

POSITION PAPER

1.	Issue for PDWP	9 th Divisional Laboratory of EPA in Sahiwal (DLI-I)														
2.	Location	Sahiwal														
3.	Sponsoring Agency	Government of the Punjab, Lahore.														
4.	Executing Agency	SP&IU, EP&CCD														
5.	Period of Implementation	FY 2024-25 to FY 2025-26 (2 years)														
6.	Cost of Project	Rs.204.415 Million														
7.	Source of Financing	The scheme is at GS No. 3552 of ADP 2024-25 to 2025-26 <i>(in Million PKR)</i> <table border="1"> <thead> <tr> <th rowspan="2">Est. Cost</th><th rowspan="2">Provision for 2024-25</th><th colspan="2">MTDF Projections</th><th rowspan="2">Throw Fwd Beyond June 2027</th></tr> <tr> <th>2025-26</th><th>2026-27</th></tr> </thead> <tbody> <tr> <td>150.000</td><td>40.000</td><td>110.000</td><td>0.000</td><td>0.000</td></tr> </tbody> </table>			Est. Cost	Provision for 2024-25	MTDF Projections		Throw Fwd Beyond June 2027	2025-26	2026-27	150.000	40.000	110.000	0.000	0.000
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8. DESCRIPTION AND BACKGROUND:

The Environmental Protection Agency (EPA) Punjab is responsible for implementing the provisions of the Punjab Environmental Protection Act, 1997. This Act is designed to protect, conserve, rehabilitate, and improve the environment, prevent and control pollution, and promote sustainable development. Specifically, Section 11(1) of the Act prohibits the discharge or emission of any effluent, waste, air pollutant, or noise that exceeds the Punjab Environmental Quality Standards (PEQS).

The rapid pace of urbanization and industrialization in Punjab, combined with insufficient financial growth, has led to severe environmental degradation. Industrial activities, in particular, have resulted in the deterioration of both surface and groundwater quality due to the discharge of untreated wastewater. These pollutants, which can be solid, liquid, or gaseous, pose significant risks to ecosystems and human health. Soil contamination and the threat to flora and fauna are direct consequences, with several species now endangered or on the brink of extinction. Additionally, the food chain has been disrupted by these pollutants, exacerbating environmental and public health issues.

Air pollution is another critical concern, particularly in industrial cities like Lahore, which has experienced severe smog episodes since 2016. Research indicates that industrial emissions contribute up to 28% of the smog's formation. The dominant air pollutants, particularly PM10 and PM2.5, have pushed the Air Quality Index (AQI) beyond 400 during the smog season, indicating hazardous conditions.

Currently, EPA Punjab operates eight regional laboratories, but none are located in the Sahiwal Division. The establishment of a laboratory in this region is essential to strengthen EPA's capacity to monitor and ensure compliance with PEQS for wastewater, air, and noise pollution. This new lab will be equipped to conduct comprehensive monitoring of industrial wastewater, ambient air, and stack emissions in Sahiwal Division, providing critical data to inform regulatory actions and policy decisions.

The proposed project will address the gap in environmental monitoring in Sahiwal by providing the necessary equipment, staffing, and transport for the lab. The focus will be on key environmental parameters such as Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), heavy metals, and particulate matter (PM10/PM2.5). These parameters are crucial for assessing the impact of pollution on water and air quality, and the data collected will support efforts to mitigate environmental degradation and promote sustainable development in the region.

9. SCOPE OF WORK:

- 1- To establish the missing divisional laboratory in Sahiwal. There are 8 divisional laboratories in EPA, Punjab, functional at divisional headquarters. Whereas Sahiwal division has no laboratory.
- 2- To improve the capacity of EPA for implementation of PEPA 1997.

Scope

- To procure the equipment for analysis of waste water, surface water, industrial emissions, ambient air, noise and vehicular emissions.
- To acquire technical and supporting staff for operation of laboratory except deputy director.
- To monitor air quality with respect to PM2.5/PM10, CO, O3, SO2, NOx in in three districts of Sahiwal.

Objectives of Environment Sector

- I. Improve Environmental Governance through generation of legally defensible data in the Punjab.
- II. Enhance environmental awareness
- III. Ensure environmental sustainability through capacity building of EPA Labs.
- IV. Promote research and development for improving quality of environment.
- V. The outcomes of the project will also help to achieving SDG6 and SDG13 through air and water quality monitoring.
- VI. The objectives of this project are in line with the sectoral objectives and functions/mandate of the Environment Protection Department.

10. SUMMARY OF HR / VEHICLES:

The HR requirements will be made through internal arrangements.

The number of vehicles to be procured is as detailed below i.e.,

Sr No.	Description	Quantity	Total Cost (Rs. Million)
1	Industrial emission Mobile Laboratory customized.	1	15.00
2	Toyota Hilux Revo Double Cabin Standard for Surface Water Sampling.	1	19.40
3	Car (1000 CC)	1	4.00
4	Motorcycles (125 CC)	1	0.30
5	Scooter / Motorcycle (100 CC)	1	0.15
Total Cost			38.85

Quotations are added as (Annex-A).

11. PROPOSAL BY ADMINISTRATIVE DEPARTMENT:

The project was considered in a meeting of DDSC held on 22-07-2024. The DDSC approved the scheme and interalia decided as follows:-

1. The DDSC approved the PC-I of ADP Scheme "9th divisional laboratory of epa in Sahiwal (DLI-I, PGDP)" with upward revision of cost amounting to Rs. 204.415 million and gestation period up to 30-06-2026 subject to approval from P&DD.

2. The implementing agency will prepare position paper for seeking approval from PDWP for procurement of vehicle and HR component of the scheme and submit to EPCCD for further processing.

12. Deliberations of Pre –PDWP

The Pre-PDWP meeting of the project was held on 28.11.2024 in which the following decisions were made

Sr. No.	Decisions	Department response	Remarks of Section
1	EP&CCD to share detailed installation plan of total Air Quality Monitoring Stations so far procured or planned to be procured under all schemes, with the Environment & Climate Change section P&D Board.	Total 30 Air Quality Monitoring Stations (25 fixed & 05 Mobile) have been procured and installed. The detail of 30 installed AQMSs is at Annex-A.	The detail of AQMS planned to be procured under all schemes is still pending
2	EP&CCD to have a meeting with the Finance Department to explore the possibility of recruitment of staff from non-development sides to ensure the sustainability of operations of the laboratory.	The Finance Department has created 50 SNE posts Vide No. FD.SO (EP)4-180/2023 dated 19-03-2024 for the Divisional Headquarters of Environment Protection Agency. Therefore, no new posts are demanded for subject scheme and the requirement of HR will be made through internal arrangements (Annex-B).	The minutes of the meeting with Finance Department on subject matter is missing. The HR need to be dropped from the PC-I which will change the cost from Rs. 204.415 million to Rs. 167.915 million.
3	EP&CCD to provide details of sample collection and number of analyses done based on frequency, time, and utilization of the report from 2 other divisional labs.	The details of sample collection have been received from EPA lab, Lahore and Faisalabad on the basis of frequency, time and utilization. The details are placed at (Annex-C).	The detail of utilization of report is still pending.

13. Recommendations

The position Paper is placed before PDWP for approval of vehicles component at a cost of Rs. 38.85 Million for consideration/ approval.

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