Punjab Cities Program

Detailed Design of Infrastructure Sub-Projects, Sectoral Planning & Resident Supervision in 16 Cities of Punjab

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Date: 27 July 2023

Syed Zahid Aziz
Managing Director, PMDFC
Punjab Municipal Development Fund Company (PMDFC)
House No. 184, Scotch Corner, Upper Mall,
Lahore, Pakistan.

Subject: **RESUBMISSION - REVISED PC-I FOR INSTALLATION OF STREET LIGHTS IN DASKA CITY (BASED ON 2ND BI-ANNUAL MRS 2023) - PACKAGE-1**

Dear Sir,

Please find enclosed Revised PC- 1 for Installation of Street Lights in Daska City reframed on basis of 2nd Bi-Annual MRS 2023, Sialkot amounting to Rs.157.703 million for arranging administrative approval.

Assuring you our professional and technical services.

Yours faithfully,

Mazhar Ahmad Saeed
Team Leader/CRE
Package I-PCP

CC:

- Iftikhar Rasool, Deputy Program Director, PMDFC
- Dr. Javed Iqbal, Project Director, MMP – PCP
- Ch. Ashiq, SPO Infrastructure, PMDFC
- Azeem Qadeer, Regional Program Officer

Encl: Revised PC-1 for Installation of Street Lights in Daska City, Based on 2nd Bi-Annual MRS 2023

Lloyd's Register
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Offices:
Lahore, Karachi, Islamabad, Peshawar, Hyderabad

Local Government & Community Development Department

Punjab Cities Program
PC-I Form

For

Installation of Street Lights in
Daska City

Estimated Cost. PKR 157.703 million

July 2023

Municipal Committee, Daska

Punjab Cities Program
PC-I Form
Installation of Street Lights in Daska City
Table of contents

PC-I FORM
for
Installation of Street Lights in Daska City

Project Serial Number

Sector: **Local Government & Community Development Department**
Sub Sector: **Roads**

<table>
<tr><td>1. Name of the project</td><td>Punjab Cities Program
Provision and installation of Street Lights in Daska City</td></tr>
<tr><td>2. Location</td><td>Daska Town is located at 74°21’ East and 32°20’ North at a distance of 24 km in the north-east of Gujranwala City, 24 Km from Sialkot at its south-west and 24 KM from Wazirabad at its southeast.

The present population of 280,834, and the projected population by the year 2032 is 375,589 at a growth rate of 2.95% per annum. The city’s total area is 16.53 km2, in the built-up area is 13.00 km2

Location map is attached at Annexure-A</td></tr>
<tr><td colspan="2">3. Authorities responsible for</td></tr>
<tr><td>i) Sponsoring</td><td>Government of the Punjab (through World Bank Funding)</td></tr>
<tr><td>ii) Execution</td><td>Municipal Committee, Daska</td></tr>
<tr><td>iii) Operation and Maintenance</td><td>Municipal Committee, Daska</td></tr>
<tr><td>iv) Concerned Provincial Department</td><td>Local Government and Community Development Department, Govt. of the Punjab</td></tr>
<tr><td>4a. Plan Provision</td><td></td></tr>
<tr><td>i) If the project is included in medium term/five-year plan, specify actual allocation</td><td>Punjab Cities Program (PCP) is a World Bank Funded Program with a total cost of 236.00 million USD and comprises of below mentioned components.

<table><tr><td>Total loan from World Bank</td><td>200.00 million USD</td></tr><tr><td>Component-1 Infrastructure development (PforR)</td><td>180.00 million USD</td></tr><tr><td>Component-2 Technical Assistance</td><td>20.00 million USD</td></tr><tr><td>MCs share (20% of PforR component) equivalent to:</td><td>36.00 million USD</td></tr><tr><td>Total Program cost</td><td>236.00 million USD</td></tr></table>
This program is included in the medium term/ five-year plan and has been funded now in ADP 2022-23 - under General Serial No-1769 with allocation of PKR 1329.90 million as foreign component.</td></tr>
<tr><td>ii) If not included in the current plan,</td><td>Not applicable</td></tr>
</table>

what warrants its inclusion and how it is now proposed to be accommodated		
iii) If the project is proposed to be financed out of block provision indicate.		The Project is being financed by World Bank as Donor along with 20% co-financing from the Program Units and is not proposed to be financed out of Block Allocation.
4b- Provision in the current year PSDP/ADP		Rs.1329.90 million under ADP 2022-23 General Serial No 1769.
5. Project objectives and its relationship with sector objectives		**Sector Objectives** The sector objectives include: i) Provision of efficient and effective municipality services to the masses. ii) Community development through improving basic infrastructure. iii) Clean and green environment for better living standards. iv) Effective use of land through master planning of urban areas. v) Social uplifting and cohesion through provision of public open spaces and playgrounds. vi) Ease in mobility and communication. vii) Capacity building of Local Governments. **Objectives of the Project** The Project aims at improvement of infrastructure of municipal services such as, street lights for improved communication and recreational facilities. The Project has the following objectives; The Project has the following objectives; i) The project's main objective is to illuminate the main roads and provide safety to pedestrians and traffic. ii) Reduction in road accidents. iii) Security of people traveling at night. iv) It also enhances the aesthetic beauty of the city. Hence, the objectives of the project are in line with the sector objectives mentioned at Sr. No-1, 2, 3 and 6 above and the project forms integral part of the concerned sector.

6. Description, justification, technical parameters, and technology transfer aspects

i)

Presently, street lights available in the limited areas of Daska city are mainly installed on electricity distribution company poles by GEPCO. The street lights on major roads are not functional. The condition of street lights on major roads is as under;

i) Street Lights on Major Roads

The LED luminaires have been installed, of which most are non-functional on major roads of the city. 148 no of Street light facility is available on major roads of the city. From the Bus stand to the Rest-house total no of street lights are 26 of which 10 are functional and 16 street lights are non-functional. From rest house to Govt. Degree College, the total number of street lights is 102 in which 85 are functional and 17 street lights are non-functional. Also, from civil hospital chowk to Nawaz Sharif Stadium are total 20 no of street lights are functional.

ii) Street Lights in City areas/localities

The existing street lights in various parts of the city are mainly of different rating LED types. All luminaires are installed on GEPCO (Gujranwala Electric Power Company Limited) poles and are not in fully operational condition. Many lights have been dormant and non-functional in various localities of the city.

ii) Description of the sub-project-

The project comprises 298 Nos LED Street lights of 120 watts. It includes the improvement of 26 Nos existing non-functional streetlights on Bank Road and 272 new streetlights on Circular Road in reach of 5 km.

The Pole-to-pole distance has been selected as 40m and the same has been optimized by industry-renowned Dialux software calculations by establishing all required technical parameters and achieving optimal outputs.

iii) iii. Detail of civil works, equipment & machinery, and other physical facilities

The detail of street lights to be installed, replace/rehabilitated, or in the city, is given below

A	**Installation and replacement of street lights**			
S.N.	**Name of road**	**From-To**	**Detail of works**	**Qty.**
1	Circular Road	Canal road to Sialkot by-pass chowk	Construction of RCC pole foundation	**142**
			Supply and fixing of double arm pole	**130**
			Supply and fixing of single arm pole at 3 Nos intersections.	**12**
			120 watts LED lights	**272**
			Street lights control panel & sensor switches	**4**
			Electric Cable 2.5 mm^2	**10,706 Rft**
			25 mm^2	**30,012 Rft**
			35 mm^2	**63 Rft**
			Earthing	**4 jobs**
			Sub-station (25 KVA transformer)	**4**
2	Bank Road	Lari-Adha to rest house chowk	Replacement of street lights LED 120watts	**26**
			Street lights control panel & sensor switches	**1**

<table>
<tr><td>iv) Indicate governess issues of the sector relevant to the project and strategy to resolve them</td><td>Permission/right of way for laying of the new street light network, replacement/rehabilitation and cabling will be required from the Highway departments, and Gujranwala Electric Power Company Limited (GEPCO).</td></tr>
<tr><td>7- Capital Cost of Project</td><td>The summary of the works included in the project is given below;
<table>
<tr><th>S. No</th><th>Description</th><th>Cost (million PKR)</th></tr>
<tr><td></td><td>Part-A</td><td></td></tr>
<tr><td>1</td><td>Street light electrical works (Circular Road)</td><td>99.394</td></tr>
<tr><td>2</td><td>Street light civil works (Circular Road)</td><td>23.329</td></tr>
<tr><td>3</td><td>Replacement of Lights on Bank Road</td><td>2.350</td></tr>
<tr><td></td><td>Total of Part-A</td><td>125.074</td></tr>
<tr><td></td><td>Part-B</td><td></td></tr>
<tr><td>4</td><td>Purchase of HINO Truck Chassis</td><td>11.295</td></tr>
<tr><td>5</td><td>Erection of Supper Structure of Aerial Platform on Hino Truck Of Street Lights</td><td>6.00</td></tr>
<tr><td>6</td><td>Installation of Vehicle Tracking System</td><td>0.184</td></tr>
<tr><td></td><td>Total of Part-B</td><td>17.479</td></tr>
<tr><td></td><td>ESMP Implementation and Monitoring Cost</td><td>0.142</td></tr>
<tr><td></td><td>Contingencies @2%</td><td>2.501</td></tr>
<tr><td></td><td>PRA@ 5% of Part-A</td><td>6.254</td></tr>
<tr><td></td><td>Price Escalation @ 5% of Part-A</td><td>6.254</td></tr>
<tr><td></td><td>Grand Total</td><td>157.703</td></tr>
<tr><td colspan="3">See Annexure-B for details</td></tr>
</table></td></tr>
<tr><td>i- Indicate date of estimation of the project cost</td><td>The project estimates have been framed during the month of August, 2022</td></tr>
<tr><td>ii- Basis of determining the estimates be provided.</td><td>The cost estimates have been framed on the basis of bill of quantities actually measured at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Sialkot 2nd biannual of year 2022).
For items not available in the MRS, the same have been analyzed as per prevailing market rates.</td></tr>
</table>

iii- Provide year wise estimation of physical activities

The physical and financial requirements, year-wise are included in the following table:

S. #	Description	Year 2022-23
1	Street Light Electrical Works (Circular Road)	100%
2	Street Light Civil Works (Circular Road)	100%
3	Replacement of Lights on Bank Road	100%

iv- Phasing of capital cost on the basis of each item of work.

The phasing of capital cost of the project is included in the following table:

(All figures are in million rupees)

S. #	Description / Items	Year 2023-24	Total
1	Street Light Electrical Works (Circular Road)	99.394	99.394
2	Street Light Civil Works (Circular Road)	23.329	23.329
3	Replacement of Lights on Bank Road	2.350	2.350
	Total of Part-A	**125.074**	**125.074**
4	Purchase of HINO Truck Chassis	11.295	11.295
5	Erection of Supper Structure of Aerial Platform on Hino Truck Of Street Lights	6.00	6.00
6	Installation of Vehicle Tracking System	0.184	0.184
	Total of Part-B	**17.479**	**17.479**
	ESMP Implementation and Monitoring Cost	0.142	0.142
	Contingencies @2% of Part-A	2.501	2.501
	PRA@ 5% of Part-A	6.254	6.254
	Escalation @ 5% of Part-A	6.254	6.254
	Total project cost	**157.703**	**157.703**

8-**Annual recurrent cost after completion of the project and source of financing**

The annual O&M cost of the street lights installation and replacement/rehabilitation has been worked out to be **PKR 6.563 million**. The O&M cost breakup is given in **Annexure B**

9**- Demand & Supply Analysis**

i) Existing Capacity of services

Existing supply level

Presently, there are no street light poles including LEDs and lighting accessories on circular road, and there are 26 existing lights on Bank Road which are non-functional and need to be replaced.

ii) Projected Demand for 10 years

130 double arm-poles & **12** single-arm poles on the circular road need to be installed. The length of the circular road is approx. 5km.
26 street lights on existing poles need to be replaced on Bank Road and the length is approx. 1 km.

<table>
<tr><td>iii) Capacity of other similar projects being implemented in public/private sector</td><td>No other project of this nature is being implemented in the public as well as private sector because of funding constraints in the Unit.</td></tr>
<tr><td>iv) Supply and Demand gaps</td><td>The circular road has no street lights and the provision of providing and installation of new street light poles including LEDs, lights accessories and allied works has been proposed. Additionally, the provision of replacement of existing street lights on Bank Road is also included.</td></tr>
<tr><td>v) Designed capacity and output of the project</td><td>142 street lights pole on the circular road will be installed. The length of the circular road is approx. 5km.

26 street lights will be replaced on Bank Road and the length is approx.1 km.</td></tr>
<tr><td>10. Financial Plan
Sources of financing
<u>Debt</u>
a) Indicate the local and foreign debt Loan</td><td>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.
<table>
<tr><td>Total loan to Government of Pakistan/Punjab</td><td>200 million USD</td></tr>
<tr><td>Component-1 for Infrastructure Development</td><td>180 million USD</td></tr>
<tr><td>Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.</td><td>20 million USD</td></tr>
<tr><td>20% share of Municipalities is equivalent to</td><td>36 million USD</td></tr>
<tr><td>Total funds available for Infrastructure Development</td><td>216 million USD</td></tr>
<tr><td colspan="2">This project will be funded under this financing.</td></tr>
</table></td></tr>
<tr><td>b) Equity</td><td>A. Loan /Grant to MC
The amount of loan converted to grant to Daska City will be PKR 107.373 million. The financing of the project will be as given below:
<table>
<tr><td>Grant to Unit for the year 2022-23
(80% of cost of PC-I)</td><td>PKR 126.162 million</td></tr>
<tr><td>20% Co-finance by MC
(20% of the cost of PC-I)</td><td>PKR 31.541 million</td></tr>
<tr><td>Total available funds
(Total cost of PC-I)</td><td>PKR 157.703 million</td></tr>
</table>
B. Project Cost: PKR 157,703 million

*The loan is from World Bank to Government of Pakistan/Punjab, which will trickle down to Daska Unit as grant.</td></tr>
<tr><td>c) Grants</td><td>No grant is being given by Government of Punjab out of ADP funds. The World Bank loan to Government of Pakistan / Punjab will trickle down as grant to MC Daska</td></tr>
<tr><td>d) Weighted cost of capital</td><td>Nil</td></tr>
</table>

<table>
<tr><td colspan="2">11-Project benefits and analysis</td></tr>
<tr><td>i) Financial (including cost-benefit ratio): Income to the project with assumption</td><td>

The project comprises of improvement of street lights including lighting accessories and allied works in the city.
The provision of street lights is an economic public good. Users will not be tolled for using the roads or streets where the lights are being installed.
No revenues, public or private, will be directly generated. Hence, a financial analysis is not required as there is no positive cash flow or revenue stream that contributes to the calculation of an internal rate of return or payback period or cost-benefit ratio
There is no land acquisition or resettlement requirement as the streets are owned by the government.

</td></tr>
<tr><td>ii) Social benefits to the target group</td><td>The completion of the project will result in:

With the ease of mobility and transportation that comes from the enhancement of vision on the streets, women and men alike will have greater enablement and access to economic opportunities and services.
Greater security will enable greater economic activity resulting in greater incomes.
The lights will provide users with recreational opportunities and improve aesthetic, in addition, enable easier access to health and education services
No anticipated change in the livelihoods of people around project sites is expected.
The project will, in addition, enable easier access to health and education services.
The project will also encourage citizen satisfaction and build trust with the government.

</td></tr>
<tr><td>iii) Environmental Impact negative/positive</td><td>Air emission and greenhouse gas reductions will result from the installation of street lights and, hence, improvement of project roads. During the construction phase, however, issues may arise from the generation of dust, emission of air pollution, noise, and traffic congestion due to traffic lane reduction and redirection. Nonetheless, there will be no permanent adverse impacts on the environment. The Environmental impact of the project is attached at Annexure-E.</td></tr>
<tr><td>i) Quantifiable project outputs</td><td>The quantifiable project out puts have been given above in Sr. No-9 (V).
The social benefits to the citizen have been described at Sr. No-11(ii). The Economic Analysis, of the project have been attached at Annexure-C</td></tr>
<tr><td>ii) Unit cost analysis</td><td>The unit cost analysis is produced below;
<table>
<tr><td>Project capital cost</td><td>PKR 157.703 million</td></tr>
<tr><td>Population of the city in year 2022</td><td>280,834 persons</td></tr>
<tr><td>Unit capital cost per capita</td><td>562 PKR</td></tr>
</table>
Unit R&M cost: – The Repair & maintenance cost is already being borne by Daska unit.
The unit cost of O&M per annum per capita will be 23.00 PKR.</td></tr>
</table>

i) Employment generation (Direct and indirect)	**<u>Employment Analysis</u>** **Direct Employment** ***a) Planning and Design of projects*** Increased access to the economy from the improvement of roads in terms of street lights will increase employment in and beyond project sites. It will also create a positive effect on employees in terms of their performance and productivity and, hence, wages. During construction, employment for the local people of the project area will be available. There will be indirect employment resulting from easier and greater access to opportunities across local geographies. The planning and design of the project has been entrusted to local consultants who have appointed staff and experts in road and related disciplines along with their support staff. The consultants will also appoint their staff for resident supervision of the project to verify and certify the items of works to be executed under this PC-I. **b) Execution of the Project** ***a) PMDFC*** PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this assignment. PMDFC has already deployed under mentioned staff for these projects: • Civil Engineers • Accounts, administration and audit personnel • Urban planners • GIS experts • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts • Environmental and social experts • Contract management experts ***b) Consultants*** PMDFC has employed (M/s MM PAKISTAN) as consultants for detailed design and resident supervision of the projects who will deploy their staff for execution of the project. ***c) Municipality*** Daska MC has regular staff like engineers, sub engineers and other administrative & accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project ***d) Contractor*** The contractor responsible for execution of the sub project will employ skilled and unskilled labor on this work.

	Indirect Employment Indirect employment for production of material such as cement, steel, bricks, steel windows / doors, pumping machinery, electric motors, valves, piping etc. will be generated.
i) Impacts of delays on project cost and viability	Delays in the project will cause the total cost of the project to go up. The sensitivity analysis table shows in **Annexure-C** the net present value of the project if the delay causes the total cost of the project to rise by 10 percent.
12-Implementation Schedule	
a) Indicate starting and completion date of the project	The project is anticipated to commence by September 2022 and to be completed by September 2023 with project implementation period of **12** months.
b) Item wise/year wise schedule in line chart	The Gant chart has been attached to **Annexure-D**
13- Management Structure and manpower requirements	
i) Administrative arrangements for the implementation of the project	**i. Planning & design of the project** The project has been designed by the consultants employed by PMDFC and will also carry out the resident supervision of the project. **ii. Preparation of cost estimation** The cost estimates have been prepared by the design consultants by actual measurements at site. The execution of the items of works included in these estimates /PC-I will be certified by these consultants. **iii. Execution of the project** • The project will be executed by District Council Unit and supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff & experts in PMDFC will oversee, co-ordinate and collaborate in the project planning, design and implementation through their experts in head office located in Lahore and regional offices. The reporting of progress to LG & CDD & World bank and troubleshooting will also be responsibility of PMDFC. • MO (I&S) of the Unit has been designated as Project Manager /Engineer in Charge of the project. The supervision of the works will also be carried out by these municipal officers along with their support engineering staff. All supervisory staff is available with MC. • The Procurement Committee of Daska Unit will do the procurement of works and goods as per PPRA Rules. **iv. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants** The works will be supervised by Supervision Consultants in resident supervision mode by assuring the quantity and quality of works. The consultants will verify the items of work and their quantities contained in the

PC-Is and cost estimates initially and then the quantities and quality of works included in the contractor claims at the stage of payments. Payments will be made by the Unit after these contractor claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.

ii) Present Condition The manpower requirements by skills during execution and operation of the project and; The job description, qualification, experience, age and salary of each post

a) PMDFC experts and staff

For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields. In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan/Daska.

b) Resident Supervision Consultants

The project will be supervised by consultants. The tentative staff to be employed/deployed by the consultants for the certification of quantities of works and resident supervision of the project is given below.

S #	Personnel	No.	Qualification
1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering with minimum 20 years' professional experience or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments in both cases
2	Senior Engineer	01	BSc/BE Civil engineering with minimum 08 years' relevant design experience or MSc engineering, with 5 years on similar assignments in both cases
3	Resident Engineer	01	BSc;/BE Civil engineering with minimum 10 years' experience in site supervision and execution for projects of similar nature.
4	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature
5	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
6	Quantity Surveyor	01	DAE in Civil Technology with minimum 10 years' experience in estimation & costing of projects of similar nature. The person having public sector projects will be preferred.
7	AutoCAD Operator	01	DAE in Civil Technology with minimum 5 years' experience in preparation of drawings for projects of similar nature. (Situated at Lahore office)

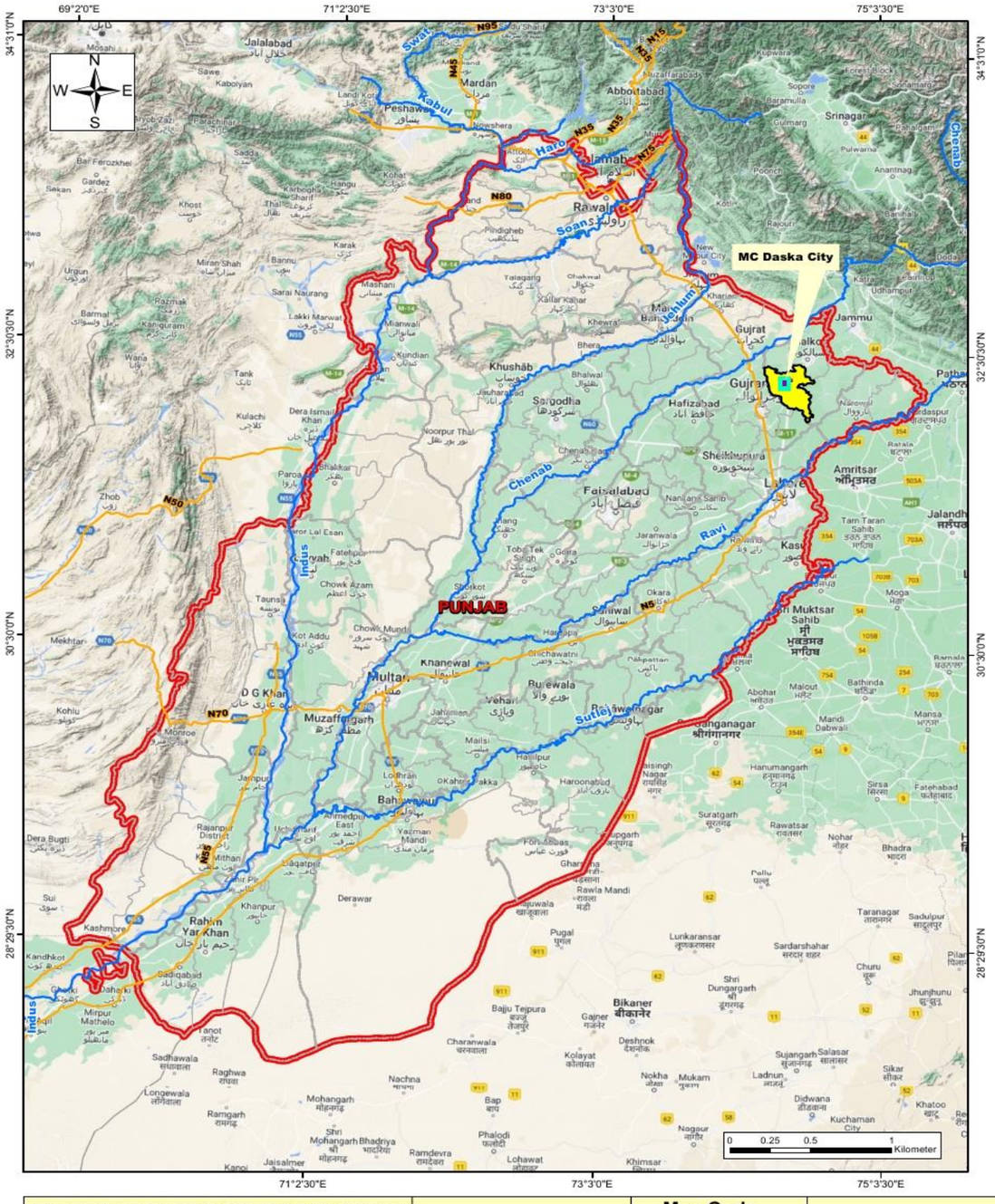
c) Contractor's Technical staff, skilled & non skilled labor

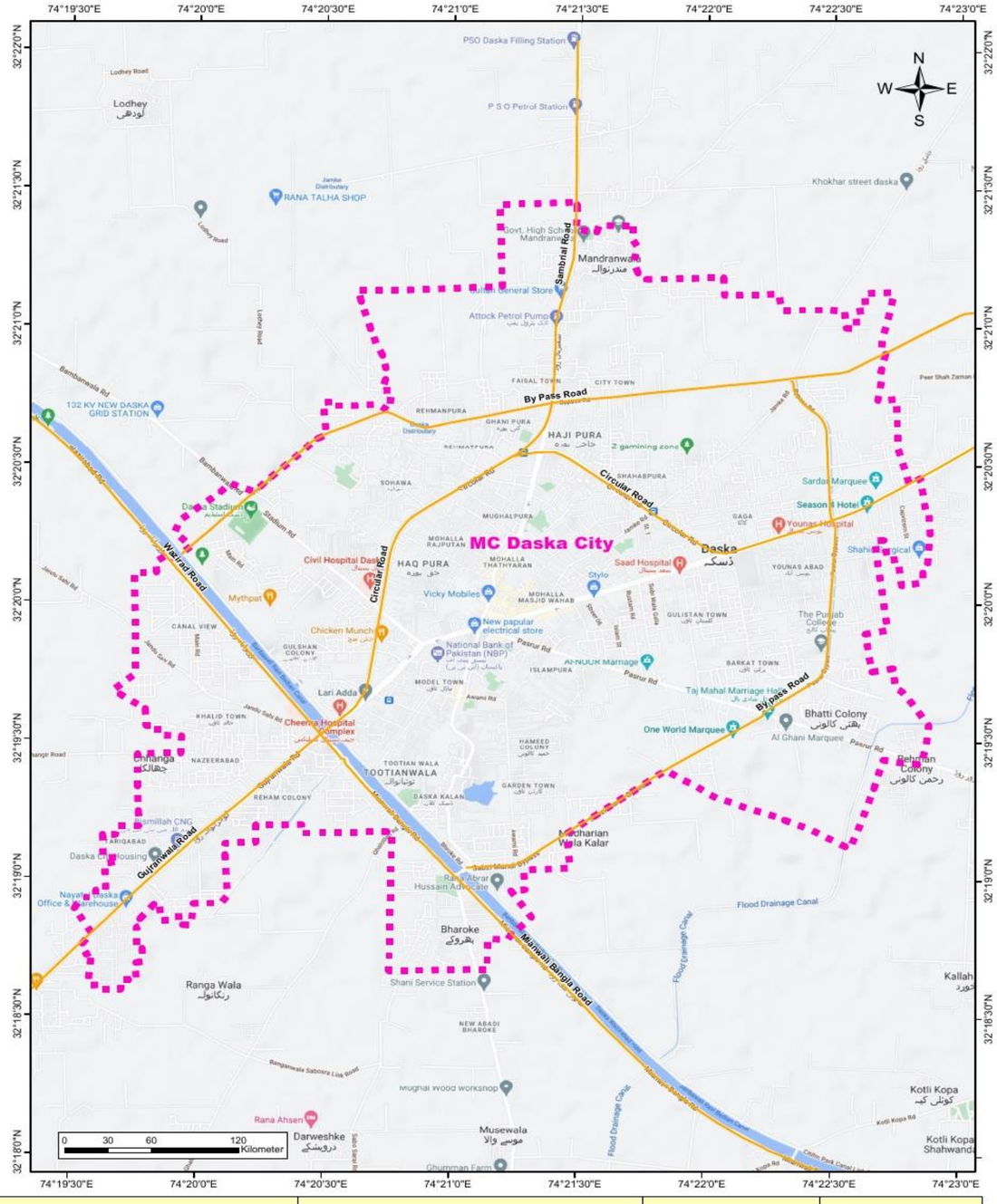
The contractors will employ the supervisory technical staff and skilled & non skilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots for

	engineers and skilled and non-skilled will depend upon the type and quantity of work and its period of completion. **d) Repair & maintenance of the project** MC has its own regular staff which has been deployed for Repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and maintain the services in a manner which can give good service delivery. Hence it is proposed to; • Fill up the presently vacant slots • Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.
14-Additional projects /decisions required to optimize the investment being undertaken	**Shortage & frequent transfers of Provincially appointed staff** MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill-up the vacant staff immediately for optimizing the investments and capacity building in MC.
15-Certificate	Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.

Prepared by	M/s MM Pakistan (Pvt) Ltd	Stamp & Signatures	
Checked by	Municipal Officer (Infrastructure) Municipal Committee Jhelum	Stamp & Signatures	
	Chief Officer Municipal Committee Jhelum	Stamp & Signatures	
Forwarded by	Administrator Municipal Committee Jhelum	Stamp & Signatures	

Annexure-A





PUNJAB MUNICIPAL DEVELOPEMENT FUND COMPANY	PROJECT: PUNJAB CITIES PROGRAM (PCP)	Map Code	DISCLAIMER: SOURCES OF INFORMATION PRESENTED IN THIS MAP IS BASED ON DATA PROVIDED BY PAKISTAN BUREAU OF STATISTICS 2017.	STRATEGIC LOCATION MAP DASKA	Date	MMP MM Pakistan (Pvt) Ltd.
		Map Version 1			June 2022	

Annexure-B

PUNJAB CITIES PROGRAM
COST ESTIMATE FOR INSTALLATION OF STREET LIGHTS IN DASKA CITY

General Abstract of Cost

Sr.No.	Description	Amount (Rs. in million)
Part -A		
1	Street Lights Electrical Works (Circular Road)	99.394
2	Street Lights Civil Works (Circular Road)	23.329
3	Replacement of Lights on Bank Road	2.350
	Sub Total -A	**125.074**
Part -B		
5	Purchase of HINO Truck Chassis	11.295
6	Erection of Super Structure of Aerial Platform on Hino Truck for Street Lights.	6.000
7	Installation of Vehicle Tracking System	0.184
	Sub Total-B	**17.479**
	ESMP Implementation and Monitoring Cost	0.142
	Contigency @ 2% of Sub Total A	2.501
	PRA @ 5% of Sub Total A	6.254
	Price Esclation@5% of Sub Total A	6.254
	Total (Rs. in millions)	**157.703**