

Environmental Monitoring Report

2nd Semi-annual Report (July 2023 - December 2023)
December 2023

Pakistan: Improving Workforce Readiness in Punjab Project (IWRPP)

Prepared by Project Implementation Unit (IWRPP) for the Industries, Commerce, Investment & Skills Development Department (ICI & SDD) and the Asian Development Bank.

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CURRENCY EQUIVALENTS

(as of 31/06/2023)

Currency unit	–	Pakistan Rupees (PKRs)
PKR 1.00	=	\$ 0.0034
\$1.00	=	PKR 290

ABBREVIATIONS

ADB	Asian Development Bank
BOQs	Bill of Quantities
COE	Center of Excellence
C & W	Communication and Works
EHS	Environment Health & Safety
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
GCT	Government College of Technology
GoPb	Government of Punjab
GRM	Grievance Redressal Mechanism
GSTC	Government Staff Training College
GTTI	Government Technical Training Institute
HOD	Head of Department
ICI& SDD	Industries, Commerce, Investment, and Skills Development Department
ICT	Information & Communication Technology
IEE	Initial Environmental Examination
IFB	Invitation for Bid
IWRPP	Improving Workforce Readiness in Punjab Project
LED	Light Emitting Diode
NOL	Non-Objection Letter
PIU	Project Implementation Unit
PPE	Personal Protective Equipment
PVTC	Punjab Vocational Training Council
SAEMR	Semi-Annual Environmental Monitoring Report
SPS	Safeguard Policy Statement
SSEMP	Site Specific Environmental Management Plan
TEVTA	Technical Education and Vocational Training Authority
TVET	Technical and Vocational Education and Training
VTI	Vocational Training Institute

TABLES

Table 01: Gender Responsive Design Features

Table 02: Construction Scope of Work

NOTE

- (i) In this report, "\$" refers to United States dollars

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1 INTRODUCTION

1.1 Preamble

1. This report represents the Semi - Annual Environmental Monitoring Review (SAEMR) for Improving Workforce Readiness in Punjab Project (IWRPP). This report is the 2nd EMR for the project.

1.2 Project Brief

2. Project will upgrade 19 TVET institutes including 16 Institutes managed by TEVTA and 03 institutes managed by PVTC into Centres of Excellence (COEs). There will be civil works in 17 institutes and Centre for Agricultural Machinery Industries Mian Channu & Institute of Surgical Technology Sialkot will be upgraded with latest equipments. All the 19 COEs will deliver CBTA-approach training programs in eight priority economic sectors. Six of these priority economic sectors are vertical sectors: (i) tourism and hospitality [3 COEs]; (ii) automobile and motorbike assembly, parts and repair [2 COEs]; (iii) construction [2 COEs]; (iv) textiles and garments [2 COEs]; (v) food processing (including agriculture, dairy and livestock products) [2 COEs]; and (vi) health [1 COE]. The remaining two are cross-cutting sectors: (i) light engineering (renewable energy, surgical instruments, farm machinery, and general) [6 COEs]; and (ii) information communication technology (ICT) [3 COEs].

3. During the reporting period, detail estimates and drawings have been prepared by C & W and shared with PIU. In the light of estimates, Bidding documents of 17 COEs have been prepared by PIU on ADB standard template for small works including environmental safeguards attributes and forwarded to ADB for review. After receiving NOL from ADB, Invitation for Bid (IFB) for all 05 packages have been advertised and last date for bid submission is 01 January, 2024.

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

4. The IWRPP will finance the establishment of TVET COEs—institutes that deliver high quality and relevant training, as well as provide sector leadership, best practice, and support for other TVET institutes, in priority economic sectors. These COEs will be established in existing TEVTA and PVTC institutes. The establishment of COEs is consistent with Pakistan’s National Skills for All Strategy (2018), which recommended they be set up as a means of improving quality by showcasing best international practice. 19 COEs will help to increase the supply of skilled workers to meet industry demand by lifting the quality and relevance of TVET programs in priority economic sectors. In total, 19 training institutes, 16 in existing TEVTA institutes and 3 in existing PVTC institutes will be transformed to COEs among the TEVTA-based COEs, institutes will operate under revised funding and governance arrangements, including increased institutional budget and management autonomy; revised pay and staffing arrangements, including competitive recruitment of staff; intensive management training; and increased levels of institutional funding. Similarly, revised funding and governance arrangements will be made for PVTC institutes.

5. COEs will receive upgraded facilities, such as workshops, and classrooms; updated equipment and furniture; training for institute management; pedagogical and technical training for teachers and master trainers; and development of an institute quality assurance system. To increase women and girls’ access to quality TVET services particularly those coming from remote and rural areas selected COEs will receive student dormitories. They will also provide curricular and teacher training support to surrounding TVET institutes, thus contributing to a more.

2.2 Project Contracts and Management

6. The ICISDD will be fully responsible for the implementation of all project components except for civil works component, where they will get implementation support from communication and works department (C&WD). The following broader roles are responsible are identified for the implementation of civil works component.

7. Following are the roles and responsibilities for civil works component:

- (i) The PIU will be overall responsible to ensure timely delivery of civil works component;
- (ii) The detailed design, BOQs, cost estimates etc. will be prepared by C&WD;
- (iii) Recruitment of supervision consultant will be led by PIU

- (iv) The procurement of civil works will be led by PIU (Respective C&WD staff will be part of procurement committee);
- (v) Supervision consultant and civil work contractors will work directly under respective C&WD field staff;
- (vi) C&WD will be responsible for quality assurance; and

8. Following are key stakeholders of project with key environmental/social/gender staff in their organizations.

ICI & SDD: ICI & SDD established PIU under IWRPP has following safeguards key staff recruited.

- Deputy Director Environment - Mr. Syed Mohammad Asif Gillani
- Assistant Director Social - Mr. Qamar Zaman Bodla
- Gender Specialist - Mrs. Naima Rasheed

C & W: C & W has no key environmental/social/gender staff hired under IWRPP.

Construction Supervision Consultant: Construction Supervision Firm services will be available in 1st Quarter 2024. Construction Supervision Consultant will hire following key staff during the construction phase of civil work.

- Lead EHS Specialist (01)
- Social Development Specialist (safeguards/gender) (01)
- Deputy EHS Specialists (02)
- Environment Specialist (01) during Defect Liability Period

Contractor: No civil works contracts have been awarded. Contractor will be engaged in 1st Quarter 2024. Contractor will hire services of following key safeguards staff during the construction phase of civil works.

- Environment Specialist
- HSE Specialist

2.3 Project Activities during Current Reporting Period

9. Major activities which have been carried out during the current reporting period include:

- Inclusion of environmental monitoring costs during the construction phase in BOQs and Bidding documents.
- Inclusion of HR costs for Contractors in BOQs and Bidding documents.
- Inclusion of plantation cost in BOQs and Bidding documents.

- Inclusion of Environmental Enhancement Measures in BOQs and Bidding documents i.e. Solar Panels systems, LEDs for energy conservation, RO plants for drinking water improvement.
- Inclusion of EHS control measures in BOQs and Bidding documents i.e. PPEs, trainings etc.

2.3.1 Gender Responsive Design Features-Gender Action Plan

10. Adding gender-responsive design features in the planning and construction phase of technical and vocational training centres are crucial to ensure that individuals of all genders have equal access and opportunities. Therefore, drawings of selected sites are thoroughly reviewed and assessed as per guidelines. In this regard, status of relevant indicators is given below Table 01;

Table 01: Gender Responsive Design Features

Activities	Performance Targets/Indicators	Status
1.1 Equip the COEs with design features responsive to gender differentiated needs of students and staff	1.1.1 4 COEs established in female TEVTA institutes have dormitories for female students (2020: no female dormitories in COEs established in female TEVTA institutes)	Hostels for females are included in the drawings of below mentioned COEs; <ul style="list-style-type: none"> i. Government College of Technology (Women), Lytton Road Lahore ii. Government College of Technology (Women) Peoples Colony Faisalabad iii. Government Technical Training Institute Women Murree <p>Note: Government Vocational Training Institute (Women), Kartarpura, Rawalpindi has been dropped due to several reasons including accessibility and congestion issues.</p>
	1.1.2 100% of renovated COEs incorporate gender-inclusive design features (2022 baseline: No COEs with gender-inclusive design features)	Gender- inclusive design features are incorporated in all the drawings of selected COEs based on given criteria; <ul style="list-style-type: none"> i. Separate toilets for men and women ii. Separate toilets for disabled persons

		iii. Common Room iv. Day care center v. Ramps vi. Closed-circuit television facilities
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2.3.2 Grievance Redressal Mechanism

11. During civil work GRM will be established on each site of the project. During implementation phase Proper complain registered will be placed on each site and effective solution will be provided to community, students or any other stakeholders in case of any adverse effect.

12. The architectural design layout plans of proposed renovation and construction works for all 17 selected COEs were reviewed by PIU IWRPP office and analysed with information and data available about land plot sizes, its usages and layout of existing building facilities. ground verification of land plot size, its ownership status, usage (covered area under existing building and open/vacant area) with vacant land available for hosting designed new facilities (classrooms, workshops and dormitories) wherever needed.

2.3.3 Summary of Construction Scope of Work

13. The summary of construction scope of work for each COE are given below in Table 02.

Table No. 02 Construction Scope of Work

Sr. No.	Name of COEs	Location	Major Scope of New Civil Works	Scope of Work (Repair/Renovation)
01	Government Technical Training Institute (GTTI)	Sheikhupura	<ul style="list-style-type: none"> ▪ 21 Labs ▪ 20 Adjacent Stores ▪ 21 Adjacent Offices ▪ 04 Classrooms ▪ 02 HOD / Staff Room ▪ 12 Washrooms ▪ 01 Day-care Centre ▪ 02 Common Room 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on
02	Government College of Technology (GCT)	Faisalabad	<ul style="list-style-type: none"> ▪ 04 Labs ▪ 04 Adjacent Stores ▪ 04 Adjacent Offices ▪ 05 Classrooms ▪ 01 HOD / Staff Room ▪ 06 Washrooms ▪ 01 Day-care Centre 	No repair work involved. All new infrastructure will be developed.

			<ul style="list-style-type: none"> ▪ 01 Common Room 	
03	Government College of Technology (GCT)	Sahiwal	<ul style="list-style-type: none"> ▪ 03 Labs ▪ 03 Adjacent Stores ▪ 03 Adjacent Offices ▪ 03 Classrooms ▪ 01 HOD / Staff Room ▪ 06 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Re-plaster work ▪ Re-surfacing of road. ▪ Provision of parking shed ▪ Repair of walk way
04	Government College of Technology Printing and Graphic Arts, Allama Iqbal Town	Lahore	<ul style="list-style-type: none"> ▪ 03 Labs ▪ 03 Adjacent Stores ▪ 03 Adjacent Offices ▪ 02 Classrooms ▪ 01 HOD / Staff Room ▪ 05 Washrooms ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Provision of new Gate & Gate pillar ▪ Painting of doors/windows and glasses. ▪ Construction of parking shed ▪ Construction of Walkway with tuff pavers
05	Government College of Technology for Women (GCT-W), Lytton Road	Lahore	<ul style="list-style-type: none"> ▪ Shadi Lal building will be repaired / renovated to accommodate the classrooms and labs requirement of ICT courses. ▪ Renovation of Hostel 	<ul style="list-style-type: none"> ▪ Shadi Lal building will be repair / renovated to accommodate the class room and labs requirements of ICT courses. Hostel will also be renovated. ▪ Re-plastering, Distempering/painting work. ▪ Weather shield on exterior surface. ▪ Replacement of floor. ▪ Provision of car shed. ▪ Replacement of roof slab along with new ▪ Replacement of electrical fixtures and sanitary items ▪ Replacement of windows/ doors and safety grill ▪ Provision of additional / alteration work of classroom. ▪ Replacement of roof tiles and rain down pipes. ▪ Replacement of old un-serviceable false ceiling.

06	Vocational Training Institute (VTI), Green Town	Lahore	<ul style="list-style-type: none"> ▪ 16 Labs ▪ 16 Adjacent Stores ▪ 16 Adjacent Offices ▪ 03 Classrooms ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ Construction of labs for new trades ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Replacement of floor with ceramic tiles ▪ Replacement of windows along with safety grill. ▪ Replacement of electrical fixtures ▪ Replacement of windows/doors
07	Government Technical Training Institute (GTTI) for Women	Murree	<ul style="list-style-type: none"> ▪ 06 Labs ▪ 04 Adjacent Stores ▪ 04 Adjacent Offices ▪ 04 Classrooms ▪ 04 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room ▪ Hostel for 25 Trainees 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Repair of student lavatory complete ▪ Replacement of windows/doors ▪ Electrical items replacement ▪ Replacement
08	Government Staff Training College (GSTC)	Murree	<ul style="list-style-type: none"> ▪ 06 Labs ▪ 04 Adjacent Stores ▪ 04 Adjacent Offices ▪ 04 Classrooms ▪ 04 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ No repair work involved. <p>All new infrastructure will be developed.</p>
09	Vocational Training Institute (VTI)	Rawalpindi	No New Construction involved.	<ul style="list-style-type: none"> ▪ Repair work including dismantling/ roof work etc. ▪ Floor Tile Work of the building (Complete in all aspect). ▪ Wall tiles for elevation and corridor etc. ▪ Paint work of the building ▪ Roof Ceiling of the building. ▪ Aluminium Doors/Windows ▪ Mosque Renovation in all aspect (Tiles/Paint/Shed) ▪ Renovation/Reconstruction of Wash Room ▪ Electrification

10	Government College of Technology (GCT)	Multan	<ul style="list-style-type: none"> ▪ 6 Labs ▪ 16 Adjacent Stores ▪ 16 Adjacent Offices ▪ 03 Classrooms ▪ 01 HOD / Staff Room ▪ 08 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Painting of doors/windows and glass
11	Government College of Technology (GCT)	Bahawalpur	<ul style="list-style-type: none"> ▪ 16 Labs ▪ 15 Adjacent Stores ▪ 15 Adjacent Offices ▪ 01 HOD / Staff Room ▪ 08 Washrooms ▪ 01 Day-care Centre ▪ 02 Common Room 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Replacement of wash room accessories ▪ Replacement of electrical fixtures
12	Government College of Technology (GCT) for Women	Faisalabad	<ul style="list-style-type: none"> ▪ 06 Labs ▪ 06 Adjacent Stores ▪ 06 Adjacent Offices ▪ 02 Classrooms ▪ 01 HOD / Staff Room ▪ 06 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room ▪ 02 Cafeteria ▪ 01 Display Room ▪ Hostel for 50 trainees 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Replacement of existing sewer pipe line ▪ Repair of student lavatory complete ▪ Replacement of exiting floor with tiles ▪ Replacement of windows/doors ▪ Replacement of roof tiles.
13	Government Technical Training Institute (GTTI)	Faisalabad	<ul style="list-style-type: none"> ▪ 15 Labs ▪ 15 Adjacent Stores ▪ 15 Adjacent Offices ▪ 02 Classrooms ▪ 06 Washrooms ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ No repair work involved. ▪ All new infrastructure will be developed.
14	Government College of Technology (GCT)	Sialkot	<ul style="list-style-type: none"> ▪ 12 Labs ▪ 08 Adjacent Stores ▪ 08 Adjacent Offices ▪ 08 Classrooms ▪ 06 Washroom ▪ 01 Day-care Centre ▪ 01 Common Room 	<ul style="list-style-type: none"> ▪ Replacement of floor ▪ Replacement of windows/doors ▪ Weather shield on exterior
15	Government Technical Training	Bahawalpur	<ul style="list-style-type: none"> ▪ 08 Labs ▪ 06 Adjacent Stores ▪ 06 Adjacent Offices ▪ 01 Classrooms ▪ 06 Washrooms ▪ 01 Day-care Centre 	<ul style="list-style-type: none"> ▪ Distempering/painting work ▪ Weather shield on exterior surface. ▪ Replacement of floor with ceramic tiles ▪ Replacement of windows

	Institute (GTTI)		<ul style="list-style-type: none"> 01 Common Room 	<ul style="list-style-type: none"> Replacement of electrical fixtures Replacement of windows Provision of false ceiling
16	Government College of Technology (GCT)	Gujranwala	<ul style="list-style-type: none"> 07 Labs 08 Adjacent Stores 08 Adjacent Offices 04 Classrooms 06 Washrooms 01 Day-care Centre 01 Common Room 	<ul style="list-style-type: none"> Distempering/painting work Weather shield on exterior surface. Painting of doors/windows and sashes
17	Vocational Training Institute (VTI)	Multan	<ul style="list-style-type: none"> 03 Labs 10 Classrooms 01 Day-care Centre 01 Common Room 	<ul style="list-style-type: none"> Repair work including dismantling/ roof work etc. Floor Tile Work of the building (Complete in all aspect) Wall tiles for elevation and corridor etc. Paint work of the building Roof Ceiling of the building Aluminium Doors/Windows Mosque Renovation in all aspect (Tiles/Paint/Shed)
18	Centre for Agricultural Machinery Industries	Mian Channu		<ul style="list-style-type: none"> No civil work
19	Institute of Surgical Technology	Sialkot		<ul style="list-style-type: none"> No civil work

2.4 Description of Any Changes to Project Design

14. No change has been made in project scope of work and design which have any negative environmental impacts. Therefore, no need of any updation in IEE/ Environmental Management Plan (EMP).

2.5 Description of Any Changes to Agreed Construction methods

15. There is no change in agreed construction methods. There will be repair/rehabilitation/new construction of building with basic masonry works. No hazardous waste generation envisaged due to any working activity.

3. ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

16. There are no construction activities commenced under the project. Environmental Safeguard Activities will be monitored during the construction phase. All the requisite environmental prospects of construction phase have been added in the Bidding documents and detail estimates.

3.2 Site Audits (N/A)¹

3.3 Issues Tracking (Based on Non-Conformance Notices) (N/A)

3.4 Trends (N/A)

3.5 Unanticipated Environmental Impacts or Risks (N/A)

¹ N/A: Non availability of data due to non-commencement of construction activities during reporting period

4) RESULTS OF ENVIRONMENTAL MONITORING (N/A)

4.1 Overview of Monitoring Conducted during Current Period

17. No environmental monitoring has been conducted during the reporting period. Environmental monitoring will be conducted as construction phase get started.

4.2 Trends (N/A)

4.3 Summary of Monitoring Outcomes (N/A)

4.4 Material Resources Utilisation (N/A)

4.5 Waste Management (N/A)

4.6 Health and Safety (N/A)

4.7 Training (N/A)

5) FUNCTIONING OF THE SEMP

5.1 SEMP Review

18. Contractor will prepare Site Specific Environmental Management Plan (SEMP) before the commencement of construction activities and submit to PIU and Supervision Consultant for review and approval. SEMP approval would be provided to Contractor with consent of Environment Team, ADB. No civil works will be started without approval of SEMP.

6) GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT (N/A)

6.1 Good Practice (N/A)

6.2 Opportunities for Improvement (N/A)

7) SUMMARY AND RECOMMENDATIONS (N/A)

7.1 Summary

7.2 Recommendations