2	S2	ESMP
		Water Supply distribution network	May have some negative to significant environmental and social impacts depending upon the scope of work	E1 or E2	S1 or S2	ESMP for repair and maintenance of existing network or IEE/EIA for new sub-projects as per scope of work and environmental impacts and categorization given in Schedule I and II of PEPA Review of IEE/EIA Regulations 2000
3.			Storm Water Drain	age		
	Urban drainage Open Drainage Covered Drains	System	May have some negative to significant environmental and social impacts depending upon the scope of work	E1 or E2	S1 or S2	ESMP for repair and maintenance of existing systems or IEE/EIA for new sub-projects as per scope of work and environmental impacts and categorization given in Schedule I and II of PEPA Review of IEE/EIA Regulations 2000
	Flood control sy	/stems	May have some negative to significant environmental and social impacts depending upon the scope of work	E1 or E2	S2	ESMP for repair and maintenance of existing system or IEE/EIA for new sub-project as per scope of work and environmental impacts and

Sr. #	Project Categories Type of Sub-projects		Type of Sub-projects Nature of Environmental Issues		Social Category	Instruments Required
						categorization given in Schedule I and II of
						PEPA Review of IEE/EIA Regulations 2000
4.			Connectivity			
	Rehabilitation a	nd maintenance of urban	May have some negative but localized	F2	525	EGMB
	roads ⁴		environmental and social impacts	E2	S2S	ESMP
	Pedestrian walk	ts and security lights, and road signs May have negligible environmental impacts May have negligible environmental impacts		E2	S2	ESMP
	Streets and secu			E3 S3		NA
	Construction of	Bus Workshops	May have some negative but localized environmental and social impacts	E2	S2	ESMP
	Rehabilitation o	f Bus Stands/Terminals ⁵	May have negligible environmental impacts	E2	E2	ESMP
5.			Social and Livability Infra	structure		
	Urban greenery	and public spaces	May have negligible environmental impacts	E2	S2	ESMP
	Construction of	Community Parks ⁶	May have some negative but localized	E2/E1	S2/S1	ESMP/IEE/EIA
			environmental and social impacts			
	Rehabilitation Community Parl		May have negligible environmental impacts	E2	S2	ESMP

-

⁴ After 18th Amendment, Punjab EPA has adopted the Checklists/Guidelines adopted by the Pakistan EPA (as it is). Punjab EPA has adopted Checklists/Guidelines developed by KPK and Balochistan for Small to medium water supply schemes, sanitation schemes, small and medium sized road construction and expansion in urban areas and construction and expansion of bus terminals. These Checklists/Guidelines will be used for the mentioned subprojects of PCP adopted by Punjab EPA

⁵ According to a notification by Punjab EPA vide No. Dir (EIA)/01/2017 dated 29-05-2017, Bus and Wagon stands of Category C with area upto 8 kanals, are exempted from IEE/EIA 6 Parks will be constructed on already allocated lands (for community parks) by Local Government

Section 3: Budget Allocation

To carryout Environmental Assessment as per ESMF-PCP and PEPA, there is need to allocate budget in PC-I.

The IEE/EIA/ESMPs of each sub-project will be included in the bidding documents and the contracts. In this manner, the social and environmental management instruments will be included in the overall scope of works/services and BOQs, and the contractor will implement the mitigation measures included in the contracts alongside other works/services.

Activity	Budget Allocation (PKR)								
Environmental Impact Assessment (EIA)									
Hiring of Environmental Consultant	100,0000-15,0000								
Implementation of EIA	100,0000								
EIA Submission fee	30,000								
Initial Environmental I	Examination (IEE)								
Hiring of Environmental Consultant	500,000-800,000								
Implementation of IEE	500,000- 700,000								
IEE Submission fee	15, 000								

Section 4: Monitoring & Supervision

Environment Focal Person (EFP) and Social Focal Point (SFP) and MCs of their respective region to monitor the contractor to ensure complete and proper implementation of the works/services in accordance with the contract. During this phase, environmental and social monitoring will be carried out to ensure that the mitigation measures given in the IEE/EIA/ESMPs are effectively implemented. The environmental and social monitoring will include the following:

- Environmental and social monitoring to ensure effective implementation of ESMPs and EMPs particularly the mitigation measures included in these documents.
- The monitoring will be conducted with the help of checklists prepared on the basis of the mitigation plans included in environmental and social management instruments.
- Laboratory analysis will be conducted if specified in the ESMPs.
- Photographic records will be maintained where applicable/useful.
- Preparation of monitoring reports.

Annexure E. Financial Appraisal

Project ID: 01-05-01-06-01

Project Description: Construction of Underground Water Storage Tank

Sr. No.		Description	Unit	Value	Remarks
1	Net Present Value (NPV)	NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%	Rs.	(307)	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	-1%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	0.96	
4	Payback Period	PBP= Capital costs ÷ Annual Net Benefits	Years	6.5	

			Costs			Ben	efits			PV @ %	22.32
Year No.	Year	Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits	Net (Cost)/ Benefits	Discount Factor	PV
<u> </u>		A	В	C=A+B	D	E	F	G=D+E+F	H=G-C	l=(1.22.32)^n	J=HxI
0	2023-2024	100.00		100				-	(100)	1	(100)
1	2024-2025	200.00		200			10.00	10	(190)	0.82	(155)
2	2025-2026	100.00	10.00	110			11.61	12	(98)	0.67	(66)
3	2026-2027		11.61	12			13.48	13	2	0.55	1
4	2027-2028		13.48	13			15.66	16	2	0.45	1
5	2028-2029		15.66	16			18.18	18	3	0.37	1
6	2029-2030		18.18	18			21.11	21	3	0.30	1
7	2030-2031		21.11	21			24.52	25	3	0.24	1
8	2031-2032		24.52	25			28.47	28	4	0.20	1
9	2032-2033		28.47	28			33.06	33	5	0.16	1
10	2033-2034		33.06	33			38.39	38	5	0.13	1
11	2034-2035		38.39	38			44.57	45	6	0.11	1
12	2035-2036		44.57	45			51.76	52	7	0.09	1
13	2036-2037		51.76	52			60.10	60	8	0.07	1
14	2037-2038		60.10	60			69.79	70	10	0.06	1
15	2038-2039		69.79	70			81.04	81	11	0.05	1
16	2039-2040		81.04	81			94.10	94	13	0.04	1
17	2040-2041		94.10	94			109.27	109	15	0.03	0
18	2041-2042		109.27	109			126.89	127	18	0.03	0
19	2042-2043		126.89	127			147.34	147	20	0.02	0
20	2043-2044		147.34	147			171.09	171	24	0.02	0
21	2044-2045		171.09	171			198.67	199	28	0.01	0
22	2045-2046		198.67	199			230.70	231	32	0.01	0
23	2046-2047		230.70	231			267.89	268	37	0.01	0
24	2047-2048		267.89	268			311.07	311	43	0.01	0
Т	otal	400	1,868	2,268	-	-	2,179	2,179	(89)		(307)

Costs:

- 1 Capital cost of the Project incorporates both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period.
- 2 Operating and maintenance (0&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.
- 3 Inflation rate is taken for O&M costs @ 16.12%, which is average inflation of last 5 years.

Benefits:

- 4 Benefits include the potential saving in the electricty cost.
- Inflation rate is applied at cost savings @ 16.12%, which is average inflation of last 5 years.
- 6 Residual Value had been taken as nil.

Estimated Project Life:

7 The life estimates of assets are compiled after review of design criteria for MC assets and international best practices. The Life Estimates taken in IDAMP are as follow:

Asset	Useful Life
Buildings/ Civil Works	25
Tubewell Pumps	15
Disposal Pumps	15
OHR	50
Water Pipelines	25
Rising Mains/	25
Transmission Mains	23
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

- The discount rate used for computation of present value of cash flows is taken @ 22.32 % per anum, which is KIBOR prescribed by State Bank of Pakistan as at April 11, 2023.
- 9 Exchange rate is taken as 284.65 PKR/ USD as per Exchange Rates for Mark to Market Revaluation provided at State Bank of Pakistan at April 07, 2023.

Project ID: 01-05-06-01-01

Project Description: Solarization of the municipal buildings

Sr. No.		Description	Unit	Value	Remarks
1	Net Present Value (NPV) NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%		Rs.	58	
2	Financial Internal Rate of Return (FIRR) FIRR		%	27%	
3	Benefit Cost Ratio (BCR) BCR= Total Benefits ÷ Total Costs		Ratio	16.57	
4	Payback Period	PBP= Capital costs ÷ Annual Net Benefits	Years	7.25	

			Costs			Ben	efits			PV @ %	22.32
Year No.	Year	Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits	Net (Cost)/ Benefits	Discount Factor	PV
		Α	В	C=A+B	D	E	F	G=D+E+F	H=G-C	l=(1.22.32)^n	J=HxI
0	2023-2024	100.00	0.50	101				-	(101)	1	(101)
1	2024-2025		0.58	1				-	(1)	0.82	(0)
2	2025-2026		0.67	1				-	(1)	0.67	(0)
3	2026-2027		0.78	1	22.00			22	21	0.55	12
4	2027-2028		0.91	1	25.55			26	25	0.45	11
5	2028-2029		1.06	1	29.66			30	29	0.37	10
6	2029-2030		1.23	1	34.45			34	33	0.30	10
7	2030-2031		1.42	1	40.00			40	39	0.24	9
8	2031-2032		1.65	2	46.45			46	45	0.20	9
9	2032-2033		1.92	2	53.93			54	52	0.16	8
10	2033-2034		2.23	2	62.63			63	60	0.13	8
11	2034-2035		2.59	3	72.72			73	70	0.11	8
12	2035-2036		3.01	3	84.45			84	81	0.09	7
13	2036-2037		3.49	3	98.06			98	95	0.07	7
14	2037-2038		4.05	4	113.87			114	110	0.06	7
15	2038-2039		4.71	5	132.22			132	128	0.05	6
16	2039-2040		5.46	5	153.54			154	148	0.04	6
17	2040-2041		6.34	6	178.29			178	172	0.03	6
18	2041-2042		7.37	7	207.03			207	200	0.03	5
19	2042-2043		8.55	9	240.40			240	232	0.02	5
20	2043-2044		9.93	10	279.15			279	269	0.02	5
21	2044-2045		11.53	12	324.15			324	313	0.01	5
22	2045-2046		13.39	13	376.41			376	363	0.01	4
23	2046-2047		15.55	16	437.08			437	422	0.01	4
24	2047-2048		18.06	18	507.54			508	489	0.01	4
25	2048-2049		20.97	21	589.36			589	568	0.01	4
1	Total	100	148	248	4,109	-	-	4,109	3,861		58

Costs:

- 1 Capital cost of the Project incorporates both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period.
- 2 Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.
- 3 Inflation rate is taken for O&M costs @ 16.12%, which is average inflation of last 5 years.

Benefits:

- 4 Benefits include the potential saving in the electricty cost.
- Inflation rate is applied at cost savings @ 16.12%, which is average inflation of last 5 years.
- 6 Residual Value had been taken as nil.

Estimated Project Life:

7 The life estimates of assets are compiled after review of design criteria for MC assets and international best practices. The Life Estimates taken in IDAMP are as follow:

Asset	Useful Life
Buildings/ Civil Works	25
Tubewell Pumps	15
Disposal Pumps	15
OHR	50
Water Pipelines	25
Rising Mains/	25
Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

- The discount rate used for computation of present value of cash flows is taken @ 22.32 % per anum, which is KIBOR prescribed by State Bank of Pakistan as at April 11, 2023.
- 9 Exchange rate is taken as 284.65 PKR/ USD as per Exchange Rates for Mark to Market Revaluation provided at State Bank of Pakistan at April 07, 2023.

Project ID: 01-05-01-01

Project Description : Solarization of Tube wells and Water Supply System

Sr. No.		Description	Unit	Value	Remarks
1	Net Present Value (NPV) NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%		Rs.	87	
2	Financial Internal Rate of Return (FIRR) FIRR		%	27%	
3	Benefit Cost Ratio (BCR) BCR= Total Benefits ÷ Total Costs		Ratio	16.57	
4	Payback Period	PBP= Capital costs ÷ Annual Net Benefits	Years	7.25	

		Costs				Ben	efits			PV @ %	22.32
Year No.	Year	Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits	Net (Cost)/ Benefits	Discount Factor	PV
		Α	В	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(1.22.32)^n	J=Hxl
	2023-2024	150.00	0.75	151				-	(151)	1	(151)
1	2024-2025		0.87	1				-	(1)	0.82	(1)
2	2025-2026		1.01	1				-	(1)	0.67	(1)
3	2026-2027		1.17	1	33.00			33	32	0.55	17
4	2027-2028		1.36	1	38.32			38	37	0.45	17
5	2028-2029		1.58	2	44.50			44	43	0.37	16
6	2029-2030		1.84	2	51.67			52	50	0.30	15
7	2030-2031		2.14	2	60.00			60	58	0.24	14
8	2031-2032		2.48	2	69.67			70	67	0.20	13
9	2032-2033		2.88	3	80.90			81	78	0.16	13
10	2033-2034		3.34	3	93.94			94	91	0.13	12
11	2034-2035		3.88	4	109.09			109	105	0.11	11
12	2035-2036		4.51	5	126.67			127	122	0.09	11
13	2036-2037		5.23	5	147.09			147	142	0.07	10
14	2037-2038		6.08	6	170.80			171	165	0.06	10
15	2038-2039		7.06	7	198.33			198	191	0.05	9
16	2039-2040		8.20	8	230.31			230	222	0.04	9
17	2040-2041		9.52	10	267.43			267	258	0.03	8
18	2041-2042		11.05	11	310.54			311	299	0.03	8
19	2042-2043		12.83	13	360.60			361	348	0.02	8
	2043-2044		14.90	15	418.73			419	404	0.02	7
21	2044-2045		17.30	17	486.23			486	469	0.01	7
22	2045-2046		20.09	20	564.61			565	545	0.01	6
23	2046-2047		23.33	23	655.62			656	632	0.01	6
24	2047-2048		27.09	27	761.31			761	734	0.01	6
25	2048-2049		31.46	31	884.03			884	853	0.01	6
T	otal	150	222	372	6,163	-	-	6,163	5,791		87

Costs:

- 1 Capital cost of the Project incorporates both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period.
- 2 Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.
- 3 Inflation rate is taken for O&M costs @ 16.12%, which is average inflation of last 5 years.

Benefits:

- 4 Benefits include the potential saving in the electricty cost.
- Inflation rate is applied at cost savings @ 16.12%, which is average inflation of last 5 years.
- 6 Residual Value had been taken as nil.

Estimated Project Life:

7 The life estimates of assets are compiled after review of design criteria for MC assets and international best practices. The Life Estimates taken in IDAMP are as follow:

Asset	Useful Life
Buildings/ Civil Works	25
Tubewell Pumps	15
Disposal Pumps	15
OHR	50
Water Pipelines	25
Rising Mains/	25
Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

- The discount rate used for computation of present value of cash flows is taken @ 22.32 % per anum, which is KIBOR prescribed by State Bank of Pakistan as at April 11, 2023.
- 9 Exchange rate is taken as 284.65 PKR/ USD as per Exchange Rates for Mark to Market Revaluation provided at State Bank of Pakistan at April 07, 2023.

Project ID: 01-05-01-06-02

Project Description : Construction of Underground Water Storage Tank

Sr. No.		Description	Unit	Value	Remarks
1	Net Present Value (NPV)	NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%	Rs.	87	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	27%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	16.57	
4	Payback Period	PBP= Capital costs ÷ Annual Net Benefits	Years	7.25	

	Year	Costs			Benefits					PV @ %	22.32
Year No.		Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Reduction	Total Benefits		Discount Factor	PV
		Α	В	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(1.22.32)^n	J=Hxl
0	2023-2024	150.00	0.75	151				-	(151)	1	(151)
1	2024-2025		0.87	1				-	(1)	0.82	(1)
2	2025-2026		1.01	1				-	(1)		(1)
3	2026-2027		1.17	1	33.00			33	32	0.55	17
4	2027-2028		1.36	1	38.32			38	37	0.45	17
5	2028-2029		1.58	2	44.50			44	43	0.37	16
6	2029-2030		1.84	2	51.67			52	50	0.30	15
7	2030-2031		2.14	2	60.00			60	58	0.24	14
8	2031-2032		2.48	2	69.67			70	67	0.20	13
9	2032-2033		2.88	3	80.90			81	78	0.16	13
10	2033-2034		3.34	3	93.94			94	91	0.13	12
11	2034-2035		3.88	4	109.09			109	105	0.11	11
12	2035-2036		4.51	5	126.67			127	122	0.09	11
13	2036-2037		5.23	5	147.09			147	142	0.07	10
14	2037-2038		6.08	6	170.80			171	165	0.06	10
15	2038-2039		7.06	7	198.33			198	191	0.05	9
16	2039-2040		8.20	8	230.31			230	222	0.04	9
17	2040-2041		9.52	10	267.43			267	258	0.03	8
18	2041-2042		11.05	11	310.54			311	299	0.03	8
19	2042-2043		12.83	13	360.60			361	348	0.02	8
20	2043-2044		14.90	15	418.73			419	404	0.02	7
21	2044-2045		17.30	17	486.23			486	469	0.01	7
	2045-2046		20.09	20	564.61			565	545	0.01	6
	2046-2047		23.33	23	655.62			656	632	0.01	6
	2047-2048		27.09	27	761.31			761	734	0.01	6
	2048-2049		31.46	31	884.03			884	853	0.01	6
T	otal	150	222	372	6,163	-	-	6,163	5,791		87

Costs:

- 1 Capital cost of the Project incorporates both the initial one-off costs such as engineering cost, project construction cost, development cost, procurement cost of equipment, machinery & other assets, utility set up cost, and any other costs to be incurred during the construction period.
- 2 Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.
- 3 Inflation rate is taken for O&M costs @ 16.12%, which is average inflation of last 5 years.

Benefits:

- 4 Benefits include the potential saving in the electricty cost.
- Inflation rate is applied at cost savings @ 16.12%, which is average inflation of last 5 years.
- 6 Residual Value had been taken as nil.

Estimated Project Life:

7 The life estimates of assets are compiled after review of design criteria for MC assets and international best practices. The Life Estimates taken in IDAMP are as follow:

Asset	Useful Life	
Buildings/ Civil Works	25	
Tubewell Pumps	15	
Disposal Pumps	15	
OHR	50	
Water Pipelines	25	
Rising Mains/	25	
Transmission Mains		
Sewerage/ RCC Pipelines	25	
Vehicles	10	
Machinary & Equipment	15	

- The discount rate used for computation of present value of cash flows is taken @ 22.32 % per anum, which is KIBOR prescribed by State Bank of Pakistan as at April 11, 2023.
- 9 Exchange rate is taken as 284.65 PKR/ USD as per Exchange Rates for Mark to Market Revaluation provided at State Bank of Pakistan at April 07, 2023.

Annexure F. Stakeholder's Consultative Session



2022-2023



2023-2024

Annexure G. Cost Estimates for Operation & Maintenance of water supply systems for the budgeted year (2023-2024)

Summary of Cost				
Sub Head No	Sub Head	Total Cost (Rs)		
1	Man power (Annex-A-1)	17,589,000		
2	Electricity charges (Annex-B-1)	47,183,485		
3	Repairs & Replacements (Annex-C-1)	2,919,000		
4	Supply items (Annex-D-1)	992,000		
	POL	-		
	Contingencies	1,000,000		
	Grand Total	68,683,485		
	Grand Total	68,683,485		
	Say (million Rs)	68.68348544		

Annexure H. Cost Estimates for Operation & Maintenance of sewerage systems for the budgeted year (2023-2024)

Summary of Cost					
Sub Head No	Sub Head	Total Cost			
1	Man power (Annex-A-2)	17,028,000			
2	Electricity charges (Annex-B-2)	196,593			
3	Repairs & Replacements (Annex-C-2)	1,195,100			
4	Supply items (Annex-D-2)	1			
	POL	9,945,000			
	Contingencies	6,200,000			
	Grand Total	34,564,693			
	Grand Total	34,564,693			
	Say (million Rs)	34.56			

Annexure I. Cost Estimates for Operation & Maintenance of solid waste management for the budgeted year (2023-2024)

Summary of Cost				
Sub Head No	Sub Head	Total Cost		
1	Man power (Annex-A-3)	110,342,000		
2	Energy Charges (Annex-B-3)	-		
3	Repairs & Replacements (Annex-C-3)	2,995,500		
4	Supply items (Annex-3)	695,750		
	POL	39,688,380		
	Contingencies	700,000		
	Grand Total	154,421,630		
	Grand Total	154,421,630		
	Say (million Rs)	154.42		