




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

HELP BUILD PMDFC HEALTHY CITIES

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01 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
A	Excellent	Routine Maintenance
B	Good	Minor Repair
C	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 informaiton 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:
    - 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;
    - 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.

- 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.

02 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

03 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
1	Water Supply System	Tube wells	No.	17
		Water Supply Network	Meter	154,799
		OHR	No.	2
		Movable Assets (Vehicles/Machinery)	No.	1
2	Sewerage System	Sewerage Network	Meter	146229
		Disposal Stations	No.	1
		Movable Assets (Vehicles/Machinery)	No.	15
3	Recreational	Park	No.	5
4	SWM Resource	Dumping site	No.	1
		Movable Assets (Vehicles/Machinery)	No.	636
5	Bus Stands	Bus Stand	No.	1
6	Buildings	Offices	No.	1
		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 Category	Asset Sub-Category	Asset Condition					Unit	Total
		Excellent (A)	Good (B)	Fair (C)	Poor (D)	Failing (E)		
Water Supply System	Tube wells	-	7	5	5	-	No.	17
	Water Supply Network	-	-	154,799	-	-	Meter	154,799
	OHR	-	-	-	2	-	No.	2
	Movable Assets (Vehicles/Machinery)	-	1	-		-	No.	1
Sewerage System	Sewerage Network	-	89130	-	57099	-	Meter	146229
	Disposal Stations	-	1	-	-	-	No.	1
	Movable Assets (Vehicles/Machinery)	-	7	8	-	-	No.	15
Recreational	Park	-	3	1	1	-	No.	5
SWM Resource	Dumping site	-	-	1	-	-	No.	1
	Movable Assets (Vehicles/Machinery)	599	30	7	-	-	No.	636
Bus Stands	Bus Stand	-	-	1	-	-	No.	1
Buildings	Offices	-	1	-	-	-	No.	1

Asset Category	Asset Sub-Category	Asset Condition					Unit	Total
		Excellent (A)	Good (B)	Fair (C)	Poor (D)	Failing (E)		
	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

04 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
Sewage and sewage treatment and disposal;	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		
	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%		
Sanitation and **solid waste collection and disposal of solid wastes**, treatment and disposal including landfill site and recycling plants;	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%		
	Door-to-door %	Percentage of area with door-to-door solid waste collection.	NIL	NIL		
	Primary SWM Coverage each day in localities %	Percentage of area from which the sanitary staff sweeps & collects waste each day	63%	63%		
	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 and streets;	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 & Chowks in MC Muridke. 2.Improvement and Rehabilitation of P2- Canal Road in MC Muridke. 3.Improvement & Rehabilitation of Roads Project in Muridke city	2023-24 2023-24 2024-25
	Roads with condition "B" (Good) %	Total number of roads with condition “B” expressed as a percentage of total roads.	0%	17%		
	Roads with condition "C" (Fair) %	Total number of roads with condition “C” expressed as a percentage of total roads.	73%	73%		
	Roads with condition "D" (Poor) %	Total number of roads with condition “D” expressed as a percentage of total roads.	27%	10%		
	Roads with condition "E" (Failing) %	Total number of roads with condition “F” expressed as a percentage of total roads.	0%	0%		
Streetlighting;	Streetlight coverage. (%)	Percentage of area/roads with streetlights.	3.4%	3.4%		
	Working Streetlight %	Percentage of working streetlights as of total streetlights.	48%	48%		
Parks, Playgrounds, Open spaces;	Open spaces as percentage of total MC area. %	Open spaces as percentage of total MC area. %	0%	0%		
	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%	1.Rehab of Parks. 2.Rehabilitation / Improvement of Park	2023-24 2025-26
	Parks with condition "B" (Good) %	Parks with condition “B” expressed as a percentage of total parks.	60%	80%		
	Parks with condition "C" (Fair) %	Parks with condition “C” expressed as a percentage of total parks.	20%	20%		
	Parks with condition "D" (Poor) %	Parks with condition “D” expressed as a percentage of total parks.	20%	0%		
	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;	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 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 terminals;	Ratio of bus stations to the total length of roads	Ratio of bus stations to the total length of roads	`1:204	`1:204		
	Adequacy of facilities at bus stands	Adequacy of facilities at bus stands	Yes	Yes		
Slaughterhouses;	Adequacy of slaughterhouses	Adequacy of slaughterhouses keeping in view the population of the MC	No	No		
	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
Municipal libraries;	Total number of Libraries per 100,000 persons	Total number of Libraries per 100,000 persons	NIL	NIL		
	Adequacy of facilities in library	Adequacy of facilities in library in terms of books, computers, furniture, air-conditioning, 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

05 IDAMP 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, the 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

Sr. No.	Project ID	Project Name	Asset Category	Total Capial Cost	2023-24		2024-25		2025-26		Project Screening (Score)
				(Millions)	Capital	O&M	Capital	O&M	Capital	O&M	
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	-	1.15	-	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	-	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	-	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	-	-	-	-	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

Sr. No.	Project ID	Project Name	Asset Category	Total Capial Cost	2023-24		2024-25		2025-26		Project Screening (Score)
					Capital	O&M	Capital	O&M	Capital	O&M	
				(Millions)							
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	-	0.75	-	0.75	80
11	01-05-05-01-02	Rehabilitation of Parks	Parks	400.00	400.00	10.00	-	10.00	-	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 forms[2]:

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	01-05-01-02-01	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	Areas served by following Tube wells: 1. Old Daoke 2. Rehman Park 3. Rehman Pura 4. Bus Stand 5. MC Office 6. Qazzafi Park 7. Peeran Mandi 8. Old Committee 9. Nizam Park 10. Ahmad Pura 11. Basra Colony	80	4	Areas served by following Tube wells: 1. Old Daoke 2. Rehman Park 3. Rehman Pura 4. Bus Stand 5. MC Office 6. Qazzafi Park 7. Peeran Mandi 8. Old Committee 9. Nizam Park 10. Ahmad Pura 11. Basra Colony

[2] https://www.pc.gov.pk/web/downloads/pc

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 ponding. 6. Reduction of wear and tear 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.	1. Rehabilitation of Existing Pavement Structure 2. Pavement Marking 3. Improvement of drainage system 4. 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.	1. Evisceration Hall 2. Meat Cutting Room 3. 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.

06 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	2023-24		2024-25		2025-26	
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.

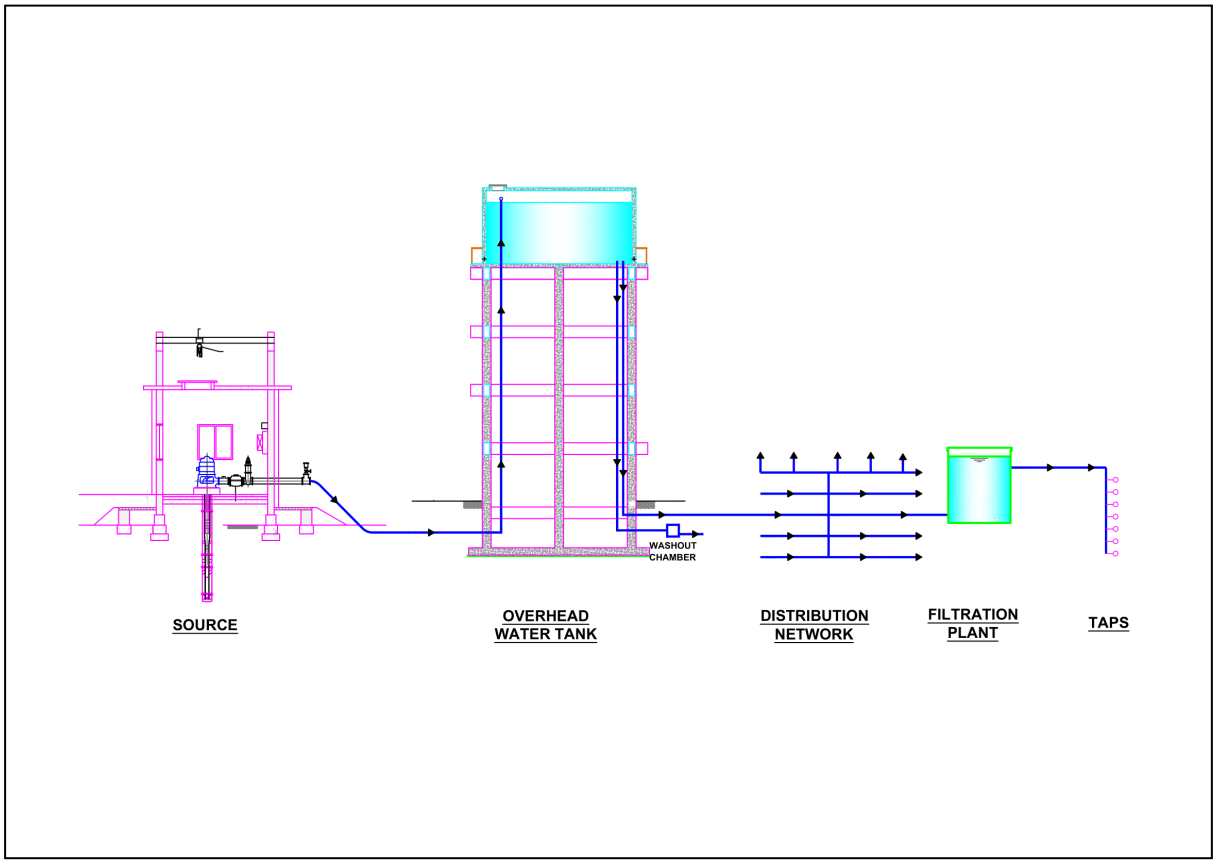
Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.

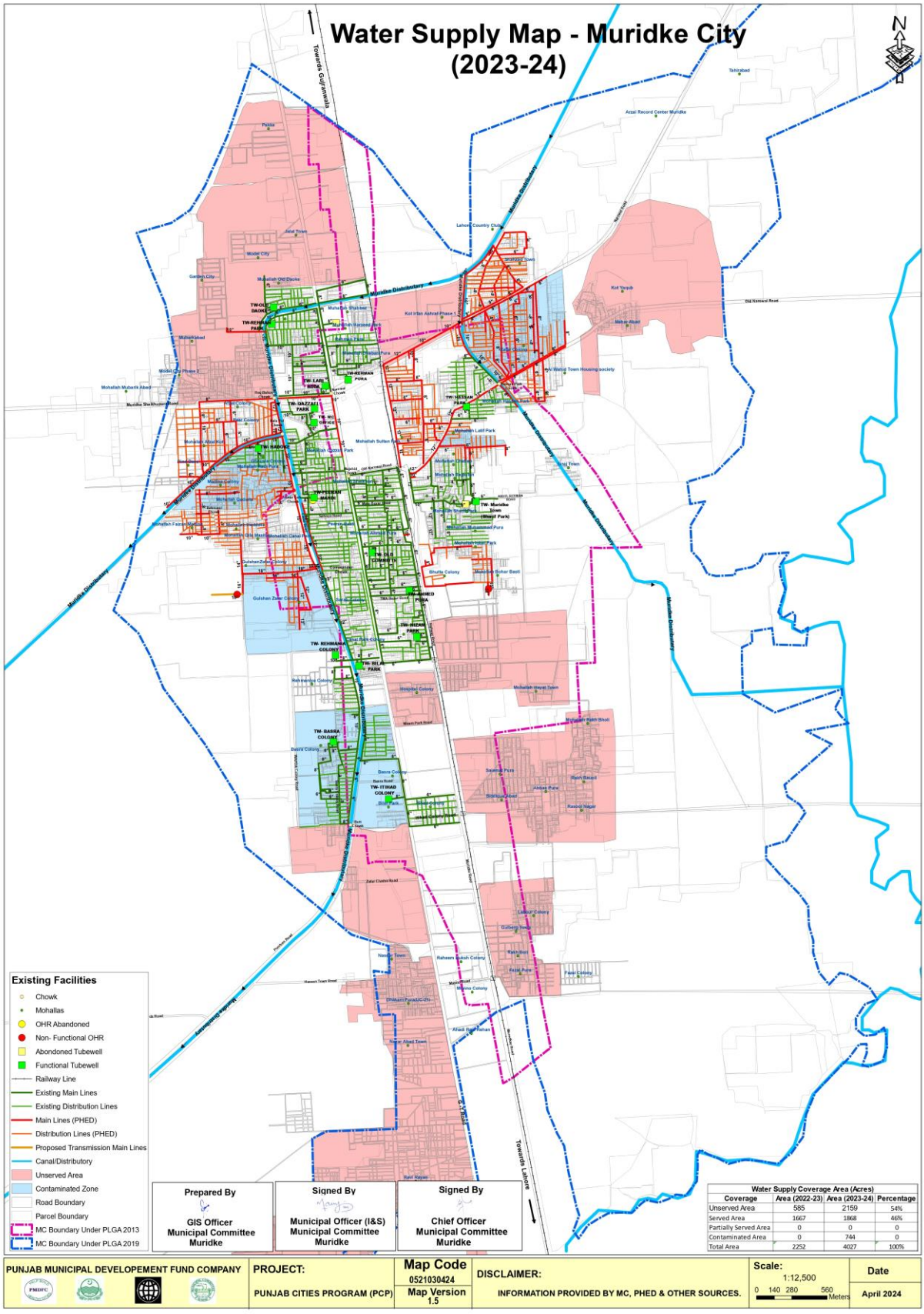
Annexure

Annexure A. Detail of Assets

1. Water Supply:

A. Key Components of a Water Supply System

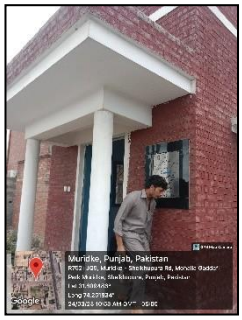


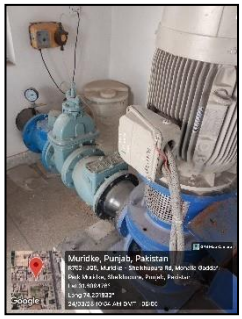

Water Supply Map - Muridke City
(2023-24)
N
Towards Gujranwala
Towards Lahore
Muridke Distributary
Existing Facilities
Chowk
Mohallas
OHR Abandoned
Non- Functional OHR
Abondoned Tubewell
Functional Tubewell
Railway Line
Existing Main Lines
Existing Distribution Lines
Main Lines (PHED)
Distribution Lines (PHED)
Proposed Transmission Main Lines
Canal/Distributory
Unserved Area
Contaminated Zone
Road Boundary
Parcel Boundary
MC Boundary Under PLGA 2013
MC Boundary Under PLGA 2019
Prepared By
GIS Officer
Municipal Committee
Muridke
Signed By
Municipal Officer (I&S)
Municipal Committee
Muridke
Signed By
Chief Officer
Municipal Committee
Muridke
Water Supply Coverage Area (Acres)
Coverage | Area (2022-23) | Area (2023-24) | Percentage
Unserved Area | 585 | 2159 | 54%
Served Area | 1667 | 1868 | 46%
Partially Served Area | 0 | 0 | 0
Contaminated Area | 0 | 744 | 0
Total Area | 2252 | 4027 | 100%
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0521030424
Map Version
1.5
DISCLAIMER:
INFORMATION PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:12,500
0 140 280 560 Meters
Date
April 2024

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

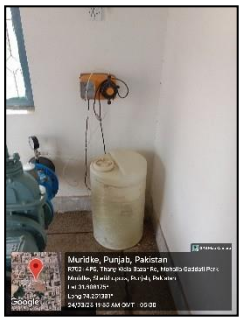
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Asset Detail					**Pictures**
Name		Bus Stand Muridke			
Location	**Latitude**	31.809486			
	Longitude	74.251834			
Address		Bus Stand, Muridke			
Area (Marla)		1 Marla			
Working Status		**Functional**	Non-Functional		
Installation Year of Tube Well		2022			
Installation Year of Pump		2022			
Capital Cost of Machinery		60 Lacs Pkr			
Operational Hours		8			
Delivery Pipe	**Dia**	8”			
	Material	Mild Steel			
Chlorinator		**Yes**	No		
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**	
Apron Around Pump House		**Yes**	No		
Hoisting Girder		**Yes**	No		
Civil Structure Condition		**Good**	Fair	Bad	
Approach to Pump House		**Good**	Fair	Bad	
Pump Details					
Pump Type		Turbine			
Pump Make		Peco			
Discharge Capacity (Cusec)		1			
Rotational Speed (RPM)		1465			
Housing Dia (inches)		12			
Bore Depth (ft.)		550			
Head (ft.)		150			
Impeller Installation Depth (ft.)		110			
Paint of Pumping Unit		Good			
Number of Valves	**Gate Valve**	1			
	Non-Returning Valve	1			
Base Plate		**Yes**	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		50			
Sanctioned Load (Kw)		19			
Motor Power (HP)		30			
Motor Make		Peco			
MCU		**Yes**	No		
Earthing of Motor		**Yes**	No		
Power Wiring		**Yes**	No		
Service Cable		**Yes**	No		
Earthing of MCU		**Yes**	No		





Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ 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**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Qadafi Park		
Location	**Latitude**	31.808196		
	Longitude	74.251416		
Address		Supply Scheme# 10, Mohallah Qadafi Park		
Area (Marla)		1 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		60 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	Fair	**Bad**
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		22		
Motor Power (HP)		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	
Energy Meter		**Yes**	No	



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**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*			

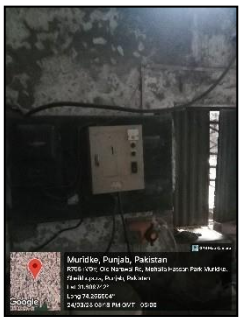
Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Old Dawke		
Location	**Latitude**	31.815807		
	Longitude	74.248237		
Address		Sui Gas Bazaar, Old Dawke, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		1998		
Installation Year of Pump		2022		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		Yes	**No**	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		23		
Motor Power (HP)		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	
Energy Meter		**Yes**	No	

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**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*			

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Muridke Town		
Location	**Latitude**	31.8016		
	Longitude	74.264583		
Address		Muridke Town		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non-Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		60 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		Yes	**No**	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		**Good**	Fair	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		25		
Sanctioned Load (Kw)		19		
Motor Power (HP)		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	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ 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**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 24-04-2023
Asset Detail					**Pictures**
Name		Hassan Park			
Location	**Latitude**	31.809945			
	Longitude	74.266607			
Address		Hassan Park			
Area (Marla)		01 Marla			
Working Status		**Functional**	Non-Functional		
Installation Year of Tube Well		Not Available			
Installation Year of Pump		1995			
Capital Cost of Machinery		Not Available			
Operational Hours		8			
Delivery Pipe	**Dia**	6			
	Material	Mild Steel			
Chlorinator		**Yes**	No		
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**	
Apron Around Pump House		Yes	**No**		
Hoisting Girder		**Yes**	No		
Civil Structure Condition		Good	**Fair**	Bad	
Approach to Pump House		Good	**Fair**	Bad	
Pump Details					
Pump Type		Turbine			
Pump Make		KSB			
Discharge Capacity (Cusec)		1			
Rotational Speed (RPM)		1485			
Housing Dia (inches)		12			
Bore Depth (ft.)		600			
Head (ft.)		150			
Impeller Installation Depth (ft.)		100			
Paint of Pumping Unit		Good			
Number of Valves	**Gate Valve**	1			
	Non-Returning Valve	1			
Base Plate		**Yes**	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		50			
Sanctioned Load (Kw)		19			
Motor Power (HP)		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		

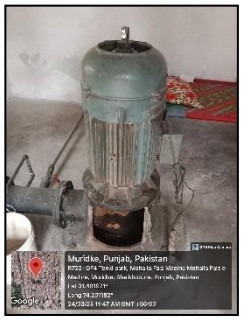


Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Energy Meter	Yes	**No**			
Water Meter	**Yes**	No			
PFI Equipment	Yes	**No**			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*Designation: Team Lead*	*Sign & Date: 30 May 2023*			

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Mohallah Rehman Purah		
Location	**Latitude**	31.81113		
	Longitude	74.256858		
Address		Mohallah Rehman Purah		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non-Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		60 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		19		
Motor Power (HP)		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	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ 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**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Pera Mandi		
Location	Latitude	31.802131		
	Longitude	74.251108		
Address		Mohallah Faiz-e-Madinah, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		1999		
Installation Year of Pump		1999		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	Dia	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		Local Made		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Fair		
Number of Valves	Gate Valve	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		23		
Motor Power (HP)		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	
Energy Meter		Yes	**No**	

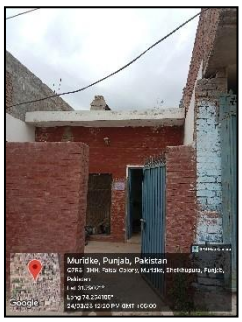


Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Water Meter	Yes	**No**			
PFI Equipment	Yes	**No**			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*Designation: Team Lead*	*Sign & Date: 30 May 2023*			

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Bilal Park		
Location	**Latitude**	31.790239		
	Longitude	74.254126		
Address		Faisal Colony, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non-Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		60 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		Peco		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		39		
Motor Power (HP)		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	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ 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**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Mohallah Rehmania Colony		
Location	**Latitude**	31.788382		
	Longitude	74.254527		
Address		Mohallah Rehmania Colony, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		Not Available		
Installation Year of Pump		1995		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	Fair	**Bad**
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		550		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Fair		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		23		
Motor Power (HP)		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	
Energy Meter		Yes	**No**	

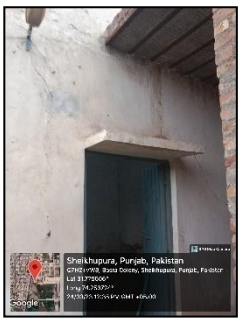


Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Water Meter	Yes	**No**			
PFI Equipment	Yes	**No**			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*Designation: Team Lead*	*Sign & Date: 30 May 2023*			

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Mohallah Bassra Colony		
Location	**Latitude**	31.784395		
	Longitude	74.251798		
Address		Basra Colony		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non-Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		60 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		Good	Fair	**Bad**
Pump Details				
Pump Type		Turbine		
Pump Make		Local Made		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		19		
Motor Power (HP)		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	

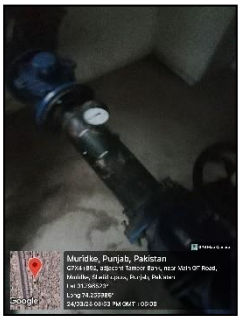
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Energy Meter		**Yes**	No		
Water Meter		**Yes**	No		
PFI Equipment		**Yes**	No		
Generator		Yes	**No**		
Change Over		Yes	**No**		
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Itahad Colony		
Location	**Latitude**	31.779506		
	Longitude	74.253724		
Address		Supply Scheme # 16, Itehad Colony, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		Not Available		
Installation Year of Pump		2013		
Capital Cost of Machinery		45 Lacs Pkr		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	Fair	**Bad**
Approach to Pump House		Good	Fair	**Bad**
Pump Details				
Pump Type		Turbine		
Pump Make		Flow Pak		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1460		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		200		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Fair		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
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	**No**	



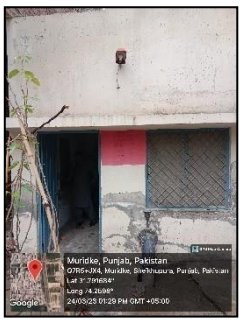
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Water Meter	Yes	**No**			
PFI Equipment	**Yes**	No			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*		

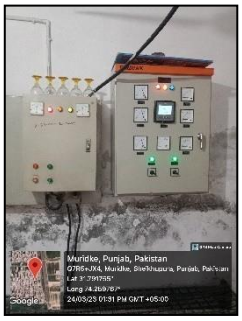
Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Old Committee Office		
Location	**Latitude**	31.798492		
	Longitude	74.255937		
Address		Adjacent Tameer Bank, Near GT Road, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		Not Available		
Installation Year of Pump		2008		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		**Good**	Fair	Bad
Approach to Pump House		**Good**	Fair	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		Peco		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		19		
Motor Power (HP)		30		
Motor Make		Peco		
MCU		**Yes**	No	
Earthing of Motor		**Yes**	No	
Power Wiring		**Yes**	No	
Service Cable		**Yes**	No	
Earthing of MCU		**Yes**	No	
Energy Meter		**Yes**	No	



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**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*		

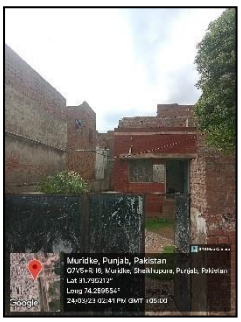
Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Nizam Park		
Location	**Latitude**	31.791684		
	Longitude	74.2598		
Address		Supply Scheme# 2, Nizam Park, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		NA		
Installation Year of Pump		1998		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	**Fair**	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Fair		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		23		
Motor Power (HP)		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	
Energy Meter		Yes	**No**	





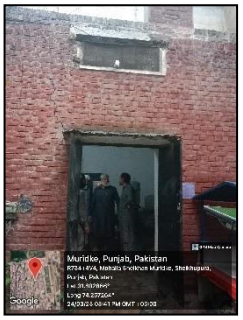
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Water Meter	Yes	**No**			
PFI Equipment	**Yes**	No			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*Designation: Team Lead*			 *Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Asset Detail				**Pictures**
Name		Ahmed Pura		
Location	**Latitude**	31.795212		
	Longitude	74.259554		
Address		Supply Scheme #1, Ahmad Pura, Muridke		
Area (Marla)		01 Marla		
Working Status		Functional	Non- Functional	
Installation Year of Tube Well		NA		
Installation Year of Pump		2017		
Capital Cost of Machinery		6 Million PKR		
Operational Hours		8		
Delivery Pipe	**Dia**	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	**Fair**	Bad
Approach to Pump House		Good	Fair	**Bad**
Pump Details				
Pump Type		Turbine		
Pump Make		Flow Pak		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1460		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Poor		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		100		
Sanctioned Load (Kw)		19		
Motor Power (HP)		25		
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	**No**	



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**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*			

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Mohallah Shaikhan		
Location	**Latitude**	31.802886		
	Longitude	74.257264		
Address		Supply Scheme #4, Mohallah Shaikhan		
Area (Marla)		01 Marla		
Working Status		Functional	Non- Functional	
Installation Year of Tube Well		1987		
Installation Year of Pump		1987		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		**Yes**	No	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	**Fair**	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		Yes	**No**	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		19		
Motor Power (HP)		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	
Energy Meter		Yes	**No**	

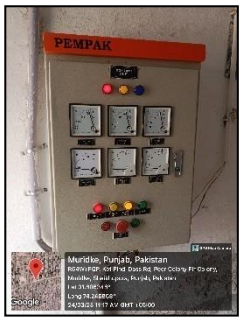


Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Water Meter	Yes	**No**			
PFI Equipment	Yes	**No**			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*Designation: Team Lead*			*Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Canal Park		
Location	**Latitude**	31.802114		
	Longitude	74.25114		
Address		Gulshan-e-Zafar Colony, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non- Functional	
Installation Year of Tube Well		2022		
Installation Year of Pump		2022		
Capital Cost of Machinery		6 Million PKR		
Operational Hours		8		
Delivery Pipe	**Dia**	8		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	**Fair**	Bad
Approach to Pump House		Good	**Fair**	Bad
Pump Details				
Pump Type		Turbine		
Pump Make		KSB		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1480		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		Yes	**No**	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		19		
Motor Power (HP)		30		
Motor Make		Seimens		
MCU		**Yes**	No	
Earthing of Motor		**Yes**	No	
Power Wiring		**Yes**	No	
Service Cable		**Yes**	No	
Earthing of MCU		**Yes**	No	
Energy Meter		Yes	**No**	

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**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Asset Detail				**Pictures**
Name		Hadoke		
Location	**Latitude**	31.815897		
	Longitude	74.248219		
Address		Sui Gas Wala Bazaar, Muridke		
Area (Marla)		01 Marla		
Working Status		**Functional**	Non-Functional	
Installation Year of Tube Well		Not Available		
Installation Year of Pump		2005		
Capital Cost of Machinery		Not Available		
Operational Hours		8		
Delivery Pipe	**Dia**	6		
	Material	Mild Steel		
Chlorinator		**Yes**	No	
Chlorination Schedule		Once in a Year	After 6 Months	**No Schedule**
Apron Around Pump House		Yes	**No**	
Hoisting Girder		**Yes**	No	
Civil Structure Condition		Good	**Fair**	Bad
Approach to Pump House		Good	Fair	**Bad**
Pump Details				
Pump Type		Turbine		
Pump Make		Not Available		
Discharge Capacity (Cusec)		1		
Rotational Speed (RPM)		1465		
Housing Dia (inches)		12		
Bore Depth (ft.)		600		
Head (ft.)		150		
Impeller Installation Depth (ft.)		100		
Paint of Pumping Unit		Good		
Number of Valves	**Gate Valve**	1		
	Non-Returning Valve	1		
Base Plate		**Yes**	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		50		
Sanctioned Load (Kw)		23		
Motor Power (HP)		25		
Motor Make		Siemens		
MCU		**Yes**	No	
Earthing of Motor		**Yes**	No	
Power Wiring		**Yes**	No	
Service Cable		**Yes**	No	
Earthing of MCU		**Yes**	No	

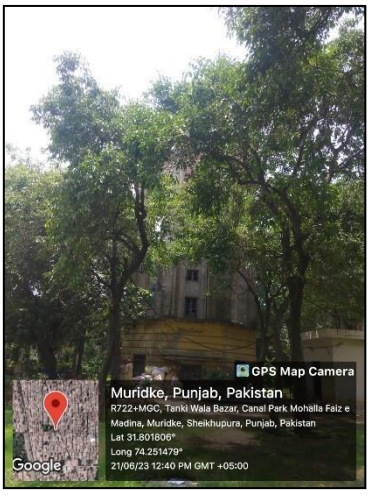


Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A1	**Tube Well Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**	
Energy Meter	Yes	**No**			
Water Meter	Yes	**No**			
PFI Equipment	Yes	**No**			
Generator	Yes	**No**			
Change Over	Yes	**No**			
Overall Rating					
Average Score	**1**	**2**	**3**	**4**	**5**
Asset Condition	**Excellent**	**Good**	**Fair**	**Poor**	**Failing**
Category	**A**	**B**	**C**	**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. Fiaz	*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 Development And Asset Management Plan (IDAMP)					
Municipal Service Unit Muridke					
Form: IDAMP-A2	**Over Head Reservoir Asset Condition Assessment**				**Asset Code: _____ Date: 24-04-2023**
Name		Mohalla Peeran Mandi			**Pictures**
Location	**Latitude**	31.801814			
	Longitude	74.251403			
Address		Mohalla Peeran Mandi, Muridke			
Year of Construction		Not Available			
Capacity (UK Gallons)		50,000			
Cleaning Frequency (Per Year)		0			
Type of Structure		Brick Masonry			
Structure Condition		Good	Fair	Poor	
Tank Conditions		Good	Fair	Poor	
Number of Valves	**Sluice Valve**				
	Non-Returning Valve				
Working Status		**Abandoned**			
Rising Main	**Dia**				
	Material				
Delivery Main	**Dia**				
	Material				
Overflow & Scour Pipe	**Dia**				
	Material				
Sluice Valve	**Rising Main**	Yes	No		
	Delivery Main	Yes	No		
	Scour Pipe	Yes	No		
	Overflow Pipe	Yes	No		
Stair Case		Yes	No		
Apron Around OHR		Yes	No		
Tank Top Railing		Yes	No		
Top Indication Light		Yes	No		
Lightening Arrester		Yes	No		
Boundary Wall & Gate		Yes	No		
Overflow Disposal Arrangements		Yes	No		
Approach to OHR		Good	Fair	Bad	

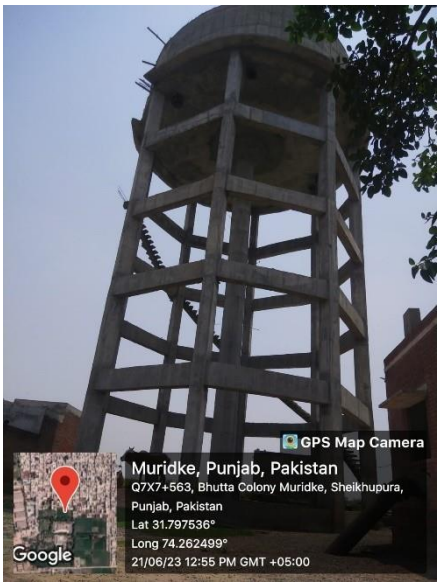


Remarks / Requirements

- 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*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Service Unit Muridke					
Form: IDAMP-A2	**Over Head Reservoir Asset Condition Assessment**				**Asset Code: _____ Date: 24-04-2023**
Name		Bhutta Colony			**Pictures**
Location	**Latitude**	31.797536			
	Longitude	74.262499			
Address		Mohalla Peeran Mandi, Muridke			
Year of Construction		Not Available			
Capacity (UK Gallons)		100,000			
Cleaning Frequency (Per Year)		0			
Type of Structure		Frame, RCC			
Structure Condition		Good	Fair	Poor	
Tank Conditions		Good	Fair	Poor	
Number of Valves	**Sluice Valve**				
	Non-Returning Valve				
Working Status		**Abandoned**			
Rising Main	**Dia**				
	Material				
Delivery Main	**Dia**				
	Material				
Overflow & Scour Pipe	**Dia**				
	Material				
Sluice Valve	**Rising Main**	Yes	No		
	Delivery Main	Yes	No		
	Scour Pipe	Yes	No		
	Overflow Pipe	Yes	No		
Stair Case		Yes	No		
Apron Around OHR		Yes	No		
Tank Top Railing		Yes	No		
Top Indication Light		Yes	No		
Lightening Arrester		Yes	No		
Boundary Wall & Gate		Yes	No		
Overflow Disposal Arrangements		Yes	No		
Approach to OHR		Good	Fair	Bad	



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*

C. Water Supply Network

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

Integrated Development And Asset Management Plan (IDAMP)						
Municipal Committee Muridke						
Form: IDAMP-A5	Water Supply Network Asset Condition Assessment					Asset Code: _____ Date: 24-04-2023
Description		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
Served Area		1667	9337	17.8%	3270	51%
Contaminated Area		-		-		
Water Shortage Area		-		-		
Unserved Area		1603		17.2%		49%
Latest water quality analysis carried out for community network?		Yes			No	
If yes, which lab and parameters?		Not Available				
Findings of water quality analysis?		Not Available				
In case of any parameter above the permissible limit of PEQSs, which steps are taken to provide safe drinking water to the consumers?		Not Available				
Any complaints of water contamination received from the consumers?		Yes			No	
If yes, which steps were taken to resolve the complaints?		Not Available				

Pipe Dia (inches)	Pipe Material	Length (ft)	Year of Laying	Age of Pipe
3	UPVC	130733	2012	11 Years
4	UPVC	8307	2012	11 Years
6	UPVC	12504	2012	11 Years
8	UPVC	5311	2012	11 Years
12	UPVC	290	2012	11 Years

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*

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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 24-04-2023

Type of Vehicle / Machinery	Pictures
Water Bowser	

Capacity	500 Gallon
Purpose	Water Supply
Year of Manufacturing	2014
Model	New Holland 480
Capital Cost	Not Available
Fuel Consumption (lit/month)	1182
Condition	Good
Engine Capacity	55 hp
Maintenance Cost	Not Available
Oiling /Fitness	Yes
Fitness Certificate	No
Registered	SAJ-21

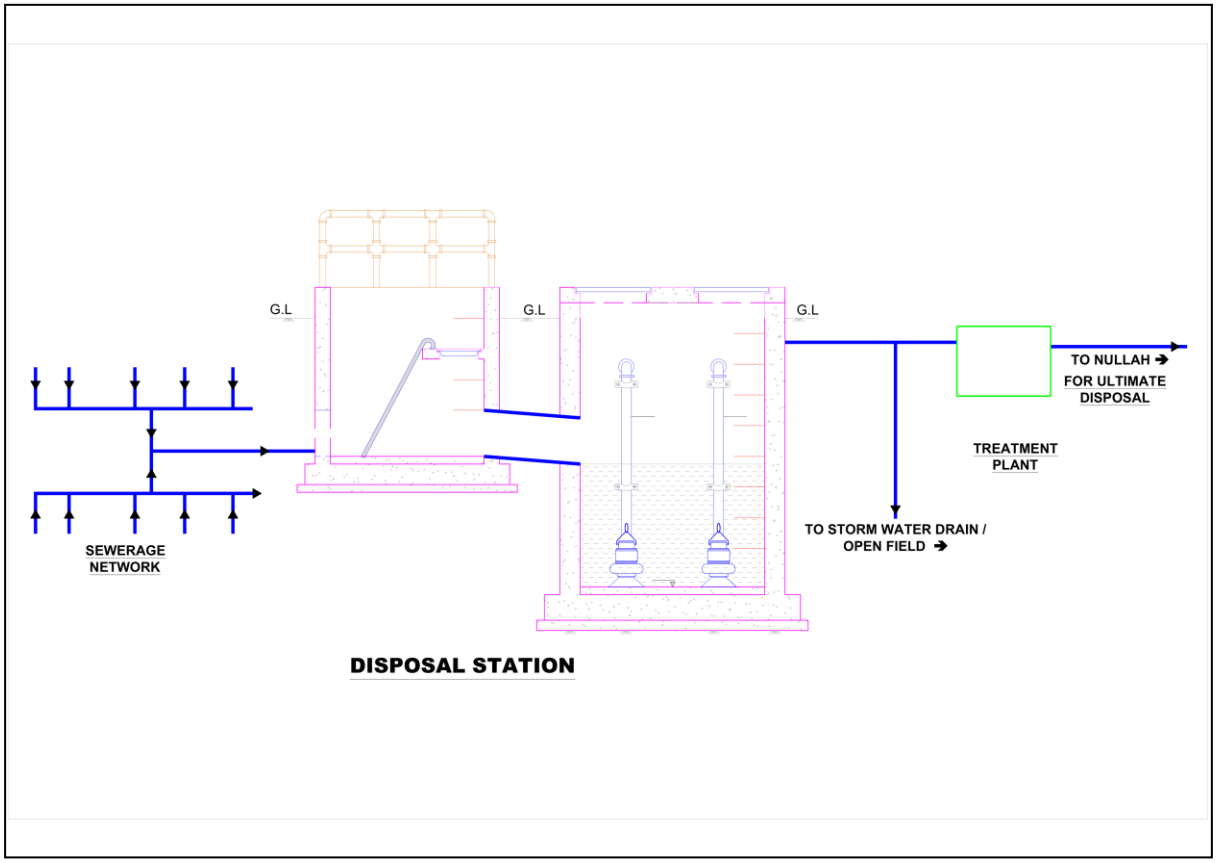
Remarks / Requirements

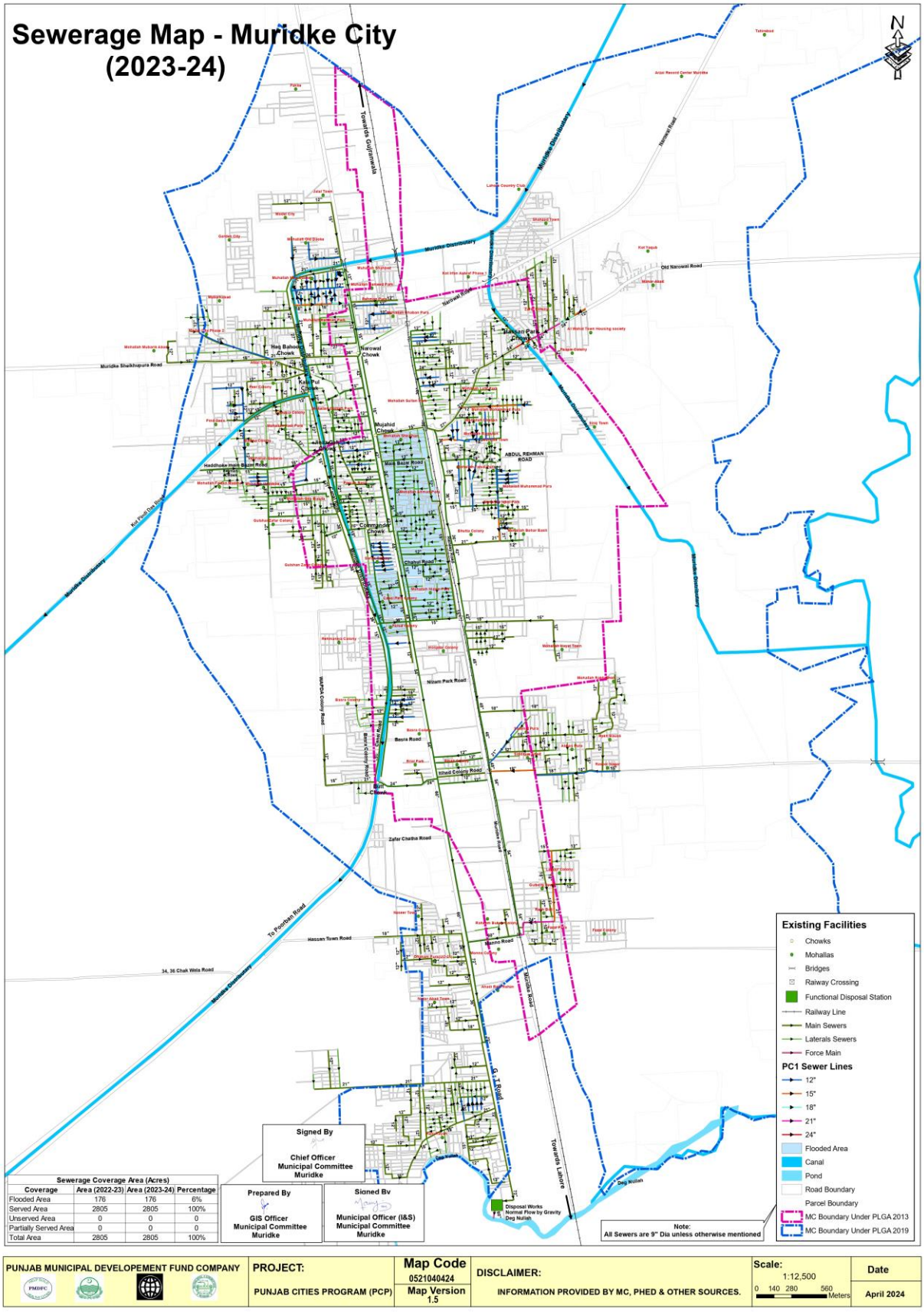
- No remarks

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

2. Sewerage

2.1 KEY COMPONENTS OF SEWERAGE SYSTEM




Sewerage Map - Muridke City
(2023-24)
N
Existing Facilities
Chowks
Mohallas
Bridges
Raiway Crossing
Functional Disposal Station
Railway Line
Main Sewers
Laterals Sewers
Force Main
PC1 Sewer Lines
12"
15"
18"
21"
24"
Flooded Area
Canal
Pond
Road Boundary
Parcel Boundary
MC Boundary Under PLGA 2013
MC Boundary Under PLGA 2019
Sewerage Coverage Area (Acres)
Coverage | Area (2022-23) | Area (2023-24) | Percentage
Flooded Area | 176 | 176 | 6%
Served Area | 2805 | 2805 | 100%
Unserved Area | 0 | 0 | 0
Partially Served Area | 0 | 0 | 0
Total Area | 2805 | 2805 | 100%
Signed By
Chief Officer
Municipal Committee
Muridke
Prepared By
GIS Officer
Municipal Committee
Muridke
Signed By
Municipal Officer (I&S)
Municipal Committee
Muridke
Note:
All Sewers are 9" Dia unless otherwise mentioned
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0521040424
Map Version
1.5
DISCLAIMER:
INFORMATION PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:12,500
0 140 280 560
Meters
Date
April 2024

A. Sewerage Network

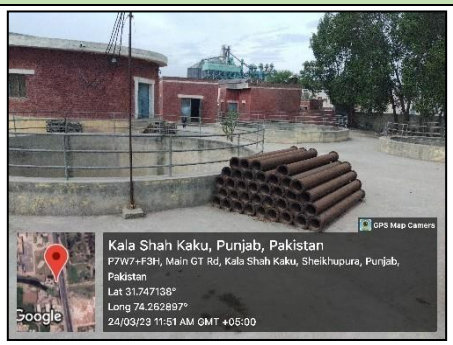
Sr #	Dia	Length (meter)	Age (Years)	Condition	Book Value (PKR Million)	Material
1	**9" Dia**	38030	38	Poor	0	RCC
2	**12" Dia**	2697				
3	**15" Dia**	2384				
4	**18" Dia**	3735				
5	**24" Dia**	503				
6	**36" Dia**	877				
7	**42" Dia**	661				
8	**54" Dia**	4064				
9	**60" Dia**	4148				
10	**9"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

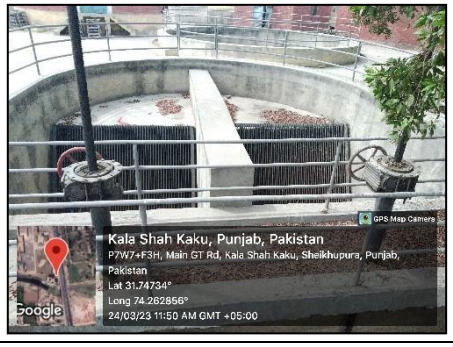
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Service Unit Muridke District Government Sheikhupura					
Form: IDAMP-A6	Sewerage Network Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023	
Description		**Area (Acres)**		**Percentage**	
Served Area		2805		86%	
Flooded Area		176			
Unserved Area		465		14%	
Type and number of complaints received to MC regarding sewerage system?		Not Available			
Steps considered by MC to resolve the complaints		Not Available			
Pipe Dia (inches)	**Pipe Material**	**Length (m)**	**No. of Manholes**	**Year of Laying**	**Age of Pipe**
9" Dia	R.C.C	38030	2496	1985	38 Years
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		
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	2010	13 Years
12" Dia	R.C.C	23121	759		
15" Dia	R.C.C	9223	202		
18" Dia	R.C.C	3140	52		
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	17		
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*	

B. Disposal Station

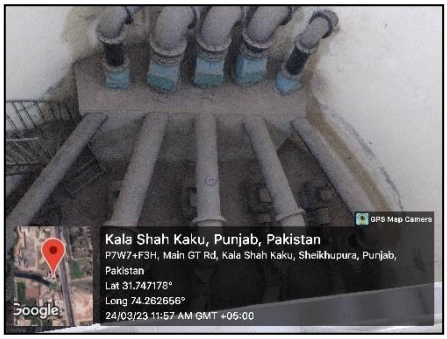
Sr #	Name	Age (Years)		Condition	Status	Book Value (PKR Million)	Nos. of pump	Discharge Each (Cusec)	Motor hp	Pump Make	Motor Make
		Civil Structure	Pump								
1	Ravi Ryan Dake Disposal	13	13	Good	Functional	47	5	10(3nos.) 5(2nos.)	100(3nos.) 75(2nos.)	KSB	Siemens

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023	
Asset Detail				Pictures	
Name		Ravi Ryan Disposal Station			
Location	Latitude	31.747138			
	Longitude	74.262897			
Address		Main GT Road, Sheikhupura			
Area (Acres)		0.5			
Installation Year		2010			
Capital Cost of Machinery		84 Million Pkr			
Outfall Drain Sewer	Dia	72”			
	Material	RCC			
Screening Chamber	No. of Screens	2			
	Screen Condition	**Good**	Fair	Poor	
	Chamber Structure	RCC			
Wet Wells	Number	2			
	Shape	Rectangular	**Circular**		
	Size	30’			
	Structure	Masonry	**RCC**		
	Railing	**Yes**	No		
Force Main	No. of force mains	1			
	Dia	60”			
	Material	AC			
	Starting Point	Pump House			
	Ending Point	Nala Daigh			
	Length	50’			
Sullage Carrier	Size	No Sullage Carrier			
	Shape				
	Length				
	Condition				
Delivery Pipe	Dia	24”	12”		
	Material	C.I	C.I		





Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment				Asset Code: _____ Date: 24-04-2023
Suction Pipe	Dia	24"	12"		
	Material	C.I	C.I		
Number of Valves	Sluice Valves	10			
	Non-Return Valves	5			
	Penstock Valves	2			
Ultimate Disposal		Nala Daigh			
Civil Structure Condition		Good	Fair	Poor	
Control Room Structure		Good	Fair	Poor	
Discharge Box Structure		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	
Hoisting Girder		Yes	No		
Boundary Wall & Gate		Yes	No		
Treatment of Sewage		Yes	No		
Wastewater daily discharge in m^3/day? (based on available information at MC)		57,263			
Ultimate disposal of wastewater?					
Electro-Mechanical Equipment Details					
Number of WAPDA Feeders		1			
Transformer Capacity (kVA)		400			
Number of MCU		5			
Sanctioned Load (kw)		340			
Power Factor Improvement Equipment		Yes	No		
Service Cable		Yes	No		
Power Wiring		Yes	No		
Earthing of Motor		Yes	No		
Earthing of MCU		Yes	No		
Generator Availability		Yes	No		
Light Wiring of Pump House		Yes	No		
Change Over		Yes	No		



Pump Detail					
	Pump A	Pump B	Pump C	Pump D	Pump E
Pump Type	Centrifugal/ Non-Clogging	Centrifugal/ Non-Clogging	Centrifugal/ Non-Clogging	Centrifugal/ Non-Clogging	Centrifugal/ Non-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	5
Rotational Speed (RPM)	960	960	960	960	960
Head (ft.)	30	30	30	30	30
Motor Power (HP)	100	100	100	75	75

Integrated Development and Asset Management Plan (IDAMP)											
Municipal Committee Muridke											
Form: IDAMP-A7	**Sewerage Disposal Station Asset Condition Assessment**								**Asset Code: _____ Date: 24-04-2023**		
Pump Daily Running Time (Hours)		-		-		-		-		-	
Base Plate		**Yes**	No	**Yes**	No	**Yes**	No	**Yes**	No	**Yes**	No
Number of Valves	**Sluice Valve**	**10**									
	Non-Returning Valve	**5**									

Remarks / Requirements

- Although disposal station is in good condition, it is not actively operational.
- Its operational frequency is 5-6 times a year, during the heavy rains.
- There is a bypass arrangement available for dry season, waste water dispose off through gravity in nala daigh.

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*

C. Vehicles/ Machinery

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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	**Moveable Asset Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**

Type of Vehicle / Machinery	Pictures
Sucker	

Capacity	7000 Liters
Purpose	To remove blockage of sewer pipelines
Year of Manufacturing	2018
Model	MPR
Capital Cost	Not Available

Fuel Consumption (lit/month)	16
Condition	Good
Engine Capacity	200hp
Maintenance Cost	Not Available
Oiling /Fitness	Yes
Fitness Certificate	No
Registered	SAG-29

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*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	**Moveable Asset Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**

Type of Vehicle / Machinery	**Pictures**
Jetting Machine	

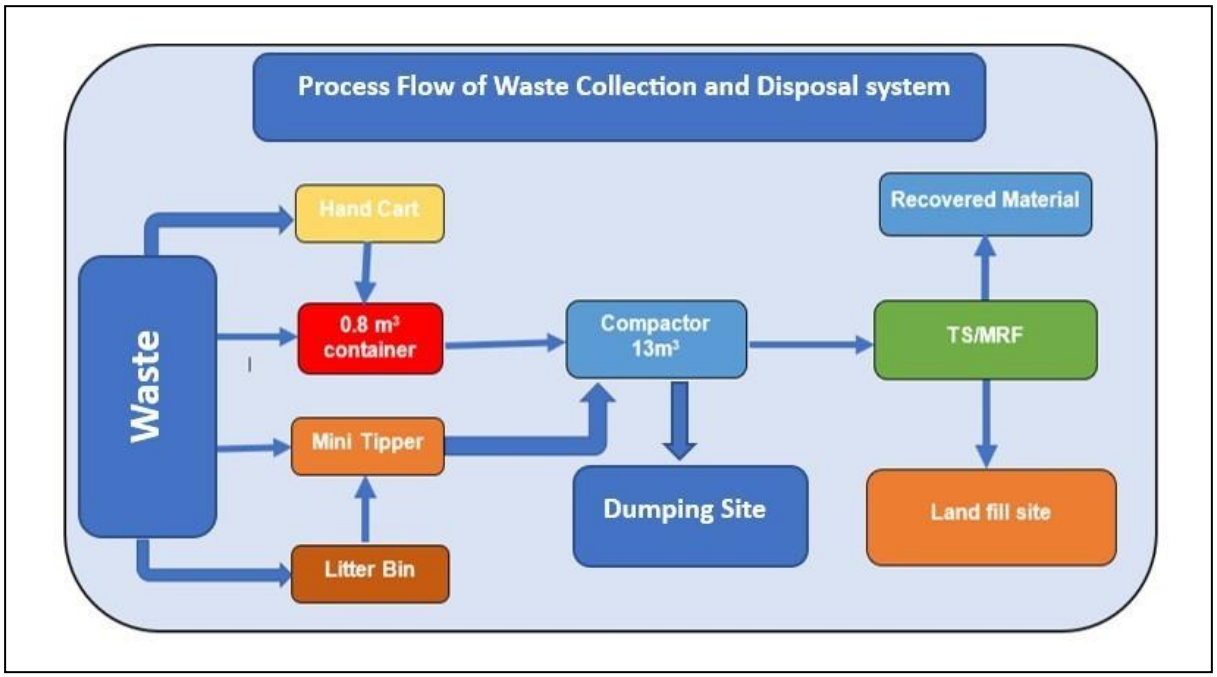
Capacity	7000 Liters
Purpose	To remove blockage of sewer pipelines
Year of Manufacturing	2018
Model	BECO (MPR)
Capital Cost	Not Available
Fuel Consumption (lit/month)	13
Condition	Good
Engine Capacity	200hp
Maintenance Cost	Not Available
Oiling /Fitness	Yes
Fitness Certificate	No
Registered	SAG-18-30

Remarks / Requirements

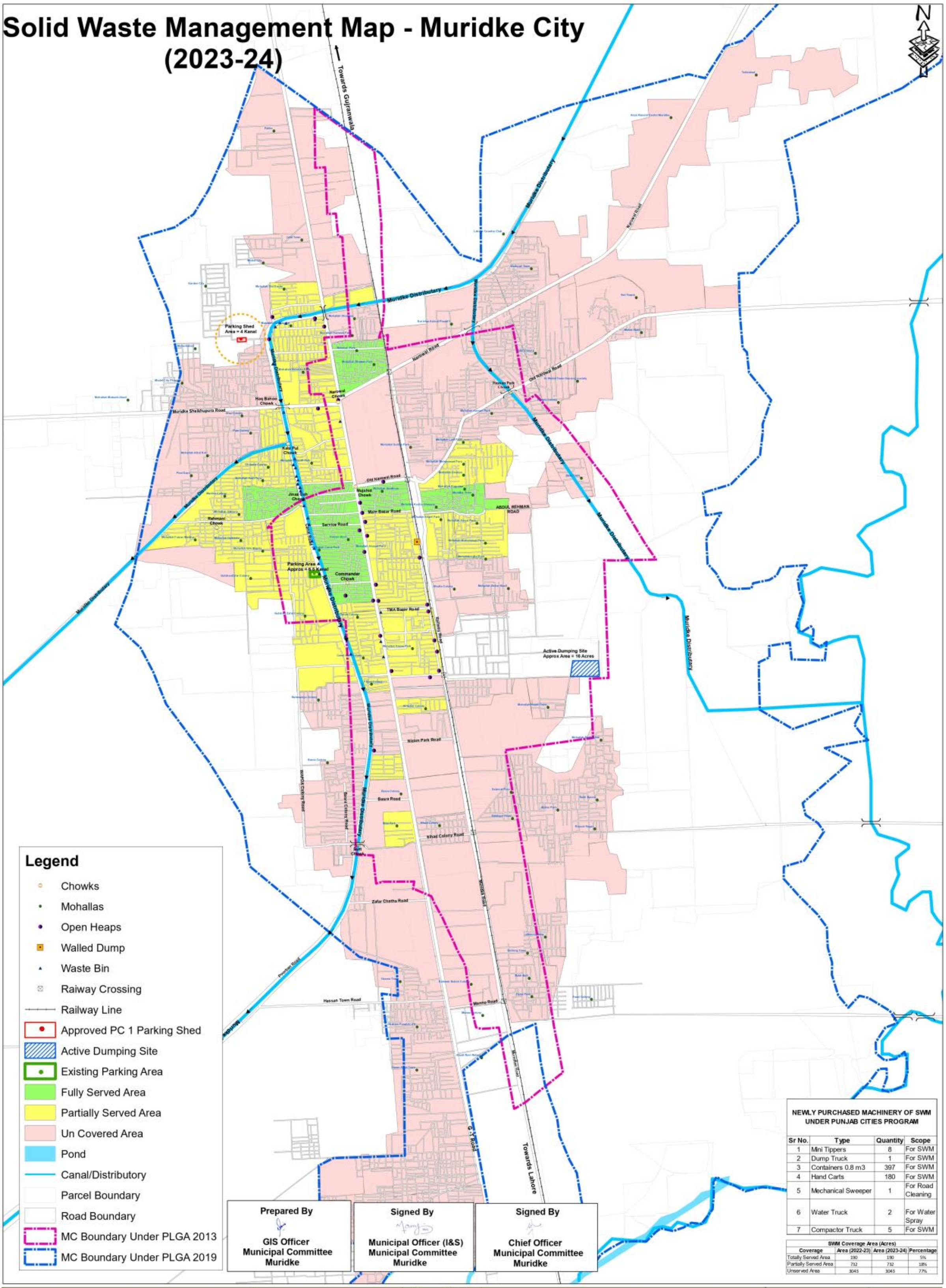
- No remarks

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

3. Solid Waste Management



Solid Waste Management Map - Muridke City (2023-24)



NEWLY PURCHASED MACHINERY OF SWM UNDER PUNJAB CITIES PROGRAM

Sr No.	Type	Quantity	Scope
1	Mini Tippers	8	For SWM
2	Dump Truck	1	For SWM
3	Containers 0.8 m3	397	For SWM
4	Hand Carts	180	For SWM
5	Mechanical Sweeper	1	For Road Cleaning
6	Water Truck	2	For Water Spray
7	Compactor Truck	5	For SWM

SWM Coverage Area (Acres)

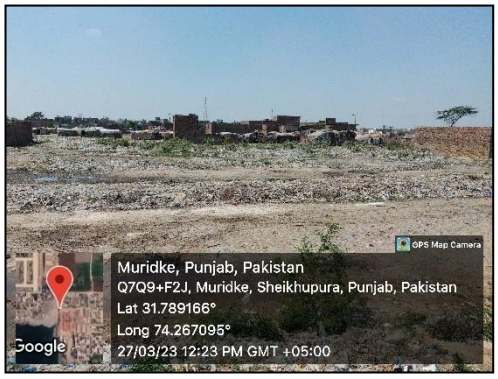
Coverage	Area (2022-23)	Area (2023-24)	Percentage
Totally Served Area	190	190	5%
Partially Served Area	732	732	18%
Unserved Area	3043	3043	77%

PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY	PROJECT: PUNJAB CITIES PROGRAM (PCP)	Map Code 0521050424 / Map Version 1.5	DISCLAIMER: INFORMATION PROVIDED BY MC, PHED & OTHER SOURCES.	Scale: 1:12,500 (0 140 280 560 Meters)	Date April 2024

A. Dumping Site

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

Integrated Development And Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A11	Solid Waste Dumping Site Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Name		Pind Muridke		Pictures
Location	Latitude	31.789133		
	Longitude	74.267101		
Address		Pind Muridke		
Area (Acres)		16		
Distance from urban area		5 km		
Year the site started for dumping service		2022		
Average waste dumped daily (based on information provided by MC)		Not Available		
EHS SOPs for waste handlers		Not Available		
Availability of PPEs for waste collectors/handlers		Yes	**No**	
Expected Life (Years)		5		
Land Ownership		Private		
Site Accessibility		Poor		
Surface Type		Flat	**Depressed**	
Approach Road Condition		Good / Fair	**Poor**	
Parking Shed		Yes	**No**	
Boundary Wall		Yes	**No**	
Gate		Yes	**No**	
Ramps		Yes	**No**	
Any Building at Site		Yes	**No**	
Weigh Bridge		Yes	**No**	
Earth Cover Arrangements		Yes	**No**	
Compaction Equipment		Yes	**No**	
Plantation Around Site		Yes	**No**	
Any illegal occupants or encroachments observed- if yes, type		No		



Remarks / Requirements

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

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

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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	**Moveable Asset Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**

Type of Vehicle / Machinery	**Pictures**
Tractor	

	Tractor No.1	**Tractor No.2**	**Tractor No.3**	**Tractor No.4**	**Tractor No.5**
Capacity	85 HP	55 HP	60 HP	46 HP	75 HP
Purpose	Front Blade Loader	Trolley	Trolley	Trolley	Trolley
Year of Manufacturing	2013	2014	2018	1999	2018
Model	MF385	FIAT480	MF260	MF240	MF375
Capital Cost					
Fuel Consumption (lit/month)	1677	913	595	970	588
Condition	Good	Good	Good	Fair	Good
Engine Capacity	85 HP	55 HP	60 HP	46 HP	75 HP
Maintenance Cost	Not Available	Not Available	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	Yes	Yes	Yes
Fitness Certificate	No	No	No	No	No
Registered	SAJ-13-14	No	SAJ-18-14	SAG-8365	SAJ-18-13

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*	*Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	**Moveable Asset Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**

Type of Vehicle / Machinery	**Pictures**
Tractor	

	Tractor No.6	**Tractor No.7**	**Tractor No.8**	**Tractor No.9**	**Tractor No.10**
Capacity	85 HP	46 HP	85 HP	46 HP	85 HP
Purpose	Front Blade Loader	Trolley	Trolley	Trolley	Front Blade Loader
Year of Manufacturing	2019	1997	2008	1999	2015
Model	MF385	MF240	MF385	MF240	MF385
Capital Cost	Not Available	Not Available	Not Available	Not Available	Not Available
Fuel Consumption (lit/month)	450	920	1009	Non-Operational	1602
Condition	Good	Fair	Good	Poor	Good
Engine Capacity	85 HP	46 HP	85 HP	46 HP	85 HP
Maintenance Cost	Not Available	Not Available	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	Yes	No	Yes
Fitness Certificate	No	No	No	No	No
Registered	No	SAG-4208	SAH-402	SAC-9381	SAJ-13

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*	*Sign & Date: 30 May 2023*

4. Building

A. Offices

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

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A14	Building Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Name		MC Office		Pictures
Location	Latitude	31.808554		
	Longitude	74.253049		
Address		Sheikhupura Road		
Year of Construction		2013		
Land Area (Acres)		0.4		
No. of Stories		2		
Condition		**Good**	Fair	poor
Purpose		MC Affairs		
No. of Staff		150		
No. of Rooms		23		
Conference/Meeting Room		**Yes**	No	
Store Room		**Yes**	No	
Study Room/Book Shelf		Yes	**No**	
Boundary Wall		**Yes**	No	
Heating & Cooling Arrangement		**Yes**	No	
Parking Lots		**Yes**	No	
Drinking Water Facilities		**Yes**	No	
Availability and quality of water (based on available water quality test reports)		Yes	**No**	
Washrooms / Sewerage System		**Yes**	No	
Separate Washroom for Ladies		Yes	**No**	
Prayers Area/room		**Yes**	No	
Furniture		**Yes**	No	
Electric Appliances (Fans Etc.)		**Yes**	No	
Machinery & Equipment		**Yes**	No	
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 gate		Yes	**No**	
Security Guard		**Yes**	No	
Park/lawn outdoor/indoor plantation		**Yes**	No	
Remarks / Requirements				

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A14	**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*
Data Checked By: Mr. M. Fiaz	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

B. Shops

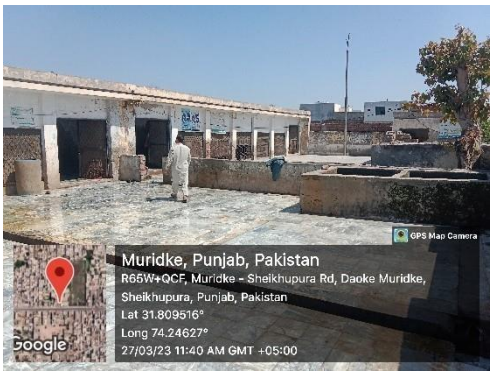
Sr #	Location	Condition	Total	Area sq_ft	Book Value (PKR Mil)
1	Octroi Post/Chung (Railway Station, Muridke)	Fair	1	136	3.0

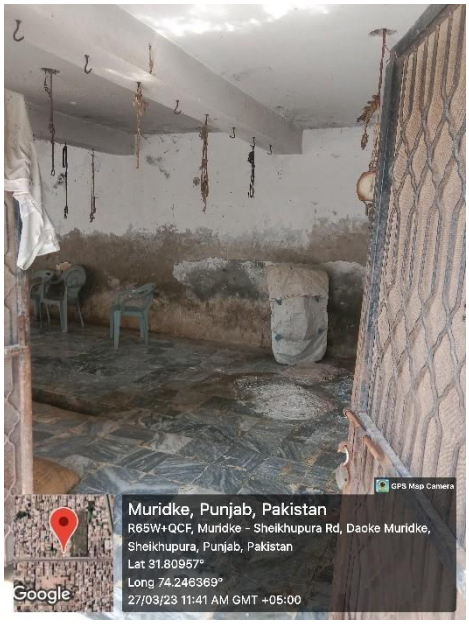
5. Public Places

A. Slaughterhouse

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

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A15	**Slaughterhouse Asset Condition Assessment**				**Asset Code: _____ Date: 24-04-2023**
Name		Slaughter House			**Pictures**
Location	**Latitude**	31.80957			
	Longitude	74.246369			
Address		Daoke, Muridke			
Year of Construction		1991			
Total Area (Acres)		0.25			
Ownership		MC			
Slaughter Capacity (Per Day)	**Larger Animals**	40-45			
	Smaller Animals	55-60			
Supervisor		**Yes**		No	
Doctor's Room		**Yes**		No	
Inhabitation Facility		Yes		**No**	
Slaughtering Hall		**Yes**		No	
Evisceration Hall		Yes		**No**	
Meat Cutting Room		Yes		**No**	
Blood Collection Arrangements		Yes		**No**	
Skin Storage Room		Yes		**No**	
Tools Disinfectant System		Yes		**No**	
Health and Hygiene SOPs		Yes		**No**	
Refrigeration / Storage 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	
Boundary Wall & Gate		**Yes**		No	
Approach Road Condition		**Good**	Fair	Poor	
Civil Structure Condition		Good	**Fair**	Poor	





Remarks / Requirements

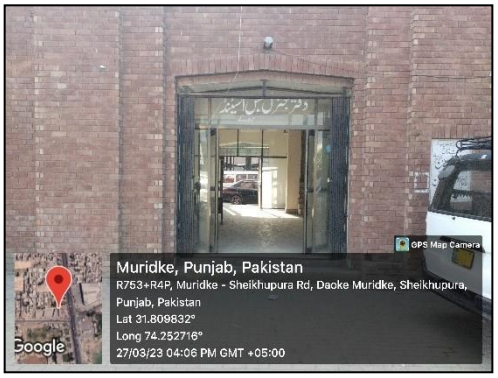
- No remarks

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*

B. Bus Stand

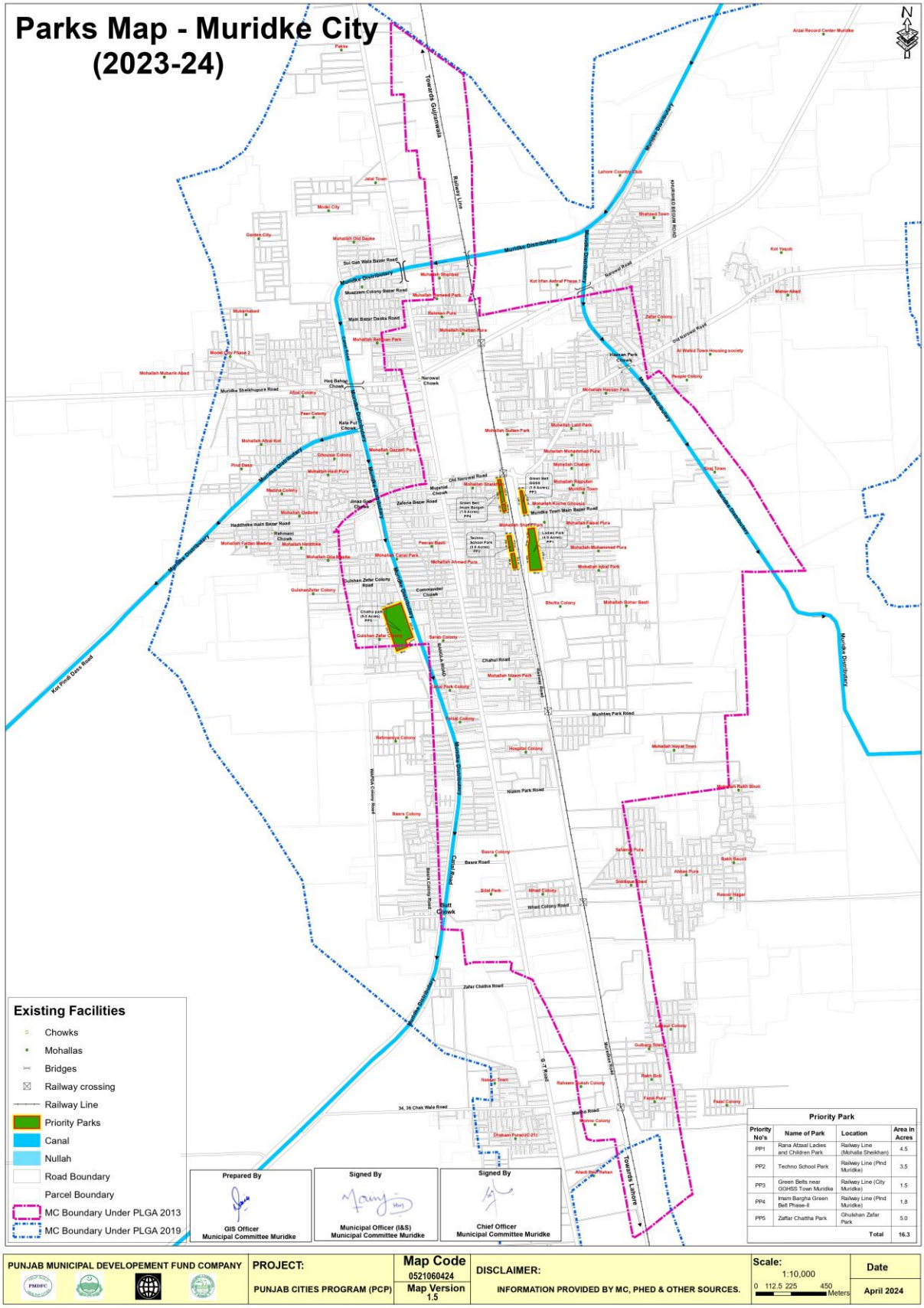
Sr #	Name	Age (Years)	Condition	Area (Acres)	Book Value (PKR Million)
1	Bus Stand	6	Fair	1.3	50

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A12	Bus Stand Asset Condition Assessment				Asset Code: _____ Date: 24-04-2023
Name		General Bus Stand			Pictures
Location	Latitude	31.809670			
	Longitude	74.252653			
Address		Daoke Muridke			
Year of Construction		2017			
Last Major Renovation		Not Available			
Area (Acres)		1.3			
Ownership		MC			
Class		A	B	**C**	D
Designed Capacity of Vehicles	Buses	Not Available			
	Coasters	Not Available			
	Wagons	Not Available			
Daily parking of vehicles (based on information provided by MC)	Buses	20-25			
	Coasters	-			
	Wagons	60-70			
	Rickshaws	10-15			
Distance from the urban area		Within City			
Security	At Entry	Yes	**No**		
	At Exit	Yes	**No**		
Gate	At Entry	**Yes**	No		
	At Exit	Yes	**No**		
Waiting Area	Men	**Yes**	No		
	Families	**Yes**	No		
Washroom	Male	**Yes**	No		
	Female	**Yes**	No		
Prayer Room	Male	**Yes**	No		
	Female	Yes	**No**		
Administration Office		Yes	**No**		
Parking Stand	Rickshaw	Yes	**No**		
	Cars	Yes	**No**		
Fuel Outlets		Yes	**No**		
Reception Desk		Yes	**No**		
Ticketing System		**Yes**	No		



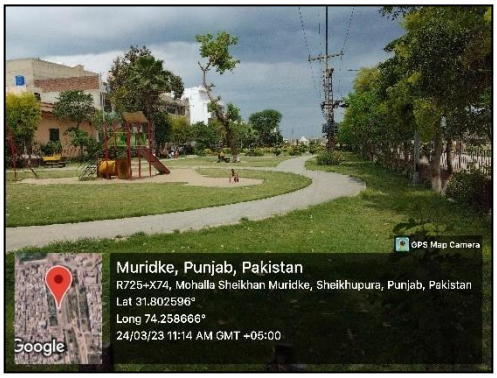
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A12	**Bus Stand Asset Condition Assessment**				**Asset Code: _____ Date: 24-04-2023**
Tuck Shop		**Yes**	No		
Workshop		Yes	**No**		
Ablution Area		**Yes**	No		
Pedestrian		Yes	**No**		
Green Spaces		Yes	**No**		
Water Drinking Arrangement		**Yes**	No		
Water Disposal Arrangement		**Yes**	No		
Boarding Shed		**Yes**	No		
Workshops		Yes	**No**		
Lighting		**Yes**	No		
Boundary Wall		**Yes**	No		
Flooring & Pavement	**Type**	Tuff Pavers			
	Condition	**Good**	Fair	Poor	
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*

C. Parks


Parks Map - Muridke City
(2023-24)
N
Existing Facilities
Chowks
Mohallas
Bridges
Railway crossing
Railway Line
Priority Parks
Canal
Nullah
Road Boundary
Parcel Boundary
MC Boundary Under PLGA 2013
MC Boundary Under PLGA 2019
Prepared By
GIS Officer
Municipal Committee Muridke
Signed By
Municipal Officer (I&S)
Municipal Committee Muridke
Signed By
Chief Officer
Municipal Committee Muridke
Priority Park
Priority No's | Name of Park | Location | Area in Acres
PP1 | Rana Afzaal Ladies and Children Park | Railway Line (Mohalla Sheikhan) | 4.5
PP2 | Techno School Park | Railway Line (Pind Muridke) | 3.5
PP3 | Green Bells near GGHSS Town Muridke | Railway Line (City Muridke) | 1.5
PP4 | Imam Bargha Green Belt Phase-II | Railway Line (Pind Muridke) | 1.8
PP5 | Zaffar Chattha Park | Ghulshan Zafar Park | 5.0
Total | 16.3
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0521060424
Map Version
1.5
DISCLAIMER:
INFORMATION PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:10,000
0 112.5 225 450
Meters
Date
April 2024

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

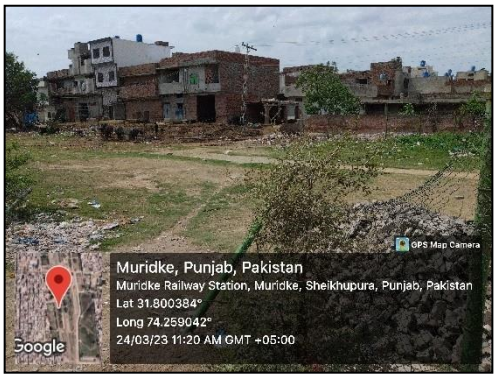
Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A10	Park Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Name		Imam Bargah Park		**Pictures**
Location	**Latitude**	31.802596		
	Longitude	74.258666		
Area In Acres		1.5		
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)		MC		
Turfing Condition		Good	**Fair**	Poor
Approach Road		**Good**	Fair	Poor
Parking Lots		Yes	**No**	
Canteen Availability		Yes	**No**	
Average number of daily visitors (based on the assessment of MC staff)		Not Available		
Any illegal occupants or encroachments observed-if yes, type		Not Available		
Security system		Yes	**No**	
Watering & Irrigation				
Tube Well		Yes	**No**	
Water Supply from Municipal System		**Yes**	No	
Water Tank		Yes	**No**	
Pumping Unit		**Yes**	No	
Distribution Pipe Lines		**Yes**	No	
Valves		**Yes**	No	
Sprinkler System		Yes	**No**	
Ground water storage reservoirs/ponds		Yes	**No**	
Landscaping & Plantation				
Grass Beds		**Yes**	No	

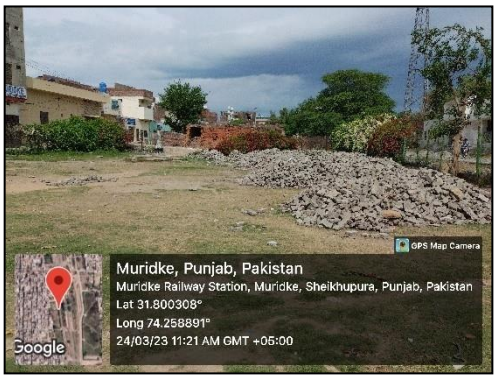


Flower Beds		Yes	**No**	
Hedges		Yes	**No**	
Plants		**Yes**	No	
Number of trees and species (based on readily available information at MC)		Not Available		
Lights				
Total Number		9		
Poles		**Yes**	No	
Cables		**Yes**	No	
Brackets And Lights		**Yes**	No	
Bulbs And Tubes		Yes	**No**	
Control Units		**Yes**	No	
Structures				
No. of Toilets	Gents	-		
	Ladies	-		
Condition of Toilets	Gents	-		
	Ladies	-		
Buildings		Yes	**No**	
Fountains & Water Fall Structure		Yes	**No**	
Walkways		**Yes**	No	
Jogging tracks		Yes	**No**	
Ramps at entry gates for wheel chairs		Yes	**No**	
Bridges & Culverts		Yes	**No**	
Play Area		**Yes**	No	
Gazebos		Yes	**No**	
Benches/ sitting arrangements		**Yes**	No	
Boundary Wall & Gate		**Yes**	No	
Toilets		Yes	**No**	
Lakes & Brooks		Yes	**No**	
Mechanical Equipment				
Pumping Units		**Yes**	No	
Swings		**Yes**	No	
Children Games		**Yes**	No	
Fixtures		**Yes**	No	
Benches		**Yes**	No	
Sanitation & Water Supply				
Litter Bins		Yes	**No**	
Condition of SWM		**Good**	Fair	Poor
Toilet Fixtures		Yes	**No**	
Sewerage System		Yes	**No**	
Vegetation Cuttings & Disposal		**Yes**	No	
Drinking water availability and quality (based on availability of water quality test reports)		Not Available		
Water Pipes		**Yes**	No	
HR				
Security Guards		**Yes**	No	
Landscape Experts		Yes	**No**	
Mali / Beldaar (Number)		**Yes**	No	
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*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A10	**Park Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Name		Techno Park		**Pictures**
Location	**Latitude**	31.800080		
	Longitude	74.259343		
Area In Acres		1.5		
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)		MC		
Turfing Condition		Good	Fair	**Poor**
Approach Road		Good	**Fair**	Poor
Parking Lots		Yes		**No**
Canteen Availability		Yes		**No**
Average number of daily visitors (based on the assessment of MC staff)		Not Available		
Any illegal occupants or encroachments observed-if yes, type		Not Available		
Security system		Yes		**No**
Watering & Irrigation				
Tube Well		Yes		**No**
Water Supply from Municipal System		Yes		**No**
Water Tank		Yes		**No**
Pumping Unit		Yes		**No**
Distribution Pipe Lines		Yes		**No**
Valves		Yes		**No**
Sprinkler System		Yes		**No**
Ground water storage reservoirs/ponds		Yes		**No**
Landscaping & Plantation				
Grass Beds		Yes		**No**
Flower Beds		Yes		**No**
Hedges		Yes		**No**
Plants		Yes		**No**





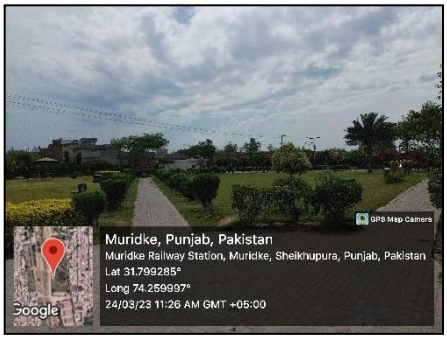
Number of trees and species (based on readily available information at MC)		Not Available	
Lights			
Total Number		-	
Poles		Yes	**No**
Cables		Yes	**No**
Brackets And Lights		Yes	**No**
Bulbs And Tubes		Yes	**No**
Control Units		Yes	**No**
Structures			
No. of Toilets	Gents	0	
	Ladies	0	
Condition of Toilets	Gents	-	
	Ladies	-	
Buildings		Yes	**No**
Fountains & Water Fall Structure		Yes	**No**
Walkways		Yes	**No**
Jogging tracks		Yes	**No**
Ramps at entry gates for wheel chairs		Yes	**No**
Bridges & Culverts		Yes	**No**
Play Area		Yes	**No**
Gazebos		Yes	**No**
Benches/ sitting arrangements		Yes	**No**
Boundary Wall & Gate		Yes	**No**
Toilets		Yes	**No**
Lakes & Brooks		Yes	**No**
Mechanical Equipment			
Pumping Units		Yes	**No**
Swings		Yes	**No**
Children Games		Yes	**No**
Fixtures		Yes	**No**
Benches		Yes	**No**
Sanitation & Water Supply			
Litter Bins		Yes	**No**
Condition of SWM		Yes	**No**
Toilet Fixtures		Yes	**No**
Sewerage System		Yes	**No**
Vegetation Cuttings & Disposal		Yes	**No**
Drinking water availability and quality (based on availability of water quality test reports)		Not Available	
Water Pipes		Yes	**No**
HR			
Security Guards		Yes	**No**
Landscape Experts		Yes	**No**
Mali / Beldaar (Number)		Yes	**No**

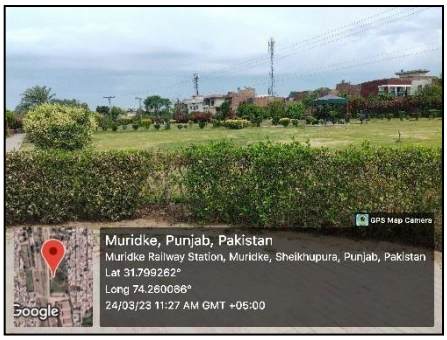
Remarks / Requirements
• No remarks

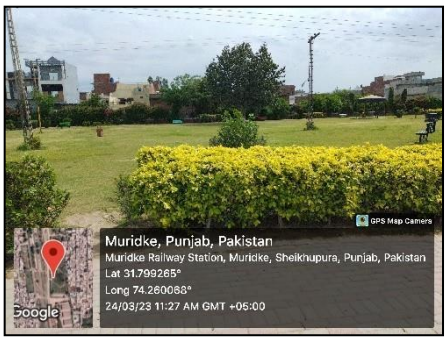
Data Collected By: Mr. Jawad	*Designation: Team Member*	 *Sign & Date: 30-May-2023*

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

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A10	**Park Asset Condition Assessment**			**Asset Code: _____ Date: 24-04-2023**
Name		Ladies Children Park		**Pictures**
Location	**Latitude**	31.799282		
	Longitude	74.260068		
Area In Acres		4.75		
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)		MC		
Turfing Condition		Good	**Fair**	Poor
Approach Road		Good	**Fair**	Poor
Parking Lots		Yes	**No**	
Canteen Availability		Abandoned		
Average number of daily visitors (based on the assessment of MC staff)		Not Available		
Any illegal occupants or encroachments observed-if yes, type		Not Available		
Security system		**Yes**	No	
Watering & Irrigation				
Tube Well			**Yes**	No
Water Supply from Municipal System			**Yes**	No
Water Tank			Yes	**No**
Pumping Unit			**Yes**	No
Distribution Pipe Lines			**Yes**	No
Valves			**Yes**	No
Sprinkler System			**Yes**	No
Ground water storage reservoirs/ponds			Yes	**No**
Landscaping & Plantation				
Grass Beds			**Yes**	No
Flower Beds			Yes	**No**
Hedges			**Yes**	No
Plants			**Yes**	No
Number of trees and species (based on readily available information at MC)		Not Available		
Lights				
Total Number		10		
Poles			**Yes**	No
Cables			**Yes**	No
Brackets And Lights			**Yes**	No
Bulbs And Tubes			**Yes**	No
Control Units			**Yes**	No
Structures				
No. of Toilets	Gents	0		







	Ladies	4		
Condition of Toilets	Gents	Fair		
	Ladies	Fair		
Buildings		**Yes**	No	
Fountains & Water Fall Structure		Yes	**No**	
Walkways		**Yes**	No	
Jogging tracks		**Yes**	No	
Ramps at entry gates for wheel chairs		Yes	**No**	
Bridges & Culverts		Yes	**No**	
Play Area		**Yes**	No	
Gazebos		**Yes**	No	
Benches/ sitting arrangements		**Yes**	No	
Boundary Wall & Gate		**Yes**	No	
Toilets		**Yes**	No	
Lakes & Brooks		Yes	**No**	
Mechanical Equipment				
Pumping Units		**Yes**	No	
Swings		**Yes**	No	
Children Games		**Yes**	No	
Fixtures		**Yes**	No	
Benches		**Yes**	No	
Sanitation & Water Supply				
Litter Bins		**Yes**	No	
Condition of SWM		**Good**	Fair	poor
Toilet Fixtures		**Yes**	No	
Sewerage System		**Yes**	No	
Vegetation Cuttings & Disposal		**Yes**	No	
Drinking water availability and quality (based on availability of water quality test reports)		Not Available		
Water Pipes		**Yes**	No	
HR				
Security Guards		**Yes**	No	
Landscape Experts		Yes	**No**	
Mali / Beldaar (Number)		**Yes**	No	
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*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Muridke				
Form: IDAMP-A10	Park Asset Condition Assessment			Asset Code: _____ Date: 24-04-2023
Name		Boranwala (Pind muridke)		Pictures
Location	Latitude	31.802295		
	Longitude	74.259704		
Area In Acres		1		
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)		MC		
Turfing Condition		Good	Fair	**Poor**
Approach Road		Good	**Fair**	Poor
Parking Lots		Yes	**No**	
Canteen Availability		Yes	**No**	
Average number of daily visitors (based on the assessment of MC staff)		Not Available		
Any illegal occupants or encroachments observed-if yes, type		Not Available		
Security system		Yes	**No**	
Watering & Irrigation				
Tube Well		Yes	**No**	
Water Supply from Municipal System		Yes	**No**	
Water Tank		Yes	**No**	
Pumping Unit		**Yes**	No	
Distribution Pipe Lines		Yes	**No**	
Valves		**Yes**	No	
Sprinkler System		Yes	**No**	
Ground water storage reservoirs/ponds		Yes	**No**	
Landscaping & Plantation				
Grass Beds		Yes	**No**	
Flower Beds		Yes	**No**	
Hedges		Yes	**No**	
Plants		Yes	**No**	
Number of trees and species (based on readily available information at MC)		Not Available		
Lights				
Total Number		0		
Poles		Yes	**No**	
Cables		Yes	**No**	
Brackets And Lights		Yes	**No**	
Bulbs And Tubes		Yes	**No**	
Control Units		Yes	**No**	
Structures				
No. of Toilets	Gents	0		

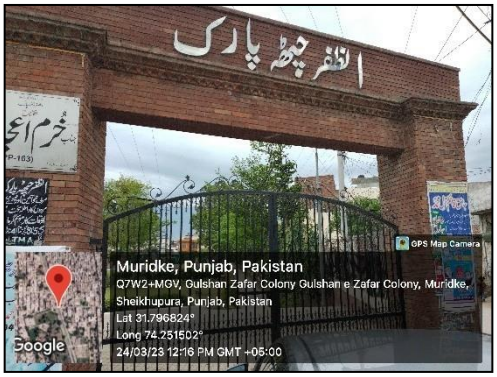
	Ladies	0	
Condition of Toilets	Gents	-	
	Ladies	-	
Buildings		Yes	**No**
Fountains & Water Fall Structure		Yes	**No**
Walkways		Yes	**No**
Jogging tracks		Yes	**No**
Ramps at entry gates for wheel chairs		Yes	**No**
Bridges & Culverts		Yes	**No**
Play Area		**Yes**	No
Gazebos		Yes	**No**
Benches/ sitting arrangements		Yes	**No**
Boundary Wall & Gate		**Yes**	No
Toilets		Yes	**No**
Lakes & Brooks		Yes	**No**
Mechanical Equipment			
Pumping Units		**Yes**	No
Swings		**Yes**	No
Children Games		Yes	**No**
Fixtures		Yes	**No**
Benches		**Yes**	No
Sanitation & Water Supply			
Litter Bins		Yes	**No**
Condition of SWM			
Toilet Fixtures		Yes	**No**
Sewerage System		Yes	**No**
Vegetation Cuttings & Disposal		Yes	**No**
Drinking water availability and quality (based on availability of water quality test reports)		Not Available	
Water Pipes		Yes	**No**
HR			
Security Guards		Yes	**No**
Landscape Experts		Yes	**No**
Mali / Beldaar (Number)		Yes	**No**

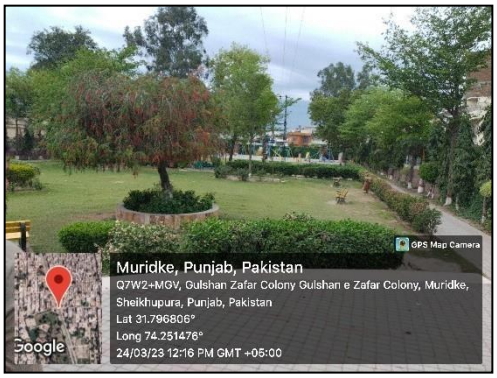
Remarks / Requirements

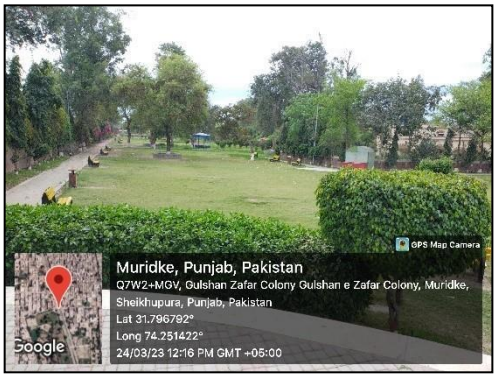
- No remarks

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*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Muridke					
Form: IDAMP-A10	**Park Asset Condition Assessment**				**Asset Code: _____ Date: 24-04-2023**
Name		Chatha Park			**Pictures**
Location	**Latitude**	31.795978			
	Longitude	74.251396			
Area In Acres		9			
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)		MC			
Turfing Condition		Good	**Fair**	Poor	
Approach Road		Good	**Fair**	Poor	
Parking Lots		Yes	**No**		
Canteen Availability		Abandoned			
Average number of daily visitors (based on the assessment of MC staff)		Not Available			
Any illegal occupants or encroachments observed-if yes, type		Not Available			
Security system		**Yes**	No		
Watering & Irrigation					
Tube Well			**Yes**	No	
Water Supply from Municipal System			**Yes**	No	
Water Tank			Yes	**No**	
Pumping Unit			**Yes**	No	
Distribution Pipe Lines			**Yes**	No	
Valves			**Yes**	No	
Sprinkler System			**Yes**	No	
Ground water storage reservoirs/ponds			**Yes**	No	
Landscaping & Plantation					
Grass Beds			**Yes**	No	
Flower Beds			**Yes**	No	
Hedges			**Yes**	No	
Plants			**Yes**	No	
Number of trees and species (based on readily available information at MC)		Not Available			
Lights					
Total Number		8			
Poles			**Yes**	No	
Cables			**Yes**	No	
Brackets And Lights			**Yes**	No	
Bulbs And Tubes			**Yes**	No	
Control Units			**Yes**	No	
Structures					
No. of Toilets	Gents	2			



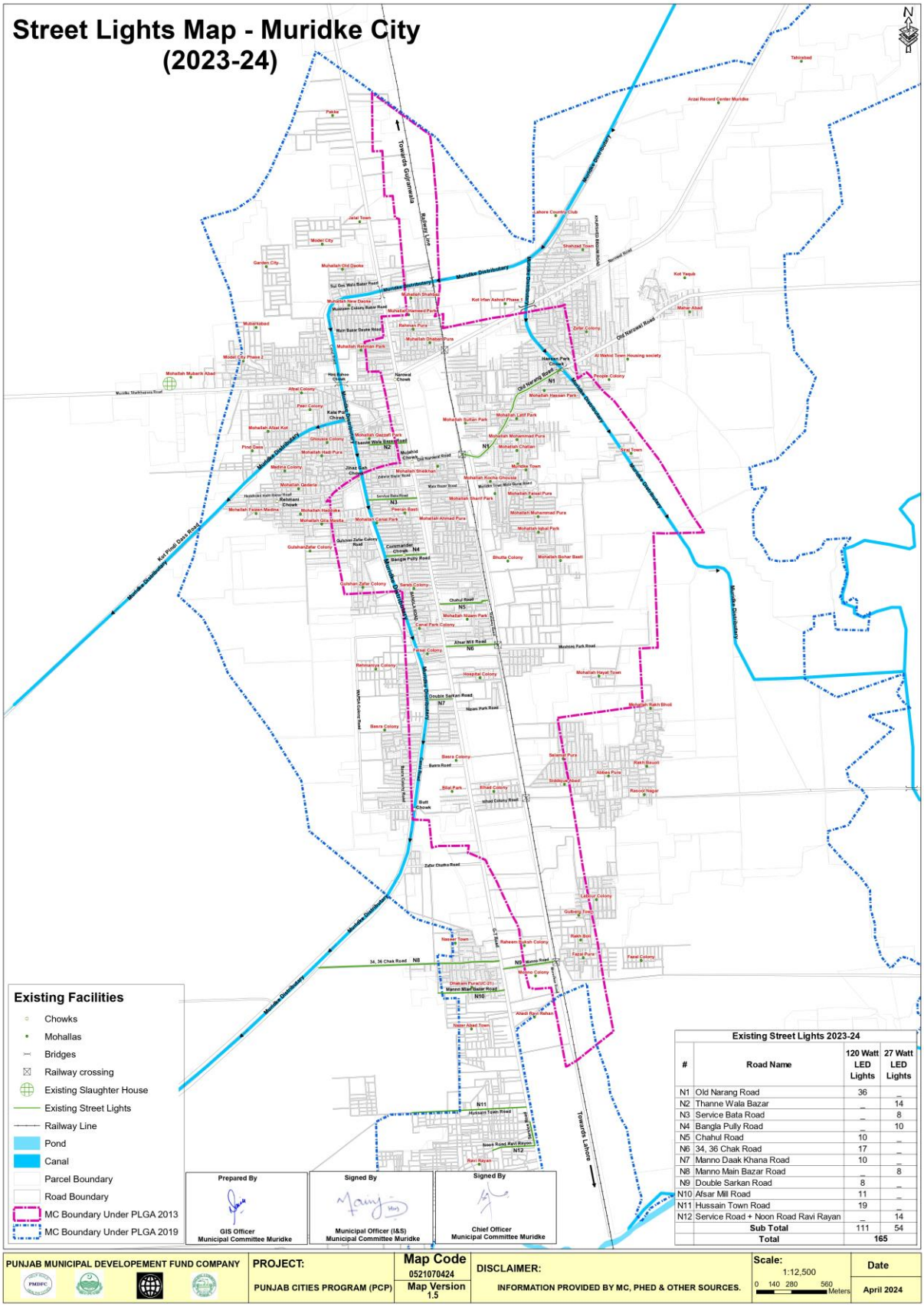




	Ladies	2		
Condition of Toilets	Gents	Good		
	Ladies	Good		
Buildings		**Yes**	No	
Fountains & Water Fall Structure		Yes	**No**	
Walkways		**Yes**	No	
Jogging tracks		**Yes**	No	
Ramps at entry gates for wheel chairs		Yes	**No**	
Bridges & Culverts		Yes	**No**	
Play Area		**Yes**	No	
Gazebos		**Yes**	No	
Benches/ sitting arrangements		**Yes**	No	
Boundary Wall & Gate		**Yes**	No	
Toilets		**Yes**	No	
Lakes & Brooks		Yes	No	
Mechanical Equipment				
Pumping Units		**Yes**	No	
Swings		**Yes**	No	
Children Games		**Yes**	No	
Fixtures		**Yes**	No	
Benches		**Yes**	No	
Sanitation & Water Supply				
Litter Bins		**Yes**	No	
Condition of SWM		Good		
Toilet Fixtures		**Yes**	No	
Sewerage System		**Yes**	No	
Vegetation Cuttings & Disposal		**Yes**	No	
Drinking water availability and quality (based on availability of water quality test reports)		Not Available		
Water Pipes		**Yes**	No	
HR				
Security Guards		**Yes**	No	
Landscape Experts		Yes	**No**	
Mali / Beldaar (Number)		**Yes**	No	
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*

6. Streetlights



Existing Street Lights 2023-24

#	Road Name	120 Watt LED Lights	27 Watt LED Lights
N1	Old Narang Road	36	_
N2	Thanne Wala Bazar	_	14
N3	Service Bata Road	_	8
N4	Bangla Pully Road	_	10
N5	Chahul Road	10	_
N6	34, 36 Chak Road	17	_
N7	Manno Daak Khana Road	10	_
N8	Manno Main Bazar Road	_	8
N9	Double Sarkan Road	8	_
N10	Afsar Mill Road	11	_
N11	Hussain Town Road	19	_
N12	Service Road + Noon Road Ravi Rayan	_	14
	Sub Total	111	54
	Total	165	

	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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A9	**Street Lights Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**
Pictures		



Area	Type of Luminaries	Total	Operational Status	Poles Type (WAPDA Pole / MC Pole)
	Led (27w/120w)			
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 narang road.	41	41	Not Available	Not Available
Lari Ada	12	12	Not Available	Not Available
Double Road	8	8	Not Available	Not Available

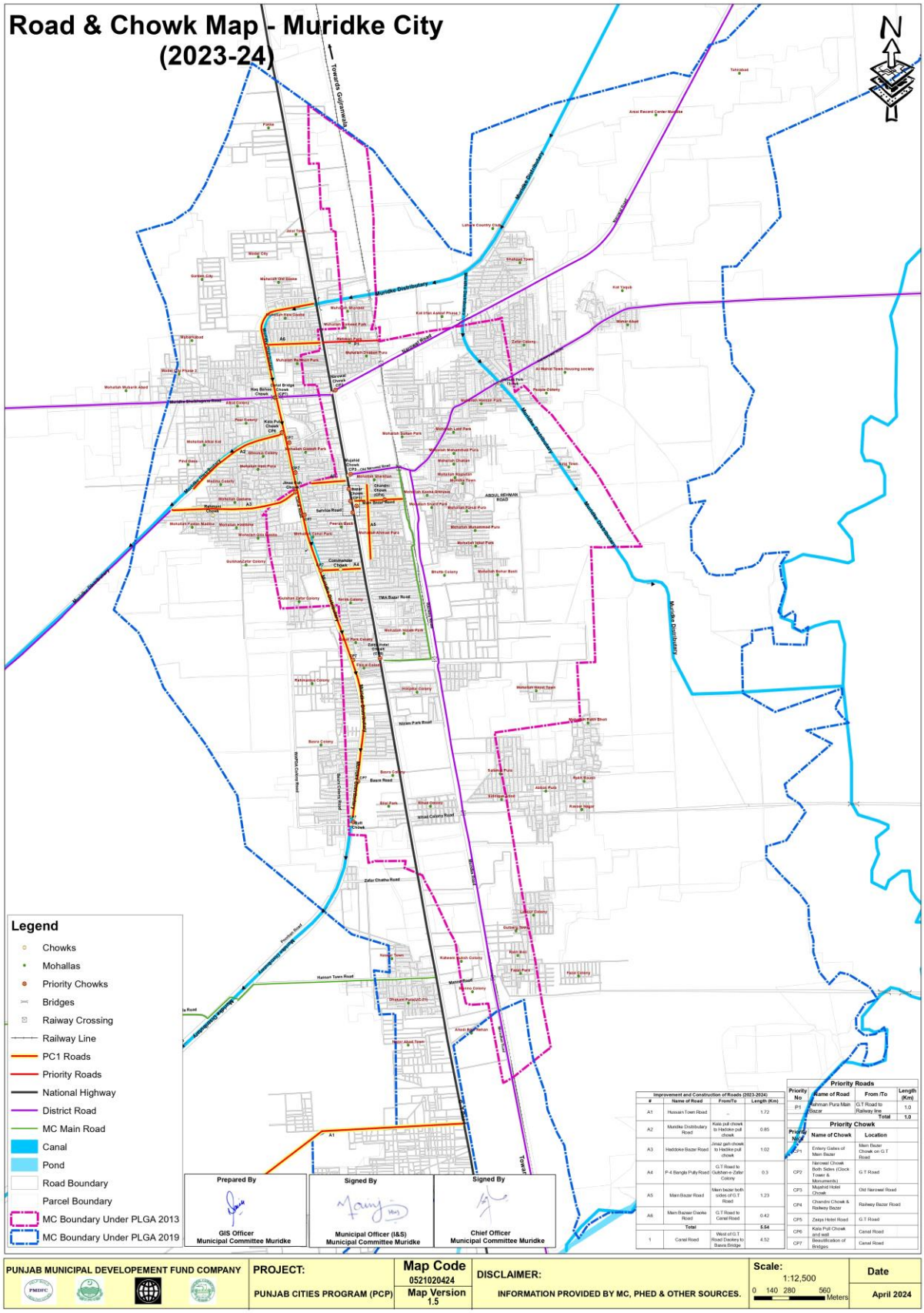
34-36 Bazar	17	17	Not Available	Not Available
Manu Main Bazar	8	8	Not Available	Not Available
Raheem Baksh Colony	10	10	Not Available	Not Available
Chahal Road	9	9	Not Available	Not Available
Chatha Park	26	26	Not Available	Not Available
Imam Bargha Park	11	11	Not Available	Not Available

Remarks / Requirements		
• Out of the 262 lights in the MC, only 141 lights were found to be operational.		
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*

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 Fixture**	**Quantity**		**Daily Operational Hours**
		MC	**Private**	
LED	27	14	-	12.0
LED	120	93	34	12.0
Total		141		

7. Roads


Road & Chowk Map - Muridke City
(2023-24)
N
Towards Gujranwala
Muridke Distributary
Narowal Road
Legend
Chowks
Mohallas
Priority Chowks
Bridges
Raiway Crossing
Railway Line
PC1 Roads
Priority Roads
National Highway
District Road
MC Main Road
Canal
Pond
Road Boundary
Parcel Boundary
MC Boundary Under PLGA 2013
MC Boundary Under PLGA 2019
Prepared By
GIS Officer
Municipal Committee Muridke
Signed By
Municipal Officer (I&S)
Municipal Committee Muridke
Signed By
Chief Officer
Municipal Committee Muridke
Improvement and Construction of Roads (2023-2024)
| Name of Road | From/To | Length (Km)
A1 | Hussain Town Road | .. | 1.72
A2 | Muridke Distributary Road | Kala pull chowk to Haddoke pull chowk | 0.85
A3 | Haddoke Bazar Road | Jinaz garh chowk to Haddoke pull chowk | 1.02
A4 | P-4 Bangla Pully Road | G.T Road to Gulshan-e-Zafar Colony | 0.3
A5 | Main Bazar Road | Main bazar both sides of G.T Road | 1.23
A6 | Main Bazaar Daska Road | G.T Road to Canal Road | 0.42
Total | | | 5.54
1 | Canal Road | West of G.T. Road Daskey to Bawa Bridge | 4.52
Priority Roads
Priority No | Name of Road | From /To | Length (Km)
P1 | Rahman Pura Main Bazar | G.T Road to Railway line | 1.0
Total | | | 1.0
Priority Chowk
Priority No | Name of Chowk | Location
CP1 | Entery Gates of Main Bazar | Main Bazar Chowk on G.T Road
CP2 | Narowal Chowk Both Sides (Clock Tower & Monuments) | G.T Road
CP3 | Mujahid Hotel Chowk | Old Narowal Road
CP4 | Chandni Chowk & Railway Bazar | Railway Bazar Road
CP5 | Zaqia Hotel Road | G.T Road
CP6 | Kala Pull Chowk and wall Beautification of Bridges | Canal Road
CP7 | | Canal Road
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0521020424
Map Version
1.5
DISCLAIMER:
INFORMATION PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:12,500
0 140 280 560
Meters
Date
April 2024

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 Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A8	Road Asset Condition Assessment	Asset Code: _____ 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	Not Availabl e	5	Fair
2	Shahzad town road (Both sides of canal)	Asphalt	44		2	Fair
3	Kala Pull to City boundary	Asphalt	40		2	Fair
4	Sui Gas Road	Asphalt	25		0.50	Fair
5	Main rail bazar	TST	20		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 Development and Asset Management Plan (IDAMP)						
Municipal Committee Muridke						
Form: IDAMP-A8	**Road Asset Condition Assessment**					**Asset Code: _____ Date: 24-04-2023**
9	Bismillah Service station street	TST	15		0.63	Poor
10	Masjid Muhajiran road	TST	20		0.50	Poor
11	Chakiwala Bazar Daoky	Asphalt	-		0.23	poor
12	Mian Bazar Daoky	Asphalt	-		0.30	poor

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*

8. Office Vehicles

Sr #	Name	Registration Number	Age (Years)	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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Muridke		
Form: IDAMP-A16	**Moveable Asset Asset Condition Assessment**	**Asset Code: _____ Date: 24-04-2023**
Type of Vehicle / Machinery	**Pictures**	
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 / 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*

9. Shop

Integrated Development and Asset Management Plan (IDAMP)														
Municipal Committee Muridke														
Form: IDAMP-A17					Shop Asset Condition Assessment								Asset Code: _____ Date: 24-04-2023	
SR.	**Shop Code**	**Property Address**	**Latitude**	**Longitude**	**Area (Sqft)**	**No of Stories**	**Property Location Status**	**Ownership Status**	**Encroachment Status**	**Litigation Exist**	**Current Status**	**Condition**	**Tenant Name**	**Business**
1	07001	Railway Station, Muridke	31.80182084	74.25837633	136	2	Commercial	Owned/ Managed	No	No	Rented/Leased	Good	Shahid Malik	Rental Purpose
Average Score		**1**			**2**			**3**			**4**		5	
Asset Condition		**Excellent**			**Good**			**Fair**			**Poor**		Failing	
Category		**A**			**B**			**C**			**D**		E	
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*			

Annexure B. Projects Coding Scheme:

Region Name	Region Code	MC	MC Code	Property Types	Property Type Code	Sub Property Types	Sub Property Type Code	Unique Codes
Northern Punjab	**01**	**Muridke**	**05**	Water Supply System	**01**	Tube wells	**01**	**01-05-01-01-XX**
						Water Supply Network (ft)	**02**	**01-05-01-02-XX**
						OHR	**03**	**01-05-01-03-XX**
						Filtration Plants	**04**	**01-05-01-04-XX**
						Vehicles	**05**	**01-05-01-05-XX**
						GST	**06**	**01-05-01-06-XX**
				Sewerage System	**02**	Sewerage Network (ft)	**01**	**01-05-02-01-XX**
						Disposal Stations	**02**	**01-05-02-02-XX**
						Vehicles	**03**	**01-05-02-03-XX**
				Solid Waste Management System	**03**	Dumping site	**01**	**01-05-03-01-XX**
						Vehicles	**02**	**01-05-03-02-XX**
						Parking Shed	**03**	**01-05-03-03-XX**
				Roads and Streets	**04**	Roads	**01**	**01-05-04-01-XX**
						Street	**02**	**01-05-04-02-XX**
						Street light	**03**	**01-05-04-03-XX**
				Public Places	**05**	Parks	**01**	**01-05-05-01-XX**
						Playgrounds	**02**	**01-05-05-02-XX**
						Open Spaces / Plots	**03**	**01-05-05-03-XX**
						Bus Stand	**04**	**01-05-05-04-XX**
						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 Name	Region Code	MC	MC Code	Property Types	Property Type Code	Sub Property Types	Sub Property Type Code	Unique Codes
						Shops	**09**	**01-05-05-09-XX**
				Others	**06**	Office buildings	**01**	**01-05-06-01-XX**
						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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Significant contribution	**10**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major immediate consequences	**10**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Greater than 20%	**7.5**
				5	Between 10% to 20%		
				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 project from NGO's, community groups, network, media or business organizations?			1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quali ty of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the lo cal environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	Direct revenue is not sufficient to meet O&M costs	**2.5**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Additional investment in the area and increased wealth for citizens	**5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased 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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	Standard	**3**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Significant contribution	**10**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major immediate consequences	**10**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Greater than 20%	**7.5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2			5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		

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

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
5.1	Has land been acquired for the project (If required)?	30	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	Standard	**3**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Significant contribution	**10**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major immediate consequences	**10**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Greater than 20%	**7.5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2			5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		

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

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

Project Screening and Phasing Criteria:
Project ID: 01-05-02-01-01
Project Description: 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Significant contribution	**10**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major immediate consequences	**10**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Greater than 20%	**7.5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3			2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition from residents in the immediate vicinity of the new facility?			2.5	Majority support		
				1.5	Minority support		
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quality of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	No direct revenue	**0**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Additional investment in the area and increased wealth for citizens	**5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		

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

Project Screening and Phasing Criteria:
Project ID: 01-05-04-01-01
Project Description: Improvement & Rehabilitation of Roads Project in Muridke city

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
1. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major immediate consequences	**10**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Between 10% to 20%	**5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media, or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				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. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g., Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quality of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	No direct revenue	**0**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Little or no long-term economic development benefits	**2.5**
				2.5	Little or no long-term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3			5	1	Difficult	Standard	**2.5**
				2.5	Standard		

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		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	standard	**3**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed f or construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e., feasibil ity studies		
				5	No outside expertise needed		
Total Achieved Score							**74**

Project Screening and Phasing Criteria:
Project ID: 01-05-05-06-01
Project Description: Rehabilitation of slaughter house

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

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g., Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Neutral	**5**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	Direct revenue is not sufficient to meet O&M costs	**2.5**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Little or no long-term economic development benefits	**2.5**
				2.5	Little or no long-term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Standard	**2.5**
				2.5	Standard		
				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 respect of technical design?			3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e., feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**61.5**

Project Screening and Phasing Criteria:
Project ID: 01-05-05-01-01
Project Description: Rehabilitation / Improvement of Park

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

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g., Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quality of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	No direct revenue	**0**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Little or no long-term economic development benefits	**2.5**
				2.5	Little or no long-term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Standard	**2.5**
				2.5	Standard		
				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 respect of technical design?			3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e., feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**74**

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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Minor consequences	**2.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
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%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quality of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
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 revenue?			2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
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 Government?			2.5	Standard		
				5	Easy		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	Easy	**5**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Minor consequences	**2.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
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 project.			5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local environment	Positive effects on the quality of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local environment		
4. Socio-Economic Impact							
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 revenue?			2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	Are there indirect economic ben efits from this project in the long term, e.g. employment creation, investment generation, increase in land/property prices, reduction in citizens' expenditures, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
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 Government?			2.5	Standard		
				5	Easy		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	Easy	**5**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O&M	Outside expertise needed for construction phase only Outside expertise needed for construction phase only	**1**
				1	Outside expertise needed for construction phase only		
				3	Outside expertise needed for preparation phase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**79.5**

Project Screening and Phasing Criteria:
Project ID: 01-05-01-01-01
Project Description: 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							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Minor consequences	**2.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Less than 10%	**1**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3			2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition from residents in the immediate vicinity of the new facility?			2.5	Majority support		
				1.5	Minority support		
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of t he local environment	Positive effects on the qual ity of the local environmen t	**10**
				5	Neutral		
				10	Positive effects on the quality o f the local environment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	Revenue exceeds O&M costs	**7.5**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	the external sources of funding have been secured?						
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
5.4	Ease of implementation of project in respect of technical design?		5	1	Difficult	Easy	**5**
				3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for c onstruction, O&M	Outside expertise needed f or construction phase only	**1**
				1	Outside expertise needed for c onstruction phase only		
				3	Outside expertise needed for p reparation phase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Minor consequences	**2.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Less than 10%	**1**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local envir onment	Positive effects on the quality of t he local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local en vironment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	Revenue exceeds O&M costs	**7.5**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
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 respect of technical design?			3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O &M	Outside expertise needed for con struction phase only	**1**
				1	Outside expertise needed for construction p hase only		
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies		
				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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major future consequences	**7.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Between 10% to 20%	**5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local envir onment	Positive effects on the quality of t he local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local en vironment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	No direct revenue	**0**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
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 respect of technical design?			3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O &M	Outside expertise needed for con struction phase only	**1**
				1	Outside expertise needed for construction p hase only		
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved 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. Project Purpose & Service Delivery Improvement							
1.1	Does the project fill a gap in a wider system of service delivery?	**30**	10	2.5	Minor contribution	Major contribution	**7.5**
				7.5	Major contribution		
				10	Significant contribution		
1.2	Whether the project will contribute to Sectoral Plan / City Master Plan?		10	0	No contribution.	Major contribution to key development goal.	**10**
				2.5	Indirect contribution.		
				7.5	Minor direct contribution		
				10	Major contribution to key development goal.		
1.3	Whether the deference/ delay of the project is going to affect citizens' health, safety, property, prosperity etc.?		10	0	No consequences	Major future consequences	**7.5**
				2.5	Minor consequences		
				7.5	Major future consequences		
				10	Major immediate consequences		
2. Public Response							
2.1	Population served by the project.	**15**	7.5	1	Less than 10%	Between 10% to 20%	**5**
				5	Between 10% to 20%		
				7.5	Greater than 20%		
2.2	Is there support or opposition for the project from NGO's, community groups, network, media or business organizations?		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		
				2.5	Minority support		
2.3	Is there support or opposition from residents in the immediate vicinity of the new facility?		2.5	0	Majority opposition	Majority support	**2.5**
				0.5	Minority opposition		
				2.5	Majority support		
				1.5	Minority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
3. Environmental Impact							
3.1	The impact of the proposed project on the quality of local environment (e.g. Air quality, Water pollution, Waste reduction, etc.	**10**	10	0	Negative effects on quality of the local envir onment	Positive effects on the quality of t he local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the local en vironment		
4. Socio-Economic Impact							
4.1	Will the project bring in direct revenue?	**15**	7.5	0	No direct revenue	No direct revenue	**0**
				2.5	Direct revenue is not sufficient to meet O&M costs		
				5	Revenue meets O&M costs		
				7.5	Revenue exceeds O&M costs		
4.2	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, etc.?		7.5	0	Negative impact on the local economy	Significant competitive advantage to industry and boost to the local economy	**7.5**
				2.5	Little or no long term economic development benefits		
				5	Additional investment in the area and increased wealth for citizens		
				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 required)?	**30**	10	10	Yes	Yes	**10**
				0	No		
5.2	Has funding been secured/allocated within the Local Government budget or whether the external sources of funding have been secured?		5	5	Yes	Yes	**5**
				0	No		
5.3	Will the project get approval from higher levels of Government?		5	1	Difficult	Easy	**5**
				2.5	Standard		
				5	Easy		
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 respect of technical design?			3	Standard		
				5	Easy		
5.5	Is there a capable system in place to implement and operate this project or is external support needed?		5	0	Outside expertise needed for construction, O &M	Outside expertise needed for con struction phase only	**1**
				1	Outside expertise needed for construction p hase only		
				3	Outside expertise needed for preparation ph ase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**81**

Annexure D. Environmental and Social Considerations in IDAMP[3]

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.

<table>
<tr><th>Sr. #</th><th>Act</th><th>Description</th><th>Applicability to sub-project</th></tr>
<tr><td></td><td></td><td></td><td>The sector wise screening of MCs subprojects as per Punjab Environment protection review of IEE/EIA regulations 2000 are given below in Table.
<table>
<tr><th>Schedule</th><th>Sector</th><th>Clause</th></tr>
<tr><td rowspan="4">Schedule I</td><td>Stormwater Drainage</td><td>F. Water management, dams, irrigation and flood protection
1. Small Dams and reservoirs
2. Irrigation and drainage projects</td></tr>
<tr><td>Water supply</td><td>G. Water Supply and Treatment
Water supply schemes and treatment plants with total cost less than Rs. 50 million</td></tr>
<tr><td>Parks</td><td>I. Urban development and tourism
5. Urban development projects</td></tr>
<tr><td>Waste</td><td>H. Waste disposal
Non-hazardous scrap yard / warehouse</td></tr>
<tr><td>Schedule II</td><td>Water supply, Sewerage System and treatment</td><td>F. Water supply, Sewerage System and treatment
Water supply schemes and treatment plants (excluding the Reverse</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sr. #</th><th>Act</th><th>Description</th><th colspan="3">Applicability to sub-project</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>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</td></tr>
<tr><td></td><td></td><td></td><td></td><td>Waste Storage and Disposal</td><td>G. Waste Storage and Disposal
1. Landfill sites
2. Waste Incinerators and autoclaves
3. Hazardous substance or waste storage warehouse</td></tr>
<tr><td>3.</td><td>Delegations of power for Environment Approvals Rule 2017</td><td>According to these rules the powers of environmental approval are delegated to commissioner for specific types of projects</td><td colspan="3">• 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, expressways and motorways
• Clause o solid waste management excepting landfills
• Clause p water supply schemes /water purifications plants costing upto Rs. 20,000/-</td></tr>
</table>

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
		state of preservation and classification as monuments of national or world heritage.	
8.	Punjab Restriction of Employment of Children Act, 2016	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 extend to six months, but which shall not be less than seven days, and a mandatory fine between 10,000 and 50,000 rupees.	The relevance of this act to the project will be to prohibit child employment for construction related activities of the 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.	
13	Punjab Local Government Act, 2019	As per PLGA 2019 Functions of a Metropolitan Corporation, Municipal Corporation and Municipal Committee: Part I (g) Solid waste collection and disposal; (h) Sewerage collection and disposal including water management and treatment; (i) Building control and land use; (j) Births, deaths, marriages and divorce registration; (k) Museums and art galleries; (l) Open markets; (m) Livestock and agriculture markets; (n) Public parking facilities; (o) City roads and traffic management;	All the related clauses of this Act shall be applicable for MCs.

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 18th 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).	
16	Guidelines for Regulation of Disclosure of Environmental Information & Citizen Engagement 2020	These guidelines give details about disclosure of environmental information. These guidelines have 2 parts: First part deals with Public Disclosure instructions regarding arrangement of public disclosure of environment information and maintenance of record in indexed form Second part is regarding Citizen Engagement, and it gives detailed information regarding citizen engagement and Grievance redress mechanism.	These guidelines will be applicable for public disclosure of environment related information of IEEs/EIAs or any other interventions that may cause any harm to the environment.
17	Canal and Drainage Act 1873 and Amendment Act 2016	The CDA focuses on construction and maintenance of drainage channels and defines powers to prohibit obstruction or order their removal. It also covers issues related to canal navigation. It briefly addresses issues relating to environmental pollution. Section 70(5) of the CDA clearly states that no one is 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.”	This act shall be applicable for all the subprojects of MCs where untreated wastewater is being dispose off to the irrigation canals.

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."	
18	Punjab Wildlife Protection, Conservation and Management Act, 1974	The Act requires the protection of wildlife species declared as endangered/threatened and rare. It gives protection to these species by declaring their natural living environment as protected and reserved, which includes areas such as national parks, wildlife sanctuaries, and game reserves.	This act shall be applicable in case any harm to wildlife is assessed at the stage of early screening or if there is any potential risk identified to the wildlife during or after execution of the subprojects/projects related to infrastructure development and municipal service delivery.
19	Guidelines and Checklists adopted by GOP after 18th Amendment	Punjab EPA has also designed the following Guidelines/Checklists for IEE/EIA Projects: Check List for IEE (updated September 2020) Check List for EIA (updated September 2020) After 18th Amendment, Punjab EPA has adopted the following sectoral Guidelines that were prepared by other provinces and were earlier adopted by Pak EPA: ✓ Poultry Farms ✓ Urban Roads ✓ Rural Schools ✓ Housing Schemes	Checklists for IEE and EIA shall be applicable to all the new infrastructure development projects. Following Guidelines shall be applicable for MC's municipal service delivery projects: ✓ Urban Roads ✓ Water Supply ✓ Sanitation Schemes ✓ Major Sewerage 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
1.	**Waste Management**					
	Solid Waste	Collection Equipment, Collection Bins	Negligible environmental impacts	E3	S3	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
		Community septic tanks	May have some negative but localized environmental and social impacts	E2	S2	ESMP
		Vacuum Trucks, Vacuum Handcarts and others	Negligible environmental impacts	E3	S3	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**					
		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 Drainage**					
	Urban drainage systems Open Drainage System Covered Drains		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 systems		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	Nature of Environmental Issues	Env. Category	Social Category	Instruments Required
						categorization given in Schedule I and II of PEPA Review of IEE/EIA Regulations 2000
4.	**Connectivity**					
	Rehabilitation and maintenance of urban roads[4]		May have some negative but localized environmental and social impacts	E2	S2S	ESMP
	Pedestrian walkways, Bicycle paths		May have negligible environmental impacts	E2	S2	ESMP
	Streets and security lights, and road signs		May have negligible environmental impacts	E3	S3	NA
	Construction of Bus Workshops		May have some negative but localized environmental and social impacts	E2	S2	ESMP
	Rehabilitation of Bus Stands/Terminals[5]		May have negligible environmental impacts	E2	E2	ESMP
5.	**Social and Livability Infrastructure**					
	Urban greenery and public spaces		May have negligible environmental impacts	E2	S2	ESMP
	Construction of Community Parks[6]		May have some negative but localized environmental and social impacts	E2/E1	S2/S1	ESMP/IEE/EIA
	Rehabilitation /Maintenance of Community Parks		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 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	

Year No.	Year	Costs			Benefits				Net (Cost)/ Benefits	PV @ %	22.32
		Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits		Discount Factor	PV
		A	B	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(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
Total		400	1,868	2,268	-	-	2,179	2,179	(89)		(307)

Assumptions for Financial Appraisal

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.

5 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/ Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

Macro-economic Indicators

8 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	

Year No.	Year	Costs			Benefits				Net (Cost)/ Benefits	PV @ %	22.32
		Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits		Discount Factor	PV
		A	B	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(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
Total		100	148	248	4,109	-	-	4,109	3,861		58

Assumptions for Financial Appraisal

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.

5 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/ Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

Macro-economic Indicators

8 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: 01-05-01-01-01

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	

Year No.	Year	Costs			Benefits				Net (Cost)/ Benefits	PV @ %	22.32
		Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits		Discount Factor	PV
		A	B	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(1.22.32)^n	J=HxI
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)	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
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
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
Total		150	222	372	6,163	-	-	6,163	5,791		87

Assumptions for Financial Appraisal

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.

5 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/ Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

Macro-economic Indicators

8 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 No.	Year	Costs			Benefits				Net (Cost)/ Benefits	PV @ %	22.32
		Capital Cost	O&M Cost	Total Cost	Cost saving to society	Direct Revenue	Cost Savings/ Reduction	Total Benefits		Discount Factor	PV
		A	B	C=A+B	D	E	F	G=D+E+F	H=G-C	I=(1.22.32)^n	J=HxI
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)	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
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
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
Total		150	222	372	6,163	-	-	6,163	5,791		87

Assumptions for Financial Appraisal

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.

5 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/ Transmission Mains	25
Sewerage/ RCC Pipelines	25
Vehicles	10
Machinary & Equipment	15

Macro-economic Indicators

8 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

Consultative Session - Muridke.pdf

2022-2023

Consultative Session_Muridke.pdf

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)	-
	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**