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 Khanewal

May 2023

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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) Khanewal. Thus, this document is confined to the planning and management of assets of MC Khanewal.

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 F** 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 Khanewal. 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 Khanewal. 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 Khanewal 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 census 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 and community.
- PMDFC has actively engaged in community consultative sessions to gather valuable insights into the needs and desires of the local community. Furthermore, we have made it a priority to consult with the management and staff of the respective Municipal Committees (MCs) during our field visits. This collaborative approach has allowed us to gain valuable perspectives from those directly involved in the day-to-day operations of the MCs and the feedback and insights gathered from these consultative sessions, both with the community and MC stakeholders, have been carefully analyzed and incorporated into the IDAMPs of the respective MCs.
- 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 Khanewal

Section 2. Overview – Municipal Committee Khanewal

2.1. Introduction

Khanewal an old sub division of Multan district was upgraded as district w.e.f 1st July 1985 comprising 4 sub divisions namely Khanewal, Kabirwala, Mian Channu and Jahanian. The present city of Khanewal was not more than a village before the year 1911 but in the year 1919 it was given the status of an area committee which was upgraded as Unit Khanewal in the year 1933. In the year 1904 a railway colony was setup here and Multan Faisalabad railway line was started. Resultantly it became an important railway junction which played an important role in development of this town.[1]

2.2. Functions of Municipal Committee Khanewal

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
- street lighting
- parks, playgrounds, open spaces

[1] https://mckhanewal.lgpunjab.org.pk/about-us/history/

- 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 Khanewal 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

Sr No.	Asset Category	Asset Sub-Category	Unit	Total
1	Water Supply System	Tube wells	No.	19
		Water Supply Network	Meter	150603
		OHR	No.	5
		Filtration Plants	No.	18
		Movable Assets (Vehicles/Machinery)	No.	2
2	Sewerage System	Sewerage Network	Meter	202401
		Disposal Stations	No.	8
		Movable Assets (Vehicles/Machinery)	No.	68
3	Recreational	Park	No.	4
4	SWM Resource	Dumping Site	No.	1
		Movable Assets (Vehicles/Machinery)	No.	632
5	Bus Stands	Bus Stand	No.	2
6	Buildings	Offices	No.	1
		Other Buildings	No.	21
7	Lands	Open Plots	No.	75
8	Office Vehicles	Office Vehicles	No.	5

Sr No.	Asset Category	Asset Sub-Category	Unit	Total
9	Street Lights	Street Lights	No.	1778
10	Roads	Roads	KMs	25.2
11	Slaughter House	Slaughter House	No.	1

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

Table 1: Asset Summary

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

Sr No.	Asset Category	Asset Sub-Category	Asset Condition					Unit	Total
			Excellent (A)	Good (B)	Fair (C)	Poor (D)	Failing (E)		
1	Water Supply System	Tube wells	-	9	1	1	8	No.	19
		Water Supply Network	90361	-	-	-	60242	Meter	150603
		OHR	-	-	2	3	-	No.	5
		Filtration Plants	-	3	11	4	-	No.	18
		Movable Assets (Vehicles/Machinery)	-	-	2	-	-	No.	2
2	Sewerage System	Sewerage Network	48157	-	154244	-	-	Meter	202401
		Disposal Stations	-	2	2	4	-	No.	8
		Movable Assets (Vehicles/Machinery)	-	-	68	-	-	No.	68
3	Recreational	Park	1	-	3	-	-	No.	4

Sr No.	Asset Category	Asset Sub-Category	Asset Condition					Unit	Total
			Excellent (A)	Good (B)	Fair (C)	Poor (D)	Failing (E)		
4	SWM Resource	Dumping Site	-	-	1	-	-	No.	1
		Movable Assets (Vehicles/Machinery)	590	7	31	4	-	No.	632
5	Bus Stands	Bus Stand	-	-	1	1	-	No.	2
6	Buildings	Offices	-	-	-	1	-	No.	1
		Other Buildings	-	20	1	-	-	No.	21
7	Lands	Open Plots	-	-	75	-	-	No.	75
8	Office Vehicles	Office Vehicles	-	-	1	4	-	No.	5
9	Street Lights	Street Lights	608	-	-	-	1170	No.	1778
10	Roads	Roads	-	-	9.4	15.8	-	KMs	25.2
11	Slaughter House	Slaughter House	-	-	1	-	-	No.	1

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 Khanewal 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	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.	48%	48%		
	Water Supply Coverage by private wells %	Percentage of area, where residents have own water sources.	52%	52%		
	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.	4	4		
	Non-revenue water %	Difference between total water produced (ex -treatment plant) and total water sold expressed as a percentage of total water produced.	98%	98%		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	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.	0.08	0.08		
	Unit operational cost - water sold (production cost at consumer end) (PKR)	Total annual operating expenses divided by the total annual volume of water sold.	0.07	0.06	Solarization of Tube wells and Water Supply System	2023-2024
	Water supply staff per 1000 water connections (No.)	Total number of water supply staff expressed as per thousand water connections.	6.6	6.6		
	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.	41%	41%		
	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.	55%	47%	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.	11%	Conformance with the requirements of NEQ	Rehabilitation of Filtration Plant	2023-2024
	Continuity of Service Hrs. / Day	Average hours of service per day for water supply. (Average operational hours of tube well per day)	3	3		
	Water Supply Complaints %	Total number of water supply complaints per year expressed as a percentage of the total number of water supply connections.	1%	0.5%	Rehabilitation of Filtration Plant	2023-2024

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
	Operational cost coverage (Ratio)	Total annual operational revenues/Total annual operating cost.	2%	2.3%	Solarization of Tube wells and Water Supply System	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)	35%	60%	Improvement of Existing Sewerage System and WWTP	2023-2026
	Risk of crown failure	Whether there is an indication of crown failure?	Yes	No		
	Sewerage blockages (Blockages/KM) (No.)	Total number of blockages/ complaints per year expressed per km of sewers	4	1.91		
	Sewerage staff per 1000 sewerage connections (No.)	Total number of sewerage staff expressed as per thousand sewerage connections	0.44			
	Waste water 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.	N/A	100%	Improvement of Existing Sewerage System and WWTP	2023-2026
	Waste water 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.	N/A	100%		
	Sewerage Complaints (%)	Total number of sewerage complaints per year expressed as a percentage of the total number of sewerage connections.	2.4%	Reduced number of complaints		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
Storm water drainage;	Storm water drainage coverage (%)	The percentage of MC area that the drainage system protects from flooding.	35%	60%	Improvement of Existing Sewerage System and WWTP	2023-2026
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.	65%	65%		
	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.	0%	0%		
	Primary SWM Coverage each day in localities (%)	Percentage of area from which the sanitary staff sweeps & collects waste each day	65%	65%		
	Primary SWM Coverage each day in Roads (%)	Primary SWM Coverage each day in Roads	65%	65%		
	Open Collection Points (No.)	Open Collection Points	114	114		
	Secondary collection machinery (No.)	Secondary collection machinery	11	11		
	Adequacy of parking facilities for SWM vehicles	Adequacy of parking facilities for SWM vehicles	Yes	Yes		
	Waste transported in covered vehicles	Waste transported in covered vehicles	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 Land fill Site	No Land fill Site		
Roads and streets;	Roads with condition "A" (Excellent) %	Total length of roads with condition "A" expressed as a percentage of total roads.	0%	0%	Improvement/Rehabilitation of Roads	2023-2024

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
	Roads with condition "B" (Good) %	Total length of roads with condition "B" expressed as a percentage of total roads.	0%	43%		
	Roads with condition "C" (Fair) %	Total length of roads with condition "C" expressed as a percentage of total roads.	37%	37%		
	Roads with condition "D" (Poor) %	Total length of roads with condition "D" expressed as a percentage of total roads.	63%	20%		
	Roads with condition "E" (Failing) %	Total length of roads with condition "F" expressed as a percentage of total roads.	0%	0%		
Streetlighting;	Streetlight coverage. (%)	Percentage of area/roads with streetlights.	24.4%	24.4%		
	Working Streetlight %	Percentage of working streetlights as of total streetlights.	34%	100%	Provision and installation of Street Lights in MC	2025-2026
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. %	0.1%	0.1%		
	Parks with condition "A" (Excellent) %	Parks with condition "A" expressed as a percentage of total parks.	25%	42%	Rehabilitation / Improvement of Yousaf Park	2024-2025
	Parks with condition "B" (Good) %	Parks with condition "B" expressed as a percentage of total parks.	0%	50%	1. Rehabilitation / Improvement of City Park 2. Rehabilitation / Improvement of Fazal Park	2025-2026 2023-2024

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
	Parks with condition "C" (Fair) %	Parks with condition "C" expressed as a percentage of total parks.	75%	8%		
	Parks with condition "D" (Poor) %	Parks with condition "D" expressed as a percentage of total parks.	0%	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. %	0.3%	0.3%		
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%		
	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,	Ratio of bus stations to the total length of roads	Ratio of bus stations to the total length of roads	`1:22	`1:22		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
stands and terminals;	Adequacy of facilities at bus stands	Adequacy of facilities at bus stands	Yes	Yes		
Slaughterhouse;	Adequacy of slaughterhouses	Adequacy of slaughterhouses keeping in view the population of the MC	Yes	Yes		
	Adequacy of facilities in slaughterhouses	Adequacy of facilities in slaughterhouses in terms of tools, disinfectants, refrigeration/ storage systems, drainage and disposal facility, etc.	No	No		
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		
Buildings	Buildings with condition "A" (Excellent) %	Total number of buildings with condition "A" expressed as a percentage of total number of buildings.	0%	0%		
	Buildings with condition "B" (Good) %	Total number of buildings with condition "B" expressed as a percentage of total number of buildings.	91%	91%		
	Buildings with condition "C" (Fair) %	Total number of buildings with condition "C" expressed as a percentage of total number of buildings.	4.5%	4.5%		
	Buildings with condition "D" (Poor) %	Total number of buildings with condition "D" expressed as a percentage of total number of buildings.	4.5%	4.5%		
	Buildings with condition "E" (Failing) %	Total number of buildings with condition "E" expressed as a percentage of total number of buildings.	0%	0%		

Functions of MCs (municipal services)	Level of Service Indicators	Description	Current LOS	Target LOS for three years	Project Name	Timeframe (FY)
	Solar Penetration Index (SPI) %	The Solar Penetration Index (SPI) measures the percentage of MC office buildings that have successfully undergone solarization.	0%	100%	Solarization of the municipal buildings	2023-24

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 Khanewal 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 Capital Cost	2023-24		2024-25		2025-26		Project Screening (Score)
					Capital	O&M	Capital	O&M	Capital	O&M	
				(Millions)							
1	03-14-01-04-01	Rehabilitation of Filtration Plant	Water Supply	18.00	18.00	1.80		1.80		1.80	81
2	03-14-01-04-02	Improvement of Water Supply scheme	Water Supply	5.50	0.28			0.28		0.28	81
3	03-14-01-06-01	Construction of Underground Water Storage Tank	Water Supply	600.00	150.00		300.00		150.00	15.00	81
4	03-14-02-01-01	Improvement of Existing Sewerage System and WWTP	Sewerage	850.00	425.00		425.00	21.25		21.25	79
5	03-14-05-01-01	Rehabilitation / Improvement of Yousaf Park	Parks	80.00			80.00	2.00		2.00	74

Sr. No.	Project ID	Project Name	Asset Category	Total Capital Cost	2023-24		2024-25		2025-26		Project Screening (Score)
					Capital	O&M	Capital	O&M	Capital	O&M	
				(Millions)							
6	03-14-04-03-01	Provision and installation of Street Lights in MC	Streetlights	13.55					13.55	0.34	60
7	03-14-06-01-01	Solarization of the municipal buildings	Buildings	300.00	300.00	1.50		1.50		1.50	80
8	03-14-01-01-01	Solarization of Tube wells and Water Supply System	Water Supply	140.00	140.00	0.70		0.70		0.70	87
9	03-14-05-01-02	Improvement/Rehabilitation of Fazal Park	Parks	197.38	197.38	4.93		4.93		4.93	80
10	03-14-04-01-01	Improvement and Construction of Roads in MC Khanewal	Roads	231.90	231.90	11.60		11.60		11.60	80
11	03-14-04-01-02	Improvement/Rehabilitation of Road (Jaswant Nagar Chowk to Tea factory Road)	Roads	166.98	166.98	8.35		8.35		8.35	80
12	03-14-04-01-03	Improvement/Rehabilitation of Road (Tuff Pavers)	Roads	100.00	100.00	5.00		5.00		5.00	80
13	03-14-02-02-01	Solarization of Tubewells and Disposal Stations in Khanewal City	Sewerage	114.99	114.99	0.57		0.57		0.57	80
Total.				**2,818.30**	**1,844.53**	**34.45**	**805.00**	**57.98**	**163.55**	**73.32**	

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.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
1	03-14-01-04-01	Water Supply	Rehabilitation of Filtration Plant	Improve water quality standards. Increase the capacity of the filtration system. Reduce maintenance and operating costs. Improve the reliability of the filtration system. Extend the lifespan of the filtration system. Ensure compliance with regulatory requirements. Enhance public health and safety. Increase the efficiency of the filtration process. Reduce the risk of waterborne illnesses. Improve the overall performance of the filtration system.	Replacement of filters, vessels membranes, some taps,	18	1.8	Various Location
2	03-14-01-04-02	Improvement of Water Supply scheme	Water Supply	1) Rehabilitation of the components of existing water supply system to attain full efficiency out of these installations. 2) Supply of adequate quantity of	▸ Replacement of 1 pumpsets ▸ Installation of capacitors	5.5	0.275	MC Khanewal

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

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				water in water shortage areas. 3) Improvement of service delivery level in the entire city. 4) Augmentation of the source capacity 5) Equal distribution of water in the entire system 6) Improvement of terminal pressure at remote ends of the distribution system 7) Reduction of water borne diseases. 8) Improvement in local and province economy.				
3	03-14-01-06-01	Water Supply	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 anad household cleanliness of users - Reduction of water borne diseases - Reduction in medical expenditures - Improvement in environment of the city	Design and Engineering Site Preparation Excavation and Earthwork Foundation Works Masonary Works Coation and Insulation Piping and Connection Concrete Works	600	15	MC Khanewal
4	03-14-02-01-01	Sewerage	Improvement of Existing Sewerage System and WWTP	1. To implement prioritized, need based and most cost-effective municipal service infrastructure sub projects for the year 2032. 2. To improve the service delivery level for the entire growing population of the city. 3. Protecting drinking water sources from contamination by waterborne	1.Rehabilitation of existing sewerage system 2.Rehabilitation of existing disposal stations 3.Construction of sewerage network in unserved areas	850	21.25	MC Khanewal

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				waste 4. Improvement of the environment of the city making it livable. 5. To improve the economic growth of the city.	4.WWTP 5.Construction of new disposal stations			
5	03-14-05-01-01	Parks	Rehabilitation / Improvement of Yousaf 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.	Park required Drinking water coolers Washroom Renovations Prayer Room Dust Bins Exercise Facility Tuck Shop Gazebo	80	2.00	MC Khanewal
6	03-14-04-03-01	Streetlights	Provision and installation of Street Lights in MC	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. Enhance the functionality of the street lighting system.	Replacement of LED Lights - 200 Nos. Replacement of street lights - 709 Nos.	13.545	0.34	Various streets and roads in MC

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				Improve reliability and reduce maintenance downtime. Ensure compliance with regulatory requirements. Increase the lifespan of the street lighting system.				
7	03-14-06-01-01	Solarization of the municipal buildings	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	300	1.5	MC Khanewal

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
8	03-14-01-01-01	Solarization of Tube wells and Water Supply System	Water supply	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.	140	0.7	MC Khanewal
9	03-14-05-01-02	Parks	Improvement/Rehabilitation of Fazal Park	1.The project's main objective is to rehabilitate the existing park with the upgradation to the existing & new facilities to provide the local 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.	▸ Boundary wall with iron grill ▸ Entrance gates ▸ Ramps for PWDs ▸ Tuff tile pathways ▸ Jogging track ▸ Landscaping ▸ Plantation/vegetation cover of indigenous species ▸ Gazebos ▸ Public toilets ▸ Rainwater recharge well	197.384	4.94	Fazal Park Road near Khanewal Stadium

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				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.	▸ Shopping and sitting area ▸ Playing area for children ▸ Security guard room ▸ Grassing and flower beds ▸ Gardener Room ▸ Prayer Room ▸ Store ▸ Bird cage ▸ Provision of lighting and electrical arrangements ▸ Construction of new water supply & drainage system and connection with existing network ▸ Percolation Well			
10	03-14-04-01-01	Roads	Improvement and Construction of Roads in MC Khanewal	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	Geometric Improvement and Rehabilitation of Existing Pavement Structure, Pavement Marking, Street Lighting, Improvement of drainage system	231.9	11.59	1. SP-Chowk to Jaswant Nagar Chowk 2. SP Chowk to Railway Station Chowk to Underpass 3.

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				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.				Football Chowk to Stadium Road
11	03-14-04-01-02	Roads	Improvement/Rehabilitation of Road (Jaswant Nagar Chowk to Tea factory Road)	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.	Jaswant Nagar Chowk to Tea factory Road	166.98	8.349	Jaswant Nagar Chowk to SP Chowk & SP Chowk to Underpass road, Khanewal

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				9. Improvement in the economic growth potential of the city.				
12	03-14-04-01-03	Roads	Improvement/Rehabilitation of Road (Tuff Pavers)	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.	Tuff tiles in main bazar of MC Khanewal	100	5	MC Khanewal

Sr. No.	Project ID	Service Sector	Project Name	Project Objectives	Project Scope	Capital Cost (PKR million)	Recurrent Annual O&M Cost (PKR million)	Project Location
				9. Improvement in the economic growth potential of the city.				
13	03-14-02-02-01	Sewerage	Solarization of Tubewells and Disposal Stations in Khanewal City	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 and Disposal Stations based on the site load and installation capacity assessment	114.991	0.575	Khanewal City

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) **Provision of Parking Facility for Solid Waste Management Vehicles:** The biggest problem of the solid waste machinery is non-availability of parking, which would have the bearing on the useful life of vehicles, as sheds would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

(vi) **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.

(vii) **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.

(viii) **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.

(ix) **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 Khanewal 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	308.28	2.50	300.00	2.78	150.00	17.78
Sewerage	539.99	0.57	425.00	21.82	-	21.82
Parks	197.38	4.93	80.00	6.93	-	6.93
Streetlights	-	-	-	-	13.55	0.34
Buildings	300.00	1.50	-	1.50	-	1.50
Roads	498.88	24.94	-	24.94	-	24.94
Total	**1,844.53**	**34.45**	**805.00**	**57.98**	**163.55**	**73.32**

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.

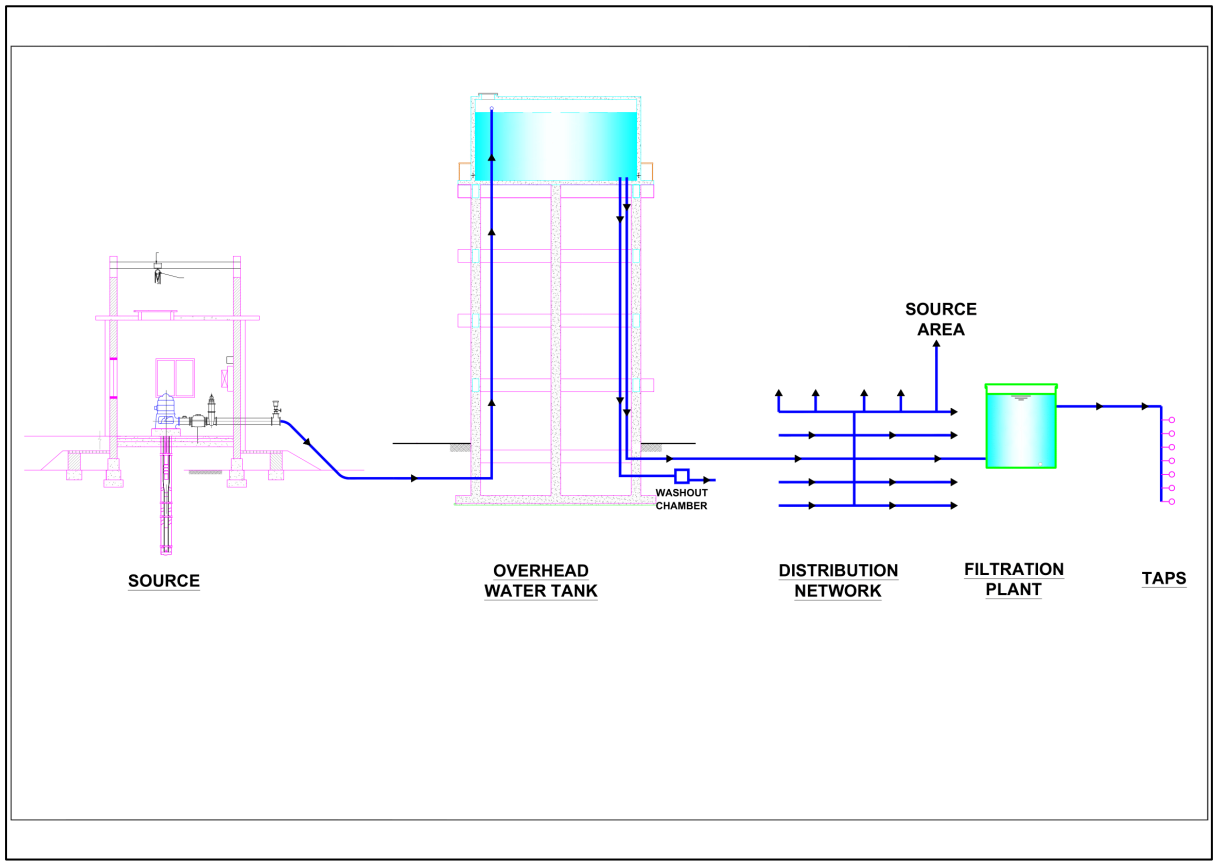
Operating and maintenance (O&M) cost shall be incurred during operational phases of the project. Operation and maintenance cost includes electricity and other utility cost, administrative expenses, maintenance cost, payroll cost and other overheads etc.

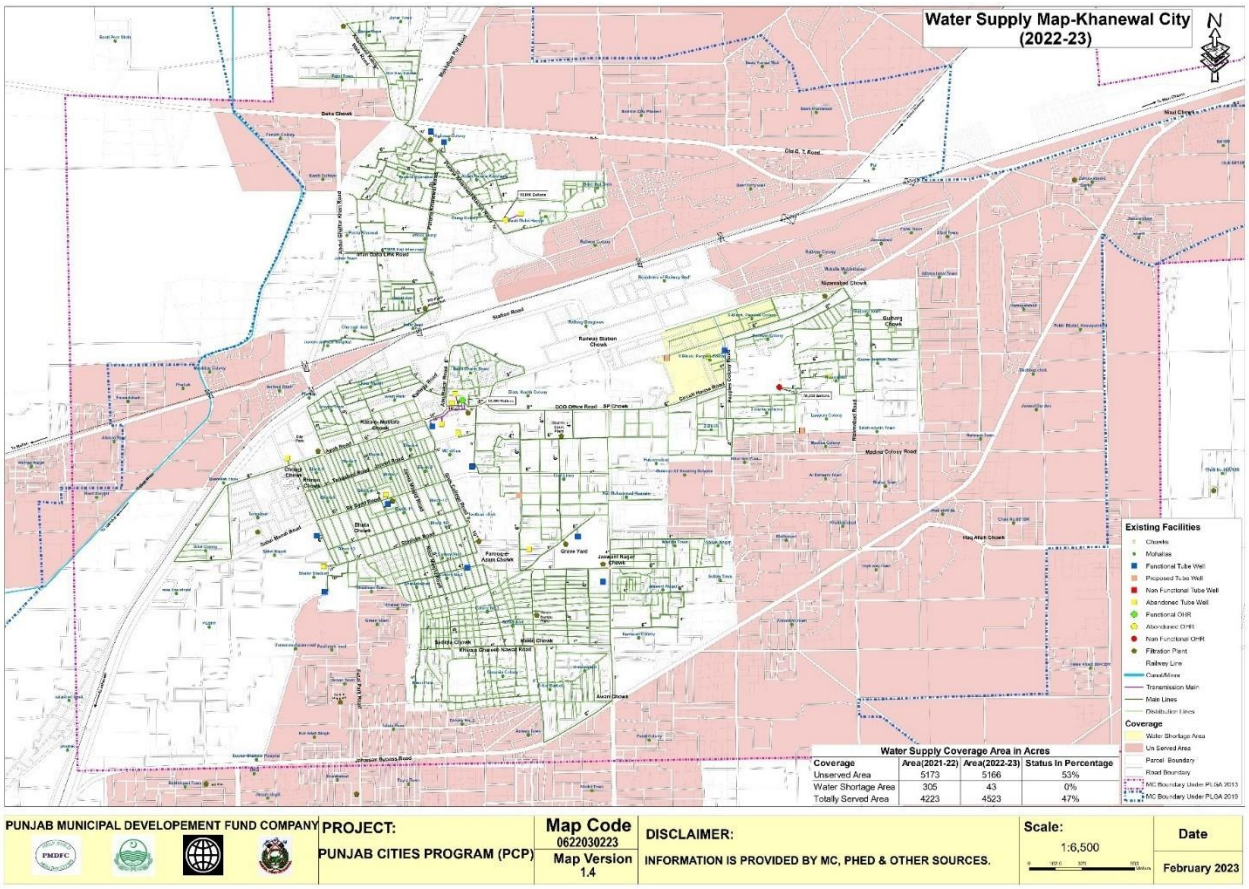
Annexure

Annexure A. Detail of Assets

1. WATER SUPPLY:

Key Components of a Water Supply System





A. Tube well

Sr #	Name	Age (Years)		Condition	Status	Book Value (PKR Mil)	Discharge (cusec)	Pump Make	Motor Make	Motor hp
		Civil Structure	Pump							
1	Khanewal Highway Colony	6	6	Good	Functional	4	2	PECO	PECO	50
2	City Park	Not Available		Failing	Non-Functional	0.05	Abandoned			
3	Colony No. 1 Near School	37	37	Poor	Functional	0.2	2	KSB	Siemens	50
4	School 11-B	2	2	good	Functional	6.5	1.5	KSB	Siemens	50
5	Colony No. 2	5	5	Good	Functional	4.3	2	KSB	Siemens	50
6	T-Chowk	6	6	Good	Functional	4	2	KSB	BECO	60
7	5 Marla Scheme	Not Available		Failing	Non-Functional	0	Abandoned			
8	3 Marla Scheme	17	17	Failing	Non-Functional	0	Abandoned			
9	T-Chowk No.2	36	36	Failing	Non-Functional	0	Abandoned			

Sr #	Name	Age (Years)		Condition	Status	Book Value (PKR Mil)	Discharge (cusec)	Pump Make	Motor Make	Motor hp
		Civil Structure	Pump							
10	Nizamabad Water Supply	19	19	Failing	Non-Functional	0	Abandoned			
11	Old Khanewal Water Supply	6	6	Good	Functional	3.5	1.5	KSB	Siemens	50
12	Purana Kohana	Not Available		Failing	Non-Functional	0	Abandoned			
13	Stadium Water Supply	2	2	good	Functional	6.5	1.5	BECO	BECO	
14	Sabzi Mandi Water Supply	2	2	good	Functional	6.5	1.5	BECO	BECO	50
15	Thana Ground	2	2	good	Functional	6.5	1.5	KSB	Siemens	50
16	Colony No. 2 Water Supply	5	5	Good	Functional	6.5	1.5	MECO	Siemens	60
17	Peoples Colony No. 2	Not Available	Failing	Non-Functional	0		Abandoned			
18	Peoples Colony	31	18	Fair	Functional	0.3	2	KSB	Siemens	50
19	T-Chowk Tehsil Fire Brigade	25	25	Failing	Functional	0.2	2	PECO	Siemens	60

Integrated Development and Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A1	Tube Well Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Asset Detail			Pictures
Name		Thana Ground	
Location	Latitude	30.3014	
	Longitude	71.9236	
Address			
Area (Marla/Kanal/Acres)		1	
Working Status		Functional	Non-Functional
Installation Year of Tube Well		2021	
Installation Year of Pump		2021	
Capital Cost of Machinery			
Operational Hours		3	
Delivery Pipe	Dia	10"	
	Material	C.I	
Chlorinator		Yes	No

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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)		1.5			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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	
Water Meter		Yes		No	
PFI Equipment		Yes		No	
Generator		Yes		No	
Change Over		Yes		No	

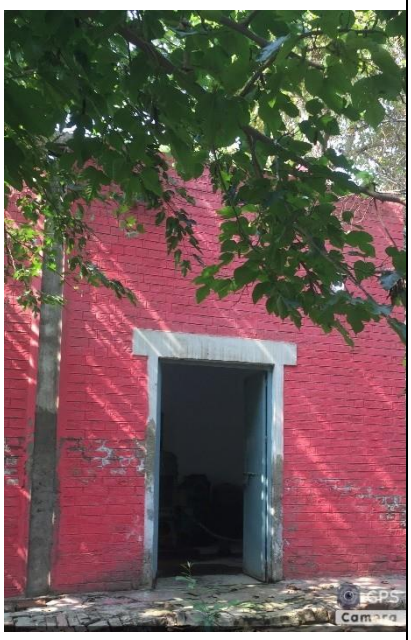
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements

- No remarks

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
Data Collected By: Mr. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					**Pictures**
Name		T Chowk			
Location	Latitude	30.3032			
	Longitude	71.9234			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		2017			
Installation Year of Pump		2017			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
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)		2			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		60			
Motor Make		BECO			
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 Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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. Haroon		*Designation: Team Member*		*Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		*Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		Peoples Colony			
Location	Latitude	30.3060			
	Longitude	71.9381			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		1992			
Installation Year of Pump		2005-2006			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
Chlorinator		Yes	No		
Chlorination Schedule		Once in a Year	After 6 Months	No Schedule	
Apron Around Pump House		Yes	No		

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023	
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)		2			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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	
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

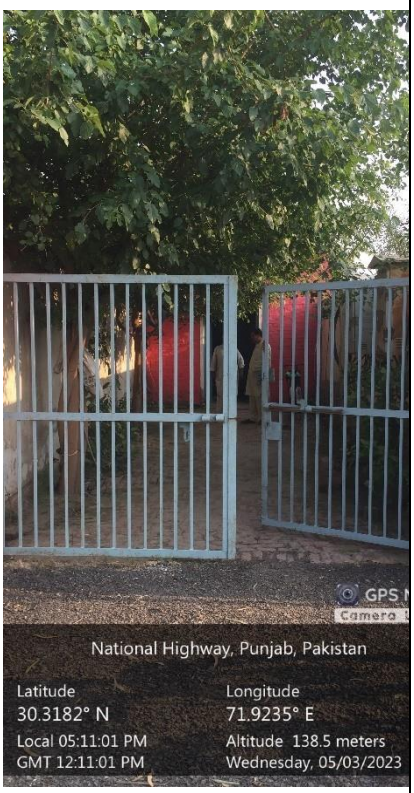
- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
		Sign & Date: 30 May 2023

Integrated Development and Asset Management Plan (IDAMP)
Municipal Committee Khanewal
Form: IDAMP-A1 | Tube Well Asset Condition Assessment | Asset Code: _____ Date: 03-05-2023

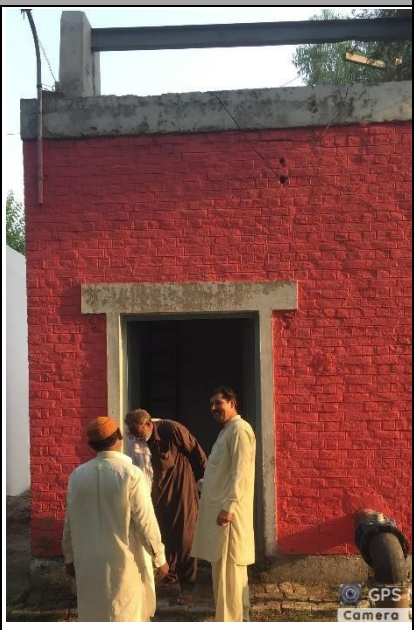
Asset Detail					Pictures
Name		Old Khanewal Water Supply			
Location	Latitude	30.3182			
	Longitude	71.9235			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		2017			
Installation Year of Pump		2017			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	9"			
	Material	C.I			
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)		1.5			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					



Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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		
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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Asset Detail				Pictures
Name		Khanewal Highway Colony		
Location	Latitude	30.3179		
	Longitude	71.9218		
Address				
Area (Marla/Kanal/Acres)		1		
Working Status		Functional	Non-Functional	
Installation Year of Tube Well		2017		
Installation Year of Pump		2017		
Capital Cost of Machinery				

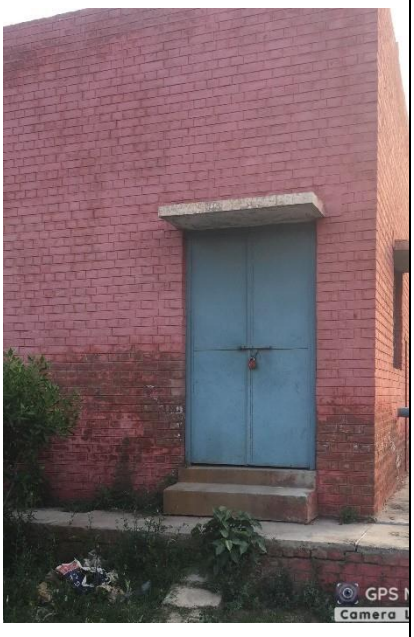
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Operational Hours		3			
Delivery Pipe	Dia	9"			
	Material	C.I			
Chlorinator		Yes		No	
Chlorination Schedule		Once 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)		2			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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	
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					

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
• No remarks		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Asset Detail				**Pictures**
Name		City Park		
Location	Latitude	30.2998		
	Longitude	71.9139		
Address				
Area (Marla/Kanal/Acres)		1		
Working Status		Functional	Non-Functional	
Installation Year of Tube Well				
Installation Year of Pump				
Capital Cost of Machinery				
Operational Hours		3		
Delivery Pipe	Dia	6"		
	Material	C.I		
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)		2		
Rotational Speed (RPM)		1460		
Housing Dia (inches)		12		
Bore Depth (ft.)		400		



Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Head (ft.)		200		
Impeller Installation Depth (ft.)		120		
Paint of Pumping Unit		OK		
Number of Valves	Gate Valve	1		
	Non-Returning Valve	1		
Base Plate		Yes	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		100		
Sanctioned Load (Kwh)		30		
Motor Power (HP)		50		
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	
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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
Asset Detail		Pictures

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Stadium Water Supply		
Location	Latitude	30.2949		
	Longitude	71.9161		
Address				
Area (Marla/Kanal/Acres)		1		
Working Status		Functional	Non-Functional	
Installation Year of Tube Well		2021		
Installation Year of Pump		2021		
Capital Cost of Machinery				
Operational Hours		3		
Delivery Pipe	Dia	10"		
	Material	C.I		
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)		1.5		
Rotational Speed (RPM)		1460		
Housing Dia (inches)		12		
Bore Depth (ft.)		400		
Head (ft.)		200		
Impeller Installation Depth (ft.)		120		
Paint of Pumping Unit		OK		
Number of Valves	Gate Valve	1		
	Non-Returning Valve	1		
Base Plate		Yes	No	
Electro-Mechanical Equipment Details				
Transformer Capacity (kVA)		100		
Sanctioned Load (Kwh)		30		
Motor Power (HP)		50		
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 Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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. Haroon		*Designation: Team Member*		*Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		*Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		Sabzi Mandi Water Supply			
Location	Latitude	30.2975			
	Longitude	71.9192			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		2021			
Installation Year of Pump		2021			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
Chlorinator		Yes	No		
Chlorination Schedule		Once in a Year	After 6 Months	No Schedule	
Apron Around Pump House		Yes	No		

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023	
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)		1.5			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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	
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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
		Sign & Date: 30 May 2023

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					**Pictures**
Name		Colony No. 2 Water Supply			
Location	Latitude	30.2958			
	Longitude	71.9292			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		2018			
Installation Year of Pump		2018			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
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		MECO			
Discharge Capacity (Cusec)		1.5			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		45			
Motor Power (HP)		60			
Motor Make		MECO			
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 Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		School 11-B			
Location	Latitude	30.2927			
	Longitude	71.9316			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		2021			
Installation Year of Pump		2021			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
Chlorinator		Yes	No		
Chlorination Schedule		Once in a Year	After 6 Months	No Schedule	
Apron Around Pump House		Yes	No		

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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)		1.5			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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	
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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
		Sign & Date: 30 May 2023

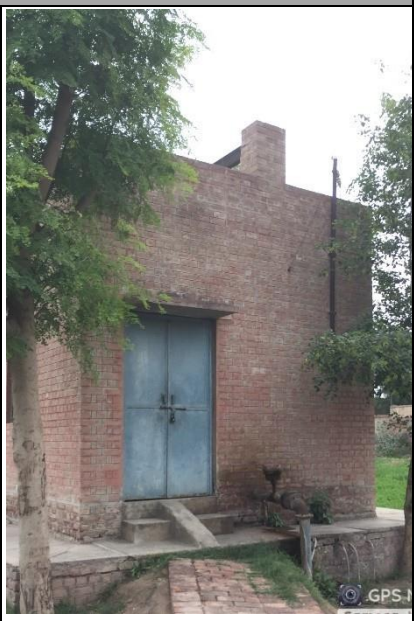
Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023

Asset Detail					Pictures
Name		Colony No. 1 Near School			
Location	Latitude	30.2927			
	Longitude	71.9243			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional		Non-Functional	
Installation Year of Tube Well		1983			
Installation Year of Pump		1983			
Capital Cost of Machinery					
Operational Hours		3			
Delivery Pipe	Dia	10"			
	Material	C.I			
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)		2			
Rotational Speed (RPM)		1460			
Housing Dia (inches)		12			
Bore Depth (ft.)		400			
Head (ft.)		200			
Impeller Installation Depth (ft.)		120			
Paint of Pumping Unit		OK			
Number of Valves	Gate Valve	1			
	Non-Returning Valve	1			
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Transformer Capacity (kVA)		100			
Sanctioned Load (Kwh)		30			
Motor Power (HP)		50			
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		
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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Asset Detail				Pictures
Name		5 Marla Scheme		
Location	Latitude	30.3233		
	Longitude	71.9218		
Address				
Area (Marla/Kanal/Acres)		1		
Working Status		Functional	Non-Functional	
Installation Year of Tube Well				
Installation Year of Pump				

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Capital Cost of Machinery					
Operational Hours					
Delivery Pipe	Dia				
	Material				
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					
Pump Make					
Discharge Capacity (Cusec)					
Rotational Speed (RPM)					
Housing Dia (inches)					
Bore Depth (ft.)					
Head (ft.)					
Impeller Installation Depth (ft.)					
Paint of Pumping Unit					
Number of Valves	Gate Valve				
	Non-Returning Valve				
Base Plate		Yes		No	
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)					
Sanctioned Load (Kwh)					
Motor Power (HP)					
Motor Make					
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	
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

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A1	Tube Well Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
Remarks / Requirements		
• No remarks		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A1	Tube Well Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Asset Detail				Pictures
Name		3 Marla Scheme		
Location	Latitude	30.3027		
	Longitude	71.9409		
Address				
Area (Marla/Kanal/Acres)		1		
Working Status		Functional	Non-Functional	
Installation Year of Tube Well		2006		
Installation Year of Pump		2006		
Capital Cost of Machinery				
Operational Hours				
Delivery Pipe	Dia			
	Material			
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				
Pump Make				
Discharge Capacity (Cusec)				
Rotational Speed (RPM)				
Housing Dia (inches)				
Bore Depth (ft.)				

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Head (ft.)					
Impeller Installation Depth (ft.)					
Paint of Pumping Unit					
Number of Valves	Gate Valve				
	Non-Returning Valve				
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)					
Sanctioned Load (Kwh)					
Motor Power (HP)					
Motor Make					
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		
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. Haroon		*Designation: Team Member*			 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*			 *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A1	Tube Well Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Asset Detail			Pictures
Name		T-Chowk No.2	

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Location	Latitude	30.3030			
	Longitude	71.9233			
Address					
Area (Marla/Kanal/Acres)		1			
Working Status		Functional	Non-Functional		
Installation Year of Tube Well		1987			
Installation Year of Pump		1987			
Capital Cost of Machinery					
Operational Hours					
Delivery Pipe	Dia				
	Material				
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					
Pump Make					
Discharge Capacity (Cusec)					
Rotational Speed (RPM)					
Housing Dia (inches)					
Bore Depth (ft.)					
Head (ft.)					
Impeller Installation Depth (ft.)					
Paint of Pumping Unit					
Number of Valves	Gate Valve				
	Non-Returning Valve				
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)					
Sanctioned Load (Kwh)					
Motor Power (HP)					
Motor Make					
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 Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

Integrated Development and Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A1	Tube Well Asset Condition Assessment					Asset Code: _____ Date: 03-05-2023
Asset Detail						Pictures
Name		T-Chowk Tehsil Fire Brigade				
Location	Latitude	30.30295				
	Longitude	71.9234				
Address						
Area (Marla/Kanal/Acres)		1				
Working Status		Functional	Non-Functional			
Installation Year of Tube Well		1998				
Installation Year of Pump		1998				
Capital Cost of Machinery						
Operational Hours						
Delivery Pipe	Dia					
	Material					
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						

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A1	Tube Well Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Pump Type					
Pump Make					
Discharge Capacity (Cusec)					
Rotational Speed (RPM)					
Housing Dia (inches)					
Bore Depth (ft.)					
Head (ft.)					
Impeller Installation Depth (ft.)					
Paint of Pumping Unit					
Number of Valves	Gate Valve				
	Non-Returning Valve				
Base Plate		Yes	No		
Electro-Mechanical Equipment Details					
Transformer Capacity (kVA)					
Sanctioned Load (Kwh)					
Motor Power (HP)					
Motor Make					
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		
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. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

B. OHR

Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
1	5 Marla Scheme	Not Available	Poor	Abandoned	0	25,000
2	3 Marla Scheme	Not Available	Poor	Abandoned	0	50,000
3	Public Health Office	Not Available	Poor	Non-Functional	0	50,000
4	T Chowk	Not Available	Fair	Functional		50,000
5	Peoples Colony	Not Available	Fair	Functional		50,000

Integrated Development And Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A2		Over Head Reservoir Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023	
Name		5 Marla Scheme			Pictures	
Location	Latitude	30.3234				
	Longitude	71.9223				
Address						
Year of Construction						
Capacity (UK Gallons)		25,000				
Cleaning Frequency (Per Year)		0				
Type of Structure		RCC				
Structure Condition		Good	Fair	Poor		
Tank Conditions		Good	Fair	Poor		
Number of Valves	Sluice Valve	4				
	Non-Returning Valve	1				
Working Status		Functional	Non-Functional			
Rising Main	Dia	8"				
	Material	Mild Steel				
Delivery Main	Dia	8"				
	Material	Mild Steel				
Overflow & Scour Pipe	Dia	6"				
	Material	Mild Steel				
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

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A2	Over Head Reservoir Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		3 Marla Scheme			Pictures
Location	Latitude	30.3029			
	Longitude	71.9412			
Address					
Year of Construction		2006			
Capacity (UK Gallons)		50,000			
Cleaning Frequency (Per Year)		0			
Type of Structure		RCC			
Structure Condition		Good	Fair	Poor	
Tank Conditions		Good	Fair	Poor	
Number of Valves	Sluice Valve	4			
	Non-Returning Valve	1			
Working Status		Functional	Non-Functional		
Rising Main	Dia	6"			
	Material	Mild Steel			
Delivery Main	Dia	8"			
	Material	Mild Steel			
Overflow & Scour Pipe	Dia	6"			
	Material	Mild Steel			
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

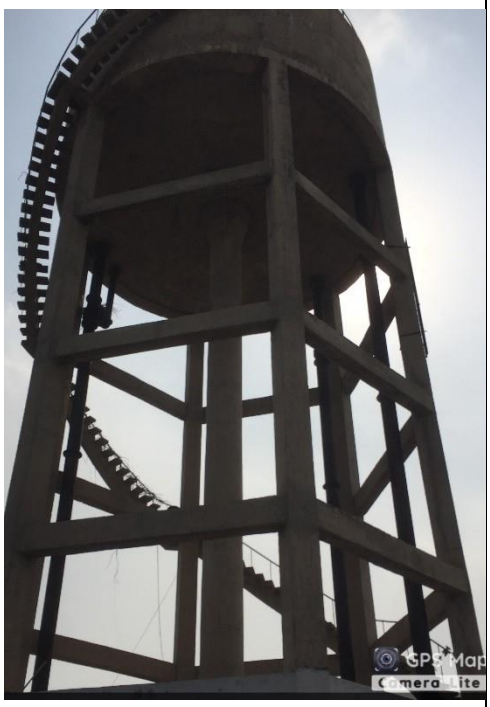
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A2		Over Head Reservoir Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023	
Name		Public Health Office			Pictures	
Location	Latitude	30.3130				
	Longitude	71.9259				
Address						
Year of Construction						
Capacity (UK Gallons)		50,000				
Cleaning Frequency (Per Year)		0				
Type of Structure		RCC				
Structure Condition		Good	Fair	Poor		
Tank Conditions		Good	Fair	Poor		
Number of Valves	Sluice Valve	4				
	Non-Returning Valve	1				
Working Status		Functional	Non-Functional			
Rising Main	Dia	8″				
	Material	Mild Steel				
Delivery Main	Dia	10″				
	Material	Mild Steel				
Overflow & Scour Pipe	Dia	6″				
	Material	Mild Steel				
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		



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. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A2	Over Head Reservoir Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		T Chowk			Pictures
Location	Latitude	30.3031			
	Longitude	71.9234			
Address					
Year of Construction		1987			
Capacity (UK Gallons)		50,000			
Cleaning Frequency (Per Year)		1			
Type of Structure		Masonry			
Structure Condition		Good	Fair	Poor	
Tank Conditions		Good	Fair	Poor	
Number of Valves	Sluice Valve	4			
	Non-Returning Valve	1			
Working Status		Functional	Non-Functional		
Rising Main	Dia	6″			
	Material	Mild Steel			
Delivery Main	Dia	8″			
	Material	Mild Steel			
Overflow & Scour Pipe	Dia	6″			
	Material	Mild Steel			
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	
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. Haroon	*Designation: Team Member*	*Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	*Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A2	Over Head Reservoir Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		Peoples Colony			Pictures
Location	Latitude	30.3060			
	Longitude	71.9381			
Address					
Year of Construction		1992			
Capacity (UK Gallons)		50,000			
Cleaning Frequency (Per Year)		1			
Type of Structure		Masonry			
Structure Condition		Good	Fair	Poor	
Tank Conditions		Good	Fair	Poor	
Number of Valves	Sluice Valve	4			
	Non-Returning Valve	1			
Working Status		Functional	Non-Functional		
Rising Main	Dia	8"			
	Material	Mild Steel			
Delivery Main	Dia	10"			
	Material	Mild Steel			
Overflow & Scour Pipe	Dia	6"			
	Material	Mild Steel			
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	
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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

C. Water Supply Network

Sr #	Dia	Length (meter)	Age (Years)	Condition	Material	Book Value (PKR Mil)
1	3"	39971	38	Failing	AC	0
2	4"	5684	38	Failing	AC	0
3	6"	10388	38	Failing	AC	0
4	8"	1852	38	Failing	AC	0
5	10"	2347	38	Failing	AC	0
6	3"	59957	5	Excellent	UPVC	94
7	4"	8525	5	Excellent	UPVC	16
8	6"	15581	5	Excellent	UPVC	38
9	8"	2778	5	Excellent	UPVC	8.6
10	10"	3520	5	Excellent	UPVC	12.4

Integrated Development And Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A5	Water Supply Network Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023

Description	Area (Acres)	Percentage
Served Area	4523	47
Contaminated Area		
Water Shortage Area	43	1
Unserved Area	5166	53

Latest water quality analysis carried out for community network?	Yes	No
If yes, which lab and parameters?		
Findings of water quality analysis?		
In case of any parameter above the permissible limit of PEQSs, which steps are taken to provide safe drinking water to the consumers?		
Any complaints of water contamination received from the consumers?	Yes	No
If yes, which steps were taken to resolve the complaints?		

Pipe Dia (inches)	Pipe Material	Length (m)	Year of Laying	Age of Pipe
3	AC	39,971	1985	38
4	AC	5,684	1985	38
6	AC	10,388	1985	38
8	AC	1,852	1985	38
10	AC	2,347	1985	38
3	UPVC	59,957	2018	5

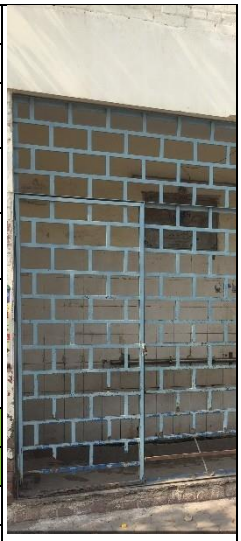
4	UPVC	8,525	2018	5
6	UPVC	15,581	2018	5
8	UPVC	2,778	2018	5
10	UPVC	3,520	2018	5

Remarks / Requirements		
• No remarks		
Data Collected By: Mr. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

D. Filtration Plant

Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Mil)	Type	Filtration Capacity (Liters/hour)
1	T-Chowk	15	Fair	Functional	0.3	UF	2000
2	People's Colony	17	Good	Functional	0.3	UF	2000
3	Nizamabad Pulli	5	Good	Functional	1.3	UF	2000
4	Zahoorabad	9	Fair	Functional	0.9	UF	2000
5	Highway Office (Lhr Morr)	10	Fair	Functional	0.9	UF	2000
6	Habit Kot	5	Fair	Functional	1.4	RO	1000
7	City Park	5	Fair	Functional	1.3	UF	2000
8	Nasir Park Tariqabad	5	Fair	Functional	1.3	UF	2000
9	Ahata Kachahri	11	Poor	Functional	0.8	UF	2000
10	Colony no 2	11	Fair	Functional	0.8	UF	2000
11	Jamia Saedia	6	Fair	Functional	1.2	UF	2000
12	Jaswan Nagar	11	Poor	Functional	0.8	UF	2000
13	Colony no 1	11	Poor	Functional	0.8	UF	2000
14	Bukhtyari Garden	5	Fair	Functional	1.4	UF	2000
15	Deene wala	9	Fair	Functional	0.9	UF	2000
16	Kot Ala Singh	5	Good	Functional	1.4	UF	2000
17	Chak 84/10 R	5	Fair	Functional	1.4	RO	1000
18	Chak 88/10 R	11	Poor	Functional	0.8	UF	2000

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Name		T-Chowk	Pictures
Location	Latitude	30.3029	
	Longitude	71.9234	
Address			
Installation Year		2008	
Installing Agency		TMA	
O&M Agency		MC	
Filtration Capacity (Liter/Hour)		2000	
Operational Hours		6	

No. of Taps	4			
Effluent Test (If Available)				
Latest water quality analysis carried out?				
If yes, which lab and parameters?				
Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type	RO		UF	
Source of Water	Local Tube Well		Public Water Supply	
Working Status	Functional		Non-Functional	
Pumping Unit	Yes		No	
Control Panel	Yes		No	
Service Cable	Yes		No	
Ultraviolet Lamp	Yes		No	
Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		People's Colony			Pictures
Location	Latitude	30.3060			
	Longitude	71.9381			
Address					
Installation Year		2006			
Installing Agency		TMA			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		6			
No. of Taps		10			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO		UF	
Source of Water		Local Tube Well		Public Water Supply	
Working Status		Functional		Non-Functional	
Pumping Unit		Yes		No	
Control Panel		Yes		No	
Service Cable		Yes		No	
Ultraviolet Lamp		Yes		No	
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi

		Sign & Date: 30 May 2023

Integrated Development And Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		Nizamabad Pulli				Pictures
Location	Latitude	30.3091				
	Longitude	71.9440				
Address						
Installation Year		2018				
Installing Agency		PHED				
O&M Agency		MC				
Filtration Capacity (Liter/Hour)		2000				
Operational Hours		6				
No. of Taps		5				
Effluent Test (If Available)						
Latest water quality analysis carried out?						
If yes, which lab and parameters?						
Findings of water quality analysis?						
In case of any parameter above the permissible limit, which steps are taken to provide safe water?						
Plant Type		RO		UF		
Source of Water		Local Tube Well		Public Water Supply		
Working Status		Functional		Non-Functional		
Pumping Unit		Yes		No		
Control Panel		Yes		No		
Service Cable		Yes		No		
Ultraviolet Lamp		Yes		No		
Takeaway Hall Condition		Good	Fair		Poor	
Building Structure Condition		Good	Fair		Poor	
Approach to Pump House		Good	Fair		Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*

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

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Zahoorabad			Pictures
Location	Latitude	30.3159			
	Longitude	71.9565			
Address					
Installation Year		2014			
Installing Agency		TMA			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		6			
No. of Taps		5			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO		UF	
Source of Water		Local Tube Well		Public Water Supply	
Working Status		Functional		Non-Functional	
Pumping Unit		Yes		No	
Control Panel		Yes		No	
Service Cable		Yes		No	
Ultraviolet Lamp		Yes		No	
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

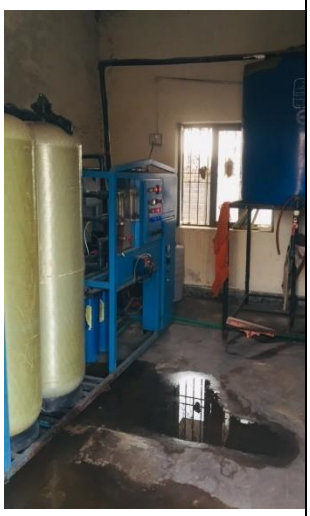
Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	*Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	*Sign & Date: 30 May 2023*

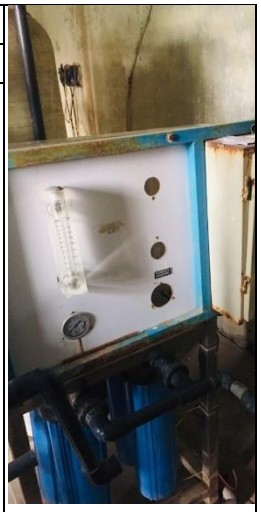
Integrated Development And Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		Highway Office (Lhr Morr)				Pictures
Location	Latitude	30.3179				
	Longitude	71.9215				
Address						
Installation Year		2013				
Installing Agency		PHED				
O&M Agency		MC				
Filtration Capacity (Liter/Hour)		2000				
Operational Hours		6				
No. of Taps		5				
Effluent Test (If Available)						
Latest water quality analysis carried out?						
If yes, which lab and parameters?						
Findings of water quality analysis?						
In case of any parameter above the permissible limit, which steps are taken to provide safe water?						
Plant Type		RO		UF		
Source of Water		Local Tube Well		Public Water Supply		
Working Status		Functional		Non-Functional		
Pumping Unit		Yes		No		
Control Panel		Yes		No		
Service Cable		Yes		No		
Ultraviolet Lamp		Yes		No		
Takeaway Hall Condition		Good	Fair	Poor		
Building Structure Condition		Good	Fair	Poor		
Approach to Pump House		Good	Fair	Poor		
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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Habit Kot		Pictures
Location	Latitude	30.3080		
	Longitude	71.9213		
Address				
Installation Year		2018		
Installing Agency		PHED		
O&M Agency		MC		
Filtration Capacity (Liter/Hour)		1000		
Operational Hours		6		
No. of Taps		8		
Effluent Test (If Available)				
Latest water quality analysis carried out?				
If yes, which lab and parameters?				
Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type		RO		UF
Source of Water		Local Tube Well		Public Water Supply
Working Status		Functional		Non-Functional
Pumping Unit		Yes		No
Control Panel		Yes		No
Service Cable		Yes		No
Ultraviolet Lamp		Yes		No
Takeaway Hall Condition		Good	Fair	Poor
Building Structure Condition		Good	Fair	Poor
Approach to Pump House		Good	Fair	Poor

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. Haroon		*Designation: Team Member*		*Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		*Sign & Date: 30 May 2023*	

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Name	City Park		Pictures
Location – Latitude	30.3003		
Location – Longitude	71.9159		
Address			
Installation Year	2018		
Installing Agency	PHED		
O&M Agency	MC		
Filtration Capacity (Liter/Hour)	2000		
Operational Hours	6		
No. of Taps	8		
Effluent Test (If Available)			
Latest water quality analysis carried out?			
If yes, which lab and parameters?			
Findings of water quality analysis?			
In case of any parameter above the permissible limit, which steps are taken to provide safe water?			
Plant Type	RO	UF	
Source of Water	Local Tube Well	Public Water Supply	
Working Status	Functional	Non-Functional	
Pumping Unit	Yes	No	
Control Panel	Yes	No	
Service Cable	Yes	No	
Ultraviolet Lamp	Yes	No	

Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023
Name		Nasir Park Tariqabad	Pictures
Location	Latitude	30.2959	
	Longitude	71.9125	
Address			
Installation Year		2018	
Installing Agency		PHED	
O&M Agency		MC	
Filtration Capacity (Liter/Hour)		2000	
Operational Hours		6	
No. of Taps		6	
Effluent Test (If Available)			
Latest water quality analysis carried out?			
If yes, which lab and parameters?			

Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type	RO		UF	
Source of Water	Local Tube Well		Public Water Supply	
Working Status	Functional		Non-Functional	
Pumping Unit	Yes		No	
Control Panel	Yes		No	
Service Cable	Yes		No	
Ultraviolet Lamp	Yes		No	
Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Name		Ahata Kachahri	Pictures
Location	Latitude	30.301944	
	Longitude	71.926944	
Address			
Installation Year		2012	
Installing Agency		TMA	

O&M Agency	MC			
Filtration Capacity (Liter/Hour)	2000			
Operational Hours	6			
No. of Taps	7			
Effluent Test (If Available)				
Latest water quality analysis carried out?				
If yes, which lab and parameters?				
Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type	RO	UF		
Source of Water	Local Tube Well	Public Water Supply		
Working Status	Functional	Non-Functional		
Pumping Unit	Yes	No		
Control Panel	Yes	No		
Service Cable	Yes	No		
Ultraviolet Lamp	Yes	No		
Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Name		Colony no 2	Pictures
Location	Latitude	30.2951	

Longitude	71.9288			
Address				
Installation Year	2012			
Installing Agency	TMA			
O&M Agency	MC			
Filtration Capacity (Liter/Hour)	2000			
Operational Hours	6			
No. of Taps	10			
Effluent Test (If Available)				
Latest water quality analysis carried out?				
If yes, which lab and parameters?				
Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type	RO	UF		
Source of Water	Local Tube Well	Public Water Supply		
Working Status	Functional	Non-Functional		
Pumping Unit	Yes	No		
Control Panel	Yes	No		
Service Cable	Yes	No		
Ultraviolet Lamp	Yes	No		
Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Municipal Committee Khanewal					
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Jamia Saedia			Pictures
Location	Latitude	30.2910			
	Longitude	71.9277			
Address					
Installation Year		2017			
Installing Agency		PHED			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		6			
No. of Taps		8			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO		UF	
Source of Water		Local Tube Well		Public Water Supply	
Working Status		Functional		Non-Functional	
Pumping Unit		Yes		No	
Control Panel		Yes		No	
Service Cable		Yes		No	
Ultraviolet Lamp		Yes		No	
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*

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

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A4		Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Jaswan Nagar			Pictures
Location	Latitude	30.2939			
	Longitude	71.9316			
Address					
Installation Year		2012			
Installing Agency		TMA			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		6			
No. of Taps		6			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO		UF	
Source of Water		Local Tube Well		Public Water Supply	
Working Status		Functional		Non-Functional	
Pumping Unit		Yes		No	
Control Panel		Yes		No	
Service Cable		Yes		No	
Ultraviolet Lamp		Yes		No	
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Colony no 1		Pictures
Location	Latitude	30.2928		
	Longitude	71.9240		
Address				
Installation Year		2012		
Installing Agency		TMA		
O&M Agency		MC		
Filtration Capacity (Liter/Hour)		2000		
Operational Hours		6		
No. of Taps		8		
Effluent Test (If Available)				
Latest water quality analysis carried out?				
If yes, which lab and parameters?				
Findings of water quality analysis?				
In case of any parameter above the permissible limit, which steps are taken to provide safe water?				
Plant Type		RO	UF	
Source of Water		Local Tube Well	Public Water Supply	
Working Status		Functional	Non-Functional	
Pumping Unit		Yes	No	
Control Panel		Yes	No	
Service Cable		Yes	No	
Ultraviolet Lamp		Yes	No	
Takeaway Hall Condition		Good	Fair	Poor
Building Structure Condition		Good	Fair	Poor
Approach to Pump House		Good	Fair	Poor
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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
Name		Bukhtyari Garden	Pictures
Location	Latitude	30.2806	
	Longitude	71.9085	
Address			
Installation Year		2018	
Installing Agency		PHED	
O&M Agency		MC	
Filtration Capacity (Liter/Hour)		2000	
Operational Hours		6	
No. of Taps		6	
Effluent Test (If Available)			
Latest water quality analysis carried out?			
If yes, which lab and parameters?			
Findings of water quality analysis?			
In case of any parameter above the permissible limit, which steps are taken to provide safe water?			
Plant Type		RO	UF

Source of Water	Local Tube Well		Public Water Supply	
Working Status	Functional		Non-Functional	
Pumping Unit	Yes		No	
Control Panel	Yes		No	
Service Cable	Yes		No	
Ultraviolet Lamp	Yes		No	
Takeaway Hall Condition	Good	Fair	Poor	
Building Structure Condition	Good	Fair	Poor	
Approach to Pump House	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023

Name		Deene wala	Pictures
Location	Latitude	30.3339	
	Longitude	71.8977	
Address			
Installation Year		2014	
Installing Agency		TMA	
O&M Agency		MC	
Filtration Capacity (Liter/Hour)		2000	
Operational Hours		3	
No. of Taps		6	
Effluent Test (If Available)			

Latest water quality analysis carried out?			
If yes, which lab and parameters?			
Findings of water quality analysis?			
In case of any parameter above the permissible limit, which steps are taken to provide safe water?			
Plant Type	RO	UF	
Source of Water	Local Tube Well	Public Water Supply	
Working Status	Functional	Non-Functional	
Pumping Unit	Yes	No	
Control Panel	Yes	No	
Service Cable	Yes	No	
Ultraviolet Lamp	Yes	No	
Takeaway Hall Condition	Good	Fair	Poor
Building Structure Condition	Good	Fair	Poor
Approach to Pump House	Good	Fair	Poor

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023

Name		Kot Ala Singh			Pictures
Location	Latitude	30.2850			
	Longitude	71.9171			
Address					
Installation Year		2018			
Installing Agency		PHED			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		3			
No. of Taps		10			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO		UF	
Source of Water		Local Tube Well		Public Water Supply	
Working Status		Functional		Non-Functional	
Pumping Unit		Yes		No	
Control Panel		Yes		No	
Service Cable		Yes		No	
Ultraviolet Lamp		Yes		No	
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi

		Sign & Date: 30 May 2023

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		Chak 84/10 R			Pictures
Location	Latitude	30.3209			
	Longitude	71.9803			
Address					
Installation Year		2018			
Installing Agency		PHED			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		1000			
Operational Hours		6			
No. of Taps		4			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO	UF		
Source of Water		Local Tube Well	Public Water Supply		
Working Status		Functional	Non-Functional		
Pumping Unit		Yes	No		
Control Panel		Yes	No		
Service Cable		Yes	No		
Ultraviolet Lamp		Yes	No		
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development And Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A4	Water Filtration Plant Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023	
Name		Chak 88/10 R		Pictures	
Location	Latitude	30.2952			
	Longitude	71.9527			
Address					
Installation Year		2012			
Installing Agency		CCB			
O&M Agency		MC			
Filtration Capacity (Liter/Hour)		2000			
Operational Hours		6			
No. of Taps		8			
Effluent Test (If Available)					
Latest water quality analysis carried out?					
If yes, which lab and parameters?					
Findings of water quality analysis?					
In case of any parameter above the permissible limit, which steps are taken to provide safe water?					
Plant Type		RO	UF		
Source of Water		Local Tube Well	Public Water Supply		
Working Status		Functional	Non-Functional		
Pumping Unit		Yes	No		
Control Panel		Yes	No		
Service Cable		Yes	No		
Ultraviolet Lamp		Yes	No		
Takeaway Hall Condition		Good	Fair	Poor	
Building Structure Condition		Good	Fair	Poor	
Approach to Pump House		Good	Fair	Poor	

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. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

E. . Vehicles/ Machinery

Sr #	Name	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Mil	Capacity
1	Water Bowser-ISUZU	No Registration	17	Fair	Functional	0.5	4334 cc
2	Water Bowser-Millat	KWB 1279	27	Poor	Functional	0.2	

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Water Bowser	

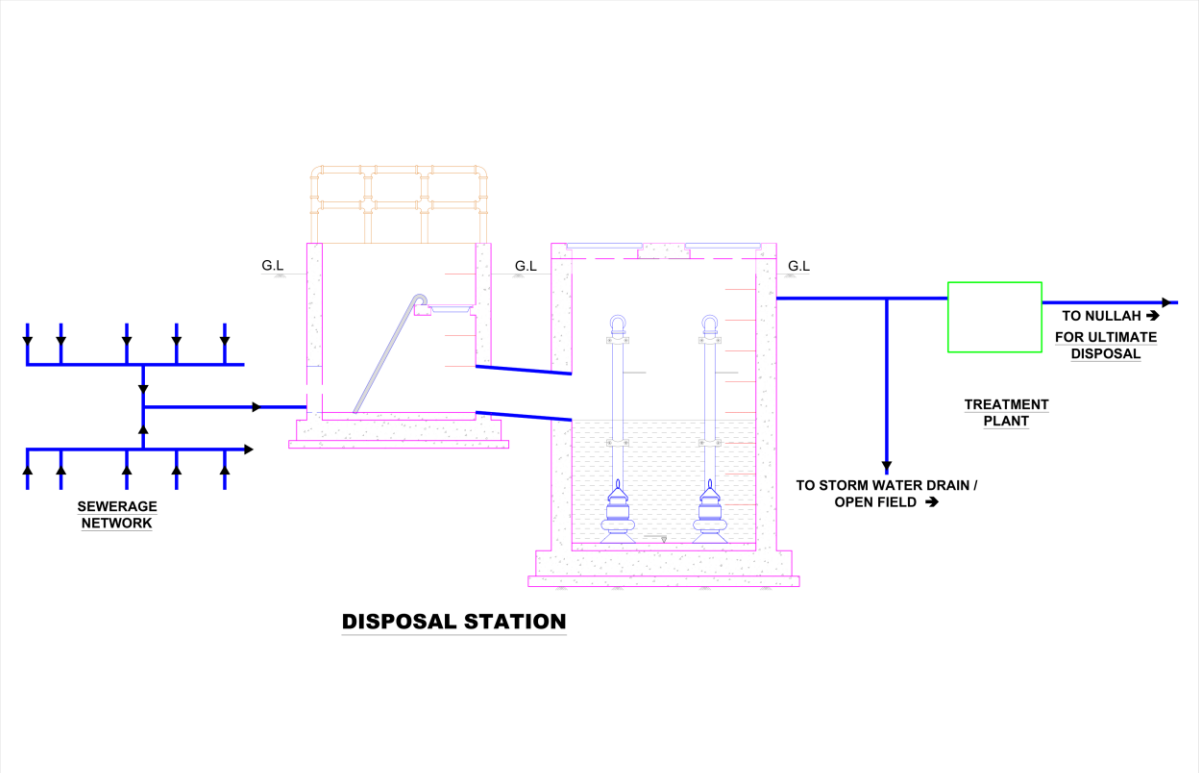
	Water Bowser-ISUZU	Water Bowser-Millat
Capacity	500 gallons	500 gallons
Purpose	Water Supply	Water Supply
Year of Manufacturing	2006	1996
Model	NPR	MF 240
Capital Cost		
Fuel Consumption	715	360
Condition	Fair	Fair
Engine Capacity	4334cc	50hp
Maintenance Cost	Not Available	Not Available
Oiling /Fitness	Yes	Yes
Fitness Certificate	No	No
Registered	No Registration	KWB 1279
Overall Rating	Fair	Fair

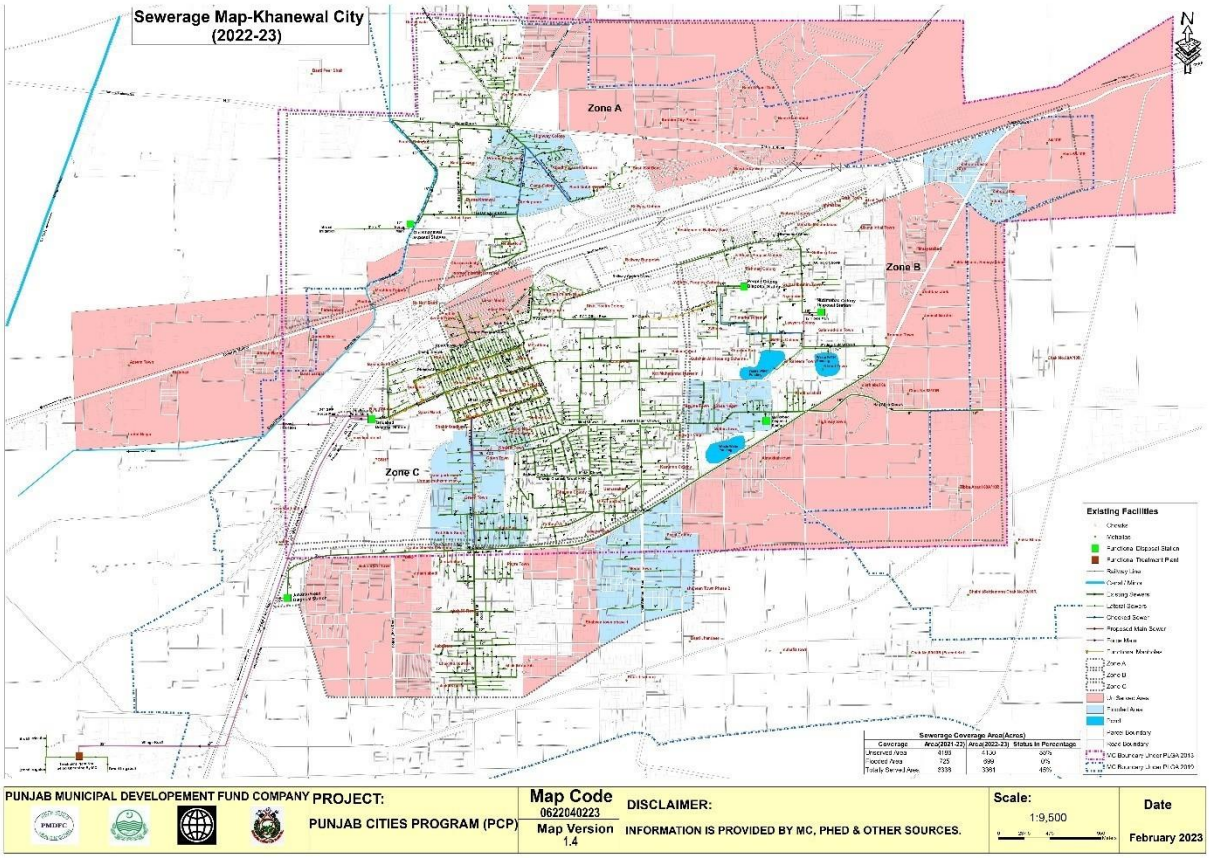
Remarks / Requirements		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*

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

2. SEWERAGE

Key Components of a Sewerage System




Sewerage Map-Khanewal City
(2022-23)
N
Zone A
Zone B
Zone C
Existing Facilities
Sewerage Coverage Area(Acres)
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0622040223
Map Version
1.4
DISCLAIMER:
INFORMATION IS PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:9,500
Date
February 2023

A. Sewerage Network

Sr #	Dia	Length (meter)	Age (Years)	Condition	Book Value (PKR Mil)	Material
1	9″	91027	16	Fair	0.1	RCC
2	12″	20747	16	Fair	0.7	RCC
3	15″	10186	16	Fair	0.3	RCC
4	18″	10011	16	Fair	3.2	RCC
5	21"	2648	16	Fair	2.4	RCC
6	24″	5022	16	Fair	0.2	RCC
7	27"	1559	16	Fair	0.1	RCC
8	30"	2948	16	Fair	0.1	RCC
9	33"	8376	16	Fair	0.7	RCC
10	36"	963	16	Fair	0.3	RCC
11	42"	757	16	Fair	3.2	RCC
13	12″	19496	7	Excellent	2.4	RCC
14	15″	6472	7	Excellent	0.2	RCC
15	18″	7913	7	Excellent	0.1	RCC
16	21"	1698	7	Excellent	0.1	RCC
17	24″	1747	7	Excellent	0.7	RCC
18	27"	1466	7	Excellent	0.3	RCC
19	30"	2948	7	Excellent	3.2	RCC
20	33"	1370	7	Excellent	2.4	RCC
21	36"	4290	7	Excellent	0.2	RCC
22	42"	757	7	Excellent	0.1	RCC

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A6	Sewerage Network Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023

Description	Area (Acres)	Percentage
Served Area	3361	45
Flooded Area	699	21
Unserved Area	4130	55
Type and number of complaints received to MC regarding sewerage system?	65	
Steps considered by MC to resolve the complaints		

Pipe Dia (inches)	Pipe Material	Length (m)	No. of Manholes	Year of Laying	Age of Pipe
9	RCC	91027	5973	2007	16
12	RCC	20747	681	2007	16
15	RCC	10186	223	2007	16
18	RCC	10011	164	2007	16
21	RCC	2648	35	2007	16

24	RCC	5022	66	2007	16
27	RCC	1559	17	2007	16
30	RCC	2948	32	2007	16
33	RCC	8376	92	2007	16
36	RCC	963	11	2007	16
42	RCC	757	8	2007	16
12	RCC	19496	640	2016	7
15	RCC	6472	142	2016	7
18	RCC	7913	130	2016	7
21	RCC	1698	22	2016	7
24	RCC	1747	23	2016	7
27	RCC	1466	16	2016	7
30	RCC	2948	32	2016	7
33	RCC	1370	15	2016	7
36	RCC	4290	47	2016	7
42	RCC	757	8	2016	7
Remarks / Requirements					
• No remarks					
Data Collected By: Mr. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

B. Disposal Station

Sr #	Name	Age (Years)		Condition	Status	Book Value (PKR Mil)	Nos. of pump	Discharge Each (Cusec)	Motor hp	Pump Make	Motor Make
		Civil Structure	Pump								
1	Old Khanewal	19	19	Poor	Functional	0.1	2	4	50	KSB	Siemens
2	Ahmad nagar	6	6	Fair	Functional	0.7	1	2	20	KSB	Siemens
3	Jahaniyan Bypass	16	16	Fair	Functional	0.3	4 (2 Non-Functional)	4	40	KSB	Siemens
4	Tariqabad	6	6	Good	Functional	3.2	3	5	60	KSB	Siemens
5	Adiwala	7	7	Good	Functional	2.4	2	4	50	KSB	Siemens
6	Nizamabad	7	7	Poor	Non-Functional	0.2	1	1.5	15	KSB	Siemens
7	Malikabad	16	16	Poor	Functional	0.1	1	2	20	KSB	Siemens
8	People's colony	25	25	Poor	Functional	0.1	2 (1 non-functional)	1.5	25	KSB	Siemens

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment				Asset Code: _____ Date: 04-05-2023
Asset Detail					Pictures
Name		Adiwala (UCMS) Disposal Station			
Location	Latitude	30.330412			
	Longitude	71.908727			
Address		UCMS, Canal Road			
Area (Acres)		0.42 acres			
Installation Year		2016			
Capital Cost of Machinery		N/A			
Outfall Drain Sewer	Dia	27"			
	Material	RCC			
Screening Chamber	No. of Screens	1			
	Screen Condition	Good	Fair	Poor	
	Chamber Structure	Brick masonry			
Wet Wells	Number	2 Nos.			
	Shape	Rectangular	Circular		

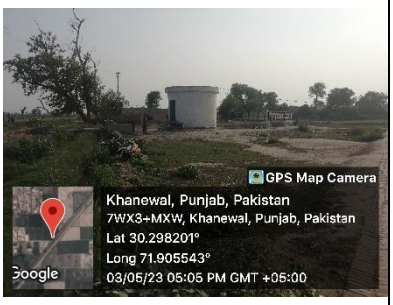
Integrated Development and Asset Management Plan (IDAMP)				
	Size	20 ft		
	Structure	Masonry	RCC	
	Railing	Yes	No	
Force Main	No. of force mains	1		
	Dia	12"		
	Material	GRP		
	Starting Point	Disposal station		
	Ending Point	Jamsabad Minor		
	Length	145 ft up discharge chamber		
Sullage Carrier	Size	-		
	Shape	-		
	Length	-		
	Condition	-		
Delivery Pipe	Dia	8"		
	Material	CI		
Suction Pipe	Dia	12"		
	Material	CI		
Number of Valves	Sluice Valves	4		
	Non-Return Valves	2		
	Penstock Valves	2		
Ultimate Disposal		Jamsabad Minor		
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)		3275		
Ultimate disposal of wastewater?		Jamsabad Minor + fields		
Electro-Mechanical Equipment Details				
Number of WAPDA Feeders		1		
Transformer Capacity (kVA)		50 KVA		
Number of MCU		2		
Sanctioned Load (kWh)		N/A		
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	

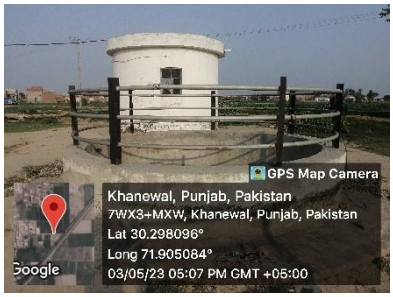
Integrated Development and Asset Management Plan (IDAMP)						
					
Pump Detail						
	Pump A		**Pump B**			
Pump Type	Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging			
Pump Brand	KSB		KSB			
Pump Paint	yes		yes			
Motor Brand	Siemens		Siemens			
Installation Year of Pump	2004		2004			
Discharge Capacity (Cusecs)	4 cusecs		4 cusecs			
Rotational Speed (RPM)	960		960			
Head (ft.)	50		50			
Motor Power (HP)	50 HP		50 HP			
Pump Daily Running Time (Hours)	4 hrs		4 hrs			
Base Plate	Yes	No	Yes	No	Yes	No
Number of Valves – **Sluice Valve**	4					
Number of Valves – **Non-Returning Valve**	2					

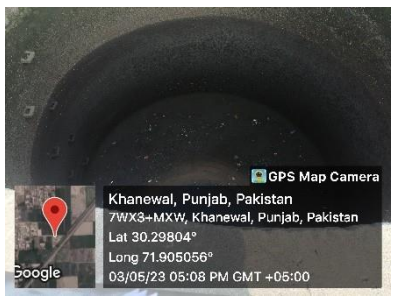
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements		
• Pump house staircase dangerous • Vibrations in pumps, needs supports		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		Ahmad Nagar Disposal Station			
Location	Latitude	30.297971			
	Longitude	71.905178			
Address		Ahmad Nagar			
Area (Acres)		0.40 acres			
Installation Year		2017			
Capital Cost of Machinery					
Outfall Drain Sewer	Dia	12"			
	Material	RCC			
Screening Chamber	No. of Screens	1			
	Screen Condition	Good	Fair	Poor	
	Chamber Structure	Brick masonry			
Wet Wells	Number	1			
	Shape	Rectangular	Circular		
	Size	12 ft			
	Structure	Masonry	RCC		
	Railing	Yes	No		
Force Main	No. of force mains	-			
	Dia	-			
	Material	-			
	Starting Point	-			
	Ending Point	-			
	Length	-			
Sullage Carrier	Size	-			
	Shape	-			
	Length	-			
	Condition	-			
Delivery Pipe	Dia	8"			
	Material	CI			
Suction Pipe	Dia	6"			
	Material	MS			
Number of Valves	Sluice Valves	2			
	Non-Return Valves	1			
	Penstock Valves	1			
Ultimate Disposal		Nanakpur Minor			
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)		3840			
Ultimate disposal of wastewater?		Nanakpur minor			







Integrated Development and Asset Management Plan (IDAMP)			
Electro-Mechanical Equipment Details			
Number of WAPDA Feeders	1		
Transformer Capacity (kVA)	25 KVA		
Number of MCU	1		
Sanctioned Load (kWh)			
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 Type		Centrifugal/ Non-Clogging	
Pump Brand		KSB	
Pump Paint		yes	
Motor Brand		Siemens	
Installation Year of Pump		2017	
Discharge Capacity (Cusecs)		2	
Rotational Speed (RPM)		960	
Head (ft.)		40	
Motor Power (HP)		25	
Pump Daily Running Time (Hours)		8-10 hrs	
Base Plate		Yes	No
Number of Valves	Sluice Valve	2	
	Non-Returning Valve	1	

Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

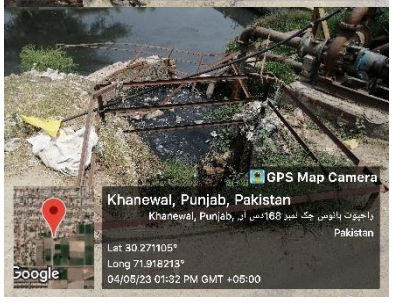
Remarks / Requirements

- There is no boundary wall and gate in this disposal station
- There is no washroom in this disposal station
- Widening of culvert for direct access of vehicle is missing.
- Penstock gate is not available
- Fan required
- Replacement of wiring required.

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon

Integrated Development and Asset Management Plan (IDAMP)		
		Sign & Date: 30 May 2023
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment			Asset Code: _____ Date: 04-05-2023
Asset Detail				**Pictures**
Name		Chak 168 Disposal Station		
Location	Latitude	30.271034		
	Longitude	71.918208		
Address		Chak 168, Ahmar ROAD		
Area (Acres)		0.1 acres		
Installation Year		--		
Capital Cost of Machinery		--		
Outfall Drain Sewer	Dia	18"		
	Material	RCC		
Screening Chamber	No. of Screens	-		
	Screen Condition	Good	Fair	Poor
	Chamber Structure	-		
Wet Wells	Number	1		
	Shape	Rectangular	Circular	
	Size	8 ft (damaged)		
	Structure	Masonry	RCC	
	Railing	Yes	No	
Force Main	No. of force mains	1		
	Dia	damaged		
	Material	-		
	Starting Point	Pump house		
	Ending Point	damaged		
	Length	-		
Sullage Carrier	Size	-		
	Shape	-		
	Length	-		
	Condition	-		
Delivery Pipe	Dia	-		
	Material	-		
Suction Pipe	Dia	-		
	Material	-		
Number of Valves	Sluice Valves	-		
	Non-Return Valves	-		
	Penstock Valves	-		
Ultimate Disposal		fields		
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



Integrated Development and Asset Management Plan (IDAMP)		
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)		
Ultimate disposal of wastewater?	Fields	

Electro-Mechanical Equipment Details		
Number of WAPDA Feeders	1	
Transformer Capacity (kVA)	50 KVA (under repairing)	
Number of MCU	-	
Sanctioned Load (kWh)	6	
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 Type	Peter Engine only							
Pump Brand								
Pump Paint								
Motor Brand								
Installation Year of Pump								
Discharge Capacity (Cusecs)								
Rotational Speed (RPM)								
Head (ft.)								
Motor Power (HP)								
Pump Daily Running Time (Hours)								
Base Plate	Yes	No	Yes	No	Yes	No	Yes	No
Number of Valves – Sluice Valve	1							
Number of Valves – Non-Returning Valve	1							

Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements

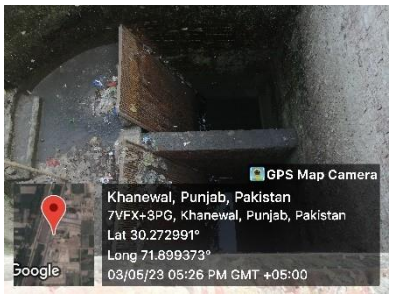
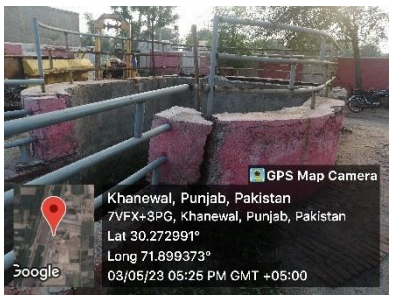
- As such, this is totally damaged disposal and only working with peter engine, when diesel available.
- Required to build this disposal totally new.

Integrated Development and Asset Management Plan (IDAMP)		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

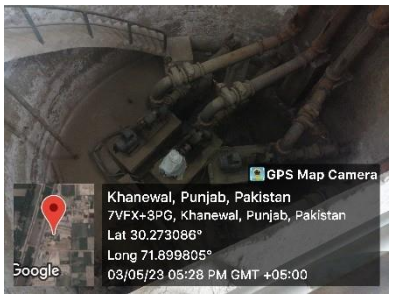
Integrated Development and Asset Management Plan (IDAMP)

Municipal Committee Khanewal

Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment	Asset Code: _____ Date: 03-05-2023

Asset Detail					Pictures
Name		Jahanian Disposal Station			
Location	Latitude	30.273029			
	Longitude	71.899598			
Address		Jahanian Bypass			
Area (Acres)		0.49 acres			
Installation Year		2007			
Capital Cost of Machinery		--			
Outfall Drain Sewer	Dia	36"			
	Material	RCC			
Screening Chamber	No. of Screens	1			
	Screen Condition	Good	Fair	Poor	
	Chamber Structure	Wall is dismantled at places			
Wet Wells	Number	2 Nos.			
	Shape	Rectangular	Circular		
	Size	25 ft			
	Structure	Masonry	RCC		
	Railing	Yes	No		
Force Main	No. of force mains	1			
	Dia	24" force main to 32" dia force main to WWTP			
	Material	GRP			
	Starting Point	Pump house			
	Ending Point	Jahanian bypass			
	Length	170 ft			
Sullage Carrier	Size	-			
	Shape	-			
	Length	-			
	Condition	-			
Delivery Pipe	Dia	12"			
	Material	CI			
Suction Pipe	Dia	8"			
	Material	CI			
Number of Valves	Sluice Valves	8			
	Non-Return Valves	4			
	Penstock Valves	1			
Ultimate Disposal		Nanakpur Minor			

Integrated Development and Asset Management Plan (IDAMP)			
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)	6550		
Ultimate disposal of wastewater?	Nanakpur minor		
Electro-Mechanical Equipment Details			
Number of WAPDA Feeders	1		
Transformer Capacity (kVA)	100 KVA		
Number of MCU	1		
Sanctioned Load (kWh)	119		
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 Type		Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging	
Pump Brand		KSB		KSB		KSB		KSB	
Pump Paint		yes		yes		yes		yes	
Motor Brand		Siemens		Siemens		Siemens		Siemens	
Installation Year of Pump		2007		2007		2007		2007	
Discharge Capacity (Cusecs)		4		4		4		4	
Rotational Speed (RPM)		978		978		978		978	
Head (ft.)		50		50		50		50	
Motor Power (HP)		40		40		40		40	
Pump Daily Running Time (Hours)		8 hrs		8 hrs		0 (non-functional)		0 (non-functional)	
Base Plate		Yes	No	Yes	No	Yes	No	Yes	No
Number of Valves	Sluice Valve	8							
	Non-Returning Valve	4							

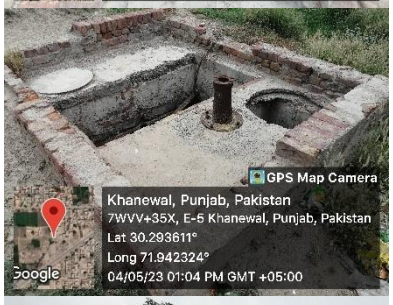
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements

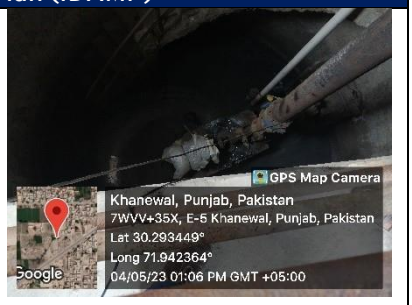
- 2 Pumps are not working
- Sewerage PC-1 amounting 970 millions has already considered its rehabilitation

Integrated Development and Asset Management Plan (IDAMP)		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment			Asset Code: _____ Date: 04-05-2023
Asset Detail				**Pictures**
Name		Malkaabad Disposal Station		
Location	Latitude	30.293491		
	Longitude	71.942264		
Address		Near Khanewal Lodran Road and Farm Road		
Area (Acres)		0.42 acres		
Installation Year		2006-2007		
Capital Cost of Machinery		--		
Outfall Drain Sewer	Dia	18"		
	Material	RCC		
Screening Chamber	No. of Screens	1		
	Screen Condition	Good	Fair	Poor
	Chamber Structure	Walls dismantled, not installed properly, no walls above ground		
Wet Wells	Number	1		
	Shape	Rectangular		Circular
	Size	18 ft		
	Structure	Masonry		RCC
	Railing	Yes		No
Force Main	No. of force mains	1		
	Dia	12" (damaged and choked)		
	Material	AC		
	Starting Point	Pump house		
	Ending Point	damaged		
	Length	600ft		
Sullage Carrier	Size	-		
	Shape	-		
	Length	-		
	Condition	-		
Delivery Pipe	Dia	18"		
	Material	MS		
Suction Pipe	Dia	8"		
	Material	CI		
Number of Valves	Sluice Valves	2		
	Non-Return Valves	1		
	Penstock Valves	Not functional		
Ultimate Disposal		Pond and fields		



Integrated Development and Asset Management Plan (IDAMP)				
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)	3275			
Ultimate disposal of wastewater?	Pond and fields			
Electro-Mechanical Equipment Details				
Number of WAPDA Feeders	1			
Transformer Capacity (kVA)	50 KVA			
Number of MCU	1			
Sanctioned Load (kWh)	15			
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 Type		Centrifugal/ Non-Clogging							
Pump Brand		KSB							
Pump Paint		no							
Motor Brand		Siemens							
Installation Year of Pump		2017							
Discharge Capacity (Cusecs)		2							
Rotational Speed (RPM)		980							
Head (ft.)		40							
Motor Power (HP)		25							
Pump Daily Running Time (Hours)		16 hrs							
Base Plate		Yes	No	Yes	No	Yes	No	Yes	No
Number of Valves	Sluice Valve	2							
	Non-Returning Valve	1							

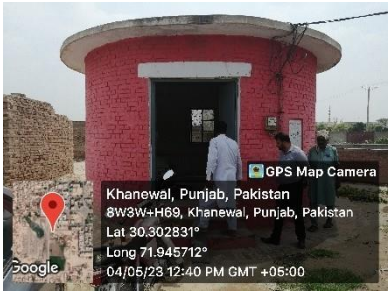
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

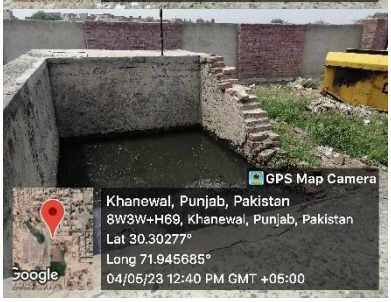
Remarks / Requirements

- Rainwater enters into Pump House due to damaged ceiling
- 1 pump required
- Walls of screening chamber, wet-well and discharge box damaged and without railings

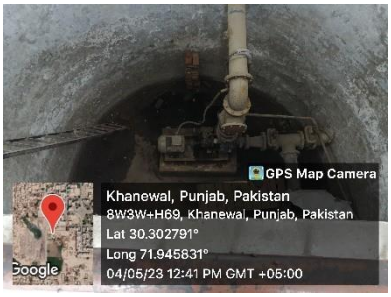
Integrated Development and Asset Management Plan (IDAMP)		
• Pump leakage issue • No washroom available • No staff quarter • Force main rehabilitation and cleaning required • No generator room and generator		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment			Asset Code: _____ Date: 04-05-2023
Asset Detail				**Pictures**
Name		Nizam Abad Disposal Station		
Location	Latitude	30.302737		
	Longitude	71.945664		
Address		Nizam Abad Road		
Area (Acres)		0.33 acres		
Installation Year		---		
Capital Cost of Machinery		--		
Outfall Drain Sewer	Dia	18"		
	Material	RCC		
Screening Chamber	No. of Screens	Not seen due to wastewater		
	Screen Condition	Good	Fair	Poor
	Chamber Structure	Walls dismantled, filled with wastewater		
Wet Wells	Number	2		
	Shape	Rectangular	Circular	
	Size	18 ft		
	Structure	Masonry	RCC	
	Railing	Yes	No	
Force Main	No. of force mains	1		
	Dia	12" (Choked)		
	Material	RCC		
	Starting Point	Pump house		
	Ending Point	Originally to WWTP but choked after 900 ft and overflows on road		
	Length	2-3 km		
Sullage Carrier	Size	-		
	Shape	-		
	Length	-		
	Condition	-		
	Dia	8"		





Integrated Development and Asset Management Plan (IDAMP)				
Delivery Pipe	Material	CI		
Suction Pipe	Dia	8"		
	Material	CI		
Number of Valves	Sluice Valves	2		
	Non-Return Valves	1		
	Penstock Valves	1		
Ultimate Disposal		Pond, overflow on road		
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)		1430		
Ultimate disposal of wastewater?		Pond, overflow on road		
Electro-Mechanical Equipment Details				
Number of WAPDA Feeders		1		
Transformer Capacity (kVA)		50 KVA (stolen)		
Number of MCU		1		
Sanctioned Load (kWh)		15		
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 Type		Centrifugal/ Non-Clogging							
Pump Brand		KSB							
Pump Paint		no							
Motor Brand		Siemens							
Installation Year of Pump		2017							
Discharge Capacity (Cusecs)		1.5							
Rotational Speed (RPM)		980							
Head (ft.)		40							
Motor Power (HP)		20							
Pump Daily Running Time (Hours)		7 hrs							
Base Plate		Yes	No	Yes	No	Yes	No	Yes	No
Number of Valves	Sluice Valve	2							
	Non-Returning Valve	1							
Overall Rating									

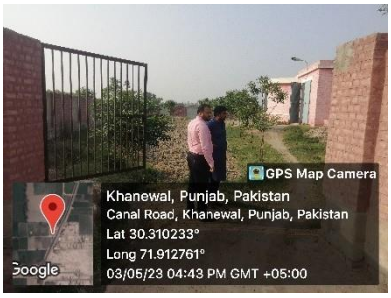
Integrated Development and Asset Management Plan (IDAMP)					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

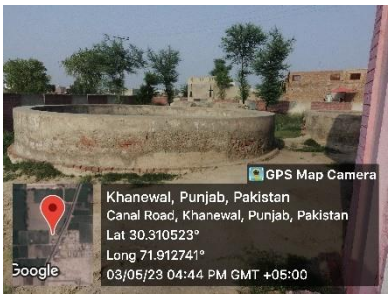
Remarks / Requirements

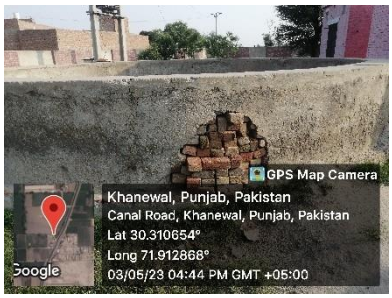
- Boundary wall damage around 75ft
- No generator room and generator
- No transformer
- No railing of wet-well and screening chamber
- Force main is choked
- 1 pump required
- Staircase of pump house is dangerous
- Originally designed for 2 town but now taking wastewater of 15 towns
- Sometime disposal station is not working and MC used peter engine to dispose it to nearby pond
- Force main overflows in Rahim town near vice chairman house and residents are facing problems due to it

Data Collected By: Mr. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

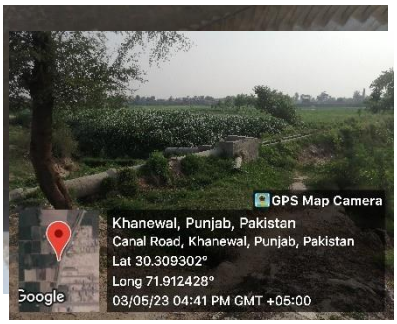
Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Asset Detail				Pictures
Name		Old Khanewal Disposal Station		
Location	Latitude	30.310233		
	Longitude	71.912761		
Address		Canal Road near Ajwa City Housing		
Area (Acres)		0.55 acres		
Installation Year		2004		
Capital Cost of Machinery		--		
Outfall Drain Sewer	Dia	36"		
	Material	RCC		
Screening Chamber	No. of Screens	1		
	Screen Condition	Good	Fair	Poor
	Chamber Structure	Dismantle		
Wet Wells	Number	2 Nos.		
	Shape	Rectangular	Circular	
	Size	20 ft		
	Structure	Masonry	RCC	
	Railing	Yes	No	
Force Main	No. of force mains	1		
	Dia	12"		
	Material	AC		
	Starting Point	Disposal station		
	Ending Point	Nanakpur minor and fields		
	Length	600 ft		
Sullage Carrier	Size	2.5 ft inner		
	Shape	Katcha		
	Length	-		
	Condition	poor		
Delivery Pipe	Dia	18"		
	Material	CI		
Suction Pipe	Dia	8"		
	Material	CI		
Number of Valves	Sluice Valves	4		
	Non-Return Valves	2		
	Penstock Valves	1		
Ultimate Disposal		Rohi Nullah and fields		
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)		6550		







Integrated Development and Asset Management Plan (IDAMP)						
Ultimate disposal of wastewater?	Nanakpur minor and fields					
Electro-Mechanical Equipment Details						
Number of WAPDA Feeders	1					
Transformer Capacity (kVA)	200 KVA					
Number of MCU	2					
Sanctioned Load (kWh)	75					
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 Type	Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging			
Pump Brand	KSB		KSB			
Pump Paint	no		no			
Motor Brand	Siemens		Siemens			
Installation Year of Pump	2004		2004			
Discharge Capacity (Cusecs)	4 cusecs		4 cusecs			
Rotational Speed (RPM)	980		980			
Head (ft.)	50		50			
Motor Power (HP)	50 HP		50 HP			
Pump Daily Running Time (Hours)	7-8 hrs		7-8 hrs			
Base Plate	Yes	No	Yes	No	Yes	No
Number of Valves	Sluice Valve	4				
	Non-Returning Valve	2				
Overall Rating						
Average Score	1	2	3	4	5	
Asset Condition	Excellent	Good	Fair	Poor	Failing	
Category	A	B	C	D	E	

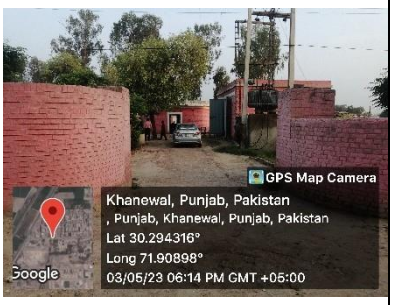


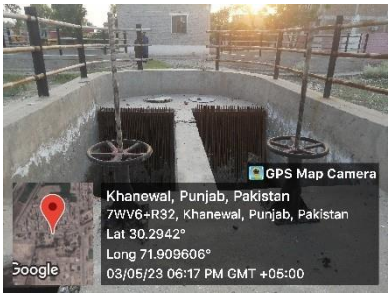
Remarks / Requirements

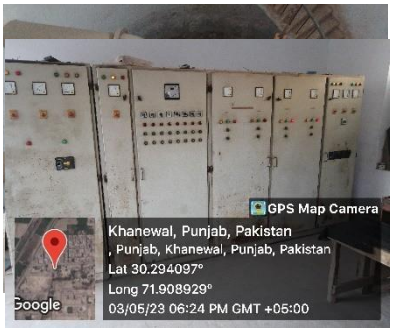
- Force main repair required around 100 feet
- Screening chamber repair needed
- Culvert required for direct access
- Requirement of washroom for operators
- Replacement of 50 KVA genset along with accessories
- Pump replacement
- There is no girder in pump.
- Pump room railing missing
- Delivery pipe replacement required from MS to CI
- Suction pipe need to be replaced due to rusting.

Integrated Development and Asset Management Plan (IDAMP)		
Data Collected By: Mr. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

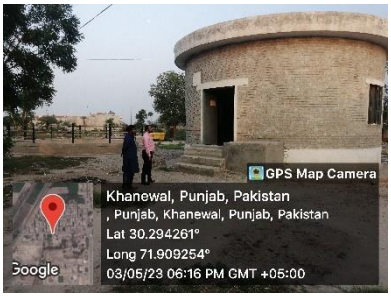
Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		Tariq Abad Disposal Station			
Location	Latitude	30.293988			
	Longitude	71.909022			
Address		Tariq Abad, New Sabzi Mandi Road			
Area (Acres)		5.15 acres			
Installation Year		2017			
Capital Cost of Machinery		--			
Outfall Drain Sewer	Dia	42"			
	Material	RCC			
Screening Chamber	No. of Screens	1			
	Screen Condition	Good	Fair	Poor	
	Chamber Structure	Brick masonry			
Wet Wells	Number	2 new, 2 old			
	Shape	Rectangular	Circular		
	Size	20 ft			
	Structure	Masonry	RCC		
	Railing	Yes	No		
Force Main	No. of force mains	2			
	Dia	24" and 32"			
	Material	GRP			
	Starting Point	Pump house			
	Ending Point	Canal and WWTP			
	Length	4.7 KM			
Sullage Carrier	Size	-			
	Shape	-			
	Length	-			
	Condition	-			
Delivery Pipe	Dia	8"			
	Material	CI			
Suction Pipe	Dia	8"			
	Material	CI			
Number of Valves	Sluice Valves	6			
	Non-Return Valves	3			
	Penstock Valves	2			
Ultimate Disposal		Canal and WWTP			
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)		24550			







Integrated Development and Asset Management Plan (IDAMP)									
Ultimate disposal of wastewater?	Canal and WWTP`								
Electro-Mechanical Equipment Details									
Number of WAPDA Feeders	1								
Transformer Capacity (kVA)	400 KVA								
Number of MCU	1								
Sanctioned Load (kWh)	30								
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 Type		Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging			
Pump Brand		KSB		KSB		KSB			
Pump Paint		yes		yes		yes			
Motor Brand		Siemens		Siemens		Siemens			
Installation Year of Pump		2017		2017		2017			
Discharge Capacity (Cusecs)		5		5		5			
Rotational Speed (RPM)		980		980		980			
Head (ft.)		70		70		70			
Motor Power (HP)		60		60		60			
Pump Daily Running Time (Hours)		16 hrs		16 hrs		16 hrs			
Base Plate		Yes	No	Yes	No	Yes	No	Yes	No
Number of Valves	Sluice Valve	6							
	Non-Returning Valve	3							

Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements

- South side of boundary wall damage around 500 ft
- Paint of pump house, wet well and screening Schamber required
- Railing paint required.

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A7	Sewerage Disposal Station Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Asset Detail					Pictures
Name		People's Colony			
Location	Latitude	30.30546			
	Longitude	71.93938			
Address					
Area (Acres)		0.86			
Installation Year		1998			
Capital Cost of Machinery					
Outfall Drain Sewer	Dia	15"			
	Material	RCC			
Screening Chamber	No. of Screens	2			
	Screen Condition	Good	Fair	Poor	
	Chamber Structure	Masonry			
Wet Wells	Number	2			
	Shape	Rectangular	Circular		
	Size	25'			
	Structure	Masonry	RCC		
	Railing	Yes	No		
Force Main	No. of force mains	1			
	Dia	12"			
	Material	AC			
	Starting Point	Dry well			
	Ending Point	Sullage Carrier			
	Length				
Sullage Carrier	Size	2.5'x3'			
	Shape	Rectangular			
	Length	600'			
	Condition	Poor			
Delivery Pipe	Dia	8"			
	Material	C.I			
Suction Pipe	Dia	8"			
	Material	C.I			
Number of Valves	Sluice Valves	4			
	Non-Return Valves	2			
	Penstock Valves	2			
Ultimate Disposal					
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		

Integrated Development and Asset Management Plan (IDAMP)					
Wastewater daily discharge in m^3/day? (based on available information at MC)	1550				
Ultimate disposal of wastewater?					
Electro-Mechanical Equipment Details					
Number of WAPDA Feeders	1				
Transformer Capacity (kVA)	50				
Number of MCU	3				
Sanctioned Load (kWh)	30				
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 Type	Centrifugal/ Non-Clogging		Centrifugal/ Non-Clogging		
Pump Brand	KSB		KSB		
Pump Paint	Ok		Non-functional		
Motor Brand	Siemens				
Installation Year of Pump	1998				
Discharge Capacity (Cusecs)	1.5				
Rotational Speed (RPM)	950				
Head (ft.)	50				
Motor Power (HP)	25				
Pump Daily Running Time (Hours)	10				
Base Plate	Yes	No	Yes	No	
Number of Valves – Sluice Valve	4				
Number of Valves – Non-Returning Valve	2				

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

C. Vehicles/ Machinery

Sr #	Name	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
1	Suction Machine-Nissan	No Registration	15	Fair	Functional	0.6	125 Hp
2	Jetting Machine-Nissan	No Registration	16	Fair	Functional	0.6	125 Hp
3	Dewatering set (9 nos.)	Not available	Not available	Fair	Functional	Not available	Not available
4	Shoulder Foggers (10 nos.)	Not Applicable	10	Fair	Functional	Not Available	Not Available
5	Spray Pumps (25 nos.)	Not Applicable	10	Fair	Functional	Not Available	Not Available
6	Safety Gear (20 nos.)	Not Applicable	10	Fair	Functional	Not Available	Not Available
7	Sewer Safety Equipment (2 nos.)	Not Applicable	10	Fair	Functional	Not Available	Not Available

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Sucker and Jetting Machine	

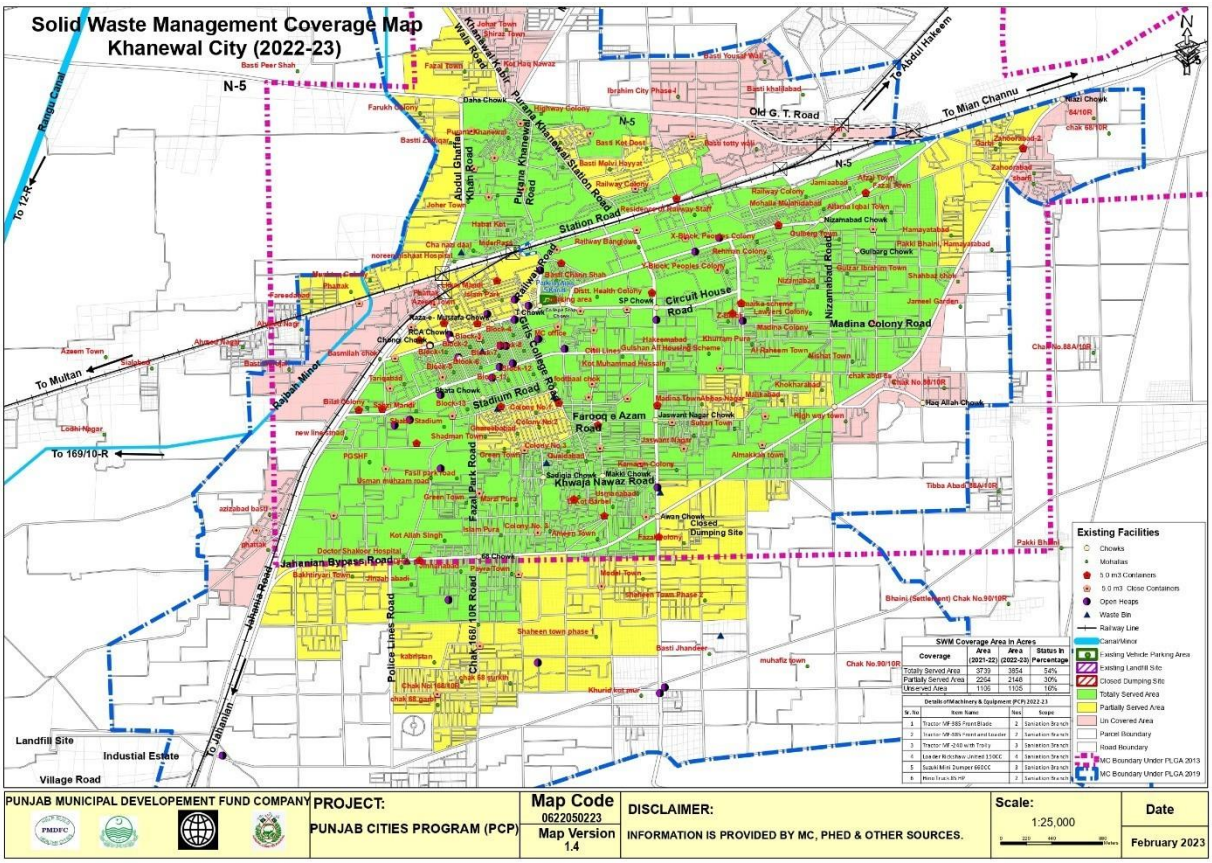
	Suction Machine-Nissan	Jetting Machine-Nissan
Capacity	4500 liters	4500 liters
Purpose	Suction	Jetting
Year of Manufacturing	2008	2007
Model	Not Available	Not Available
Capital Cost		
Fuel Consumption	613	558
Condition	Fair	Fair
Engine Capacity	125hp	125hp
Maintenance Cost	Not Available	Not Available
Oiling /Fitness	Yes	Yes
Fitness Certificate	No	No
Registered	No Registration	No Registration
Overall Rating	Fair	Fair

Remarks / Requirements
•

Data Collected By: Mr. Haroon	*Designation: Team Member*	*Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	*Sign & Date: 30 May 2023*

3. SOLID WASTE MANAGEMENT

Key Components of Solid Waste Management System


Solid Waste Management Coverage Map
Khanewal City (2022-23)
N-5
Old G. T. Road
Station Road
Circuit House Road
Madina Colony Road
Stadium Road
Farooq e Azam Road
Khwaja Nawaz Road
Jahanian Bypass Road
To Multan
To 169/10-R
To Jahanian
To Mian Channu
Landfill Site
Industial Estate
Village Road
Closed Dumping Site
Existing Facilities
SWM Coverage Area in Acres
PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
Map Code
0622050223
Map Version
1.4
DISCLAIMER:
INFORMATION IS PROVIDED BY MC, PHED & OTHER SOURCES.
Scale:
1:25,000
Date
February 2023

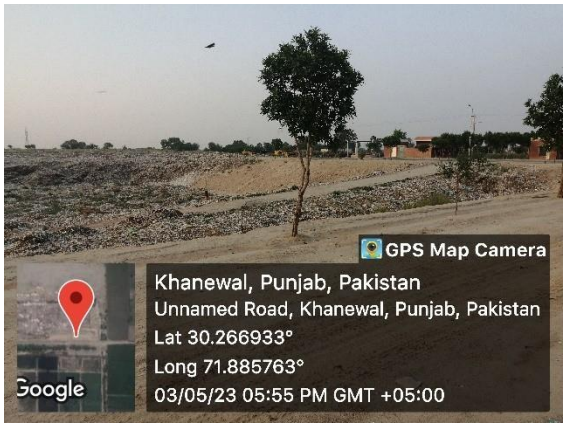
A. Dumping Site

Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Mil)	Area (Acres)	Ownership
1	Landfill Site	10	Fair	Functional	752	11.75	MC

Integrated Development And Asset Management Plan (IDAMP)				
Municipal Khanewal				
Form: IDAMP-A11	Solid Waste Dumping Site Asset Condition Assessment			Asset Code: _____ Date: 05-05-2023

Name		Landfill Site		
Location	Latitude	30.266933		
	Longitude	71.885763		
Address				
Area (Acres)		11.75		
Distance from urban area				
Year the site started for dumping service		2013		
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)		2		
Land Ownership		Private		
Site Accessibility		Good		
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

Pictures



Any illegal occupants or encroachments observed-if yes, type	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					
Data Collected By: Mr. Haroon	*Designation: Team Member*	*Sign & Date: 30 May 2023*			
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	*Sign & Date: 30 May 2023*			

B. Vehicles/ Machinery

Sr #	Name	No.	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
1	Waste Loader-Millat	1	KWE 8746	17	Fair	Functional	0.1	85 HP
2	Waste Loader-Millat	1	KWJ 1213	11	Fair	Functional	0.2	85 HP
3	Tractor-Millat	1	KW 5031	35	Poor	Functional	0.1	50 HP
4	Tractor-Millat	1	KWE 8747	17	Fair	Functional	0.1	50 HP
5	Tractor-Millat	1	KWB 8628	23	Fair	Functional	0.1	50 HP
6	Tractor-Millat	1	MNF 5148	42	Poor	Functional	0.1	47 HP
7	Tractor-Millat	1	KWJ 5234	14	Fair	Functional	0.1	50 HP
8	Tractor-Millat	1	KWJ 1314	11	Fair	Functional	0.2	50 HP
9	Tractor-Millat	1	No Registration	7	Good	Functional	0.3	60 HP
10	Tractor-Millat	1	No Registration	7	Good	Functional	0.3	60 HP
11	Tractor-Millat	1	KWJ 1414	11	Fair	Functional	0.2	50 HP
12	Loader Rickshaw QINGQI	1	KWJ 1221	11	Poor	Non-Functional	0.05	100 CC
13	Loader Rickshaw QINGQI	1	KWJ 1222	11	Fair	Functional	0.05	100 CC
14	ISUZU	1	KWJ-15-13	9	Good	Functional	0.5	4334 CC
15	ISUZU	1	KWJ-15-15	9	Good	Functional	0.5	4334 CC
16	ISUZU	1	KWJ-15-14	9	Poor	Non-Functional	0.5	4334 CC
17	ISUZU	1	KWJ-15-16	9	Good	Functional	0.5	4334 CC

Sr #	Name	No.	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
18	Suzuki-Pickup	1	KWJ-15-12	9	Good	Functional	0.2	796 CC
19	Suzuki-Pickup	1	KWJ-15-10	9	Good	Functional	0.2	796 CC
20	SWM containers	23	Not Available	Not Available	Fair	Functional	Not Available	5 m3
21	Garbage container 0.8 cubic meters capacity	311	Not Available	1	Excellent	Functional	0.08	0.8 Cubic Meter
22	Hand Carts/waste tipping trolly	20	Not Available	1	Excellent	Functional	0.08	Not Available
23	Hand Carts/waste tipping trolly	180	Not Available	1	Excellent	Functional	0.05	Not Available
24	Mini tipper 1.0 cubic	3	Not Available	1	Excellent	Functional	1.66	1.0 cubic meter
25	Water truck with spray system	1	Not Available	1	Excellent	Functional	8.46	Not Available
26	Truck mounted vacuum sweeper 4 cubic meter	1	Not Available	1	Excellent	Functional	17.10	4.0 cubic meter
27	Front blade tractor	2	Not Available	1	Excellent	Functional	1.93	Not Available
28	Front end loader tractor	2	Not Available	1	Excellent	Functional	3.00	Not Available
29	Moter cycle 200 cc with hydraulic rikshaw	4	Not Available	1	Excellent	Functional	0.25	200 cc
30	Tractor MF 240	3	Not Available	1	Excellent	Functional	1.10	Not Available
31	Hydraulic Trolley	4	Not Available	1	Excellent	Functional	0.77	Not Available

Sr #	Name	No.	Registration Number	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
32	Water bowser tanki	1	Not Available	1	Excellent	Functional	3.06	Not Available
33	Garbage ji container carrier	2	Not Available	1	Excellent	Functional	0.86	Not Available
34	Garbage container 15 cu.m	50	Not Available	1	Excellent	Functional	0.38	15 cubic meter
35	Motor Cycle 125 cc	6	Not Available	1	Excellent	Functional	0.14	125 cc

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Waste Loader	

	Waste Loader-Millat	Waste Loader-Millat
Capacity	85hp	85hp
Purpose	SWM	SWM
Year of Manufacturing	2006	2012
Model	MF 385	MF 385
Capital Cost		
Fuel Consumption	723	735
Condition	Fair	Fair
Engine Capacity	85hp	85hp
Maintenance Cost	Not Available	Not Available
Oiling /Fitness	Yes	Yes
Fitness Certificate	No	No
Registered	KWE 8746	KWJ 1213
Overall Rating	Fair	Fair

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures	
Tractor		

	Tractor-Millat 1	Tractor-Millat 2	Tractor-Millat 3	Tractor-Millat 4	Tractor-Millat 5
Capacity	50hp	50hp	50hp	47hp	50hp
Purpose	SWM	SWM	SWM	SWM	SWM
Year of Manufacturing	1988	2006	2000	1981	2009
Model	MF 240	MF 240	MF 240	MF 135	MF 240
Capital Cost					
Fuel Consumption	348	372	381	357	389
Condition	Poor	Fair	Fair	Poor	Fair
Engine Capacity	50hp	50hp	50hp	47hp	50hp
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	KW 5031	KWE 8747	KWB 8628	MNF 5148	KWJ 5234
Overall Rating	Poor	Fair	Fair	Poor	Fair

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArabi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures	
Tractor		

	Tractor-Millat 6	Tractor-Millat 7	Tractor-Millat 8	Tractor-Millat 9
Capacity	50 HP	60 HP	60 HP	50 HP
Purpose	SWM	SWM	SWM	SWM
Year of Manufacturing	2012	2016	2016	2012
Model	MF 240	MF 260	MF 260	MF 240
Capital Cost				
Fuel Consumption	381	277	252	370
Condition	Fair	Good	Good	Fair
Engine Capacity	50 HP	60 HP	60 HP	50 HP
Maintenance Cost	Not Available	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	Yes	Yes
Fitness Certificate	No	No	No	No
Registered	KWJ 1314	No Registration	No Registration	KWJ 1414
Overall Rating	Fair	Good	Good	Fair

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Loader Rickshaw	

	Loader Rickshaw QINGQI 1	Loader Rickshaw QINGQI 2
Capacity	1.5 m3	1.5 m3
Purpose	SWM	SWM
Year of Manufacturing	2012	2012
Model	Not Available	Not Available
Capital Cost		
Fuel Consumption	Non functional	44
Condition	Poor	Fair
Engine Capacity	100cc	100cc
Maintenance Cost	Not Available	Not Available
Oiling /Fitness	No	Yes
Fitness Certificate	No	No
Registered	KWJ 1221	KWJ 1222
Overall Rating	Poor	Fair

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures	
Truck		

	Truck 1	Truck 2	Truck 3	Truck 4
Capacity	5 m3	5 m3	5 m3	5 m3
Purpose	SWM	SWM	SWM	SWM
Year of Manufacturing	2014	2014	2014	2014
Model	NPR	NPR	NPR	NPR
Capital Cost				
Fuel Consumption	702	762	Non-functional	670
Condition	Good	Good	Poor	Good
Engine Capacity	4334cc	4334cc	4334cc	4334cc
Maintenance Cost	Not Available	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	No	Yes
Fitness Certificate	No	No	No	No
Registered	KWJ-15-13	KWJ-15-15	KWJ-15-14	KWJ-15-16
Overall Rating	Good	Good	Poor	Good

Remarks / Requirements

- No remarks

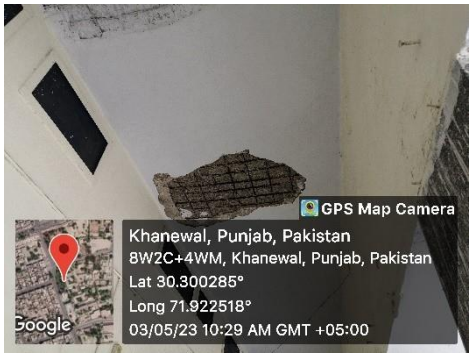
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

4. Building

A. Offices

Sr #	Name	Condition	Book Value (PKR Mil)	Area
1	MC Office-Near Yousaf Park Khanewal	Fair	264	2.53

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A14	Building Asset Condition Assessment			Asset Code: _____ Date: 04-05-2023
Name		MC Office		Pictures
Location	Latitude	30.3004		
	Longitude	71.9225		
Address				
Year of Construction				
Land Area (Acres)		2.53		
No. of Stories		1		
Condition		Poor		
Purpose		Administration		
No. of Staff		50		
No. of Rooms		32		
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	



Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E
Remarks / Requirements					

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A14	Building Asset Condition Assessment	Asset Code: _____ Date: 04-05-2023
• No remarks		
Data Collected By: Mr. Haroon	*Designation: Team Member*	 *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	 *Sign & Date: 30 May 2023*

B. Other Buildings

Sr #	Name	Book Value	Area	Condition
1	Dengue Ware House-Near Yousaf Park Khanewal	Not Available	Not Available	Good
2	MC Residence-Near Yousaf Park Khanewal	Not Available	Not Available	Good
3	MC Store-Near Yousaf Park Khanewal	Not Available	Not Available	Good
4	MC Residence-Near Yousaf Park Khanewal	Not Available	Not Available	Good
5	MC Masjid-Near Yousaf Park Khanewal	Not Available	Not Available	Good
6	Generator Room-New Bus Stand Khanewal	Not Available	Not Available	Good
7	Residence-New Bus Stand Khanewal	Not Available	Not Available	Good
8	Generator Room-Chak No. 168/10 R	Not Available	Not Available	Good
9	Residence-Chak No. 168/10 R	Not Available	Not Available	Good
10	Residence at Landfill SiteChak No. 168/10 R	Not Available	Not Available	Good
11	Residence at Water WorksKhuram Pura Khanewal	Not Available	Not Available	Good
12	Residence at Water WorksPeoples Colony Khanewal	Not Available	Not Available	Good
13	Generator Room-Peoples Colony Khanewal	Not Available	Not Available	Good
14	Residence-Peoples Colony Khanewal	Not Available	Not Available	Good
15	Residence at Water Works-T Chowk Khanewal	Not Available	Not Available	Good

Sr #	Name	Book Value	Area	Condition
16	Residence at Water Works-T Chowk Khanewal	Not Available	Not Available	Good
17	Residence at Water Works-T Chowk Khanewal	Not Available	Not Available	Good
18	Generator Room-Old Khanewal	Not Available	Not Available	Good
19	Residence at Water Treatment Plant-Chak No 169/10 R	Not Available	Not Available	Good
20	Health Center-Health Center Khanewal	Not Available	Not Available	Good
21	MC Office-Near Yousaf Park Khanewal	264	2.53	Fair

5. PUBLIC PLACES

A. Bus Stand

Sr #	Name	Condition	Area (Acres)	Book Value (PKR Mil)
1	General Bus Stand, Khanewal	Poor	9.15	281
2	Wagon Stand	Fair	1.8	281

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A12	Bus Stand Asset Condition Assessment				Asset Code: _____ Date: 04-05-2023
Name		Wagon Stand			Pictures
Location	Latitude	30.3024			
	Longitude	71.9220			
Address					
Year of Construction		Not available			
Last Major Renovation					
Area (Acres)		1.8			
Ownership		MC			
Class		A	B	C	D
Designed Capacity of Vehicles	Buses				
	Coasters				
	Wagons				
Daily parking of vehicles (based on information provided by MC)	Buses	3-4			
	Coasters	2-3			
	Wagons	110-120			
	Rickshaws				
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		

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A12	Bus Stand Asset Condition Assessment				Asset Code: _____ Date: 04-05-2023
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		
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				
	Condition	Good	Fair	Poor	

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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A12	Bus Stand Asset Condition Assessment				Asset Code: _____ Date: 04-05-2023
Name		Bus Stand			Pictures
Location	Latitude	30.292534			
	Longitude	71.907669			
Address					
Year of Construction					
Last Major Renovation					
Area (Acres)		9.15			
Ownership		MC			
Class		A	B	C	D
Designed Capacity of Vehicles	Buses				
	Coasters				
	Wagons				
Daily parking of vehicles (based on information provided by MC)	Trucks	25-30			
	Coasters				
	Wagons				
	Rickshaws				
Distance from the urban area		1.75km			
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	
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	

Integrated Development and Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A12	Bus Stand Asset Condition Assessment					Asset Code: _____ Date: 04-05-2023
Boarding Shed		Yes	No			
Workshops		Yes	No			
Lighting		Yes	No			
Boundary Wall		Yes	No			
Flooring & Pavement	Type					
	Condition	Good	Fair	Poor		

Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	A	B	C	D	E

Remarks / Requirements		
It is no more a bus stand. Now, It is being used as Truck stand.		
Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

B. Slaughter House

Sr #	Name	Age (Years)	Condition	Status	Area (acres)	Book Value (PKR million)
1	Slaughter House	Not available	fair	Functional	0.475	

Integrated Development and Asset Management Plan (IDAMP)						
Municipal Committee Khanewal						
Form: IDAMP-A15	Slaughterhouse Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023	
Name		Slaughter House			Pictures	
Location	Latitude	30.2919				
	Longitude	71.9131				
Address						
Year of Construction						
Total Area (Acres)		0.475				
Ownership						
Slaughter Capacity (Per Day)	Larger Animals	25-30				
	Smaller Animals	50-60				
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		

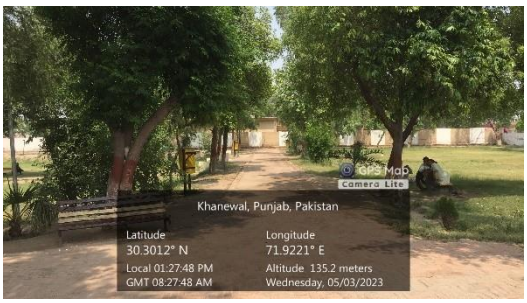
Overall Rating					
Average Score	1	2	3	4	5
Asset Condition	Excellent	Good	Fair	Poor	Failing

Category	A	B	C	D	E
Remarks / Requirements					
Data Collected By: Mr. Haroon		*Designation: Team Member*		 *Sign & Date: 30 May 2023*	
Data Checked By: Mr. Mudassar Alvi		*Designation: Team Lead*		 *Sign & Date: 30 May 2023*	

B. Parks

Sr #	Name	Condition	Area (Acres)	Book Value (PKR Mil)
1	Yusuf Park	Fair	2.17	381
2	Thana Ground	Fair	0.85	136
3	City Park	Excellent	11.25	1620
4	Faisal Park	Fair	13.25	1908

Integrated Development and Asset Management Plan (IDAMP)				
Municipal Committee Khanewal				
Form: IDAMP-A10	Park Asset Condition Assessment			Asset Code: _____ Date: 03-05-2023
Name		Yusuf Park		Pictures
Location	Latitude	30.3012		
	Longitude	71.9221		
Area In Acres		1.58		
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)				
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)				
Any illegal occupants or encroachments observed- if yes, type				
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	



Integrated Development and Asset Management Plan (IDAMP)			
Municipal Committee Khanewal			
Form: IDAMP-A10	Park Asset Condition Assessment		Asset Code: _____ Date: 03-05-2023
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)			
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	1	
	Ladies	1	
Condition of Toilets	Gents	Poor	
	Ladies	Poor	
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		Fair	
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)			
Water Pipes		Yes	No

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A10	Park Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023

HR		
Security Guards	Yes	No
Landscape Experts	Yes	No
Mali / Beldaar (Number)	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

- This park in under extension.

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A10	Park Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		City Park			Pictures
Location	Latitude	30.2999			
	Longitude	71.9149			
Area In Acres		12.25			
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)					
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)					
Any illegal occupants or encroachments observed-if yes, type					
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)					
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	3	
	Ladies	3	
Condition of Toilets	Gents	Poor	
	Ladies	Poor	
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		Fair	
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)			
Water Pipes		Yes	No
HR			
Security Guards		Yes	No
Landscape Experts		Yes	No
Mali / Beldaar (Number)		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. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi

		Sign & Date: 30 May 2023

Integrated Development and Asset Management Plan (IDAMP)					
Municipal Committee Khanewal					
Form: IDAMP-A10	Park Asset Condition Assessment				Asset Code: _____ Date: 03-05-2023
Name		Fazal Park			Pictures
Location	Latitude	30.2901			
	Longitude	71.9178			
Area In Acres		20.125			
Ownership-Owned by MC or possession allocated to MC by any other department (documents available)					
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)					
Any illegal occupants or encroachments observed-if yes, type					
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)					
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		Fair	
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)			
Water Pipes		Yes	No
HR			
Security Guards		Yes	No
Landscape Experts		Yes	No
Mali / Beldaar (Number)		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. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

6. OPEN PLOTS

Sr #	Location	Condition	Total
1	Near Old Bus Stand Khanewal	Fair	75

7. OFFICE VEHICLES

Sr #	Name	Age (Years)	Condition	Status	Book Value (PKR Mil)	Capacity
1	ZXMCO-Bike	27	Poor	Non - Functional	0	70 CC
2	Suzuki-Pickup	11	Fair	Functional	0.1	760 CC
3	Suzuki-Cultus	20	Poor	Non - Functional	0.2	993 CC
4	Nissan-Sunny	31	Poor	Non - Functional	0.2	1500 CC
5	Suzuki-Potohar	25	Poor	Functional	0.15	1000 CC

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Pickups	

	Suzuki-Pickup 1	Suzuki-Pickup 2
Capacity	796cc	796cc
Purpose	SWM	SWM
Year of Manufacturing	2014	2014
Model	Pick Up	Pick Up
Capital Cost		
Fuel Consumption	249	244
Condition	Good	Good
Engine Capacity	796cc	796cc
Maintenance Cost	Not Available	Not Available
Oiling /Fitness	Yes	Yes
Fitness Certificate	No	No
Registered	KWJ-15-12	KWJ-15-10
Overall Rating	Good	Good

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures
Bike	

	ZXMCO-Bike
Capacity	70cc
Purpose	Staff
Year of Manufacturing	1996
Model	ZX70
Capital Cost	
Fuel Consumption	Non-Functional
Condition	Poor
Engine Capacity	70cc
Maintenance Cost	Not Available
Oiling /Fitness	No
Fitness Certificate	No
Registered	KWB 580
Overall Rating	**Poor**

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A16	Moveable Asset Asset Condition Assessment	Asset Code: _____ Date: 05-05-2023

Type of Vehicle / Machinery	Pictures	
Pickup and Cars		

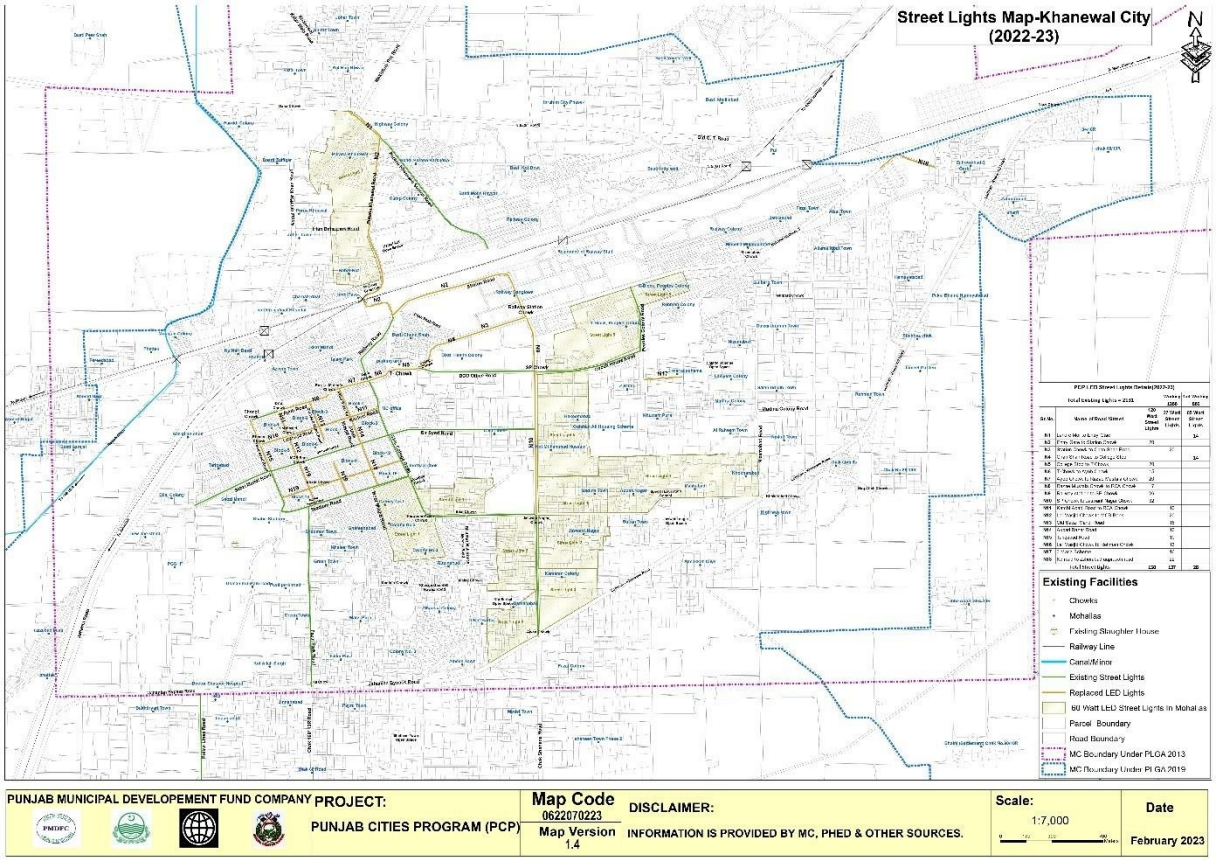
	Suzuki-Pickup	Suzuki-Cultus	Nissan-Sunny	Suzuki-Potohar
Capacity	760cc	993cc	1500cc	1000cc
Purpose	Staff	Staff	Staff	Staff
Year of Manufacturing	2012	2003	1992	1998
Model	Pick Up	**Cultus**	Sunny	Potohar
Capital Cost				
Fuel Consumption	249	Non-Functional	Non-Functional	176
Condition	Fair	Poor	Poor	Poor
Engine Capacity	760cc	993cc	1500cc	1000cc
Maintenance Cost	Not Available	Not Available	Not Available	Not Available
Oiling /Fitness	Yes	Yes	No	Yes
Fitness Certificate	No	No	No	No
Registered	No Registration	KWC 52	KWA 52	KWB 7172
Overall Rating	Fair	Poor	Poor	Poor

Remarks / Requirements

- No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MAlvi *Sign & Date: 30 May 2023*

8. STREET LIGHTS



	Streetlights	MC Operated	Privately Operated
Operational Street Lights	608	608	
Non Operational Street Lights	1,170	1,170	
Total	**1,778**	**1,778**	**0**

Details of Street Lights Poles

Operated by	Precast Concrete	Steel Structure	Tubular Steel	Tree	Wires	Wall	Ground	Grand Total
MC	337	483	255	4	510	25	4	**1,618**
Private								0

Integrated Development and Asset Management Plan (IDAMP)		
Municipal Committee Khanewal		
Form: IDAMP-A9	Street Lights Asset Condition Assessment	Asset Code: _____ Date: 04-05-2023

Pictures

Road	Type of Luminaries				Total	Operational Status	Poles Type (WAPDA Pole / MC Pole)
	Sodium	Led (12-200w)	Tube Light (40 W)	Energy Saver / Light Bulb			
T-Chowk		18			18		
LED No. 1 Near Judge Colony		23			23		
LED No. 2 Near Babu Welfare		20			20		
LED No. 3 Near Jama Abad		18			18		
Mujahid Abad		51			51		
Gulberg Town		53			53		
People Colony		87			87		
Basti Zahoorabad Grid Road.		13			13		
Khurram Pura		37			37		
Bilali Masjid		26			26		
Colony No. 2		84			84		
Basti Zahoorabad		4			4		
Kamran Colony		57			57		
Old Khanewal		76			76		
Old Camp		4			4		

Civil Line		76			76		
Habit Court		26			26		
Islam Park		50			50		
Colony No. 1		38			38		
Basti Chan Shah		13			13		
Gareeb Abad		41			41		
Basti Tariq Abad Gau Shala		43			43		
Bukhtari Garden		76			76		
Fazal park		26			26		
Kot Alla Singh 1		63			63		
Marzi Pura		20			20		
Godam Road Tariqabad		71			71		
Kot Alla Singh 2		7			7		
Court Meebal		28			28		
Block No. 14		41			41		
Laal Masjid Chowk		64			64		
Jannat Road		70			70		
Azeem Town		28			28		
Markazi Jamia Masjid		67			67		
Mushtaq Colony		10			10		
Court Dost Muhammad		19			19		
Yousaf Park		11			11		
Chowk Singla Wala		49			49		
S.P Chowk		92			92		
Jaswant Nagar		45			45		
Wood Market		65			65		
City Park		68			68		

Remarks / Requirements

- Out of the 1,778 lights in the MC, 608 lights were found to be operational

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

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

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9. ROADS

Integrated Development and Asset Management Plan (IDAMP) Municipal Committee Khanewal		
Form: IDAMP-A8	Road Asset Condition Assessment	Asset Code: _____ Date: 04-05-2023
Pictures		

Sr. No.	Road Name	From	to	TST, Asphalt Or Concrete Pavers	Row (Ft)	Paved Width (Ft)	Approx. Length (Km)	Condition
1	Purana Karkhana road.			TST	40		1.0	Fair
2	Usman Moazzam Road			TST	26		1.2	Poor
3		Girls College Chowk	District Council Metal Road.	TST	50		0.8	Poor
4	Canal road .	Alfazallat petrol pump Kablrwala road	Link Multan road	TST	22		2.0	Fair
5	New Sabzi Mandi Metal Road			TST	20		1.1	Poor
6	Bilal Masjid Towards bypass Metal Road.			TST	22		1.1	poor
7		Tb Hospital	SP Chowk to Circuit house	TST	40		1.2	Poor
8		Hamayo petrol pump	Gaffur Khan	TST	12		0.5	Fair
9		Shabeer Stadium	City Park gate.	TST	24		1.1	Poor

Integrated Development and Asset Management Plan (IDAMP)								
Municipal Committee Khanewal								
Form: IDAMP-A8		Road Asset Condition Assessment					Asset Code: _____ Date: 04-05-2023	
10	Railway Road	Ayub Chowk	PRC Goordown	TST	24		0.5	Poor
11		Station Chowk	Underpass	TST	16		1.4	Fair
12		Tariq abad Disposal	naksh kamar Printing Press Chowk	TST	20		1.1	Fair
13		Jaswant Nagar Chowk	Khokarabad Chowk to 88 chak tea factory.	TST	26		3.1	Poor
14		Dena Wala Basti	Basti Lodhara	TST	16		2.9	Fair
15		mettalled markazi graveyard	civil line	TST	12		0.5	Fair
16		mettalled seengo wali kothi	168 chak	TST	14-16		2.3	Poor
17		astabel minor	towards 168 chak	TST	12-14		1.4	Poor
18		Jaswantnagar chowk	SP Chowk to station Chowk	TST	60		1.3	Poor
19		Football chowk	Stadium Chowk	TST	60		0.7	Poor

Remarks / Requirements
• No remarks

Data Collected By: Mr. Haroon	*Designation: Team Member*	Haroon. *Sign & Date: 30 May 2023*
Data Checked By: Mr. Mudassar Alvi	*Designation: Team Lead*	MArbi *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
Southern Punjab	03	Khanewal	14	Water Supply System	01	Tube wells	01	03-14-01-01-XX
						Water Supply Network (ft)	02	03-14-01-02-XX
						OHR	03	03-14-01-03-XX
						Filtration Plants	04	03-14-01-04-XX
						Vehicles	05	03-14-01-05-XX
						GST	06	03-14-01-06-XX
				Sewerage System	02	Sewerage Network (ft)	01	03-14-02-01-XX
						Disposal Stations	02	03-14-02-02-XX
						Vehicles	03	03-14-02-03-XX
				Solid Waste Management System	03	Dumping site	01	03-14-03-01-XX
						Vehicles	02	03-14-03-02-XX
						Parking Shed	03	03-14-03-03-XX
				Roads and Streets	04	Roads	01	03-14-04-01-XX
						Street	02	03-14-04-02-XX
						Street light	03	03-14-04-03-XX
				Public Places	05	Parks	01	03-14-05-01-XX
						Playgrounds	02	03-14-05-02-XX
						Open Spaces / Plots	03	03-14-05-03-XX
						Bus Stand	04	03-14-05-04-XX
						Library	05	03-14-05-05-XX
						Slaughter Houses	06	03-14-05-06-XX
						Graveyards	07	03-14-05-07-XX

Region Name	Region Code	MC	MC Code	Property Types	Property Type Code	Sub Property Types	Sub Property Type Code	Unique Codes
						Masjid/ Imam bargah	08	03-14-05-08-XX
						Shops	09	03-14-05-09-XX
				Others	06	Office buildings	01	03-14-06-01-XX
						Office vehicles	02	03-14-06-02-XX
						Residential building	03	03-14-06-03-XX

Annexure C. Project Screening and Phasing

Project ID: 03-14-01-04-01

Project Description : Rehabilitation of Filtration Plant

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%	Between 10% to 20%	**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 envir onment	Positive effects on the qualit y of the 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		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		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	prices, reduction in citizens' expenditures, etc.?			7.5	Significant competitive advantage to industry and boost to the local economy		
5. Ease of Implementation							
5.1	Has land been acquired for the 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	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							**81**

Project ID: 03-14-01-04-02

Project Description : Improvement of Water Supply scheme

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%	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,		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	network, media or business organizations?			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 loc al environment	Positive effects on the quality of the local env ironment	**10**
				5	Neutral		
				10	Positive effects on the quality of the l ocal 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							

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	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							**81**

Project ID: 03-14-01-06-01

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%	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,		5	0	Majority opposition	Majority support	**5**
				1	Minority opposition		
				5	Majority support		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	network, media or business organizations?			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 e nvironment	Positive effects on the qual ity of the local environment	**10**
				5	Neutral		
				10	Positive effects on the quality of the loc al 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							

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	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							**81**

Project ID: 03-14-02-01-01

Project Description : Improvement of Existing Sewerage System and WWTP

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	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		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
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	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 p hase only		
				3	Outside expertise needed for preparation p hase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**79**

Project ID: 03-14-05-01-01

Project Description : Rehabilitation / Improvement of Yousaf 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			2.5	0	Majority opposition	Majority support	**2.5**

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Is there support or opposition from residents in the immediate vicinity of the new facility?			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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	whether the external sources of funding have been secured?						
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	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 p hase only		
				3	Outside expertise needed for preparation p hase i.e. feasibility studies		
				5	No outside expertise needed		
Total Achieved Score							**74**

Project ID: 03-14-04-03-01

Project Description : Provision and installation of Street Lights in MC

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.	Minor direct contribution	**7.5**
				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%	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**

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?			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	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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	whether the external sources of funding have been secured?						
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	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 co nstruction 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							**60**

Project ID: 03-14-06-01-01

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**
				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		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
	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 loc al environment	Positive effects on the q uality of the local enviro nment	**10**
				5	Neutral		
				10	Positive effects on the quality of the l ocal 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 the external sources		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	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 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: 03-14-01-01-01

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	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%	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**

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?			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	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	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		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
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	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 ID: 03-14-05-01-02

Project Description : Improvement/Rehabilitation of Fazal 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	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

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?			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 loc al environment	Positive effects on the qual ity 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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Government budget or whether 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 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: 03-14-04-01-01

Project Description : "Improvement and Construction of Roads in MC Khanewal"

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

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?			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 loc al environment	Positive effects on the qual ity 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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Government budget or whether 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 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: 03-14-04-01-02

Project Description : Improvement/Rehabilitation of Road (Jaswant Nagar Chowk to Tea factory Road)

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**

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?			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 loc al environment	Positive effects on the qual ity 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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Government budget or whether 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 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: 03-14-04-01-03

Project Description : Improvement/Rehabilitation of Road (Tuff Pavers)

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

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?			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 loc al environment	Positive effects on the qual ity 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	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		5	5	Yes	Yes	**5**
				0	No		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
	Government budget or whether 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 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: 03-14-02-02-01

Project Description : Solarization of Tubewells and Disposal Stations in Khanewal 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	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**

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?			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	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	Additional investment in the area and increased wealth for citizens	**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		

Index	Question	Index Weight	Question Weight	Sub Weight	Possible Responses	Selected Response	Achieved Score
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	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**

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	Provided that the proponent shall file an Initial Environmental Examination or Environmental	• 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

<table>
<tr><th>Sr. #</th><th>Act</th><th>Description</th><th>Applicability to sub-project</th></tr>
<tr><td></td><td>IEE/EIA Regulations 2022</td><td>Impact Assessment, if the project is likely to cause an adverse environmental impact</td><td>schedule II the EIA of Subproject will be carried out.
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>
</table></td></tr>
</table>

Sr. #	Act	Description	Applicability to sub-project		
			Schedule II	Water supply, Sewerage System and treatment	F. Water supply, Sewerage System and treatment Water supply schemes and treatment plants (excluding the Reverse Osmosis, Ultra filtration and such like) with total cost more than Rs. 50 million 2. Wastewater channels / Sewerage System Schemes 3. Combined Wastewater Treatment Plants with treatment capacity greater than 100m3/hr
				Waste Storage and Disposal	G. Waste Storage and Disposal 1. Landfill sites 2. Waste Incinerators and autoclaves 3. Hazardous substance or waste storage warehouse

Sr. #	Act	Description	Applicability to sub-project
3.	Delegations of power for Environment Approvals Rule 2017	According to these rules the powers of environmental approval are delegated to commissioner for specific types of projects	• Under PCP the clause of h, n and o are applicable. • clause h Construction of roads fallings within the jurisdiction of a district, expecting highways, expressways and motorways • Clause o solid waste management excepting landfills • Clause p water supply schemes /water purifications plants costing upto Rs. 20,000/-
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	This act is applicable to the gaseous emission that will be released from the vehicles in operation phase

Sr. #	Act	Description	Applicability to sub-project
		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.	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 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;	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
		• 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 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	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.

Sr. #	Act	Description	Applicability to sub-project
		months, but which shall not be less than seven days, and a mandatory fine between 10,000 and 50,000 rupees.	
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.
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	Policy measures shall be applicable whereas there is any risk of usage or generation of hazardous waste.

Sr. #	Act	Description	Applicability to sub-project
		responsibilities related to HWM, and strengthen the management of hazardous & other wastes.	
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-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	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
		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; (p) Public transport;	All the related clauses of this Act shall be applicable for MCs.

Sr. #	Act	Description	Applicability to sub-project
		(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; (hh) Street lights; and	

Sr. #	Act	Description	Applicability to sub-project
		(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	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
		consultation is appropriate); and 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	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
		so as to render it less fit for the purposes for which it is ordinarily used." 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	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
		✓ Urban Roads ✓ Rural Schools ✓ Housing Schemes ✓ 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

Sr. #	Project Categories	Type of Sub-projects	Nature of Environmental Issues	Env. Category	Social Category	Instruments Required
	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 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**					

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

Sr. #	Project Categories	Type of Sub-projects	Nature of Environmental Issues	Env. Category	Social Category	Instruments Required
	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

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. Project Appraisal

Project ID: 03-14-05-01-01

Project Description : Rehabilitation / Improvement of Yousaf Park

Sr. No.	Description		Unit	Value	Remarks
1	Net Present Value (NPV)	NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%	Rs.	47	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	29%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	30.06	
4	Payback Period	PBP= Capital costs ÷ Annual Net Benefits	Years	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	80.00		80				-	(80)	1	(80)
1	2024-2025		-	-			11.04	11	11	0.82	9
2	2025-2026		-	-			12.82	13	13	0.67	9
3	2026-2027		-	-			14.89	15	15	0.55	8
4	2027-2028		-	-			17.28	17	17	0.45	8
5	2028-2029		-	-			20.07	20	20	0.37	7
6	2029-2030		-	-			23.31	23	23	0.30	7
7	2030-2031		-	-			27.06	27	27	0.24	7
8	2031-2032		-	-			31.43	31	31	0.20	6
9	2032-2033		-	-			36.49	36	36	0.16	6
10	2033-2034		-	-			42.37	42	42	0.13	6
11	2034-2035		-	-			49.20	49	49	0.11	5
12	2035-2036		-	-			57.14	57	57	0.09	5
13	2036-2037		-	-			66.35	66	66	0.07	5
14	2037-2038		-	-			77.04	77	77	0.06	5
15	2038-2039		-	-			89.46	89	89	0.05	4
16	2039-2040		-	-			103.88	104	104	0.04	4
17	2040-2041		-	-			120.63	121	121	0.03	4
18	2041-2042		-	-			140.07	140	140	0.03	4
19	2042-2043		-	-			162.65	163	163	0.02	4
20	2043-2044		-	-			188.87	189	189	0.02	3
21	2044-2045		-	-			219.32	219	219	0.01	3
22	2045-2046		-	-			254.67	255	255	0.01	3
23	2046-2047		-	-			295.73	296	296	0.01	3
24	2047-2048		-	-			343.40	343	343	0.01	3
25	2048-2049			-				-	-	0.01	-
Total		80	-	80	-	-	2,405	2,405	2,325		47

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 opportunity cost of vehicles. Project would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

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: 03-14-01-06-01

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.	(249)	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	14%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	2.17	
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		150				-	(150)	1	(150)
1	2024-2025	300.00		300	33.00			33	(267)	0.82	(218)
2	2025-2026	150.00	15.00	165	38.32			38	(127)	0.67	(85)
3	2026-2027		17.42	17	44.50			44	27	0.55	15
4	2027-2028		20.23	20	51.67			52	31	0.45	14
5	2028-2029		23.49	23	60.00			60	37	0.37	13
6	2029-2030		27.27	27	69.67			70	42	0.30	13
7	2030-2031		31.67	32	80.90			81	49	0.24	12
8	2031-2032		36.77	37	93.94			94	57	0.20	11
9	2032-2033		42.70	43	109.09			109	66	0.16	11
10	2033-2034		49.58	50	126.67			127	77	0.13	10
11	2034-2035		57.58	58	147.09			147	90	0.11	10
12	2035-2036		66.86	67	170.80			171	104	0.09	9
13	2036-2037		77.64	78	198.33			198	121	0.07	9
14	2037-2038		90.15	90	230.31			230	140	0.06	8
15	2038-2039		104.68	105	267.43			267	163	0.05	8
16	2039-2040		121.56	122	310.54			311	189	0.04	8
17	2040-2041		141.16	141	360.60			361	219	0.03	7
18	2041-2042		163.91	164	418.73			419	255	0.03	7
19	2042-2043		190.33	190	486.23			486	296	0.02	6
20	2043-2044		221.01	221	564.61			565	344	0.02	6
21	2044-2045		256.64	257	655.62			656	399	0.01	6
22	2045-2046		298.01	298	761.31			761	463	0.01	6
23	2046-2047		346.05	346	884.03			884	538	0.01	5
24	2047-2048		401.83	402	1,026.54			1,027	625	0.01	5
25	2048-2049		466.61	467	1,192.02			1,192	725	0.01	5
Total		600	3,268	3,868	8,382	-	-	8,382	4,514		(249)

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 opportunity cost of vehicles. Project would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

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: 03-14-06-01-01

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.	453	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	37%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	22.53	
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	300.00	1.50	302				-	(302)	1	(302)
1	2024-2025		1.74	2	66.00			66	64	0.82	53
2	2025-2026		2.02	2	76.64			77	75	0.67	50
3	2026-2027		2.35	2	88.99			89	87	0.55	47
4	2027-2028		2.73	3	103.34			103	101	0.45	45
5	2028-2029		3.17	3	120.00			120	117	0.37	43
6	2029-2030		3.68	4	139.34			139	136	0.30	41
7	2030-2031		4.27	4	161.80			162	158	0.24	38
8	2031-2032		4.96	5	187.89			188	183	0.20	37
9	2032-2033		5.76	6	218.17			218	212	0.16	35
10	2033-2034		6.69	7	253.34			253	247	0.13	33
11	2034-2035		7.76	8	294.18			294	286	0.11	31
12	2035-2036		9.02	9	341.60			342	333	0.09	30
13	2036-2037		10.47	10	396.67			397	386	0.07	28
14	2037-2038		12.16	12	460.61			461	448	0.06	27
15	2038-2039		14.12	14	534.86			535	521	0.05	25
16	2039-2040		16.39	16	621.08			621	605	0.04	24
17	2040-2041		19.03	19	721.20			721	702	0.03	23
18	2041-2042		22.10	22	837.46			837	815	0.03	22
19	2042-2043		25.66	26	972.46			972	947	0.02	21
20	2043-2044		29.80	30	1,129.22			1,129	1,099	0.02	20
21	2044-2045		34.60	35	1,311.25			1,311	1,277	0.01	19
22	2045-2046		40.18	40	1,522.62			1,523	1,482	0.01	18
23	2046-2047		46.66	47	1,768.07			1,768	1,721	0.01	17
24	2047-2048		54.18	54	2,053.08			2,053	1,999	0.01	16
25	2048-2049		62.92	63	2,384.03			2,384	2,321	0.01	15
Total		300	444	744	16,764	-	-	16,764	16,020		453

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 opportunity cost of vehicles. Project would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

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: 03-14-01-01-01

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.	211	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	37%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	22.53	
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	140.00	0.70	141				-	(141)	1	(141)
1	2024-2025		0.81	1	30.80			31	30	0.82	25
2	2025-2026		0.94	1	35.76			36	35	0.67	23
3	2026-2027		1.10	1	41.53			42	40	0.55	22
4	2027-2028		1.27	1	48.22			48	47	0.45	21
5	2028-2029		1.48	1	56.00			56	55	0.37	20
6	2029-2030		1.72	2	65.03			65	63	0.30	19
7	2030-2031		1.99	2	75.51			76	74	0.24	18
8	2031-2032		2.31	2	87.68			88	85	0.20	17
9	2032-2033		2.69	3	101.81			102	99	0.16	16
10	2033-2034		3.12	3	118.23			118	115	0.13	15
11	2034-2035		3.62	4	137.28			137	134	0.11	15
12	2035-2036		4.21	4	159.41			159	155	0.09	14
13	2036-2037		4.89	5	185.11			185	180	0.07	13
14	2037-2038		5.67	6	214.95			215	209	0.06	12
15	2038-2039		6.59	7	249.60			250	243	0.05	12
16	2039-2040		7.65	8	289.84			290	282	0.04	11
17	2040-2041		8.88	9	336.56			337	328	0.03	11
18	2041-2042		10.31	10	390.81			391	381	0.03	10
19	2042-2043		11.98	12	453.81			454	442	0.02	10
20	2043-2044		13.91	14	526.97			527	513	0.02	9
21	2044-2045		16.15	16	611.92			612	596	0.01	9
22	2045-2046		18.75	19	710.56			711	692	0.01	8
23	2046-2047		21.78	22	825.10			825	803	0.01	8
24	2047-2048		25.29	25	958.10			958	933	0.01	7
Total		140	207	347	7,823	-	-	7,823	7,476		211

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 opportunity cost of vehicles. Project would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

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: 03-14-02-02-01

Project Description : Solarization of Tubewells and Disposal Stations in Khanewal City

Sr. No.	Description		Unit	Value	Remarks
1	Net Present Value (NPV)	NPV=PV of benefits @ 22.32% - PV of costs @ 22.32%	Rs.	211	
2	Financial Internal Rate of Return (FIRR)	FIRR	%	37%	
3	Benefit Cost Ratio (BCR)	BCR= Total Benefits ÷ Total Costs	Ratio	22.53	
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	140.00	0.70	141				-	(141)	1	(141)
1	2024-2025		0.81	1	30.80			31	30	0.82	25
2	2025-2026		0.94	1	35.76			36	35	0.67	23
3	2026-2027		1.10	1	41.53			42	40	0.55	22
4	2027-2028		1.27	1	48.22			48	47	0.45	21
5	2028-2029		1.48	1	56.00			56	55	0.37	20
6	2029-2030		1.72	2	65.03			65	63	0.30	19
7	2030-2031		1.99	2	75.51			76	74	0.24	18
8	2031-2032		2.31	2	87.68			88	85	0.20	17
9	2032-2033		2.69	3	101.81			102	99	0.16	16
10	2033-2034		3.12	3	118.23			118	115	0.13	15
11	2034-2035		3.62	4	137.28			137	134	0.11	15
12	2035-2036		4.21	4	159.41			159	155	0.09	14
13	2036-2037		4.89	5	185.11			185	180	0.07	13
14	2037-2038		5.67	6	214.95			215	209	0.06	12
15	2038-2039		6.59	7	249.60			250	243	0.05	12
16	2039-2040		7.65	8	289.84			290	282	0.04	11
17	2040-2041		8.88	9	336.56			337	328	0.03	11
18	2041-2042		10.31	10	390.81			391	381	0.03	10
19	2042-2043		11.98	12	453.81			454	442	0.02	10
20	2043-2044		13.91	14	526.97			527	513	0.02	9
21	2044-2045		16.15	16	611.92			612	596	0.01	9
22	2045-2046		18.75	19	710.56			711	692	0.01	8
23	2046-2047		21.78	22	825.10			825	803	0.01	8
24	2047-2048		25.29	25	958.10			958	933	0.01	7
Total		140	207	347	7,823	-	-	7,823	7,476		211

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 opportunity cost of vehicles. Project would provide effective protection to the vehicles against the solar radiation and ultraviolet rays, rain, hail, wind, and dust, thereby slowing down the deterioration of vehicles and reducing the cost of maintenance.

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 - Khanewal.pdf

City	Date	Consultant Team	MC Team	
			Designation	Name
Khanewal	From 3-May-23 To 4-May-23	Mr. Mudassir	MOI	Not Present
		Mr. Haroon	Sub Engineer	Mr. Shahbaz
			PMDFC	Hammad
			GIS	Mr. Waqas Shafi
			Head Clerk	Abrar, Nouman

Punjab Municipal Development Fund Company (PMDFC)

Punjab Cities Program

Integrated Development and Asset Management Plan (IDAMP)

Consultative Session

Conducted on May 09, 2023

Municipal Committee Khanewal

Prepared by: Regional Program Coordinator (South)

Agenda

Consultative Session on IDAMP with Stakeholders at MC Khanewal	
Under Punjab Cities Program (PCP)	
Organizing Date: May 09, 2023	
Time	**Activity Description**
2:00 PM	Registration of the Participants
2:05 PM	Recitation from the Holy Quran
2:15 PM	Importance of Community participation
2:45 PM	Introduction and Description of the IDAMP activity being performed at MC, its purpose, objective
2:15 PM	Description of main points of IDAMP Framework/guidelines
3:00 PM	Description of main features of IDAMP of respective MC (The developed IDAMP for MC may be discussed as an example)
3:30 PM	Discussion on Projects Identified in IDAMP
3:45 PM	Open Discussion
4:00 PM	Discussion to ensure women participation in the overall process
4:30 PM	Closing of Session

PROCEEDINGS OF SESSION

After registration of participants a brief session was conducted on IDAMP details are given below:

1. **Introduction:**

The IDAMP Framework sets out the principles/guidelines and policies for efficient and transparent asset management and reporting system. Thus, this Framework is designed to ensure the effective planning, careful management, accurate recording and reliable reporting of all the assets over the asset life cycle for optimized service delivery to the public.

2. **Purpose of IDAMP Framework**

The key purpose of IDAMP Framework is the effective management of asset portfolio of the MCs in order to achieve service delivery objectives.

- Encourage a consistent approach and a common methodology for development and management of assets.
- Provide guidelines to ensure informed decision making by MCs for investment in and management of those assets which help achieve the service delivery objectives.
- Establish principles for the development of detailed Standard Operating Procedures for implementation and sustainability of IDAMP.

3. **Scope of IDAMP Framework:**

IDAMP Framework is, in initial phase, applicable to the 16 Municipal Committees (MCs) of Punjab supported by the World Bank-funded Punjab Cities Program (PCP) to strengthen the performance of MCs in urban management and municipal service delivery. These MCs are listed below:

Sr. No.	Northern Punjab	Central Punjab	Southern Punjab
1.	Daska	Gojra	Bahawalnagar
2.	Hafizabad	Jaranwala	Burewala
3.	Jhelum	Jhang	Khanewal

4.	Kamoke	Kamalia	Kot Addu
5.	Muridke	Okara	Vehari
6.	Wazirabad		

Further, this IDAMP Framework provides principles and guidance about the following arenas of asset management:

- Planning of Assets Development of project proposals for rehabilitation/replacement or new assets creation.
- Appraisal of proposed projects.
- Selection of suitable projects for implementation.
- Operation and maintenance (O&M) planning of assets.
- Monitoring and Evaluation of implementation of IDAMP.

4. Legal Authority of IDAMP Framework

It is the responsibility of local governments to manage and develop assets within their jurisdiction, including infrastructure, buildings, land, and public resources.

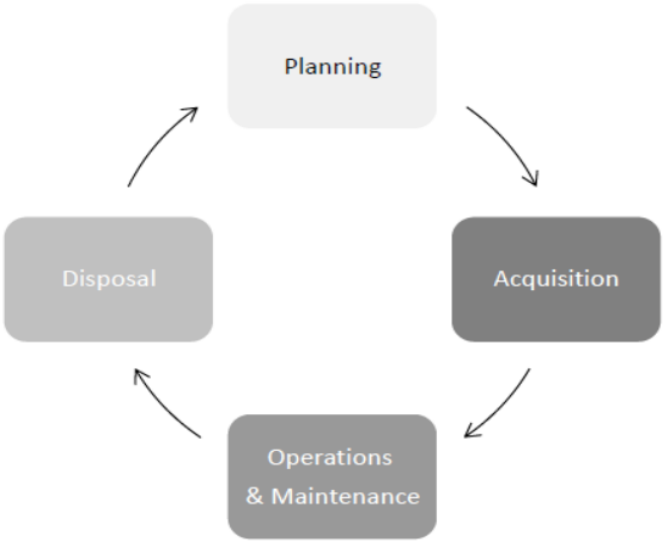
5. Overview of IDAMP/Challenges faced by MCs

- Repetitive Transition in LG System.
- Institutional Fragmentation and Unclear Accountability.
- Weak Systems and Capacities at MCs.
- Weak MC Finances.
- Low Coverage & Quality of the Municipal Services.
- Poor Operation & Maintenance (O&M).
- Lack of multi-year planning for development and asset management.

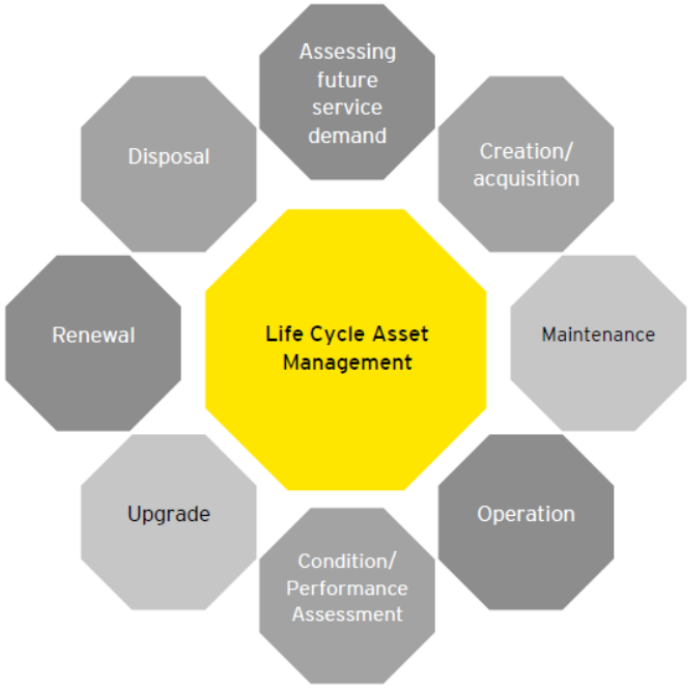
6. Key Concepts

The processes have been derived from the well-established standards like ISO 55000 and International Infrastructure Asset Management Manual (IIMM). The process is contextualized for Punjab Province based on the intensive discussion with the respective officials overseeing the asset management.

Every asset is bound to have certain time period for performing its operations or providing services attributed to it from acquisition to disposal. This is referred to as *Asset Life Cycle*.



Asset Management is related to entire Life Cycle of an asset called Life Cycle Asset Management. After acquisition, the maintenance for operation is done continuously on the basis of assessment of performance or condition as well as for achievement of desired level of service and finally the decision of upgrading, renewal, replacement or disposal is taken.



The coordinated system for carrying out life cycle asset management in an effective and efficient manner is the one known as 'Asset Management System' (AMS).

A standard AMS has various components which include asset registration, asset categories, finance, asset maintenance and asset related reports.

7. Key Challenges

- Lack of multi-year planning for development and asset management.
- Weak Systems and Capacities.
- Non-availability of an effective asset management system.
- Lack of well-defined system for the prioritization of projects.
- Poor Operation & Maintenance (O&M).

8. Objectives of IDAMP

- The importance of physical assets to delivering service delivery objectives and outcomes.
- The quality of existing physical assets in terms of condition and asset performance.
- The assets needed to meet or sustain current levels of service, and to address current and future shortfalls.
- The feasible asset solutions to address identified shortfalls.
- The level of commitment and planned improvements.

9. Key Benefits of IDAMP

- Improved service delivery.
- Improved financial performance.
- Informed asset investment decisions.
- Managed risk.
- Demonstrated social responsibility.
- Improved efficiency and effectiveness.
- Enhanced public trust and confidence.
- Improved organizational sustainability.

10. Asset Portfolio Analysis

- Asset Condition Assessment:
    i. Its age.
    ii. Its operating environment (what weather etc. it is exposed to).
    iii. Its apparent wear and tear.
    iv. Asset's performance.
    v. Asset's contribution to service delivery.

11. Asset Portfolio Analysis

- Asset Risk Management

1. Physical Condition

Physical Condition	New/ Excellent Condition	Minor Defects Only	Moderate Deterioration	Significant Deterioration	Unserviceable
Score	*1*	*2*	*3*	*4*	*5*

2. Asset Performance (KPIs)

Performance (KPIs)	Meets Performance Targets	Minor Performance Deficiencies	Considerable Performance Deficiencies	Major Performance Deficiencies	Doesn't Meet Performance Targets
Score	*1*	*2*	*3*	*4*	*5*

3. Asset reliability

Reliability	As Specified by Manufacturer	Random Breakdown	Occasional Breakdown	Periodic Breakdown	Continuous Breakdown
Score	*1*	*2*	*3*	*4*	*5*

Asset Condition Rating

An average score shall than be calculated by the department technical team and final score shall be awarded on the basis of average score of all the factors.

Average Score	*1*	*2*	*3*	*4*	*5*
Asset Condition	Excellent	Good	Fair	Poor	Failing
Category	*A*	*B*	*C*	*D*	*E*

12. Methodology for the IDAMP

Step 1: Development of GIS based Assets Inventory

Step 2: Notification of Level of Service (LOS)

Step 3: Development of Project Proposals

Step 4: Operations and Maintenance (O&M) Costs Planning

Step 5: Financial Capacity Analysis

Step 6: Projects Screening and Phasing

Step 7: Finalization of Integrated Development and Asset Management Plan

13. Monitoring and Evaluation of IDAMP

- Establishment of M&E Unit

i. A Monitoring and Evaluation (M&E) Unit shall be established for continuous monitoring of implementation and compliance of the IDAMP.

ii. Chief Officer of the concerned Local Government (MC) shall nominate a Municipal Officer (MO) who shall not be part of Technical Team of IDAMP or may create an independent unit with name of Monitoring and Evaluation Unit.

- Monitoring and Evaluation of IDAMP

a) Ensure that Asset Management System (AMS) is updated in all aspects.

b) Carry out monitoring of:

i. Levels of services.

ii. Performance of an asset, including financial and non-financial performance.

iii. The effectiveness of the asset management system.

c) M&E Unit shall receive and evaluate the following reports from the entity and Asset Managers:

i. Report on Key Performance Indicators (Target vs Achieved).

ii. Report on projects implementation status.

iii. Report on any hindrance observed while implementing the project.

d) Evaluation of projects implemented during the year and its status with respect to IDAM Plan developed

e) Conduct Internal Audit at planned intervals to identify and address potential gaps in system and identify opportunities for performance improvement.

f) Review the entity's asset management policies, procedures and systems, at planned intervals, to ensure its continuous improvement, adequacy, suitability and effectiveness.

g) Provide recommendation and guidelines to IDAMP Team.

Attend Sheet of Session

Muncipal Committee Khanewal
Consultative Session for IDAMP
Attendance Sheet

Dated:09-05-2023

Venue:Municipal Committee Khanewal

Sr#	Name	Contact Number	Resident Address	Gender	Occupation	Sign
1	Iftikhar Bangash	0301 7823710	Khaliq Abad	M	C.O.	[signature]
2	Zain Ali	0300-0969037	Khanewal	Male	MO(S)	[signature]
3	Ammar Ahmad	0301-3565680	"	Male	MO(F)	[signature]
4	FAISAL HUSSAIN	0333-6223313	"	Male	Accountant	[signature]
5	Hammad Amin	0300-4275514	PMDFC	Male	RPC	[signature]
6	[illegible]	0399773910	civil society	M		[signature]
7	[illegible]	0300 6099492	civil society	M	i.t technician	[signature]
8	H. Kamran	0311 3113115	1135-Colony#1 Street # 1 Khanewal	M	Computer Operator	[signature]
9	Rabia	0319 6517731	Chungi No 3 Jahanian Road House 36 [illegible]	F	Computer Operator	[signature]
10	Shahnaz	0303 6025594	Chungi No 3 Bilal Mohallah [illegible]	F		[signature]
11	M. Rashid Minhas	0323 4482955	Chak 168/10R Khanewal	M	NQ	[signature]
12	Shahzad A Tabassam	0300 6884843	Muzzi Pura Khanewal	M	FP Coll[illegible]	[signature]
	M. Ashfaq [illegible]	03006591550	Rail Bazar [illegible]	M	[illegible]	[signature]

Muncipal Committee Khanewal

Consultative Session for IDAMP

Attendance Sheet

Dated:09-05-2023

Venue: Municipal Committee Khanewal

Sr #	Name	Contact Number	Resident Address	Gender	Occupation	Sign
13	Amir Hafeez	0314 6330336	Madina Town Khanewal	M	Office Supdt.	[signature]
14	[illegible]	0304 7747082	colony no 3	M	Clerk	[signature]
15	Noorul Ain	0300 7847206	Green Town	M		[signature]
16	Afzaal Khan	0301 7902380	Basti Peer Shah Kwl	M.		[signature]
17	M. Abrar	0305 6330058	Colony No. 1 Kwl.	M	Clerk	[signature]
18	M. Salman	0305 5153375	civil line Khanewal	M	clerk	[signature]
19	M. Hasnain	0304-4864638	Siraja Town Kwl	M	Clerk	[signature]
20	M. Arslan Khalid	0314-7590381	Block No 2 Kwl	M	C.S.I	[signature]
21	M. Usman Malik	0307 7513280	Colony No 1 house 517 Kwl	Male	I/c	[signature]
22	Rauf Anwar	0300 6628720	[illegible] Kwl	M	[illegible]	[signature]
23	Nanis Mehmood	0331 872876	— " —	M	Clerk	[signature]
24	Mehran Gul	0301 7835213	old Kwl	M	Computer operator	[signature]
	Z-Fed Farooq	0300 6835445	Headman of Area	M	HC	[signature]

Muncipal Committee Khanewal
Consultative Session for IDAMP
Attendance Sheet

Dated: 09-05-2023

Venue: Municipal Committee Khanewal

Sr #	Name	Contact Number	Resident Address	Gender	Occupation	Sign
25	Waqar Ahmad	033468 25573	Bald colony. K.W.L	M	Clerk	
26	M. Jamil	030373 67700	Tax mint Nagar Khanewal	M.L/F	Assistant	
27	Shazia Kausar	0300766 2996	Khanewal.	F	instructor	
28	Eeza Asghar	0302 7301260	10 - Chak. Khanewal	Female	instructor	
29	Waheed	030696 79219	City Park	Female	instructor	
30	Malik Waseem Ahmad	0301 7136765	Bahawalpur	Male	Building Inspector	
31	Nasir Abbas	0301-1024538	Block H 12 Khanewal	Male	ceo global org.	
32	M. Usman	0303 2135436	Khanewal Khanewal	Male	G.S P.E.C	
33	Liaqat Hussain	0300 4395450	old Kot	Male	E.I	
34	Ghulam Farid Abbassi	0312 7607009	Peoples Colony Khanewal	Male		
35	M. Anwar	0313 6258400	Lalclear Mandi.	M		

Banner and Participants Pictures

Minutes of Meetings with Stakeholders for their Concerns					
Sr. No.	**Agency / Department / Stakeholder**	**Date**	**Time**	**Representative**	**Issues / Needs / Preferences**
1.	**PMDFC**	May 09, 2023	2:00 – 3:30 PM	**Hammad Amin Regional Program Coordinator (South)**	Mr. Hammad Amin (RPC-South) gave a brief presentation upon IDAMP, Framework, Projects, Scope of work, Asset Management, Key Concepts, Key Challenges, Objectives, Benefits, Asset Portfolio, Methodology, Monitoring & Evaluation.
2.	**MC-Khanewal**	May 09, 2023	3:30 – 4:30 PM	**Mr. Iftikhar Bangash (Chief Officer)**	Gave a clear understanding and introduction regarding the main features of project. Urgency and severity of present problems and issues in each sector of Khanewal City. Sectoral planning and design of sectors, prioritized till 2030. Sectoral planning of sectors, prioritized till 2050. Insurance of Unit focusing on urban management and improvement of municipal services infrastructure for satisfactory service delivery. The allied facilities and a good infrastructure will be provided to the locals by prioritization of sectors.
3.	**MC-Khanewal**	May 09, 2023	3:30 – 4:30 PM	**Mr. Zain Ali (MO I&S)**	World Bank has started a great initiative to address the needs of general public. Unit officials will put all effort for the successful outcome of the project. All projects will be taken as per the suggestions and recommendation of the participants. Issues must be resolved with inclusive approach and collective wisdom.

					Community knows best about the issues occurring in the community that's why community engagement has been done at this level Committees will be established in each community for cleanliness of area State of the art machinery will be procured in next 2-3 months for solid waste management. Geo tagging of containers will be done for monitoring of the solid waste collection operations. All facilities including installation of dust bins, ducts for cabling etc. to be ensured during the design of roads.
4.	**MC-Khanewal**	May 09, 2023	3:30 – 4:30 PM	**Ms. Rabia (Computer Operator)**	Entertainment and recreational facilities must be included. Project is good if implemented properly in MC-Khanewal. People will get facilitated in better way.
5.	**Social Worker**	May 09, 2023	3:30 – 4:30 PM	**Ms. Shehnaz (Social Worker**	PCP projects are under process in MC-Khanewal. As currently there is PCP is working on 4 road, it will give benefit to public and improve mobilization of people. Furthermore, she said there is lacking of MC services there is dire need to improve them.
6.	**Superintendent**	May 09, 2023	3:30 – 4:30 PM	**Rai Amir Hafeez Superintendent**	GRM needs to be improve as all public is not literate so please add option of voice not in GRM. So that public can convey their message easily.
7.	**Instructor**	May 09, 2023	3:30 – 4:30 PM	**Eeza Asghar**	She said these programs should not only for city level they should be implement in villages and chaks of Khanewal as she is resident of chak-10 she said there is dire need to improve drainage system.

Closing of Session:

Overall the session was interactive and a great success in which healthy sharing of views took place. Session was closed with note of thanks.