Environmental Monitoring Report

6th Semi Annual Report July to December 2022

PAKISTAN: Punjab Intermediate Cities Improvement Investment Project

Prepared by Project Management Unit, Punjab Intermediate Cities Improvement Investment Project for the Local Government & Community Development Department, Government of the Punjab, Pakistan and the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 31st Dec 2022)

Currency unit – Pakistan rupee/s (Pre/PRs)

PRe1.00 = \$0.00488 \$1.00 = PRs 235.5

NOTES

- (i) The fiscal year (FY) of the Government of the Islamic Republic of Pakistan and its agencies ends on 30 June.
- (ii) In this report, "\$" refers to United States dollars.

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PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM (PICIIP)



Top Priority
Through Email

No.LG&CD/PICIIP/PMU-SAEMR/2022 Government of the Punjab Local Government & Community Development Department

Dated Lahore, the 07th April, 2022

To,

The Senior Project Officer

Urban, Water and Emergency Assistance Asian Development Bank, Pakistan Resident Mission

Subject:- 6th SEMI ANNUAL ENVIRONMENTAL MONITORING REPORT FOR PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM

Dear Mr. Umar,

Please find enclosed herewith the 6th Semi Annual Environmental Monitoring Report for the reporting period 1st July to 31st December 2022 for the review and the approval of Asian Development Bank.

Best regards,

M. Hamza Saliek (PAS)

Program Director (PICIIP)

LG&CD Department

No. & Date even:-

A copy is forwarded for information and further necessary action to:-

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- 2. Chief Engineer, PICIIP, LG&CD Department
- 3. Director (Procurement & Contracts) PMU, PICIIP, LG&CD Department
- 4. Director (Admin & Finance PMU, PICIIP, LG&CD Department
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- 6. Infrastructure Engineer, CIU Sahiwal & Sialkot, PICIIP, LG&CD Department
- 7. EPCM Consultant, PICIIP
- 8. Master File

Abbreviations

ADB Asian Development Bank
CAP Corrective Action Plan

HSE Health Safety and Environment

EPA Environmental Protection Agency

EIA Environment Impact Assessment

EMP Environmental Management Plan

GOP Government of Punjab
GOP Government of Pakistan

Km Kilometer

PEQS Punjab Environmental Quality Standards

PICIIP Punjab Intermediate Cities Improvement Investment Program

PIC Project Implementation Consultant

PM Particulate Matter

PMU Program Management Unit
PIU Project Implementation Unit

PMCSC Project Management Construction Supervision Consultants

SSEMP Site Specific Environment Management Plan
SAEMR Semi - Annual Environmental Monitoring Report

SOP Standard Operating Procedure

TABLE OF CONTENTS

1.	INT	RODUCTION	1
	1.1	Preamble	1
	1.2	Headline Information	2
2.	PRO	DJECT DESCRIPTION AND CURRENT ACTIVITIES	4
	2.1	Project Description	
	2.1.1	Water Supply & Sewerage System of Sahiwal City	5
	2.1.2	Water Supply & Sewerage System of Sialkot City	5
	2.1.3	Sahiwal & Sialkot Parks	
	2.1.4	PLGA	6
	2.2	Project Contracts and Management	6
	2.3	Project Activities during Current Reporting Period	8
	2.4	Description of Any Changes to Project Design	18
	2.5	Description of Any Changes To Agreed Construction Methods	18
3.	Env	rironmental Safeguard Activities	19
	3.1	General Description of Environmental Safeguard Activities	19
	3.2	Site Inspections / Monitoring's	20
	3.3	Issues Tracking (Based on Non-Conformance Notices)	24
	3.4	Trends	29
	3.5	Corrective Action Plan (CAP)	30
	3.6	Unanticipated Environmental Impacts or Risks	
	1.1.1	COVID-19 Pandemic	
	3.7	Grievance Redressal Mechanism	40
4.	Res	ults of Environmental Monitoring	63
	4.1	Overview of Monitoring Conducted during Current Period	63
	4.2	Trends	64
	4.3 <i>4.3.1</i>	Summary of Monitoring Outcomes	
	4.3.2	Noise Monitoring	65
	4.3.3	Air quality monitoring	
	4.3.4	Water Quality Monitoring	
	4.3.5	Noise Monitoring	
	4.3.6 4.3.7	Air quality monitoring Natural Habitat Protection	
	4.4	Material Resources Utilization	
	4.5 4.5.1	Waste Management Cumulative Waste Generation	
	7.0.1	Carrialative vvacte Contration	

	4.5.2	Current Period	83
	4.6 4.5.1	Health and Safety Community Health and Safety	
	4.5.2 4.5.4	Worker Safety and Health	
	4.5.6	Safety signboards	
	4.7	Appropriate Staff Name and Contact Details	
	4.7.1	Incidents during the reporting period	
	4.7.2	Fatalities	89
	4.8	HSE Training	89
5.	FUN	ICTIONING OF THE SSEMP	91
	5.1	SSEMP Review	91
	J. I	SSEIVIF Review	J I
6.	•	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT	
6.	GO(OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices	94 94
6.	GO(6.1 6.1.1	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness	94 94 94
6.	GO (6.1 6.1.1 6.1.2	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training	94 94 94
6.	GO (6.1 6.1.1 6.1.2 6.1.3	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication	94 94 94 95
6.	GO (6.1.1 6.1.2 6.1.3 6.1.4	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication Supervision	94 94 94 95 95
6.	GO (6.1.1 6.1.2 6.1.3 6.1.4 6.2	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication Supervision Opportunities for Improvement	94 94 94 95 95
6.	GO (6.1.1 6.1.2 6.1.3 6.1.4	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication Supervision	94 94 95 95 96
	GO (6.1 6.1.1 6.1.2 6.1.3 6.1.4 6.2 6.2.1 6.2.2	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication Supervision Opportunities for Improvement Innovation	94 94 95 95 96 96
7.	GO (6.1 6.1.1 6.1.2 6.1.3 6.1.4 6.2 6.2.1 6.2.2	OD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT Good Practices Awareness Training Communication Supervision Opportunities for Improvement Innovation Transparency	94 94 95 95 96 96

LIST OF TABLES

Table 2-1 Sahiwal WATSAN Project Lots 5
Table 2-2 Sialkot WATSAN Project Lots5
Table 2-3: Environmental Management Team 7
Table 2-4: Gulshan-e-Iqbal Park, Sialkot8
Table 2-5: PLGA Lahore
Table 2-6: Lot-01 OHR's Physical Progress Sahiwal 11
Table 2-7: Lot-01, Lot-02 & Lot-04, Sialkot
Table 3-1: Site Inspections with Significant Non-Compliances at Sahiwal 21
Table 3-2 Site Inspections with Significant Non-Compliances at Sialkot 22
Table 3-3 Site Inspections with Significant Findings at PLGA24
Table 3-4 Summary of Issues Tracking Activity for Current Period at Sahiwal 25
Table 3-5 Summary of Issues Tracking Activity for Current Period at Sialkot 27
Table 3-6: Summary of Issues Tracking Activity for Current Period at PLGA 28
Table 3-7: Corrective Action Plan (CAP) For Environment, Health And Safety Issues For Sahiwal31
Table 3-8: Corrective Action Plan (CAP) For Environment, Health And Safety Issues For Sialkot34
Table 3-9: Corrective Action Plan (CAP) For Environment, Health And Safety Issues For PLGA38
Table 3-10: Grievance Register Record Lot-01, Lot0-02, Lot-04 & WWTP Sialkot 42
Table 3-11: Grievance Register Record Lot-01 Lot-02 Lot-03 and Lot-04 Sahiwal . 54
Table 4-1: Noise Monitoring Results Lot 1, Lot 2, Lot-03 and Lot 4 for 4 th Quarter
Table 4-2: Noise Monitoring Results Lot 1, Lot 2, Lot-03 and Lot 4 for 3 rd Quarter66
Table 4-3: Air Quality Monitoring Results (24 hrs) Lot 1, Lot 2, Lot-03 and Lot 4 for 3 rd Quarter
Table 4-4: Air Quality Monitoring Results (24 hrs) Lot 1, Lot 2, Lot-03 and Lot 4 for 3 rd Quarter
Table 4-5: Drinking Water Quality Monitoring Results at Sialkot for 1 st Quarter (Lot 1, 2 & 4)70
Table 4-6: Drinking Water Quality Monitoring Results at Sialkot for 2 nd Quarter (Lot 1, 2 & 4)71
Table 4-7: Noise Monitoring Results75
Table 4-8: Air Quality Monitoring Results (24 hrs) Lot-01 and Lot-04 76
Table 4-9: Resources Used for Lot-01 & Lot-02 Sahiwal78
Table 4-10: Resources Used for Lot-01, Lot-02 & Lot-04 Sialkot79
Table 4-11: Resources Used for PLGA79

Semi Annual Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Project

Table 4-12 W	Vater Consumption During Current Period at Sahiwal	81
Table 4-13 W	Vater Consumption During Current Period at Sialkot	81
Table 4-14 W	Vater Consumption During Current Period at PLGA	82
Table 4-15 G	General Waste Management Practice	83
Table 4-16	Waste Generation and Management During Current Reporting Period at Sahiwal	83
Table 4-17	Waste Generation and Management During Current Reporting Period at Sialkot	84
Table 4-18	Waste Generation and Management During Current Reporting Period at PLGA	85

LIST OF ANNEXURES

Annexure A: Non-Conformance Notices NCN

Annexure B: Sahiwal: Environmental Test Result Reports 4th Quarter

Annexure C: Sialkot: Environmental Test Result Reports 3rd & 4th Quarter

Annexure D: Sahiwal Lot-01, Lot-02, Lot 3 and Lot 4 HSE Check List

Annexure E: Sialkot Lot-01, Lot-02, Lot-4 & WWTP HSE Checklist

Annexure F: PLGA- HSE Checklist

Annexure G: Environmental Training Record & Photographs

Annexure H: Incident investigation Notification and Accident Root Cause Analysis

Annexure I: Corrective Action Plan (CAP) - Sahiwal

1. INTRODUCTION

1.1 Preamble

1. This report presents the Semi - Annual Environmental Monitoring Review (SAEMR) for Punjab Intermediate Cities Improvement Investment Program. This report fulfills the requirements to monitor the effectiveness of ADB's Safeguards Policy Statement 2009, its implementation and to ensure sound environmental planning. During the environmental monitoring the gaps/shortcomings in the implementation of environmental safeguards as per Safeguard Policy Statement (SPS) 2009 were identified and corrective actions proposed and recommendations for future course of action provided. This report is the 6th SAEMR for the project, consisting of the following sub-projects.

Sahiwal Parks

- Chamanzar Park
- Park and Playground Near Stop # 10, Farid Town
- Fateh Sher Park

Sialkot Parks

- Sialkot Fort Park
- Abdul Hakeem Park for Ladies
- Ladies and Children Park (Model Town)
- Gulshan-e-Iqbal Park

Punjab Local Government Academy (PLGA), Lahore

■ The PLGA will be a multi-storied building meant for training of local government employees and will be constructed over an area of 10 kanals of land with dimensions of 200' x 180' with two basements and six floors.

Water Supply & Sewerage System of Sahiwal City

- Lot-1: Rehabilitation/improvement of water supply system in North Zone (Phase-1)
- Lot-2: North Zone (A) Sewerage System upto 72-inch diameter pipes and construction of allied works (Phase-1).
- Lot-3: North Zone (B) Sewerage system for conduit, pumping station and allied works.

Lot-4: South Zone (Water Supply and Sanitation)

Waste Water Treatment Plant (WWTP) North Zone Sahiwal

 Waste water treatment plant will be established on 199 acres of land in North of Sahiwal city. Waste Stabilization Pounds (WSP) will be constructed for the effluent treatment.

Water Supply & Sewerage System of Sialkot North Zone

- Lot-1: Laying of Sewerage Lines and Allied Works
- Lot-2: Laying of Pre-Cast RCC Conduits and Allied Work
- Lot-3: Construction of Influent Pumping Station, Forcemain and Allied Works
- Lot-4: Laying of Water Distribution Network

Waste water Treatment Plant (WWTP) North Zone Sialkot

 Waste water treatment plant will be established on 238 acres of land in North of Sialkot city. Waste Stabilization Pounds (WSP) will be constructed for the effluent treatment.

1.2 Headline Information

- 2. Environment team of PICIIP and EPCM has orientated all the contractors on environmental compliances as per IEEs/EMPs. The team has observed that environmental management has improved over the time on subprojects sites. ADB's recommended Corrective Action Plan (CAP) is also devised and communicated to the contractors. Contractors have been advised to address non-compliances as per agreed Corrective Action Plan. Therefore, the progress in environmental compliance is expected to improve in the coming months. The contractors on all the subprojects carried out the tasks and actions described in their EMP successfully.
- **3.** The EPCM and Health, Safety and Environment (HSE) teams at site continued to perform strict monitoring of the EMP and Health & Safety (HS) Plan implementation by the Contractor.
- **4.** On-site trainings / toolbox talks have been extensively provided to the workers by the Contractor throughout the reporting period under the EPCM supervision.
- **5.** Furthermore, due to the 3rd wave of COVID-19 pandemic outbreak the required measures being implemented, such as social distancing of project staff, the overall staff has also been reduced.

6. Also, the on-site HSE team strictly implemented the SOPs issued by Government of Punjab (GOP) for construction sites (disinfection of offices and machinery periodically, temperature screening at project entrances, provision of hand sanitizers to office and labour staff, provision of surgical face masks, instruction boards and signage at different locations for COVID-19 awareness).

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

- 7. The Asian Development Bank (ADB) and the Cities Development Initiative for Asia (CDIA) are partnering with the Government of Punjab Province (GoPP), to undertake the Punjab Intermediate Cities Improvement Program (PICIIP).
- 8. The PICIIP aims to improve the quality of urban services available in selected cities in Punjab province (city populations between 250,000 and 1,000,000). Urban infrastructure development is an important component of the PICIIP. The duration of the program will be six years. Funding will be accessed in phases. The PICIIP's overall budget is US\$250 million, to be disbursed in phases.
- 9. The first phase will fund investments in the intermediate cities of Sahiwal and Sialkot. Major projects planned for both cities are water supply improvement; sewerage and drainage improvement, sewage treatment plant, green spaces development and transport routes improvement.
- 10. Overall project will have following major outcomes:

Output 1: Water supply systems improved

Output 2: Sanitation systems improved

Output 3: Urban public spaces improved

Output 4: Institutional support and capacity development

- 11. PICIIP aims at transforming the selected urban areas into green, inclusive, resilient and competitive Smart cities with improved livability supporting social and economic growth through improved Municipal Governance, integrated urban planning, improved services delivery, efficient local mobility and climate resilient infrastructure and introduction of IT for city services delivery improvement within the frame of Smart City.
- 12. The Local Government and Community Development (LG&CD) department of Punjab is executing agency of the project and the city governments of Sahiwal and Sialkot (municipal corporations) will be the O & M agencies. A Project Management Unit (PMU) and two City Implementation Units (CIUs) have been established by LG & CD Department for successful execution of the overall program.

2.1.1 WATER SUPPLY & SEWERAGE SYSTEM OF SAHIWAL CITY

13. The Water Supply and Sanitation (WATSAN) works in Sahiwal is divided into four Lots which is given hereunder;

Table 2-1 Sahiwal WATSAN Project Lots

Sr. No.	Description	Total Length (km)
1	Lot- I - Rehabilitation/improvement of water supply system in North Zone	543
2	Lot-II - North Zone (A) Sewerage System upto 72-inch diameter pipes and construction of allied works	56.47
3	Lot- III - Sewerage system for conduit, pumping station and allied works.	4.78
4	Lot-IV - Rehabilitation / Improvement of Sewerage System in South Zone	26

14. In WATSAN works of Sahiwal, contractors have been started on-site execution after the approval of Site-Specific Environmental Management Plan (SSEMP) for Lot-01, Lot-02, Lot-03 and Lot-04 while WWTP has not been mobilized to their respective site yet.

2.1.2 WATER SUPPLY & SEWERAGE SYSTEM OF SIALKOT CITY

15. The Water Supply and Sanitation (WATSAN) works in Sialkot is divided into four Lots which is given hereunder;

Table 2-2 Sialkot WATSAN Project Lots

Sr. No.	Description	Total Length (km)
1	Lot- I - Laying of Sewerage Lines and Allied Works	33.5
2	Lot-II - Laying of Pre-Cast RCC Conduits and Allied Work	5.75
3	Lot- III - Construction of Influent Pumping Station, Force main and Allied Works	-
4	Lot-IV - Laying of Water Distribution Network	261

16. In WATSAN works of Sialkot, execution of work for Lot-01, Lot-02, Lot-03 and Lot-04 has been started after the approval of SSEMPs. WWTP contract has been awarded and SSEMP is cleared by the PMU/PMCSC with consent of ADB.

2.1.3 SAHIWAL & SIALKOT PARKS

- 17. PICIIP was undertaking rehabilitation of three public parks in Sahiwal and four public parks in Sialkot as already mentioned in **Section 1.1** above.
- 18. The major development works at parks involve landscaping, irrigation system, electrification, system, plumbing system, surveillance system, kiosks, toilet, gazebos, open gym, gardener room, cctv cameras, lake, fountain, ticketing booth, security room, jogging track, walkways, children play area etc.

2.1.4 PLGA

- 19. PICIIP is also undertaking the construction of the Punjab Local Government Academy (PLGA) in Lahore city. After promulgation of PLGA Act 2019, training is mandatory for all officers and servants of local governments and undertaking of works requiring higher engineering skills. Furthermore, heads, conveners and councilors shall cover training requirements for improved performance.
- 20. The existing PLGA cannot cater to the quality training needs of all employees and elected representatives of the province with existing infrastructure and resources. The PLGA will be a multi-storey building meant for training of local government employees and is being constructed over an area of 10.04 kanals of land with dimensions of 70.36m x 59.70m (4200.49 Sq.m) with two basements (approximately 120 Nos. Car and 200 Nos. Motorcycles parking space.) and six floors.
- 21. It includes an administration block, IT & control room, library for 40 persons capacity, prayer hall for 200 persons capacity, dining hall for 200 persons capacity, hostel mess / cafeteria for 80 persons, training classrooms for training of 300 persons at a time, syndicate discussion rooms for 20 persons, seminar hall for 100 persons, screening hall for 300 persons, executive hall for 75 persons, instructor rooms, computer laboratory for 56 person, executive suits (double occupancy), double occupancy rooms, and day care center.

2.2 Project Contracts and Management

22. The environmental management teams for PICIIP and their respective roles are as provided below as **Table 2.1**.

Table 2-3: Environmental Management Team

Organization	Discipline/	Deployed	Location	Contact no	Email Id
Organization	Designation	Team	Location	Contact no	Linairia
	Environmental Consultant	Hiring is in process	-	-	-
PMU-PICIIP	Director M&E / Environmental Engineer	Asifa Khan	Lahore	0302-8498163	engr.asifa@hotmail.com
	Deputy Director, Safeguards	Waqas Afzal	Lahore	0346-3301477	waqasafzal808@gmail.c om
	Research Analyst Environment	Jawad Shafiq	Sialkot	0322-5616588	Jawadshafiq8@gmail.com
	Research Analyst Environment	Iqra Shamsher	Sahiwal	0349-6627256	lqrashamsher909@gmail.c om
ADB	Environment Specialist	Asim Sabzwari	Head Quarter, Manila	(+632) 632- 6757 Dir: (+632) 632- 6153	asabzwari@adb.org
	Environment Specialist (Consultant)	Shazia Shahid	Islamabad	0346-0281336	sshahid.consultant@adb.or g
	Environment Consultant	Saad Malik	Islamabad	0300-5229360	Smalik.consultant@adb.org
	Resident Engineer	Rai Bilal	Lahore	0321-6905129	Rai_bilal@hotmail.com
EPCM	Resident Engineer	M. Usman	Sahiwal	0305-4444554	Usman878@yahoo.com
Consultant	Senior Resident Engineer	Saifullah Amin	Sialkot	0300-8400790	saifullah_civil@yahoo.com
	Environmental Specialist	Anas Nadeem Khan	Lahore	0331-4112481	anaskhan444@outlook.com
	HSE Expert	M. Asad Javaid	Sahiwal	0331-7532741	Asadjavaid9971@gmail.co m
	HSE Expert	Ahmed Husnain Bukhari	Sialkot	0343-4278061	ahmedhusnainbukhari@gmail .com
Contractors					
Sahiwal	1				
TMT-MAC Lot-01	HSE Manger	Ahtisham Asghar	Sahiwal	03039674272	4772ahtisham@gmail.com
CGICOP Lot-02	HSE Manger	M. Zafer	Sahiwal	0301-6533797	Zaferbutt922@gmail.com
CGICOP Lot-03	HSE Manger	M.Rashid Mahmood	Sahiwal	0300-6917016	rashid.mahmood1234@g mail.com

Semi Annual Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

ZKB-Reliable Lot-04	HSE Manger	M. Waseem	Sahiwal	0330-5878333	Wasim.ehs@outlook.com
Sialkot					
ZKB-Reliable Lot-01	HSE Manger	Siddique Shahid	Sialkot	0326-8007660	siddqueshahid@gmail.com
ZKB-Reliable Lot-02	HSE Manager	Umer Umair	Sialkot	0333-6055094	piciipzkbskt@gmail.com
Lot-03	HSE Manager	Muhammad Liaqat	Sialkot	030226433340	
ZKB-Reliable Lot-04					
WWTP	HSE Manager	Qurban Ali	Sialkot	03457777330	qurbanaliofficial@gmail.c om

23. Execution is being carried out by the Project Management Unit (PMU), which is comprised of Punjab local government staff, who are assisted by the Engineering, Procurement and Construction Supervision Consultant i.e. NESPAK for technical and commercial matters. The PMU, EPCM Consultant and Contractors' HSE teams ensure that mitigation and management measures proposed in the IEE reports and SSEMPs are implemented.

2.3 Project Activities during Current Reporting Period

Works status at Parks in Sahiwal

24. All of the three parks including Farid Town Park, Fateh Sher Park and Chaman Zar Park in Sahiwal have been completed since from the start of March 2021. The parks are handed over to PHA Sahiwal on September 30, 2021. Operational phase environmental monitoring was conducted in the month of December 2021.

Works status at Parks in Sialkot

25. All four numbers of parks including Abdul Hakeem Ladies Park, Model Town Ladies Park, Fort Park and Gulshan e Igbal Park have been completed.

Works status PLGA Lahore

- 26. During the reporting period, the status of the construction work areas is as follows:
 - ✓ External plastering progress achieved up to 100%.
 - ✓ The Internal Plastering on each floor is almost completed.
 - ✓ All brick work has been completed on all floors.
 - ✓ Tile work and Granite work is in progress from Ground floor to 5th floor.
 - ✓ PCC flooring (1:2:4) is complete for all floors.
 - ✓ Installation of HVAC ducting for ground floor to third floor is completed.
 - ✓ Installation of firefighting pipes up to 4th floor is completed. It is about 80 percent on the 5th floor.
 - ✓ For Electrical works, the wiring of Emergency and exit lightening is completed for 4 floors.
 - ✓ Cooling towers, VRF are procured and is available at site.
 - ✓ AHUs, DG Set & Elevator are ordered and LCs are opened waiting for Bank

Works status Sahiwal WATSAN (Lot-1):

27. During the reporting period, the status of the construction work areas is as follows:

Table 2-6: Lot-01 OHR's Physical Progress Sahiwal

Sr#	OHR's ID	Location	Physical Progress (Description)
1	T-5	Madina Masjid Park	OHR T-5 (Madina Masjid) Bowl completed Except Minor Work
2	T-6	Noor Park	 OHR T-6 (Mohala Noor Park) Bowl completed except stair case and Minor Work.
3	T-7	Ghalla Mandi	OHR T-7 (Ghala Mandi) completed accept minor work.
4	T-4	Batala School Ground	OHR T-4 (Batala School) Completed up to bottom of Bowls.

Table 2-7: Lot-01 Tube Well Physical Progress Sahiwal

Sr #	Tube Well ID	Location	Physical Progress (Description)
1	P-14	Farid Town Graveyard	Bore and lowering has been done Pump House Structural Work completed
2	P-24	APS School	Bore and lowering has been done Pump House Structural Work completed
3	P-27	Irrigation Colony	Bore and lowering has been done Pump House Structural Work completed
4	P-28	Govt. Postgraduate Boys College	Bore and lowering has been done Pump House Structural Work completed
5	P-29	Nai Abadi Near Bloom Field School	Bore and lowering has been done Pump House Structural Work completed
6	P-50	PILOT School	Bore and lowering has been done Pump House Structural Work completed
7	P-52	URBAN AREA School	Bore and lowering has been done Pump House Structural Work completed
8	P-10	Masjid Shuhda	Bore and lowering has been done Pump House Structural Work completed
9	P-19	GCT College	Bore and lowering has been done Pump House Structural Work completed
10	P-23	Govt. Commerce Boys College	Bore and lowering has been done Pump House Structural Work completed
11	P-54	Khizra Park	Bore and lowering has been done Pump House Structural Work completed
12	P-49	Govt. Postgraduate Girls College	Bore and lowering has been done Pump House Structural Work completed
13	P-30	Govt. Batala High School	Bore and lowering has been done Pump House Structural Work completed
14	P-21	Highway Colony, Canan Park	Bore and lowering has been done Pump House Structural Work completed
15	P-70	Pir Bhukhari Graveyard	Bore and lowering has been done

Semi Annual Environmental Monitoring Report No.5 Punjab Intermediate Cities Improvement Investment Program

16	P-75	Arifwala chowk, Multan Road	Bore and lowering has been done Pump House Structural Work completed
17	P-80	Inayat Elahi Colony near school 90/9L	Bore and lowering has been done Pump House Structural Work completed
18	P-53	L.B.D.C Canal	Bore and lowering has been done
19	P-20	Immamia College	Bore and lowering has been done Pump House Structural Work completed
20	P-26	Irrigation Colony	Bore and lowering has been done
21	P-71	Gala Mandi	Bore and lowering has been done
22	P-51	Madina Masjid	Bore and lowering has been done Pump House Structural Work completed
23	P-67	T # 6 Noor Park	Bore and lowering has been done Pump House Structural Work completed
24	P-22	Police Line	Bore and lowering has been done Pump House Structural Work completed
25	P-09	Farid Town	Bore and lowering has been done House Structural Work completed

Table 2-8 Sahiwal WATSAN (Lot-2) Pipe laying

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Table 2-8 Sahiwal WATSAN (Lot-3) Physical progress

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Table 2-9 Sahiwal WATSAN (Lot-4) Pipe laying



Materials 50 Balance Today's Next Day Stock Available at Site. Available at 51 Unit Remarks. Type Required Quantity Consumed Site **RCC Pipes** 以以外以外以外以外の 15" 245 Nos 240 242 Non 242 10 21 291 285 Nos 6 pipe carded 24" 0 Ö. Nos 406 406 Nos 11, 14 66 66 11 Nos 2 dise casted 94 Nos 3 pion casted 11 れたが Nos 105 105 No B 10 53 No 9 54 53 Nos 12 Ö 60" 0 No 13 72" 220 8 312 42 No 10 pipe casted

Table 2-8 Sahiwal WATSAN (Lot-4) Pipe Production

Works status Sialkot WATSAN Lot-1, Lot-2, Lot-03 & Lot-4

Table 2-7: Lot-01, Lot-02, Lot-03 & Lot-04 - Sialkot

No.	Description of Work		OW (Actual Phas on	Actual Physical Progress as on			Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
LOT ·	1: SEWERAGE LI	NES AN	D ALLIEI	O WOF	RKS (ZON	E 3-A)				
	Laying of RCC Pipes -Defense Road L3.8.4	20- Feb- 2022	21- Octob er-22	100	15-Feb- 21	500 Pipes of 42-inch dia has been laid 122 Pipes of 36-inch dia has been laid	100 %			

No.	Description of Work		d Physica ss as per		Actual Pl as on	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken	
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Backfilling of RCC pipes- Defense Road L3.8.4	18- April- 22	2-July- 22	100	15-April- 22	Backfilling of RCC pipes- Defense Road L3.8.4 is almost completed	100 %			
	Laying of RCC Pipes -Roras Road L3.8.5	20- Feb- 2021	29- Sep- 21	100	15-Feb- 21	181 Pipes of 33-inch dia has been laid 127 Pipes of 24-inch dia has been laid 137 Pipes of 21-inch dia has been laid 125 Pipes of 30-inch dia has been laid Chambers work Done	100			
	Backfilling of RCC Pipes - Roras Road L3.8.5	April- 24-22	3-July- 22	100	April-18- 22	Backfilling of RCC Pipes - Roras Road L3.8.5 is almost completed	100 %			
	Laying of RCC Pipes – Lateral Line L3.8.5.4	20- Feb- 2021	17- Apr-21	100 %	15-Feb- 21	88 Pipes of 15" has been laid and restoration of road completed. Manhole brickwork completed	100 %			
	Laying of RCC Pipes – Lateral Line L3.8.5.2	20- Feb- 2021	20- Octob er-21	100 %	15-Feb- 21	197 Pipes of 15" has been laid. 264 Pipes of 18" has been laid. Restoration remains.	100			

No.	Description of Work		d Physica ss as per		Actual Pl	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken	
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Trunk Line L3.6	08- Octobe r-2022	02-Jul- 22	0%	27-Sep- 2021	238 Pipes of 54" dia has been Laid. 318 Pipes of 48" dia has been Liad	95 %			
	Trunk Line L3.5	29- Sep- 2021	24- Dec- 2021	100 %	1-Oct- 2021	107 Pipes of 42" dia has been laid	48 %			
	Trunk Line L3.8.4 Defense Road	19- Nov- 2021	15- Dec- 2021	100 %	4-Dec- 2021	145 Pipes of 54" has been laid. 242 Pipes of 60" has been laid. Manhole brickwork in Prog.	95 %			
	Lateral line L3.8.4.2-A Muzaffar Pura Road	15-Jul- 2021	02- Aug- 2021	100 %	2-Oct- 2021	148 Pipes of 15" has been laid. 65 Pipes of 18" has been laid. Manhole brickwork in Prog.	97 %			
	Lateral Line 3 Kakay Wali					35 Pipes of 21" has been laid. 91 Pipes of 21" has been laid.	30 %			

No.	I PINNIAGE AS NAI		Actual Phas on	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken			
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Lateral Line 3.1 Kakay Wali	01- Apr- 2022	15- July- 2022	85 %	12 Feb- 2022	135 Pipes of 21" has been laid. 80 Pipes of 21" has been laid.	95 %			
	Khadim Ali Road L-3.6	18- March- 2022	15- Octob er- 2022	100 %	18- March- 2022	Asphaltic Base Coarse is completed	100 %			
LOT 2	2: RCC CONDUIT	S AND A	LLIED V	VORK	S (ZONE 3	3-A)				
	Factory Installation	17- Dec- 2020	17- Dec- 22	100 %		Factory Installed				
	Single Cell Conduit Production	28- Feb-21	20- Nov- 22	100	26-Feb- 21	Concrete of 1183 SCC completed	56 %			
	Double Cell Conduit Production	28- Feb-21	20- Nov- 22	100 %	26-Feb- 21	Concrete of 768 Cell completed	23 %			

No.	Description of Work		d Physica ss as per	al	Actual Phas on	nysical Progress		No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Double Cell Conduit Laying Airport Road	15- Mar-21	15- Nov- 21	100 %		60 conduits have been laid	15 %		Workin g in progre ss	Backfilli ng of laid conduit in progres s
	Single Cell Conduit Laying Marala Road	16- Apr-21	06- Feb- 22	99 %	4-Sep- 21	Laying of 548 SCC completed	42 %		Workin g in progre ss	Backfilli ng of laid conduit in progres s
	Backfilling of Single Cell Conduit Marala Road	26- March- 22	5-july- 22	85	18-April- 22	All the laid single cell conduit at Marala road has been back filled and compacted properly and FDT test is in progress	61%			
LOT (03: Laying of Forc	emain ar	nd Pumpi	ng Sta	ation					
	Dismantling of Road Structure	Dec 8, 2022	30- Octob er- 2022	7.62 %	Dec 8, 2022	October 15, 2022	5.92 %	5160 4 CFT		1
	Excavation	Dec 9, 2022	30- Octob er- 2022	75 %	Dec 9, 2022	30-October- 2022	68%	2615 20 CFT		3

No.	Description of Work		d Physica ss as per		Actual Phas on	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken	
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Pipe Jointing	Dec 9, 2022	30- Octob er- 2022	14.8	Dec 9, 2022	30-October- 2022	17.2 5%	129 No		3
	Pipe Laying	Dec 13, 2022	30- Octob er- 2022	13.6	Dec 13, 2022	30-October- 2022	15.4 1%	4796 RFT		5
	Sand Filling	Dec 13, 2022	30- Octob er- 2022	8.36 %	Dec 13, 2022	30-October- 2022	8.81	1720 0 CFT		4
	Back Filling	Dec 13, 2022	30- Octob er- 2022	13.4 7%	Dec 13, 2022	30-October- 2022	15.8 7%	7000 0 CFT		7
	Pumping Station Boundary Wall Excavation	7 April- 22	15- April- 22	48 %	7 April- 22	North and South Boundary Wall excavated	32%	552 RFT		
	Sand Laying of Pumping Station Boundary Walls	24- April- 22	15- Octob er-22	46 %	24-April- 22	South side boundary wall bricks work is in progress	42%	45	Site posses sion issues and rainfall	DD PMU and Consult ant was coordina ted to resolve the issue

No.	Description of Work	of POW		Actual Phas on	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken		
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
	Construction of Boundary Wall of Effluent Pumping Station	15- Octobe r-22	22- Octob er-22	46 %	15-Oct- 22	South Side lean, Steel Column, and Brick Work	21%	27	Rain Fall and Shorta ge of materia I at site	proper planning was done to avoid any issue that cause delays.
LOT 4	4: WATER SUPPI	_Y SYST	EM (ZON	NE 3-D))					
1	Over Head Water Tank T19 UC Mubarak Pura	21- Jan- 2021	15- Jun- 2022	91	26-Dec- 2021	Top Roof Slab Concrete is Completed	85 %			1
2	Over Head Water Tank T40 UC Bounkan	20- Jan- 2021	15- Octob er- 2022	91	4-Jan- 21	Bowl Framework is completed	77%			2
3	Over Head Water Tank T18 UC Model Town	20- Jan- 2021	11- Jun- 2022	91 %	14-Jan- 21	Bowl Folding	70%			3
4	Over Head Water Tank T10 UC Water Works	23- Jan- 2021	6- Octob er- 2022	95 %	21-Jan- 21	RCC Shaft is Completed and Bowl Formwork in Progress	85%			4

No.	Description of Work	Progress as per		Actual Pl as on	nysical Progress	No of Days Dela yed	Remar ks / Reaso ns of Delay	Correcti ve Measur es/Acti ons Taken		
		Start Date	End Date	Pla nne d %	Start Date	Status	Actu al %			
5	Over Head Water Tank T50 UC Ahmad Pura	1-Mar- 2021	31- Mar- 2022	97	-	Shaft is Completed	70%			5
6	New Tube wells (14 nos.)	17- Dec- 2020	16- Jun- 2022	90\%	17-Dec- 20	Boring & Lowering and D&T completed @ 7 no. Tube well.	55%			6
7	Pipe Laying of Water Supply Line 3.8.4 at Defense Road	14- Jan- 2021	28- Octob er- 2022	100 %	19-Jan- 2021	Pipe Laying of Water Supply Line 3.8.4 at Defense Road is Completed	100 %			7
8	New Filtration Plants			85 %			0%		Insuffic ient Workin g Space	8
9	Replacement of existing Filtration Plants			75 %			15%		Insuffic ient Workin g Space	9
10	Water Distribution Network	17- Dec- 2020	16- Jun- 2022	85 %	17-Dec- 20	Excavation and pipe laying in progress	35%		73527 RFT HDPE Pipe has been tested	10

2.4 Description of Any Changes to Project Design

28. All the projects have been commenced/ constructed on the same design and route which is given in IEEs. No major change has been made to the project design.

2.5 Description of Any Changes to Agreed Construction Methods

29. No change in the construction methodology has taken place except the addition of shuttering for deep trenches to avoid land sliding during civil work i.e in case of Lot-01 Sialkot pipe laying, jointing of pipe and manhole construction as well as in case of Lot-02 Sialkot laying and jointing of conduit cells remaining works are continued with the initially developed method statements.

3. Environmental Safeguard Activities

3.1 General Description of Environmental Safeguard Activities

- 30. The key monitoring activities conducted within the reporting period are as follows:
- Quarterly EMP compliance monitoring was carried out by environment teams to identify any environmental non-compliance issues requiring attention;
- Supervision for trainings being conducted by Contractor for its staff were provided by the PMU & EPCM environment teams;
- Total 102 Trainings on HS Plan implementation for Contractors staff were organized by the HS team in Sahiwal and Sialkot.
- The EPCM environment team held follow-up meetings with the Contractors for checking the compliance status of previously highlighted issues.'
- ADB Environment Team Mr. Syed Asim Ali Sabzwari (Country Environment Focal -Pakistan) and Shazia Shahid (Environment Consultant) have conducted Country Safeguards Review Mission in September 2022. The purpose of the mission was to monitor and follow up on EMP implementation and training need assessments. They carried meetings with PMU, CIU, NESPAK and Contractors and site visits were also carried to sub projects in Sahiwal and Sialkot. A CAP was prepared by ADB environment team based on field visits and meetings. The status of the CAP as of December 2022 is provided in table 7.1.
- The contractor HSE manager have conducted the regular field inspections and compliance were checked through Environment Checklist which were then shared with the contractor and Environmental Specialist (Consultant). The contractor environmental specialists submit the environmental progress of the site through monthly environmental compliance report to the environmental specialist of Consultant.

3.2 Site Inspections / Monitoring's

31. Contractors are supposed to conduct internal inspections and review by their own staff to ensure a safe, healthy, and secure environment, both physically and behaviorally, for workers, equipment, property, visitors, and the public. NESPAK has undertaken site inspections of all under execution subprojects.

The findings of these inspections are being updated regularly in monthly environmental monitoring reports. Contractors are advised to submit weekly environmental monitoring checklist reports to NESPAK and implement the environmental compliance activities in accordance with the approved IEEs/EMPs. Contractors are improving their environmental compliance. To ensure implementation of EMP the contractors were asked to nominate their focal persons/site inspectors who will be responsible for environmental safeguards implementation, the contractors have dedicated environmentalists in their staff. The nominated site inspectors, HSE Managers and Environmentalists were trained on EMP/SSEMP implementation and directed to submit weekly checklist regularly to NESPAK.

- 32. HSE Expert and Assistant Resident engineers of NESPAK carried out field visits of all subprojects on regular basis. During these field visits meetings are convened with the contractors' staff and workers, visual observations and photographs are taken and key findings are discussed with the concerned engineering staff and the contractors. Recommendations are communicated to the contractor to address environmental issues and non-compliances on all the subprojects.
- 33. The contractor HSE expert have conducted the regular field inspections. The results of the internal inspections have been shared with the contractor staff itself and to the Consultant-Environmental Specialist.

Table 3-1: Site Inspections with Significant Non-Compliances at Sahiwal

Lots Significant Non-Compliance
Lot-1: Water Supply System, Filtration Plants, Tube Wells, OHRs, SCADA and Allied Works Lot-2: North zone A Trunk Main Sewer Lines and Allied works. Lot-3 North Zone (B) Sewerage system for conduit, pumping station and allied works. Lot-4: South Zone (Water Supply and Sanitation) • Shuttering must be placed at deep excavation sites. • Personal protective equipment (PPE) must be provided to the workers. • Excavated Soil material must be 1 meter away from edge of trench. • Ladder must be provision for access and aggress in the trench • Water sprinkling is advised to be done regularly. (Dust was observed on site). • Compliant number board should be place on all sites. • Oil drums must be placed on concrete paved

- 34. Few of the common issues were identified during current reporting period summarizes as under-:
 - a) Ambulance services are also not seen at sites however contractors have vehicles to deal with emergencies
 - b) Hard barricading issues were on Lots #4 during this reporting period.
 - c) Signage related to complaint number, health and safety as well as traffic information board were missing on both Lots during this reporting period.
 - d) Sandy strata were issue on 72" dia line, which was a big risk of land sliding.
 - e) The Contractors mostly provided PPEs to their work force but the weak implementations have been observed on Lot I. The non- conformances notices have been issued and the contractors were instructed to provide the PPEs and train / motivate the workforce for the use of PPEs.

f) Dust was eroded on the road at conduit Water sprinkling was also advised to the contractor for Lots (III).

Table 3-2 Site Inspections with Significant Non-Compliances at Sialkot

Lots	Significant Non-Compliances
Lot- I - Laying of Sewerage Lines and Allied Works	 Shoring of trench to avoid land sliding during the work in deep work site not provided Use of hard barricade around the deep trenches not provided completely
Lot-II - Laying of Pre- Cast RCC Conduits and Allied Work Lot-III - Laying of	 Excavation only such lengths of trenches which can be backfilled in 2 to 3 days in wide streets and 01 day in narrow streets to avoid inconvenience to the public was not followed. Safety Barriers along deep excavations to avoid any
Forcemain, Pumping station and Allied Work	 Salety Barriers along deep excavations to avoid any mishap not provided completely. Ensure Dust Control on site. Delays in restoration caused inconvenience for public
Lot-IV - Laying of Water Distribution Network	 Provide and fix banners in eye catching colours on all working sites, showing general information of the project and in particular, start and completions dates in that particular area. Few of the signage are also missing
	 Workers at OHR shaft are exposing to height hazard and no safety harness is provided to them. HSE Manager for Lot-04 not appointed yet

- 35. As already reported during the previous reports, the environmental guidelines are being followed. However, the contractors have willingness to follow the environmental guidelines and the environmental team of PMU is continuously working on the capacity building. Some of the findings of the recent environmental inspection are as follows:
 - a) HSE manager of Lot-04 has to be hired.
 - **b)** Weekly checklists are being submitted on regular basis.
 - **c)** Water sprinkling is done regularly on dust prone areas where the dry, loose dirt picks up in the wind.
 - **d)** Collecting Kitchen waste at separate bins and disposing of in a pit at designated area/s has been improved at all under construction sites.

- **e)** Construction equipment and machinery is fitted with silencers and maintained properly.
- **f)** Surface water or ground water contamination, due to oil spillage or solid waste, has not occurred at any sites.
- g) Noise level recorded was within the permissible NEQs and WHO limits at most of the under construction sites except few at major roads which is due to heavy machinery and urban corridor, the results are show in Table 4-1 to 4-2.
- **h)** Site fencing with warning tape has been done on almost all the sites while sign boards are placed on sites.
- i) During the reporting period, numbers of complaints were received and record is shown in table 3-10, no major grievances were recorded. Contractors are addressing the issues on priority basis in consultation with PMU and NESPAK. Other minor onsite grievances are being addressed in consultation with local communities.
- j) There are no damages to houses or shops at any site.
- k) No damage to Archaeological /Religious/Cultural or Historical sites.
- I) First Aid Kits are available at construction sites.
- **m)** Dispensary has been developed at Campsite for health and Safety of workers.
- n) Ambulance services are also not seen for all lots separately at sites but supervision Consultant issued non-compliance to the Contractor for arrangement.

Table 3-3 Site Inspections with Significant Findings at PLGA

Project	Significant Findings
Construction of the Punjab Local Government Academy (PLGA) in Lahore	 Stagnant water on site. No Personnel protective Equipment available on-site entrance for visitor. Scattered scaffolding and shuttering poor housekeeping on site. No safety signboards on site entrance. No hard railing and barricading at site entrance for safety and security purposes. Stairway without protective hard railing and barricading.

36. The corrective action plan and trainings brought major change in the behavior of contractors. As a result, environmental compliance is seriously considered in project execution. Site inspectors have been trained and SSEMPs are being implemented. The implementation of SSEMP and further trainings will bring major change in the behavior of the contractor's staff towards environmental friendly construction of all the sub projects. The contractors have assured that they will not harm the local environment and will take all the necessary steps for the protection and conservation of natural environment and will make sure the health safety of workers and local community.

3.3 Issues Tracking (Based on Non-Conformance Notices)Sahiwal Lot-01, Lot-02, Lot-03 and Lot-4

- 37. The overall environmental progress of almost all of the subprojects improved during this reporting period. The total average compliance status was 78.2%, which is calculated on the basis of observation checklist.
- 38. Hard barricade around the deep trenches are installing at lot#2 and lot#3
- 39. The issues found at Sahiwal during this reporting period is given as under-:
 - Due to heavy traffic at 60" dia line, the dust was observed which effecting local community delays in restoration work of Lot-02.
 - Empty oil drum found in pipe production factory area (CGICOP).
 - Presence of debris / excavated material at project site e.g. dismantled material, bricks etc. The issue of the dust emission, scattered material, poor housekeeping was found on Lot II & IV.
 - Used oil filter were found at generator area on Lot IV.

40. The summary of the issues is given as under-:

Table 3-4 Summary of Issues Tracking Activity for Current Period at Sahiwal

Lot Name	Total number of issues for the project	Number of open issues	Number of Closed Issues	Percentage closed	Issues Open this reporting period	Issues Closed this reporting period
Lot-1: Water Supply System, Filtration Plants, Tube Wells, OHRs, SCADA and Allied Works Sahiwal	4	1	3	75	0	0
Lot-2: North zone A Trunk Main Sewer Lines and Allied works. Sahiwal	7	2	5	71	1	1
Lot-3 North Zone (B) Sewerage System for conduit, pumping station and allied works.	8	1	7	87	1	1
Lot-4: South Zone (Water Supply and Sanitation)	5	1	4	80	1	1
Accumulative Data	24	5	19	78.2	3	3

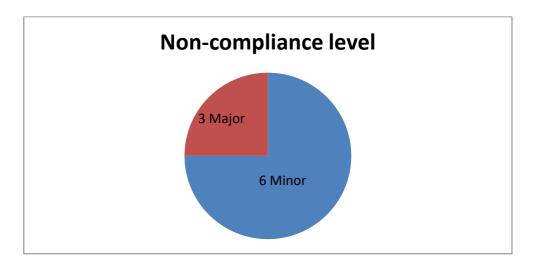


Figure 3-1 Summary of Issues by Non-Conformance at Sahiwal

Sialkot Lot-01, Lot-02, Lot-03, Lot-04 & WWTP

- 41. The overall environmental progress of almost all of the subprojects remain consistent during this reporting period. The total average compliance status was 75.20%, which is calculated on the basis of observation checklist attached as Annex-E.
- 42. The major issues opened during this reporting period at Sialkot are;
 - a. Working in deep trenches without the shoring of trenches
 - b. Land sliding at Lot-02 due to deep excavation and less available space for open cutting of trench
 - c. Delays in restoration work of Lot-01, Lot-02 and Lot-03
 - d. Water sprinkling issue at Lot 02 & 03.
 - e. Usage of only warning tape instead of hard barricade around the deep work site.
 - f. Week implementation of PPE's found on Lot I and IV.
 - g. Work at Height without safety harness was observed at site particularly at Lot IV during finishing works of OHR (Overhead reservoirs).
 - h. Housekeeping issue at OHRs and ZKB camp.
- 43. Issue no i. is still partially open at multiple sites and the contractor was advised to submit daily checklist on regular basis. Contractors were directed to ensure the shoring of deep trenches and adopt best engineering practices to avoid land slide. The contractors were also directed to place safety sign boards and fence the site to avoid trespassing. The overall situation of sites was unsatisfactory due to the conflict between contractors and EPCM consultant on provision of shoring/ shuttering. Detailed deliberations were made on the matter between PMU, CIU and EPCM consultant and it was agreed that Shoring and shuttering will be arranged by the contractors at places where deep unstable excavations are involved. EPCM consultant will monitor such arrangements and work will be supervised by contractor and EPCM HSE staff.

Table 3-5 Summary of Issues Tracking Activity for Current Period at Sialkot

Lot Name	Total number of issues for the project	Number of open issues	Number of Closed Issues	Percentage closed	Issues Open this	Issues Closed this reporting period
Lot- I - Laying of Sewerage Lines and Allied Works	6	2	4	70	4	2
Lot-II - Laying of Pre-Cast RCC Conduits and Allied Work	3	3	0	0	3	0
Lot-III – Construction of Pumping Station and Forcemain laying	2	1	1	50	1	1
Lot-IV - Laying of Water Distribution Network	5	2	3	80	2	2
WWTP	1	0	1	100	0	1
Accumulative	17	8	9	50	10	6



Figure 3-2 Summary of Issues by Non-Conformance at Sialkot

PLGA

- 44. The issues found during this reporting period at PLGA is given as under-:
 - Stagnant water on site. •
 - No Personnel protective Equipment available on-site entrance for visitor.
 - · Scattered scaffolding and shuttering
 - poor housekeeping on site. •
 - No safety signboards on site entrance. •
 - No hard railing and barricading at site entrance for safety and security purposes.

Table 3-6: Summary of Issues Tracking Activity for Current Period at PLGA

Project Name	Total number of issues for the project	Number of open issues	Number of Closed Issues	Percentage closed	Issues Open this reporting period	Issues Closed this reporting period
Punjab Local Government Academy (PLGA) in Lahore	6	0	6	100	6	6



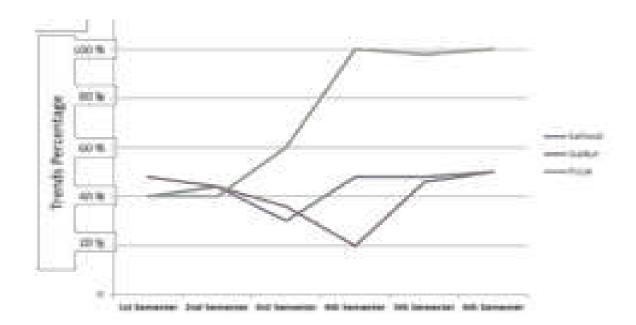
Figure 3-3 Summary of Issues by Non-Conformance at PLGA

- 45. EPCM is monitoring the activities on periodic basis. The overall situation of sites is satisfactory;
- 46. Only few issues open in each of subproject which are mostly relevant to the use of PPEs due to personal behavior of workers or their careless attitude towards the safety. Contractors are instructed to give awareness and training

regularly for use of PPEs and supervision consultant instructed to strictly monitor the implementation.

3.4 Trends

47. Trend analysis among six semesters shows that environmental compliance level of Sialkot increased while Sahiwal and PLGA declined from 5th semester till September however during last months of semester and after ADB safeguard review mission overall environmental compliance level at all PICIIP sites has been increased. Compliance trends improved from 40% to 50% in Sialkot, Sahiwal 47% to 50% and in PLGA 90% to 100% from previous to last semester. Trend analysis is shown in below figure.



3.5 Corrective Action Plan (CAP)

48. Corrective action plan was implemented to eliminate the issues in which required action with target date and responsibilities were assigned. The detail of CAP for each sub-project is described in Table 3-7 to Table 3-9 below

Table 3-7: Corrective Action Plan (CAP) For Environment, Health and Safety Issues for Sahiwal

Sr. No.	Issue	Comments / Observations	Action Required	Indicator	Target Date	Implementation Responsibility	Supervision Responsibility	Status by 31 st December, 2022	Timeline
1	Safe workplace in deep trenches	no shoring, materials were dumped along	Needs to take all required corrective measures at all excavated	EPCM to resolve the matter of improper soil stacking at site. Leads can be given to the contractors. Excavated soil material is shifting to the disposal area. Hard barricading is being implementation	20 th November	Contractors	Consultant	Non- compliance letters issued to contractors and implemented	Immediately /regularly
2	Electrical safety	Some electric wires remained exposed at ZKB Camp	covered/encapsu		15 th November 2022	Contractors	Consultant	Implemented	Immediately

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3	Occupation al health and safety	Required PPEs were not provided to electrical worker- ZKB Camp	Required PPEs should be provided to all workers and ensure their usage	Contractor is provided to the workers and ensure usage	15 th November 2022	Contractor's Environment /Safety Team	Environmen tal specialist	Implemented	Immediately
4	Environmen tal safety and manageme nt		Generators should be kept on a paved area with bunded wall and connected with a vertical vent		20 th November 2022	Contractor's Environment /Safety Team	Environmental specialist -	Implemented	15 October 2022
5	Housekeepi ng	scattered on	Solid waste should be collected in dustbins and disposed of at the designated area	Solid waste are disposed at designated area.	Immediately /Regularly	Contractor's Health & Safety Team	Environmental specialist	Partially Implemented	Immediately
6	Housekeepi ng	Oily rags were found on ground- ZKB Camp	Oily rags or contaminated waste should be collected in separate drums and handed over to a licensed waste contractor for appropriate disposa	separate drum and handed over to a licensed waste	Immediately /Regularly	Contractor's Health & Safety Team	Environmental specialist	Implemented	Immediately

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7	Safe workplace in deep trenches	No proper barricading, no speed control signage's for traffic control at Conduit (LOT 3).	reflectors for the night, and placing speed signage's at both sites	being	Immediately /Regularly	Health & Satety	Environmental specialist		15 October 2022
8	Occupation al health and safety	properly berriedded	he restored	section has been restored.	Immediately /Regularly	II eam	Environmental specialist		30 October 2022
9	Occupation al health and safety	There were no proper signages, no proper traffic management, and dust emissions at Roads-ZKB	both sides need to be posted. Reflectors or light signals should be fixed for controlling traffic at night. Frequent water sprinkling in dusty	SOCCO IIIIIIS	Immediately /Regularly	Health & Satety	Environmental specialist	luca in Laurea a india al	15 October 2022

Table 3-8: Corrective Action Plan (CAP) For Environment, Health and Safety Issues for Sialkot

Sr .#	Issue	Action Required	Indicator	Implementation Responsibility	supervision Responsibility	Target date	Status as on 31 st Dec.2022
1	The first aid kit was not available at the OHR site- Lot 4	A first aid kit should be placed at each active construction site.	Presence of First Aid kits at all active construction sites & ZKB Camp	Contractor	Consultant	Immediately	Complied
2	A generator was placed without paved area-oil pillage was observed under the generator- OHR site Lot-4	Generators should be placed in paved areas with bunded walls to avoid soil contamination	Generator are placed on paved platform and connected with a vertical vent.	Contractor	Consultant	10 Oct 2022	Complied
3	Works were done in the median with two sides traffic-the site was not barricaded on one side but not on another side (Defense Road)	The Median should be barricaded on both sides for smooth traffic flow and to avoid any incident.	Complete barrication to ensure traffic safety	Contractor	Consultant	Immediately	Complied
4	Speed signages and under construction area signages were not displayed (Defense Road)	Required signages need to be placed	Placing of Proper signages of speed limits and frequently water sprinkling are carried out in dusty area.	Contractor	Consultant	10 Oct 2022	Complied and being implemented
5	The completed section on airport road and force main area was not restored, not properly barricaded and causing disturbance to adjacent houses and difficulty for travelers-dangerous at night-no signages with no reflectors	Restoration is required on all completed sections to avoid mishaps and disturbance to public	Complete restoration	Contractor	Consultant	15 Oct 2022	Not complied completely
6	Chemical storage was placed on sheets that were not fixed and sides were open-Campsite	Place all chemicals and oil on a paved/concrete platform with a bunded wall. Placing trays to avoid spills and soil contamination.	Chemical containers placed at impervious flooring	Contractor	Consultant	15 Oct 2022	Complied

	Proper documentation on	Needs to maintain required	Waste record maintained	Contractor	Consultant	15 Oct 2022	Complied
7	waste including hazardous and medical waste is not	documentation on waste management.					
	maintained						

Table 3-9: Corrective Action Plan (CAP) For Environment, Health and Safety Issues for PLGA

Sr. No		Comm ents / Observ ations	Action Required	Indicator	Target Date	Implementation Responsibility y	Supervisio n Responsibili ty	Status by 31st Dec, 2022
1.	Stagnant water onsite	Stagnant water after curing at site may cause dengue larva	as the beginning of monsoon season. Fumigation of Mosquito	Fumigation of mosquito spray carried out on all floorof building as well as insideand outside of containers premises.	immediately	Environment Team Contractor's Management	Environment al specialist	Implemented
2.	No Personnel protective Equipment available on site entrance	entrance for	PPEs (Safety helmet, jacket, face mask, gloves and sanitizer) should be available on site entrance for visitor.	PPEs (Safety helmet, jacket,face mask, gloves and sanitizer) has been placed onsite and ensured there use at site during work.	Continuous efforts needed	Environment Team Contractor's Management	Environment alspecialist	Implemented

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	ng of scaffolding	Scattered scaffolding and shuttering on site.	housekeeping on site. Remove unused scaffolding and	Scaffolding and shuttering has been removed from site and stored separately in order to ensure proper housekeeping.	Continuous efforts needed	Contractor 5	Environment alspecialist	Implemented
4.	signboards on	signboardson site entrance.	Place signboard about	Safety signboard has been placed on site entrance.	immediately		Environmental specialist	Implemented
5.	at site entrance for safety and security	and barricading at site entrance for safety and	Hard railing must be installed or barricading must be installed on site entrance.	Hard railing and green barricading sheet has been installed on site entrance forsecurity and safety.	immediately	IL ODITACIOL S	Environmental specialist	Implemented

6.	Stairs without Stairs without hard railing and protective hard barricading cause falling personnel/objecthazards.	barricaded with hardrailing to warn about falling hazard.	Staircase has been properly barricaded with hard railing on all floors. Good Housekeeping has been ensured on site, no debris remained on staircase.		Environment Team Contractor's Management	Environmental specialist	Implemented
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3.6 Unanticipated Environmental Impacts or Risks

1.1.1 COVID-19 PANDEMIC

- 49. The world has experienced a new potent challenge in the shape of Corona virus disease (COVID-2019). To intercept its local transmission Government of Punjab has issued Standard Operating Procedures for construction site. To ensure safety and prevention from COVID-19 at worksites, the following measures have been taken by the HSE teams at Sialkot, Sahiwal and PLGA Lahore, which have been strictly monitored:
- Temperature checking before entering to site and anyone who has high temperature or a new persistent cough and difficulty in breathing are not allowed to enter the construction site.
- Disinfection of working place and equipment periodically through Chlorine spray tanks
- Maintaining worker minimum 1-meter distance during work or at mess and sanitization before entering or leaving site,
- Visitors / meetings in closed room are not allowed or cancelled and safety sign regarding Covid-19 displayed.
- Ensure use of Personal Protective Equipment's (PPE) on site without PPEs workers / staff is not allowed to enter the site.
- Awareness training of workers to control the spread of epidemic and safety on construction site.
- To keep the workers safe from this pandemic situation, the contractor takes extra care and fully implement the Standard Operating Procedures (SOPs) issued by Punjab Government for construction industry. The contractor has started the Covid-19 vaccination program to ensure the health of staff and workers. The labour is not allowed to work if they are not vaccinated.

3.7 Grievance Redressal Mechanism

50. A grievance redress mechanism is already in place since May 5, 2020. It is three tiers structures, i) Grievance Redress Committee at Field Level, ii) Grievance Redress Committee at Worthy Commissioner Office Level and iii) Grievance Redress Committee at PMU and Local Government & Community

Development Department Level). The GRM is a gender responsive, culturally appropriate, and readily accessible to the stakeholders at no cost and without retribution. All these complaints were recorded in complaint register place in the respective sites offices, the complainants were informed through departments and community.

- 51. Field inspections by the Contractors, Management Consultant and CIUs were regularly made. Each of these has assigned manager in charge of environmental management. They also serve as grievance focal points.
- 52. During this reporting period, in Sahiwal 16 and in Sialkot 48 public complaints due to construction activities have been issued and resolved within 48 hours time period, so the community will not have to face any problem at each of subproject sites at Sahiwal and Sialkot while none of the complaint was received in case of PLGA. Overall, no major conflict with the community was observed. Cordial liaison has been maintained with local community. The details of complaints are presented in below tables 3-10 and 3-11.

Table 3-10: Grievance Register Record Lot-01, Lot0-02, Lot-04 & WWTP Sialkot (July-Dec 2022)

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
07-07-2022	Bashir Ahmad Building Material Trader Airport Road	HSE Manager	Verbal	The way was closed in front of his shop due to excavation	Backfilling was made on immediate basis in front of his shop and backfilling was compacted to ensure safety of his vehicles passage		08-07-2022	01

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
10-07-2022	Muhammad Tayab House Connection Airport road	HSE Manager	Telephonic	His Electrical connection was damaged by machinery working	Wapda was connected to relocate his electrical meter and reinstall his electrical supply	closed	11-07-2022	01
17-07-2022	Imtiaz Ali	HSE Manager	Verbal	House sewer slab was damaged in front of his house by excavator	He was provided with RCC Material to make the slab again	closed	17-07-2022	0

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
26-07-2022	Muhammad Faisal Leather Trader	HSE Manager	Verbal and Telephonic	Parking of machinery and jointing machine placing on front of shop	Site incharge was asked to change parking location for cranes and machines	closed	26-07-2022	0
06-08-2022	Sajad Ahmad Telecommunication line	HSE Manager	Telephonic	He was not informed for excavation and stolen of his TCL wire	The Driver of excavator was asked to site incharge when observe any ptcl line or any telecommuni cation line	closed	06-08-2022	0

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
10-08-2022	Irshad Ahmad local person Khadim Ali Road	HSE Manager	Verbal	Dust issue at Khadim Ali road during restoration work for asphalt	Trafic inspector was called and water sprinkling was made on immediate basis	closed	10-08-2022	0
17-08-2022	Fateh Mobine shopkeeper Kotli Bahram Chowk	HSE Manager	Verbal	Hard Barrication was dropped by transport in front of his shop	HSE team was instructed to reinstall the Hard Barrictaion on immediate response	closed	17-08-2022	0

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
13-09-2022	Ghulam Rasool owner of different shops at Marala road	HSE Manager	Verbal	Hard Barrication was installed for manhole excavation in front of his shops	Hard barrication was removed and Replaced and one side way was given to his shops	closed	13-09-2022	0
09-10-2022	Muhammad Saleem wood worker airport road	HSE Manager	Verbal	Dust Issue	Water bowsering was made compulsory twice aday	closed	9-10-2022	0

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
19-10-2022	Ahsan Iqbal Local resident double cell	HSE Manager	Verbal	Slip and Trips issue on road by mud	The site Inchare was asked to remove mud from road and put subbase material for safety of local	closed	19-10-2022	0
26-10-2022	Abdul Rehman worke at Marriag Hall Hotel	HSE Manager	Verbal and Telephonic	Machinery Was Parking in front of Marriage Hall causing disturbance to Locals	All the Machinery was Removed and Side Parked Immediately	closed	26-10-2022	0

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
13-11— 2022	Jamil Asghar shopkeeper Airport Road near Nasir Town	HSE Manager	Written and Telephonic	Alternative route issue near Nasir Town Airport Road double cell	Alternative route was prepared with grader and pits with filling of sub base and prepared well for the affluence of locals and riders and instructed the earth work team to inspect the site regularly wherever maintainnce is required done it on priority basis	Closed	13-11—2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
15-11-2022	Rehman Marbal Factory Air Port Road near Nasir town	HSE Manager	Verbal	Stagnant water near Nasir town is required to remove	MC team was coordinated and removed all the stagnant water.	Closed	15-11-2022	00
20-11-2022	Haider Ali	HSE Manager	Telephonic	Slush on road is required to be removed	All the slush point removed from Lot 3 airport road	Closed	20-11-2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
23-11-2022	Naeem Cheema Shopkeeper Defense Road SLK	HSE Manager	Verbal	Dust issue at Defense Road, it required proper water sprinkling.	Water sprinkling team was instructed to sprinkle water twice a day to avoid dust emissions.	Closed	23-11-2022	0
26-11-2022	Principal Rahman school.	HSE Manager	Telephonic	Sewage drains at Marala Road was clogged due to Slush Removing	Earth work team was called and dewatering was carried out also MC were approached because there was main issue of drainage clogging	Closed	26-11-2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
29-11-2022	Muhammad Tahir defense road sialkot	HSE Manager	Written	Manhole cover was missing at lot 3	Site incharge was asked and placed the new manhole cover for the safety of locals.	Closed	30-11-2022	00
39-11-2022	Muhammad Imran ZKB Camp	HSE Manager	Verbal	Proper Cleaning of Washrooms is required	Cleaning staff was called and training was given to them on cleaning and instructed to clean washrooms on daily basis.	Closed	30-11-2022	01

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
07-12-2022	Zain-ul-Abidin sand, construction material trader Airport Road near PSO petrol pump.	HSE Manager	verbal and Telephonic	Alternative route issue. Public was using his personal property as transport route.	Alternative route was prepared with grader and pits with filling of sub base and prepared well for the affluence of locals and riders and instructed the earth work team to inspect the site regularly wherever maintainnce is required done it on priority basis	Closed	08-12-2022	01

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
12-12-2022	Muhammad Tahir Jamal electrical welding Airport Road	HSE Manager	Verbal	Sewerage drain clogging due to Stagnant water	MC team was coordinated and removed all the stagnant water.	Closed	12-12-2022	0
16-12-2022	Hasnain javed B&H surgical instruments	HSE Manager	Verbal and Telephonic	Alternative route issue in front of B&H surgical instruments	Construction activities was stopped before provision alternative to the industry	Closed	16-12-2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
18-12-2022	Umar Ahsan Gondal Shopkeeper Marala Road Sialkot	HSE Manager	Verbal	Dust problem at Marala Road	Water sprinkling team was instructed to sprinkle water twice a day to avoid dust emissions.	Closed	18-12-2022	00
24-12-2022	Muhammad Rashid Teacher Spirit School.	HSE Manager	Telephonic	Sliding start in front of spirit school double cell airport road	Area was covered with hard barricading	Closed	24-12-2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint Verbal, Letter, Email	Main Issue	Action Taken	Status	Date Closed	Days Open
26-12-2022	Sultan Aziz Political leader Marala road Sialkot	HSE Manager	Written and Telephonic	Manhole slab cover was missing at Marala Road	Project Manager were asked to provide slab cover at manhole 55, 54, and 53 for the safety of locals.	Closed	26-12-2022	00
29-12-2022	Muhammad Irfan ZKB Camp	HSE Manager	Verbal	Proper Sweeping of Camp is required	Sweepers and Cleaning staff was called and training was given to them on sweeping and cleaning the camp and disposed off waste properly.	Closed	29-12-2022	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
07-07-22	Naeem Khan – Road sider	HSE Manager	Verbal	No signages has been done to understand the key aspects of the work.	Pana flex ordered to display along roadside.	Closed	15-07-22	08
19-07-22	M. Kifayat – Regular movement along Sandhwala road	HSE Manager	Verbal	He was being afraid of the road disturbance due to this project.	He was cleared about the project work scheme that it will remain in the closed acquired land.	Closed	19-07-22	00
02-08-22	Mohsin – Labor person at WWTP site	HSE Manager	Verbal	Access road problem.	Maintained by calling laborers.	Closed	02-08-22	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
09-08-22	Hashim – Labor person at WWTP site	HSE Manager	Verbal	Electricity problem.	Wire re-connected by calling electrician.	Closed	10-08-22	01
22-08-22	Ibrahim – Road sider	HSE Manager	Verbal	Access road disturbing their field watering system.	Laborers called and made a pathway for water.	Closed	22-08-22	00
31-08-22	M. Khalil – Guard at SWEG office	HSE Manager	Verbal	Mainline supply of electricity was disconnected.	Immediately SWEG electrician was called and connection reestablished.	Closed	31-08-22	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
06-09-22	Zia Bhutta – Residing on Sandhwala Road	HSE Manager	Verbal	Batching plant was on the road as standby.	Requested to PM to get it moved towards the site destination.	Closed	06-08-22	00
11-09-22	Amir Jatha – Havely at Access Road	HSE Manager	Verbal	Frontside of gate was disturbed due to rain.	Grader operator was called immediately, and access road cleared.	Closed	11-09-22	00
16-09-22	Deen Jutt – House on Sandhwala Road	HSE Manager	Via Phone Call	Dust at Sandhwala Road	Water sprinkler was called and sprinkled water.	Closed	16-09-22	00

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
21-09-22	Awais Ghumman – Residing near WWTP site	HSE Manager	Phone Call	Road conditions were poor to walk on it.	Grader was called and made it clean.	Closed	21-09-22	00
02-10-22	Deen Jutt – House at Sandhwala Road	HSE Engineer	Verbal	Dust Issue	Water bowser called and sprinkled water.	Closed	02-10-22	00
11-10-22	Amin Jatha – Havely at access road	HSE Engineer	Verbal	Road fence near havely disturbed.	Labor called and set the fence in good order.	Closed	11-10-22	00

Construction of Wastewater Treatment Plant (WWTP) in North Zone, Sialkot Grievance Redressed Record

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
13-10-22	Awais Ghumman – Living nearby project place.	Security Guard	Verbal	Machinery standing at different places	Operators advised to keep their machinery at machinery during off work.	Closed	13-10-22	00
21-10-22	Daani – Former at nearby fields	HSE Engineer	Verbal	Debris material related tube well buildings was roughly thrown.	Owner of buildings was contacted and building demolished material collected.	Closed	21-10-22	00
26-10-22	Noor Ahmad – Resident of nearby project area.	HSE Engineer	Verbal	Dust problem	Water bowser was called, and issue resolved.	Closed	26-10-22	00

Construction of Wastewater Treatment Plant (WWTP) in North Zone, Sialkot Grievance Redressed Record

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue Action Taken		Status	Date Closed	Days Open
07-11-22	Muhammad Khlil – Security guard at SWEG site office	HSE Manager	Verbal	Workers enter the site office without giving identity clearance to the security guard.		Issue Resolved	08-11-22	01
12-11-22	Operators/ Labors Feedback at working site	HSE Manager	Verbal as feedback	People mentioned in a "feedback session with workers" that the water is not suitable which they are using for drinking. We cleared them that we have tested this water and its O.K. to drink as its all parameters are within the standard ranges of the region.		Cleared	12-11-22	00
14-11-22	Rizwan – Resident at Access Road (Haveli)	HSE Manager	Verbal	Main gate front was disturbed due to machinery movement on access road.	path was done as smooth	Closed	14-11-22	00

Construction of Wastewater Treatment Plant (WWTP) in North Zone, Sialkot Grievance Redressed Record

Date of Complaint	Complainant Name & Address	Complaint Received by	Method of Complaint (Verbal, Letter, Email)	Main Issue	Action Taken	Status	Date Closed	Days Open
09-12-22	Workers (living onsite camps)	HSE Manager	Verbal	Workers addressed about meal quality which they are supposed to eat	Hotel personnel called and it was assured to keep quality at its best.	Issue Resolved	09-12-22	00
22-12-22	Site Workers	HSE Manager	Verbal	Workers were having complaint about drinking water that it is not enough to use for 24 hours. A larger water conta arranged for the work and labor persons may responsible for fulfillment of water not be a specific for the contact of the work arranged for the work and labor persons may be a specific for the work arranged for the		Closed	22-12-22	00

Table 3-11: Grievance Register Record Lot-01 Lot-02 Lot-03 and Lot-04 Sahiwal

Date of complaint	Name & Address of complaint	M Method of Complaint Verbal, Letter, Email	Details of complaint	Action Taken include date	Details of follow up complaint	Sign off action as closed
5-07-2022	Bilal Aslam & Farid Town	Verbal	Dismantling issues	Instructed to staff clear all the excavated materials from the site. 5-07-2022	5-07-2022	Cleared
18-07-2022	Zahid Hussain & Jahaz Ground	Verbal	Dust Issue	Water sprinkling required after 3 hours. 18-07-2022	18-07-2022	Cleared
26-07-2022	Naeem Raza & Farid Town	Telephonic	Sewage line damage	Sewage pipe was repaired within 24 hours. 26-07-2022	26-07-2022	Cleared

10-08-2022	M Zaheer & Jahaz Ground	Verbal	Dust Issue	Water sprinkling required after 3 hours.	10-08-2022	Cleared
17-08-2022	M Asghar & Farid Town	Verbal	Dismantling issues	Instructed to staff clear all the excavated materials from the site 17-08-2022	17-08-2022	Cleared
25-08-2022	M Arshad & UC 06	Written	Water line damage	Water pipe was repaired within 24 hours. 25-08-2022	25-08-2022	Cleared
29-08-2022	M Hafez & UC 06	telephonic	Dust Issue	Water sprinkling required after 3 hours. 29-08-2022	29-08-2022	Cleared

05-09-2022	Irfan Iqbal & UC 06	Verbal	Dust Issue	Water sprinkling required after 3 hours. 05-09-2022	05-09-2022	Cleared
15-09-2022	Naiz Ahmad & Jahaz Ground	Verbal	Dismantling issues	Instructed to staff clear all the excavated materials from the site 15-09-2022	15-09-2022	Cleared
11-10-2022	Iqbal Ahmad & UC 06	Verbal	Dust Issue	Water sprinkling required after 3 hours. 11-10-2022	11-10-2022	Cleared
28-10-2022	Waqas Farooq & Jahaz Ground	written	Dismantling issues	Instructed to staff clear all the excavated materials from the site 28-10-2022	28-10-2022	Cleared

13-11-2022	Fahad Ameen & Jahaz Ground	Verbal	Dismantling issues	Instructed to staff clear all the excavated materials from the site.	13-11-2022	Cleared
24-11-2022	Sarwar shah & Jahaz Ground	Verbal	Sewage pipe damaged	Sewage pipe was repaired within 24 hours. 24-11-2022	24-11-2022	Cleared
8-12-2022	Sannaullah & Jahaz Ground	written	Water pipe damaged	Water pipe was repaired within 24 hours. 8-12-2022	8-12-2022	Cleared
19-12-2022	M Sajjad & UC # 06	written	Dust Issue	Water sprinkling required after 3 hours. 19-12-2022	19-12-2022	Cleared
26-12-2022	Aleem Ch. & UC # 06	telephonic	Dismantling issues	Instructed to staff clear all the excavated materials from the site. 26-12-2022	26-12-2022	Cleared

4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

- 54. Internal environmental monitoring consists of two types. The first type consists of visual inspections of project activities and associated impacts such as soil erosion, restoration of vegetation, solid waste disposal and etc. The second type requires field sampling and lab analysis of water quality, air quality and noise levels. The field sampling and laboratory analysis of each lot have been conducted, including air, noise and water quality during the reporting period for 3rd & 4th quarters at Sialkot. At Sahiwal, environmental monitoring for the third quarter was missed due to contractor financial issues, and the fourth environmental monitoring of lots 1 2 and 3 has been conducted. Also the quarterly environmental monitoring was not conducted on lots 4. Noncompliance has been issued to the Contractor and instructed to conduct the monitoring at the earliest. While at PLGA major structure has been completed and all the environmental monitoring's have been completed in previous reporting period as per BOQ plan.
- 55. Field inspections have been undertaken by the on-site environmental and Health Safety team of Project Management Consultant including one HSE Expert, one ARE and one Inspector headed by Resident Engineer and Environmental Specialist on a regular basis. As far as contractors are concerned overall 3 member's team at each sub project implement and monitor the Environmental, Health and Safety that includes the Project Manager, Construction Manager and HSE Manager.
- 56. The environmental monitoring was carried out by using, daily, weekly and monthly EMP compliance (checklists) as well as through visual observations to get information on the actual nature and extent of key impacts and the effectiveness on mitigation and enhancement measures outlined in the Site Specific Environmental Management Plans (SSEMP) and agreed by the Contractors under the contracts. The SSEMP covered all the aspects mentioned in the project specific EMPs for each project. The monitoring of noise and vibration, surface and groundwater, air quality, flora and fauna, camp sites, top soil erosion, cultural heritage and safety provisions are discussed in this section. All the subprojects are category B projects and environmental

approval from ADB and Punjab EPA was obtained.

- 57. The IEEs prepared for subprojects includes Environmental management plan (EMP) that addresses the potential impacts. Mitigation measures are considered so that the projects are designed, constructed, and operated in compliance with applicable national and provincial laws and regulations and meets the requirements of ADB SPS, 2009. Contractors are provided with monitoring checklist for the better understanding of the Environment. The overall status of Environmental Compliance was monitored and presented as Annex D-F.
- 58. A monthly monitoring checklist was prepared to assess the environmental impacts of the projects on the surrounding environment. On careful review of this form, inconsistencies and duplication of questions were corrected such that any "yes" answer indicates compliance and any "no" indicates no compliance. The "NA" or not applicable answers were also tallied; however, no reasons for non-applicability were included, thus making these results less useful. To date the contractors, have prepared checklists till December, 2022 which have been checked by the site EPCM Consultant HSE Expert and submitted to the Consultant office. The analysis showed that non-compliance was most often in the areas of waste disposal. Traffic management, dust pollutions, health and safety and contractor's good housekeeping. The possible instructions related to the non-compliance have been given to the contractors by HSE Expert of Consultant which the contractor rectified within given time frame. The sample monthly monitoring checklist has been attached as Annexure D-F of this report.

4.2 Trends

59. Keeping in mind the construction volume the impacts on water quality, air quality and noise is negligible and no major change was noticed after analyzing the test results. The results of monitoring checklist indicate that EMP compliance is increasing as already discussed above.

4.3 Summary of Monitoring Outcomes

60. The Instrumental monitoring of some environmental parameters are discussed hereunder:

Sialkot Lot-01, Lot-02, Lot-4

4.3.1 INSTRUMENTAL MONITORING

61. The instrumental monitoring of air quality and noise as well as water testing has been conducted at sites.

4.3.2 NOISE MONITORING

- 62. Noise monitoring on construction sites is being carried out to assess impacts of noise level generated to curtail its adverse impacts on workers, nearby communities, and fauna of the area. For this purpose, noise level monitoring is being carried out by using digital noise level meter for continuous 24 hours to know the noise value at Defense Road, Kashmir Road & Khadim Ali Road for Lot-01, Marala Road and Airport Road for Lot-02, Airport Road for Lot-03, Water Works and Capital Road for Lot-04 and campsite considering the sensitive receptors at site. Contractors are advised to keep their machinery in good condition and provide personal protective equipment's (PPEs) like ear plugs to the working staff at noise generating sites. Speed of the trucks and other vehicles used for construction activities were to be controlled and the construction activities were to be limited to daytime only.
- 63. The environmental monitoring conducted during Oct, 2022 deduces that no noise or vibration impacts are envisaged at any of the subproject site. However, Environment team of NESPAK has reinforced contractor staff to adopt mitigation measures to reduce the impact of noise and vibration as delineated in EMPs. NESPAK environment team repeatedly advised the contractors to keep their machinery in good condition and provide personal protective equipment (PPE) like ear plugs to the working staff to worn at noise generating sites. HSE Manager advised the contractor to provide PPEs to workers. Contractors of all subproject's sites were advised to control vehicle speed and restrict construction activities to daytime only. Environmental Specialist advised the contractors to carry out noise monitoring by using noise meter on regular basis. Noise testing was carried out at 4 sub projects sites (2 Points on Each Project) and campsite where construction activities were in progress.
- 64. Results of instrumental monitoring of noise are given in the exhibit below:

Table 4-1: Noise Monitoring Results Lot 1, Lot 2, Lot-03, Lot 4 & WWTP for 3rd Quarter - Sialkot

S. No	Sub Project	Result (Average 24hrs)	NEQS/WHO (dB)	PEQS (dB)
1	Lot-1	61.4	65	65
2	250.1	55.17	65	65
3	Lot-2	60.6	65	65
	1012	66.7		
4	Lot-3	67.8	65	65
5		65.3	65	65
6		60.1	65	65
	Lot-4			
8	ZKB Camp Site	57.6	65	65
9	Waste Water Treatment Plant (WWTP) SWEG Chinese Camp	53.8	65	65

Table 4-2: Noise Monitoring Results Lot 1, Lot 2, Lot-03, Lot 4 & WWTP for 4th Quarter- Sialkot

S. No	Sub Project	Result (Average 24hrs)	NEQS/WHO (dB)	PEQS (dB)
1	Lot-1	54.01	65	65
2	2001	57.9	65	65
3	Lot-2	58.13 59.6	65	65
4	Lot-3	51.01	65	65
5	25.0	57.08	65	65
6	Lot-4	52.6	65	65
7	L01 -4	51.5	65	65
8	ZKB Camp Site	62.5	65	65
9	Waste Water Treatment Plant (WWTP) SWEG Chinese Camp	50.6	65	65

4.3.3 AIR QUALITY MONITORING

The potential sources of air pollution during construction are the vehicles, kickoff dust, asphalt plant and crusher. Visual observations were noted to monitor water sprinkling at dust prone areas during the construction activities. The occasional sprinkling of water observed at all sites. The concerned contractors were advised to take care to control the dust emissions. Visual observations were also made for fitness of the vehicles to minimize the smoke emissions. The contractors' environment specialists of each Lots ensured that the dust should be reduced to maximum possible level so that it may not affect the workers and the surrounding environment including the native people.

- 65. Contractor is adopting measures helpful in controlling air quality deterioration in the subproject activity areas like regular water sprinkling to reduce the air dust emissions and regular tuning of vehicles maintaining the equipment properly to minimize the smoke and other gaseous emissions. The objective was to minimize the airborne particulate matter, dust pollution and fumes of vehicular emissions into the atmosphere to avoid negative impacts on the health of construction workers, residents, and nearby vegetation.
- 66. Visual observations were made to monitor regular water sprinkling at dust prone areas during the construction activities and to monitor the vehicular emissions to minimize the smoke emissions. Contractors ensured water sprinkling at most of the sites. Contractors are regularly checking up their construction vehicles and machinery to comply the vehicular exhaust emission levels. Contractors regularly tune their vehicles at all the subproject sites. The use of masks and helmets are mandatory at construction sites by workers. Transportation of excavated material by using covers on the dumpers to avoid spills is observed at Site.
- 67. The results of instrumental monitoring are presented in Table below;

 $Table\ 4\text{--}3\text{:}$ Air Quality Monitoring Results (24 hrs.) Lot 1, Lot 2, Lot-03 and Lot 4 for 3^{rd} Quarter- Sialkot

S. No	Paramete rs	Unit	Lot-1	Lot-2	Lot-03	Lot-4	Camp site	PEQS	WHO	Baseline	
1	PM 2.5	цg/m³	26	28	29	31	31	35	15	27	
2	P IVI 2.5		27	39	28	31	31	ųg/m ³	15	21	
3	PM 10	цg/m³	64	61	71	55	65	150	45	129	
4	PIVITU		72	56	69	77	05	ųg/m ³	45	129	
5	со	mg/ m³	1.69	0.85	0.95	0.88	0.99	5	-4-	0.74	
6			0.92	0.85	0.79	0.89		mg/m ³	mg/m ^o		
7	NO ₂	ug/m³	3.28	2.56	5.29	10.96	5.39	-	80	25	15.67
8	NO ₂		8.39	7.69	6.29	5.29	5.39	00	25	15.67	
9	60	цg/m³	15.96	14.75	18.56	16.97	16.90	120	40	18.79	
10	SO ₂		15.69	14.69	13.75	17.69	16.89	qg/m ³	40	10.79	
11	NO	цg/m³	5.25	4.9	6.08	8.29	9.45	40		10.75	
12			7.29	8.2	7.19	9.36		ųg/m ³			
13	NOv	цg/m³	8.96	6.71	11.69	19.25	14.00	130	120.0	26.42	
14	NOx		15.69	15.85	13.45	15.76	14.89	ųg/m ³	120.0	26.42	

Air Quality Monitoring Results (24 hrs.) for WWTP -3rd Quarter

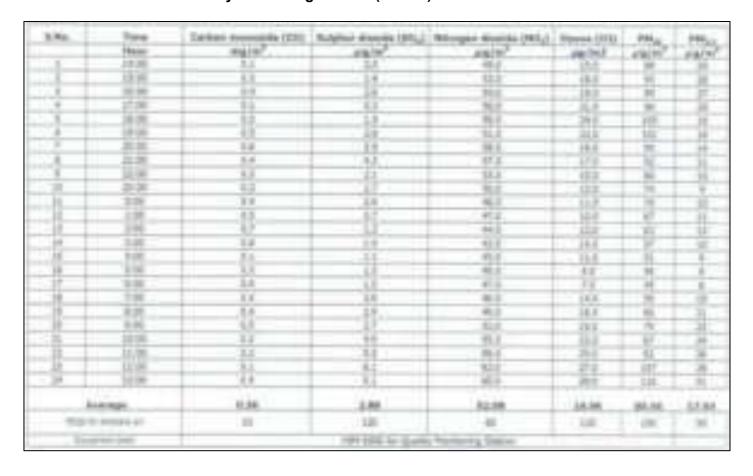
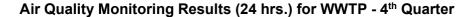


Table 4-4: Air Quality Monitoring Results (24 hrs) Lot 1, Lot 2, Lot-03 and Lot 4 for 4 th Quarter- Sialkot

S. No	Parameters	Unit	Lot-1	Lot-2	Lot - 03	Lot-4	Campsit e	PEQS	WHO	Baseline
1	PM 2.5	ųg/m ³	28	29	29	28	28	35		27
2	P IVI 2.5		28		28	27	20	ųg/m ³	15	21
3	PM 10	yg/m ³	47	75	71	82	68	150		129
4	PIVI 10		71		69	55	00	qg/m ³	45	123
5	СО	mg/m³	0.3	0.5	0.95	04	0.47	5		. = 4
6			0.6		0.79	0.7		mg/m 3	4	0.74
7	NOO	ug/m ³	1.5	16.5	5.29	21.8	4.0	00		15.67
8	NO2	_	1.4		6.29	10.8	4.2	80	25	13.07
9	SO2	yg/m ³	18.9	19.5	18.56	14.8	24.5	120		18.79
10	302		12.8		13.75	18.9	24.5	qg/m ³	40	10.79
11	NO	ųg/m ³	4	14.5	6.08	3.7	14.2	40		10.75
12			3.7		7.19	4.2		yg/m ³		
13	NOv	ųg/m ³	5.2	31.5	11.69	25.4	10 5	130		00.40
14	NOx		15.69	15.85	13.45	10.8	18.5	qg/m ³	120.0	26.42





- All the environmental parameters were analyzed during the environmental testing to assess the level of compliance with the most stringent standards/guidelines between the PEQS and IFC standards. As can be observed in the **Tables 4-2** above, the pollutant parameter PM_{2.5} on few of monitoring sites and PM10 at camp site is exceeding the applicable standards/guidelines of IFC with the remaining parameters within the applicable limits. The main reason for the exceedance of PM_{2.5} is overall poor air quality due to traffic and industrialization in Sialkot city. However, it shall be ensured that more stringent measures are implemented in order to ensure that these exceedances are brought within the applicable limits when the monitoring is conducted in the next quarter. In particular, the following measures shall be implemented:
 - An increased volume of sprinkling of water shall be conducted to ensure that the airborne dust emissions are brought down to within the applicable standards/guidelines.
 - Excavated material will be covered and will not be stored for long intervals site;
 - All vehicles, machinery, equipment and generators used during construction

- activities will be kept in good working condition and be properly tuned and maintained in order to minimize the exhaust emissions.
- Preventive measures against dust will be adopted for on-site mixing and unloading operations.

4.3.4 WATER QUALITY MONITORING

- 69. Subproject construction activities should not lead to pollution or contamination of surface and groundwater in the subproject area knowing that contamination bears direct effects on human health. Therefore, preventive measures are required to be taken to save water sources. Contractors are guided to take measures at camp site to prevent water pollution in the adjoining stream, water channel and in groundwater: Construction of sewage system with septic tank to dispose of sanitary wastewater and lined wash areas are the other measures contractors were asked to take to prevent pollution of water. Furthermore, contractors are asked to avoid oils spills in subproject areas.
- 70. Environment staff has observed no surface or groundwater pollution caused by construction activities. Contractors tested surface and drinking water from certified labs for physical, chemical and biological parameters. No water borne disease (gastro, diarrhea, etc.) has been noticed. Sewerage system/septic tanks at camp sites were constructed. Contractors are advised to ensure operation and maintenance of drainage system to avoid contamination of ground and surface water sources. Contractors are also advised to avoid oil spill to protect ground water and surface water channels.
- 71. The samples of drinking water from project sites and surface water quality were tested in 2022. The results are given in the Annexure-B.

Table 4-5: Drinking Water Quality Monitoring Results at Sialkot for 3rd Quarter- Sialkot

		mining trater qua				_		
S#	Paramete rs	PEQS Limits	WHO Limits	Unit	Lot-1	Lot-2	Lot-03	Lot-4
01	PH	6.5 - 8.5	6.5 – 8.5	рН	7.58	7.47	7.69	7.68
02	Odour	Non- Objectionable	Non- Objectionable	-	Nil	Nil	Nil	Nil
03	Taste	Non- Objectionable	Non- Objectionabl e	-	Unobj	Unobj	Unobj	Unob j
04	Color	<15 TCU	<15 TCU	Pt/C o	Unobj	Unobj	Unobj	unobj
05	Turbidity	<5 NTU	<5 NTU	NTU	1.3	0.5	0.39	2.4

06	Total Hardness	<500 mg/l	<500 mg/l	mg/l	132.0	235	152	239
07	Total Dissolved Solid	<1000	<1000	mg/l	479	726	915	697
08	Chloride (CI)	<250	-	mg/l	29	54	144	35
09	Cyanide (Cn)	<0.05	<0.07	mg/l	BDL	BDL	BDL	BDL
10	Fluoride (F)	<1.5	<1.5	mg/l	BDL	0.24	0.46	0.7
11	Nitrite	<3 (P)	<3 (P)	mg/l	0.05	BDL	0.02	0.05
12	Nitrate	<50	<50	mg/l	0.139	0.652	3.692	0.328
13	Phenol	-	-	mg/l	<0.01	BDL	BDL	BDL
14	Residual Chlorine	0.2 - 0.5	-	mg/l	<0.1	BDL	BDL	BDL
15	Aluminum (Al)	<0.2	-	mg/l	BDL	BDL	BDL	BDL
16	Cadmium	0.01	0.003	mg/l	BDL	BDL	BDL	BDL
17	Copper	2	2	mg/l	BDL	BDL	BDL	BDL
18	Chromium	<0.05 (P)	<0.05	mg/l	BDL	BDL	BDL	BDL
19	Mercury	<0.001	<0.006	mg/l	BDL	BDL	BDL	BDL
20	Antimony	<0.005 (P)	<0.02	mg/l	BDL	BDL	BDL	BDL
21	Nickel	<0.02	<0.07	mg/l	BDL	BDL	BDL	BDL
22	Zinc	5.0	-	mg/l	BDL	BDL	BDL	BDL
23	Arsenic	<0.05 (P)	<0.01	mg/l	BDL	BDL	BDL	0.02
24	Barium	0.7	0.7	mg/l	BDL	BDL	BDL	BDL
25	Manganese	<0.5	-	mg/l	BDL	BDL	BDL	BDL
26	Lead	<0.05	<0.01	mg/l	BDL	BDL	BDL	BDL
27	Selenium	0.01 (P)	0.04	mg/l	BDL	BDL	BDL	BDL
28	Ammonia	-	-	mg/l	BDL	BDL	BDL	BDL
29	Boron	0.3	2.4	mg/l	BDL	BDL	BDL	BDL
30	Iron	-	-	mg/l	0.1	BDL	BDL	BDL
31	Total Coliforms	0/100ml	0/100ml	CFU/1 00mm	0	0	0	0
32	Faecal Coliforms (Ecoli)	0/100ml	<0.5	CFU/1 00mm	0	0	0	0

Drinking Water Report of WWTP 3rd Quarter

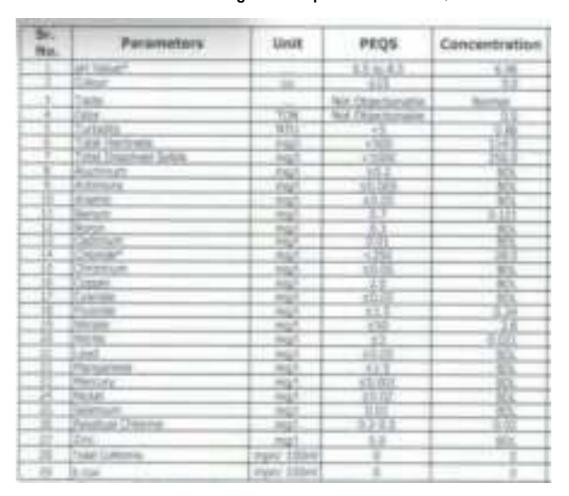


Table 4-6: Drinking Water Quality Monitoring Results at Sialkot for 4th Quarter-Sialkot

S#	Parameters	PEQS Limits	WHO Limits	Unit	Lot-1	Lot-2	Lot-03	Lot-4
01	PH	6.5 - 8.5	6.5 - 8.5	рН	7.78	7.47	7.69	7.42
02	Ordour	Non- Objectionable	Non- Objectionable	-	Nil	Nil	Nil	Nil
03	Taste	Non- Objectionable	Non- Objectionable	-	Unobj	Unobj	Unobj	Unobj
04	Color	<15 TCU	<15 TCU	Pt/Co	Unobj	Unobj	Unobj	unobj
05	Turbidity	<5 NTU	<5 NTU	NTU	0.23	0.24	0.39	0.5
06	Total Hardness	<500 mg/l	<500 mg/l	mg/l	132.0	185	152	176
07	Total Dissolved Solid	<1000	<1000	mg/l	479	582	915	546
08	Chloride (CI)	<250	-	mg/l	35.9	63	144	56
09	Cyanide (Cn)	<0.05	<0.07	mg/l	BDL	BDL	BDL	BDL
10	Fluoride (F)	<1.5	<1.5	mg/l	0.5	0.7	0.46	0.7

Semi Annual Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

11	Nitrite	<3 (P)	<3 (P)	mg/l	BDL	BDL	0.02	BDL
12	Nitrate	<50	<50	mg/l	0.014	0.175	3.692	0.039
13	Phenol	-	-	mg/l	BDL	BDL	BDL	BDL
14	Residual Chlorine	0.2 - 0.5	-	mg/l	<0.1	BDL	BDL	BDL
15	Aluminum (Al)	<0.2	-	mg/l	BDL	BDL	BDL	BDL
16	Cadmium	0.01	0.003	mg/l	BDL	BDL	BDL	BDL
17	Copper	2	2	mg/l	BDL	BDL	BDL	BDL
18	Chromium	<0.05 (P)	<0.05	mg/l	BDL	BDL	BDL	BDL
19	Mercury	<0.001	<0.006	mg/l	BDL	BDL	BDL	BDL
20	Antimony	<0.005 (P)	<0.02	mg/l	BDL	BDL	BDL	BDL
21	Nickel	<0.02	<0.07	mg/l	BDL	BDL	BDL	BDL
22	Zinc	5.0	-	mg/l	BDL	0.059	BDL	0.07
23	Arsenic	<0.05 (P)	<0.01	mg/l	BDL	BDL	BDL	0.008
24	Barium	0.7	0.7	mg/l	BDL	BDL	BDL	BDL
25	Manganese	<0.5	-	mg/l	BDL	BDL	BDL	BDL
26	Lead	<0.05	<0.01	mg/l	BDL	BDL	BDL	BDL
27	Selenium	0.01 (P)	0.04	mg/l	BDL	BDL	BDL	BDL
28	Ammonia	-	-	mg/l	BDL	BDL	BDL	BDL
29	Boron	0.3	2.4	mg/l	BDL	BDL	BDL	BDL
30	Iron	-	-	mg/l	0.1	BDL	BDL	BDL
31	Total Coliforms	0/100ml	0/100ml	CFU/1 00mm	0	0	0	0
32	Faecal Coliforms (Ecoli)	0/100ml	<0.5	CFU/1 00mm	0	0	0	0

Drinking Water Report of WWTP – 4th Quarter



Sahiwal Lot-01, Lot-02, Lot-03 & Lot-04

- 72. Third party environmental monitoring from the laboratory for third quarter of this year was not carried out due to financial issues of contractor, contractor is advised to carry out the monitoring at earliest. Lot-4 was not conducted the environmental monitoring due to financial issues. However, the following practices were adopted to physically monitor the sites and impacts assessment
- 73. The potential sources of air pollution during construction are the vehicles, kick- off dust, asphalt plant and crusher. Visual observations were noted to monitor water sprinkling at dust prone areas during the construction activities. The occasional sprinkling of water observed at all sites. The concerned contractors were advised to take care to control the dust emissions. Visual observations were also made for fitness of the vehicles to minimize the smoke emissions. The contractors' environment specialists of each Lot ensured that the dust should be reduced to maximum possible level so that it may not affect the workers and the surrounding environment including the native people.
- 74. Contractor is adopting measures helpful in controlling air quality deterioration in the subproject activity areas like regular water sprinkling to reduce the air dust

emissions and regular tuning of vehicles maintaining the equipment properly to minimize the smoke and other gaseous emissions. The objective was to minimize the airborne particulate matter, dust pollution and fumes of vehicular emissions into the atmosphere to avoid negative impacts on the health of construction workers, residents, and nearby vegetation.

- 75. Visual observations were made to monitor regular water sprinkling at dust prone areas during the construction activities and to monitor the vehicular emissions to minimize the smoke emissions. Contractors ensured water sprinkling at most of the sites. Contractors are regularly checking up their construction vehicles and machinery to comply the vehicular exhaust emission levels. Contractors regularly tune their vehicles at all the subproject sites. The use of masks and helmets are mandatory at construction sites by workers. Transportation of excavated material by using covers on the dumpers to avoid spills is observed at Site.
- 76. Noise monitoring on construction sites is being carried out to assess impacts of noise level generated to curtail its adverse impacts on workers, nearby communities, and fauna of the area. Contractors are advised to keep their machinery in good condition and provide personal protective equipment's (PPEs) like ear plugs to the working staff at noise generating sites. Speed of the trucks and other vehicles used for construction activities were to be controlled and the construction activities were to be limited to daytime only.
- 77. However, HSE Expert of EPCM Consultant has reinforced contractor staff to adopt mitigation measures to reduce the impact of noise and vibration as delineated in EMPs. HSE Expert of EPCM Consultant advised the contractors to carry out noise monitoring by using noise meter on regular basis.

4.3.5 NOISE MONITORING

78. Noise monitoring on construction sites is being carried out to assess impacts of noise level generated to curtail its adverse impacts on workers, nearby communities, and fauna of the area. For this purpose, noise level monitoring is being carried out by using digital noise level meter for continuous 24 hours to know the noise value at subproject locations. Contractors are advised to keep their machinery in good condition and provide personal protective equipment's (PPEs) like ear plugs to the working staff at noise generating sites. Speed of the trucks and other vehicles used for construction activities were to be controlled and the construction activities were to be limited to daytime only.

- 79. The environmental monitoring conducted during October, 2022 deduces that no noise or vibration related complaints from public or workers were registered at any of the subproject site. However, HSE Expert of EPCM Consultant has reinforced contractor staff to adopt mitigation measures to reduce the impact of noise and vibration as delineated in EMPs. HSE Expert of EPCM Consultant has repeatedly advised the contractors to keep their machinery in good condition and provide personal protective equipment (PPE) like ear plugs to the working staff to worn at noise generating sites. HSE Manager advised the contractor to provide PPEs to workers. Contractors of all subproject's sites were advised to control vehicle speed and restrict construction activities to daytime only.
- 80. HSE Expert of EPCM Consultant advised the contractors to carry out noise monitoring by using noise meter on regular basis. Noise testing was carried out at 3 sub projects (3 Points on Each Project) where construction activities were in progress.
- 81. Results of instrumental monitoring of noise are given in the exhibit below:

Table 4-8: Noise Monitoring Results of 4th quarter Lot 1, lot 2 and lot 3 at Sahiwal

S. No	Sub Project	Result (Average 24hrs)	NEQS/WHO (dB)	PEQS (dB)
1	Lot-1	62.82	65	65
2	Lot-2	63	65	65
3	Lot-3	61	65	65

4.3.6 AIR QUALITY MONITORING

82. The potential sources of air pollution during construction are the vehicles, kick- off dust, asphalt plant and crusher. Visual observations were noted to monitor water sprinkling at dust prone areas during the construction activities. The occasional sprinkling of water observed at all sites. The concerned contractors were advised to take care to control the dust emissions. Visual observations were also made for fitness of the vehicles to minimize the smoke emissions. The contractors' environment specialists of each Lots ensured that the dust should be reduced to maximum possible level so that it may not affect the workers and the surrounding

environment including the native people.

- 83. Contractor is adopting measures helpful in controlling air quality deterioration in the subproject activity areas like regular water sprinkling to reduce the air dust emissions and regular tuning of vehicles maintaining the equipment properly to minimize the smoke and other gaseous emissions. The objective was to minimize the airborne particulate matter, dust pollution and fumes of vehicular emissions into the atmosphere to avoid negative impacts on the health of construction workers, residents, and nearby vegetation.
- 84. Visual observations were made to monitor regular water sprinkling at dust prone areas during the construction activities and to monitor the vehicular emissions to minimize the smoke emissions. Contractors ensured water sprinkling at most of the sites. Contractors are regularly checking up their construction vehicles and machinery to comply the vehicular exhaust emission levels. Contractors regularly tune their vehicles at all the subproject sites. The use of masks and helmets are mandatory at construction sites by workers. Transportation of excavated material by using covers on the dumpers to avoid spills is observed at Site.
- 85. The results of instrumental monitoring are presented in Table below;

Table 4-9: Air Quality Monitoring Results (24 hrs) 4th quarter Lot-01, Lot-02 and Lot 3

S. No	Parameter s	Unit	Lot-1	Lot-2	Lot-3	Campsit e	PEQS	WHO	Baseline
1.	PM 2.5	ųg/m ³	33.21	34	31.9	35	35 yg/m ³	15	30
2.	PM 10	ųg/m ³	115.13	129	141	143	150 yg/m ³	45	127
3.	СО	mg/m ³	2.17	0.6	0.8	1.3	5 mg/m ³	4	0.73
4.	NO2	ug/m ³	25.43	27.8	26.9	28.6	80	25	15.70
5.	SO2	ųg/m ³	20.53	19.8	19.2	21.3	120 yg/m ³	40	18.52
6.	NO	ųg/m ³	17.9	10.4	11.6	13.2	40 yg/m ³		9.49
7.	NOx	ųg/m ³	43.33	26.7	26.7	28.6	130 чg/m ³	120.0	25.19

86. All the environmental parameters were analyzed during the environmental testing to assess the level of compliance with the most stringent standards/guidelines between the PEQS and IFC standards. As can be observed in the Tables 4-9 above, the pollutant all parameters on all sites are within the applicable limits the PEQS standards/guidelines. WHO standards/guidelines for the excessive value of PM10 and PM2.5 is overall poor air quality due traffic and industrialization in Sahiwal city.

However, it shall be ensured that more stringent measures are implemented in order to ensure that these excessive values are brought within the applicable limits when the monitoring is conducted in the next quarter. In particular, the following measures shall be implemented:

- An increased volume of sprinkling of water shall be conducted to ensure that the airborne dust emissions are brought down to within the applicable standards/guidelines.
- Excavated material will be covered and will not be stored for long intervals at site; All vehicles, machinery, equipment and generators used during construction activities will be kept in good working condition and be properly tuned and maintained in order to minimize the exhaust emissions.
- Preventive measures against dust will be adopted for on-site mixing and unloading operations.

4.3.7 NATURAL HABITAT PROTECTION

- 87. As per SSEMP, the contractors should avoid damaging the natural habitats and to replant the damaged plants, if unavoidable, after construction. Also, the native wildlife and habitats should not be disturbed. However, no tree has been cut during construction processes on any of the subproject. Similarly, no native species are being disturbed due to the construction activities. Tree plantation cost is kept for each subproject.
- 88. Neither flora nor fauna were disturbed by the contractors until now at any of the subproject area since the subprojects involve only Construction of Water Supply and Sewerage System at Sialkot city which locate farer to wildlife habitats. Wildlife sanctuary does exist near any subproject site. No hunting of birds and animal is reported. Continuous monitoring is being carried out by inspectors of NESPAK to check any hunting activity or activities damaging vegetation or wildlife habitat.

4.4 Material Resources Utilization

89. Material resources utilization is necessary to meet the objectives of the project and to satisfy the client's requirements. During reporting period, the Contractor faced financial problems which affected the project progress. The contractor's construction resources include:

- Materials
- Construction plant, tools and equipment
- Human Resources
- Space and facilities
- Subcontractor
- Finance

Table 4-11: Resources Used for Lot-01 & Lot-02 Sahiwal

1a	ibie 4-11: Reso l	irces Usea for	Lot-01 & Lot-02		
Resources	Unit		Quantit		
	Ullit	Lot-01	Lot-02	Lot-03	Lot-04
Material					
Cement	Ton /Page	46649 bags	3270.04 ton	3004	11498
Cement	Ton /Bags	J		ton	Bags
Sand	Cft	23400	217585	190918	37641
Crush	Cft	35004	292446	252446	84221
Diesel	Ltr	200893	406820	20256	19025
Petrol	Ltr	17084	23897	13981	15946
Steel	Ton	848	746	714	294
Machinery					
Excavator	No.	3	5	3	4
Water Bozer	No.	1	2	1	2
Tractor Trolly	No.	4	11	6	1
Loader	No.	1	1	0	1
Front Blade Tractor	No.	3	2	0	2
Crane	No.	1	1	1	1
Pipe Production Machines	No.	-	7	5	6
Pipe Testing Machine	No.	-	1	1	-
Long Trailer(for pipe Shifting)	No.	3	0	2	-
Batch plant	No.	-	1	1	-
HDPE jointing machine	No.	3	-	-	-
Concrete Vibrator	No.	4	4	1	1
Plate Compactor	No.	2	3	1	1
Road Rollers	No	2	5	1	1
Mini Roller	No	1	3	3	1
Human Resource					
Engineer	No.	4	8	6	7
Supervisor/Forman/Surveyor	No.	10	15	12	17
Labour	No.	210	165	130	190

Table 4-10: Resources Used for Lot-01, Lot-02, Lot-04 & WWTP Sialkot

Table 4-	10: Resources	Used for Lot-01, Lot	-02, Lot-04 & \	WWTP Sialkot	
Resources	Unit		Quantit	y	
Resources	Onit	Lot-01 & Lot-02	Lot-03	Lot-04	WWTP
Material					
Cement	Ton/Bags	1950 Ton	-	955 Bags	132 Bags
Sand	Cft	150750	325290	260555	1000
Crush	Cft	6580	-	5230	850
Steel	Ton	325	-	195	0.2
Diesel	Ltr	32450 & 35550	3090	9945	
Petrol	Ltr	25200 & 14600	7590	9452	
Machinery					
Excavator	No.	13	2	1	12
Water Bozer	No.	2	1	1	1
Tractor Trolly	No.	8	3	3	8
Loader	No.	4	2	1	2
Front Blade Tractor	No.	2	1	1	1
Crane	No.	4	1	1	1
Pipe Production Machines	No.	4	-	-	-
Pipe Testing Machine	No.	1	-	-	-
Long Trailer(for pipe Shifting)	No.	2	1	-	-
Batch plant	No.	1	1	-	1
HDPE jointing machine	No.	-	2	2	1
Concrete Vibrator	No.	5	-	3	1
Plate Compactor	No.	5	2	1	-
Road Rollers	No	2	1	-	3
Mini Roller	No	2	1	1	-
Human Resource					
Engineer	No.	4	3	4	2
HSE Manager					1
Safety Officer					1
Supervisor/Forman/Surveyor	No.	17	10	13	20
Labour	No.	65	60	98	20

Table 4-11: Resources Used for PLGA

Resources	Unit	Quantity
Material		
Cement	Bags	34,842
Sand	Cft	174,783
Crush	Cft	304,525
Steel	Ton	450
Diesel	Ltr	7324
Petrol	Ltr	217
Machinery(Daily Average)		
Generators	No.	5
Loaders	No.	3

Tower Crane	No.	1
Jumping Compactor	No.	1
Concrete Viberator	No.	4
Water Pump	No.	3
Crane	No.	1
Welding Machine	No.	1
Bar Cutting Machine	No.	3
Bar Bending Machine	No.	3
Tractor Trolley	No.	2
Tractor Trailer	No.	1
Transit Mixer	No.	3
Water Boozer	No	1
Concrete Batching Plant		1
Wood Cutter		2
Grinder		2
Human Resource (Daily Average)		
Engineer	No.	5
Supervisor/Forman/Surveyor	No.	13
Labor	No.	79

- 90. The use of water at construction sites for human needs, is basically related to the essential demands of employees of the construction site and these are preserved in accordance with the labour laws. At the construction site, the human water consumption, is for the following facilities: sanitary, housing, dining place, laundry, and kitchen, when preparing meals.
- 91. The other major use of water is for the sprinkling of water at project site for compaction and around the project site for dust control. Consumption of water for the reporting period at all project sites is given in Table 4-12 to 4-14 below

Table 4-12 Water Consumption during Current Period at Sahiwal

Sr. No.	Activity	Water Consumption in meter cube (m³) for period July 2022 to December 2022
	Lot- 1	
1	Accommodation at workers camp	185
2	Dust Suppression Activity	210
3	Site Offices	205

	Lot-2	
4	Accommodation at workers camp	265
5	Dust Suppression Activity	375
6	Site Offices	195
	Lot-3	
7	Accommodation at workers camp	225
8	Dust Suppression Activity	370
9	Site Offices	125
	Lot-4	
10	Accommodation at workers camp	230
11	Dust Suppression Activity	205
12	Site Offices	125
Total Wate	r Consumption	2615

	Table 4-13 Water Consumption During Cur	
Sr. No.	Activity	Water Consumption in meter cube (m³) for period July 2022 to Dec 2022
	Lot- 1	
1	Accommodation at workers camp	191
2	Dust Suppression Activity	601
3	Site Offices	300
	Lot- 2	
1	Accommodation at workers camp	180
2	Dust Suppression Activity	399
3	Site Offices	121
		Water Consumption in
Sr. No.	Activity	meter cube (m³) for period July 2022 to Dec 2022
Sr. No.	Activity Lot- 3	meter cube (m³) for period
Sr. No.	·	meter cube (m³) for period
	Lot- 3	meter cube (m³) for period July 2022 to Dec 2022
1	Lot- 3 Accommodation at workers camp	meter cube (m³) for period July 2022 to Dec 2022
1 2	Lot- 3 Accommodation at workers camp Dust Suppression Activity	meter cube (m³) for period July 2022 to Dec 2022 147 330
1 2	Lot- 3 Accommodation at workers camp Dust Suppression Activity Site Offices	meter cube (m³) for period July 2022 to Dec 2022 147 330
1 2 3	Lot- 3 Accommodation at workers camp Dust Suppression Activity Site Offices Lot-4	meter cube (m³) for period July 2022 to Dec 2022 147 330 103

6	Site Offices	182
Total Water Consumption		2910

Table 4-14 Water Consumption During Current Period at PLGA

Sr. No.	Activity		Water Consumption in meter cube (m3) for period July 2022 to Dec 2022
1	Accommodation at workers camp		61
2	Dust Suppression Activity		108
3 Site Offices			119
Total Water Consumption		228	

Sr. No.	Activit y	Water Consumption in meter cube (m³) for period July 2022 to Dec 2022
1	Accommodation at workers camp	61
2	Dust Suppression Activity	108
3 Site Offices		119
Total Water Consumption		228

Sr. No.	Activit y	Water Consumption in metercube (m³) for period July 2022 to Dec 2022
1	Accommodation at workers camp	61
2	Dust Suppression Activity	108
3	Site Offices	119
Total Water Consumption		228

4.5 Chemical Storage and Arrangement

92. Chemicals used are very limited and mainly include epoxy and grouting powder.

All chemical are stored in Proper Shaded/ Dry Place at base camps of contractors with following arrangements

- Placed properly on concrete slab or steel sheet
- MSDS provided in store room
- Store Kept Clean/ Not Use for Other Activity
- Proper Ventilation provided
- Adequate PPEs are provided
- First Aid Facility provided Site & Camp

- Fire Extinguisher available
- Warning Signs installed

4.6 Waste Management

- 93. The construction waste from the project site consists of asphalt waste, batteries, containers/drums, excavated natural material, oil filters, motor oil, scrap material and concrete waste. The waste from offices and labour camp consists of the municipal waste both solid and liquid effluent.
- 94. The liquid waste from camp offices has been disposed of by using the septic tank.

 The septic tank is present at all the Lots and liquid waste has been disposed properly.
- 95. Each type of solid waste has been managed separately and is discussed in Table 4-15.

Table 4-15 General Waste Management Practice

	Table 4-10 General Waste Management Fractice					
Sr. No	Type of Waste	Mode of Disposal/Use				
		Reuse in applications such as base, and sub-				
1	Asphalt Waste	base and some is blended for use in new asphalt				
2	Batteries	Sold to the Scrap metal recyclers				
3	Empty Containers/drums	Sold to the Scrap metal recyclers				
4	Excavated natural material	Reused off sites				
5	Oil filters	Sold to Recyclers				
6	Motor Oil	Sold to oil recycler for reprocessing and recovery.				
7	Scrap material	Sold to the Scrap metal recyclers				
8	Concrete Waste	Reuse in pavement base and sub-base				
9	Municipal Solid Waste	Disposed in Landfill site				

4.6.1 CUMULATIVE WASTE GENERATION

96. The waste generated all of three project sites from the cutting of earth is reused for back filling. The unused excavated material is disposed of at designated sites. Negligible construction waste including wire cutters, plastic and paper, etc. is generated at the site which can be recycled and reused in second market. Currently, all such waste is segregated disposed of temporarily on designated sites, identified and demarked before construction. Such waste is then removed to be reused in second market on regular interval with the help of specified subcontractors, assigned by each contractor.

97. Domestic waste is sold out to the vendors which then finally dispose off all collected wastes at designated Landfill Sites of each city. This method is identified in IEE reports and also the general practice of local municipality.

4.6.2 CURRENT PERIOD

Table 4-16 Waste Generation and Management During Current Reporting Period at Sahiwal

Sr.	Type of Waste	e of Waste Classification Waste Qu		Quantity	Mode of
No	Type of waste	Ciassification	Source	Qualitity	Disposal/Use
1	Batteries	Hazardous	Power using products such as construction vehicles and generators	04 Nos. (All Lots)	Sold to the Scrap metal recyclers
2	Empty Containers/ drums	Non-Hazardous (residues have been removed by washing or vacuuming)	Use to Transport and storage Fuel and lubricants	36 Nos. (All Lots)	Sold to the Scrap metal recyclers
3	Excavated natural material	Non-Hazardous	From Excavation of Soil	269 cubic meters (All Lots)	Reused off sites
4	Oil filters	General solid waste (non- putrescible)	From Machinery, Construction Vehicles and Generators	45 Nos. (All Lots)	Sold to Recyclers
5	Motor Oil	Hazardous	From Machinery, Construction Vehicles and Generators	235 Litres (All Lots)	Sold to oil recycler for reprocessing and recovery.
6	Concrete Waste	General solid waste (non- putrescible)	culverts construction	27 - 39 m³ (All Lots)	Reuse in pavement base and sub-base
7	Municipal Solid Waste	General solid waste	Offices, Camp Site	4.8 Ton (All Lots)	Disposed in Landfill site
8	Medical waste	Hazardous	Camps	0	

Period at Sialkot

Sr.	Type of Waste	Classification	Waste	Quantity	Mode of
No	7.		Source	•	Disposal/Use
1	Batteries	Hazardous	Power using products such as construction vehicles and generators	08 Nos. (All Lots)	Sold to the Scrap metal recyclers
2	Empty Containers/ drums	Non-Hazardous (residues have been removed by washing or vacuuming)	Use to Transport and storage Fuel and lubricants	14 Nos. (All Lots)	Sold to the Scrap metal recyclers
3	Excavated natural material	Non-Hazardous	From Excavation of Soil	270 cubic meters (All Lots)	Reused off sites
4	Oil filters	General solid waste (non- putrescible)	From Machinery, Construction Vehicles and Generators	70 Nos. (All Lots)	Sold to Recyclers
5	Motor Oil	Hazardous	From Machinery, Construction Vehicles and Generators	130 Litres (All Lots)	Sold to oil recycler for reprocessing and recovery.
6	Concrete Waste	General solid waste (non- putrescible)	culverts construction	15 - 20 m ³ (All Lots)	Reuse in pavement base and sub-base
7	Municipal Solid Waste	General solid waste	Offices, Camp Site	1.9 Ton (All Lots)	Disposed in Landfill site
	Medical waste	Hazardous	Camps	0	

Semi Annual Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

Period at PLGA

Sr.	Type of	Classification	Waste	Quantity	Mode of
No	Waste	Olassilication	Source	Qualitity	Disposal/Use
1	Batteries	Hazardous	Power using products such as construction vehicles and generators	03Nos.	Sold to the Scrap metal recyclers
2	Empty Containers/ drums	Non-Hazardous (residues have been removed by washing or vacuuming)	Use to Transport andstorage Fuel and lubricants	09 Nos.	Sold to the Scrap metal recyclers
4	Oil filters	General solid waste (non- putrescible)	From Machinery, Construction Vehicles and Generators	18Nos.	Sold to Recyclers
5	Motor Oil	Hazardous	From Machinery, Construction Vehicles and Generators	29 Litres	Sold to oil recycler for reprocessing and recovery.
6	Concrete Waste	General solid waste (non- putrescible)	culverts construction	02-4 m ³	Reuse in pavement base and sub-base
7	Municipal Solid Waste	General solid waste	Offices, Camp Site	0.003 Ton	Disposed in Landfill site
8	Medical waste	Hazardous	Camps	 0	

4.7 Health and Safety

4.5.1 COMMUNITY HEALTH AND SAFETY

- 98. During reporting period, the Contractor took utmost care for community health and safety. No incidents related to the community health and safety has been occurred during the current reporting period except 01 accident at Sahiwal.
- 99. In sahiwal, on Dec 23, 2022 at 12:40 PM a citizen named M. Faizan was on his motorcycle and was driving over speed, despite the speed limit sign boards being present in the area and tried to cross the excavated trench for going to the other side. During this attempt to jump over the trench with his motorcycle, he hit the Jersey barrier that had been placed next to the trench to secure the area. While doing this, the rider lost his balance and fell into the manhole excavation, resulting in a head injury. Since the rider was not wearing a helmet and was exceeding the speed limit assigned for this area, the injury proved fatal. Rescue 1122 was immediately called but he expired on the spot. Notification and incident investigation report is attached as Annex I.
- 100. The following measures were taken to ensure the safety of community:
 - The project site was cordoned off, especially the areas where machinery is involved were barricaded and constantly monitored to ensure that local residents, particularly children stay away from construction area. Also, no machinery was left unattended, particularly in running condition.
 - Drivers were provided orientation on safe driving practices to minimize accidents and to prevent spill of hazardous substances and other construction materials during transport.
 - The contractor has deployed adequate number of flagmen carrying flags, whistles etc. to facilitate community, avoid road traffic accidents and ensure smooth movement of the traffic. Furthermore, contractor's offices are keeping good coordination with their respective City Managers and site Resident Engineers for effective implementation of the road safety measures. Additionally, the each contractor has deployed adequate numbers of safety cones, installed warning/reflective taps, displayed informative sign boards at multiple locations and hold consultation meeting with the community to aware them regarding the project nature and possible hazards.

4.5.2 WORKER SAFETY AND HEALTH

- 101. Health Safety training and instructions are provided to workers on regular basis. Proper Emergency Response & Awareness System Regular supervision and monitoring of demolition and construction phase is carried out in compliance with the Health and Safety requirements as per standard specifications outlined in EMP and in the Contract. No incident related to the workers' health and safety have been occurred during the current reporting period.
- 102. First aid medical facility was provided by contractor for each project site. Construction activities have minor impacts on safety and health of workers. Prior to starting the project engineering and administrative control measures were taken by the contractor. For example, provision of Personal Protective Equipment (PPE) to the work force is considered the mandatory step in health and safety management system. No incidents related to the workers' health and safety have been occurred during the current reporting period. HSE response record for each subproject site is showed below in table 4-19.

Table 4-19: Health Data

HSE Response	Sahiwal	Sialkot	PLGA	Accumulative
No. of persons provided with First Aid	04	07	03	14
No. of persons referred to hospitals	1	01	0	02
No. of persons diagnosed COVID-19	0	0	0	0
No of fatalities	0	0	0	0

103. In order to comply the Environmental management plan (EMP) and HSE of project area contractor strictly complied with the health safety and environment rules and regulations. Basic first aid medical facility was provided by contractor for each project site. Layout plan for camp site, indicating safety measures taken by the contractor, e.g. firefighting equipment, safe storage of construction material, security, fencing, and contingency measures in case of accidents.

4.5.4 FIREFIGHTING ARRANGEMENTS

104. Fire Extinguishers are inspected on regular basis and kept in good condition. "Smoking is prohibited" signs are displayed at project site. The Contractors have provided the fire extinguishers at each camp site. Furthermore, the trainings and TBTs are delivered at site to the concerned workers how to use the fire extinguishers at the time of any

fire hazards. Since the project started at site, no fire accident has occurred at site.

- **4.5.5** The overall working environment in the project area needs utmost improvements to make it completely safe with the implementation of corrective action plans however no major incident/accident or casualty has been reported in Sialkot, Sahiwal and Lahore.
- 4.5.6 As per Health Safety and Environment (HSE) Plan, the Contractors are responsible for provision of full PPEs for the labour and staff deployed at work. For safe execution of the work, the Contractor has deputed an HSE officer and for adequate supervision of the HSE issues at site. At all three subprojects i.e. Sahiwal, Sialkot and PLGA Lahore overall status of use of PPEs is satisfactory. The PPEs issued to worker are Dust Mask, Ear Plugs, Safety Gloves, Safety Boots, Safety Jacket, Safety Helmet and Safety Goggles. First Aid kits are available at campsite, but ambulance is not available at any subproject's sites, Contractors have arranged other vehicles in case of emergency. However, Govt. hospitals as well as private clinics are available in close vicinity to deal with any major injuries and health issues, dispensary is also available at campsite. Contractors are advised to ensure provision of Ambulance on priority basis.

4.5.7 SAFETY SIGNBOARDS

105. Safety sign posters are considered one of the tools of creating awareness among the workers. The Civil Contractor has arranged satisfactory work in this regard at all subprojects sites of Sialkot, Sahiwal and PLGA Lahore.

4.8 Appropriate Staff Name and Contact Details

106. Details mentioned in Table 1.1.

4.9 HSE Training

- 107. Regular internal trainings at all subprojects sites related to HSE were given to the concerned staff and work force by the contractor's environmentalist and OHS Managers on regular basis. This has been reflected in respective monthly progress reports. HSE training sessions are attached in Annexures G.
- 108. The laborers were encouraged to participate in this training and advised that safety should be ensured. HSE training was delivered on following topics:
 - Use of PPEs
 - Slip, Trip and fall Hazards
 - Access Paths
 - Safety of Scaffolding

- Oil Spillage
- Electrical Wires Hazards
- Noise Hazards
- Welding, Cutting and Grinding
- Excavations
- 109. HSE staff motivates labour to follow the standard procedures during the execution of work by providing them rewards i.e declaring the H & S champion of the month and incentives.

4.9.1 Stand Down Session on Health And Safety

- 110. A one day training session on Health Safety and Environment (HSE) was conducted on 20 July 2022 and 21 July 2022 at Sahiwal and Sialkot respectively. The session was conducted by Ms Shazia Shahid, Environment Specialist (Consultant), Asian Development Bank. In the session, a diversity of stakeholders was present including PMU, CIU, NESPAK, WATSAN contractor for Lot-01, Lot-02, Lot-03, Lot-04 (ZKB-Reliable) and WWTP Contractor (Shannxi Water Resources & Hydropower Engineering Group Co, Ltd), their management staff, field staff and HSE team participated in training. Training was focused on safe work execution by eliminating the potential risks and hazards from work site and implementation of standards.
- 111. ADB specialist highlighted all issues regarding health and safety during construction at the site. The main objectives of the session are as follows:
 - Understanding and familiarity with Health and Safety; Familiarity with National and ADB"s guidelines and principles on Occupational Health and Safety
 - Understand why Health and Safety are important for everyone.
 - > Familiarity with construction Hazards.
 - Everyone needs to give due consideration and importance to the Health and Safety Aspects.

In the training, the main principles of occupational and community health and safety were discussed. These principles include Identifying and minimizing the hazards, Providing preventive and protective measures against the hazards, Providing appropriate equipment to minimize risks and requiring and enforcing its use, Training workers and providing them with appropriate incentives to use and comply with health and safety procedures and protective equipment, Documenting and reporting occupational accidents, diseases, and incidents; and Emergency prevention, preparedness, and response arrangements in place. She also described the implementation of such principles requires appropriate legal provisions, administrative enforcement, and a service system for occupational safety and health and occupational health services. OHS needs to be a top priority for the organization to implement workplace health and safety measures for their employees.

5. FUNCTIONING OF THESSEMP

5.1 SSEMP Review

- 113. It was observed that all the subprojects are implementing the measures proposed in the EMP and SSEMP. This was mainly due to the fact that the contractor's nominated staff were trained on Environment, Health & Safety which in turn helped a lot in implementation of mitigation measures proposed.
- 114. As these subprojects mainly involve soil/earthworks, dust suppression measures were stressed upon by the contractor. The contractors' staff was persuaded to maintain good house-keeping and waste generation/management.

Sahiwal Lot-01, Lot-02, Lot-03 and Lot-04

- 115. The contractors are mostly complying with the conditions mentioned in SSEMP, however few lacking's were observed which is provided below-:
 - There is weak implementation of PPE's found on Lot I and IV for which it was conveyed to contractor to fulfil all Safety related guidelines. The contractor was also given instruction that site supervisor should take care of these issues and enforce the use of PPE's during construction activities. After the instruction the situation on Lots were improved. r.
 - In SSEMP there is plan for COVID-19 SOP's implementation, but few workers at site were observed without masks. Contractors were advised to implement all WHO's Covid -19 SOP's.
 - Flags men were not sufficient due to which problems were occurring during work site due to which traffic congestions occurring. Contractors were advised to positioned the trained Flagmen at each diversion and evade any traffic blockings.
 - At Lot-04 sites work in deep trench was involved and due to the unstable soil strata issue of land sliding was faced for which contractor strictly instructed to provide shoring of trench and adopt best engineering practices to avoid land sliding issue.
 - Debris material was present at site which should be removed to protect community health and safety and to avoid social issues.

- Water Sprinklings should be done at each point regarding this matter contractor was instructed to ensure the sprinklings the site and plant regularly.
- Ambulance services should be available for all lots separately at sites.
 Supervision Consultant has issued non-compliance to the Contractor for necessary arrangements.

Sialkot Lot-01, Lot-02, Lot-03, Lot-04 & WWTP

- 116. The contractor is mostly complying with the conditions mentioned in SSEMPs, However; few lacking's were observed which is provided below-:
 - There was weak implementation of PPE's found on Lot I and II for which the non-conformance notices were issued to the contractor. The contractor was also given instruction that site supervisor should take care of these issues and enforce the use of PPE's during construction activities. After the instructions the situation on both lots were getting better.
 - At Lot-02 and few of Lot-01 sites deep excavation and work in deep trench was involved and due to the unstable soil strata issue of land sliding was faced for which contractor strictly instructed to provide shoring of trench and adopt best engineering practices to avoid land sliding issue.
 - There was issue related to damage to utilities at both Lot 1 & 2. It was causing
 problems for community and a lot of complains received on same issue. The
 problem was expected because the project area is very congested. The utility
 related issue were resolved within 24 hours
 - Water Sprinklings should be done at each point regarding this matter contractor were instructed to ensure the sprinklings the site and plant regularly. Water sprinkling was observed at all construction sites and no complaint was registered.
 - Ambulance services should be available for all lots separately at sites.
 Supervision Consultant has issued non-compliance to the Contractor for necessary arrangements.

PLGA

117. Monitoring for the implementation of SSEMP has been actively carried out by the Consultants and PMU site staff throughout the reporting period. Following are the observations in this regard;

- 118. As this project mainly involve building construction works, dust suppression measures were stressed upon by the NESPAK staff. The contractors` staff was persuaded to maintain good house-keeping and waste generation/ management.
- 119. The contractor is mostly complying with the conditions mentioned in SSEMP, however few lacking's were observed discussed below-:
 - In SSEMP there is plan for COVID SOP's implementation, but few workers at site were observed without masks. Contractor was advised to implement all WHO's Covid SOP's.
 - Water Sprinklings should be done at each point regarding this matter contractor was instructed to ensure the sprinklings the site and plant regularly.
- 120. The implementation of environmental monitoring plan remained satisfactory and internal monitoring has been carried out in accordance with the monitoring plan at each subproject sites.
- 121. The SSEMPs provide adequate guidance for the mitigation of environmental impacts resulting from the current construction activities. All the mitigation measures set out in the SSEMPs are appropriate and no change is needed at this stage of the project.

6. GOOD PRACTICES AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practices

Sahiwal Lot-01, Lot-02, Lot-03 and Lot-04

- Establishment of Contractor's camp is within the permissible standards and parameters
- Site Specific Environmental Management Plan is in place with true letter and spirit
- Sanitation and wastewater disposal at camp site has been monitored
- Job opportunities are preferably provided to the locals
- A good liaison is established between CIU, Supervisory consultant and contractor to follow the environmental safeguard guidelines
- All workers and machinery have been got insured by the contractor.
- Noise and Vibrations are found within PEQS limits

Sialkot Lot-01, Lot-02, Lot-04

- Noise and Vibrations are found within PEQS and WHO limits
- Air Quality has been monitored and within safe limits except PM10 and Pm2.5
- Drinking water Quality has been monitored and within safe limits
- Flora and Fauna are not unnecessarily damaged
- Health Safety standards are compliant
- Complaint register is in place of project site and No complaint/conflict observed
- A good liaison is established between CIU, Supervisory consultant and contractor to follow the environmental safeguard guidelines

PLGA Lahore

- Contractor has taken very strict action to avoid the corona virus contract.
- Frequent water sprinkling was observed to avoid dust pollution.
- Disinfection of working place and equipment periodically through Chlorine spray tanks.
- Pictorial evidences of good practices are attached in project photographs.

Sahiwal Lot-01, Lot-02, Lot-03 and Lot-04

- Reporting period and quarterly environmental monitoring timeline should be followed strictly.
- Restoration should be timely and in efficient way to avoid the nuisance for public
- Shoring and hard barricade at deep worksites should be ensured for the safety of workers and to avoid public exposure.
- Timely removal of surplus material from construction sites to avoid nuisance for the public.
- All the concerned staffs have been instructed to improve OHS performance levels including use of PPEs, implementation of working hours etc.
- Training sessions must be conducted more frequently

Sialkot Lot-01, Lot-02, Lot-03, Lot-04 & WWTP

- Restoration should be timely and in efficient way to avoid the nuisance for public
- Shoring and hard barricade at deep worksites should be ensured for the safety of workers and to avoid public exposure
- Timely removal of surplus material from construction sites to avoid nuisance for the public
- Material transportation should be in the night time to avoid traffic issues
- All the concerned staff has been instructed to improve OHS performance levels including use of PPEs, implementation of working hours etc.
- More campaigns regarding project's sites safety for public awareness needed

PLGA, Lahore

- The EPCM should continue to provide both off and onsite HSE training to the Contractor's top/middle management, supervisory staff and workers for the capacity building and providing them necessary awareness on how to deal with HSE issues that arises on day to day basis.
- The trucks carrying construction material should be properly covered to avoid public nuisance.

7. SUMMARY AND RECOMMENDATIONS

7.1 Summary

- 134. During this reporting period, activities of WATSAN construction works are in progress. At the start of the construction, the contractors have partially fulfilled their duties about Environment, Health and Safety issues but now things are better and contractor is giving full attention to the mitigation measures and implementation of environmental management and monitoring plan.
- 135. Environmental provisions have been incorporated into contracts of the works constructions
- 136. Field inspections by the Contractor, Management Consultants and PMU were regularly made. Each of these has assigned manager in charge of environmental management. They also serve as grievance focal points.
- 137. Project related information and associated contact details have been posted in the bulletin boards at all construction sites. Public complaints can also be lodged in register and telephone. To date, many public complaints have been issued and resolve within 48 hours' time period, so the community will not have to face any problem.
- 138. The issue of the housekeeping, waste disposal, PPES, signage, dust suppression and covering waste material, while issue of PPES were found on all WATSAN on-going works in both Sahiwal and Sialkot sites for which the non- conformance notice were issued after which the contractor has taken the relevant measures.
- 139. Main Contractors camps and labour camps, storage areas and vehicle/machinery places are being maintained according to prevailing Environment, health and safety standards at all sections
- 140. All the HSE component status, during reporting period is satisfactory. No major complaint and accident have been reported.
- 141. Copy of the Camp site Guidelines, Grievance register and monthly SSEMP Compliance Checklists was available at all the sub projects. A person designated from the contractor's side was present at each site to coordinate implementation of SSEMP recommendations and any first aid related issues.

- 142. No noise and vibration related complaints from public or workers were registered.
- 143. No surface water or ground water contamination was reported due to oil spillages, solid waste dumping during the reporting period. However, it is recommended spill control equipment should be ensured at campsite.
- 144. No flora and fauna were disturbed by the construction activity. No mortality of wild animal was reported.
- 145. No cultural heritage sites/ wetland/ protected area/ mangrove/ estuarine lies in RoW of any of the sub project alignment.
- 146. No damage to the agricultural land due to borrow pits or topsoil erosion was reported However cost-effective mitigation measures are suggested to avoid soil erosion at site.
- 147. During construction, special attention has been given in the areas where there are encroachments on the roads side, to minimize the impact on the livelihood of the locals. The contractors are well aware of the problem and working accordingly.
- 148. The construction waste from the project site consists of batteries, containers/drums, excavated natural material, oil filters, motor oil, scrap material and concrete waste. The waste from offices and labour camp consists of the municipal waste both solid and liquid effluent. All waste has been disposed of as per the plan described in SSEMP.
- 149. Traffic management and safety is being given the top most priority in the overall project corridor.
- 150. Child labour was not observed on any subproject. Contractors were advised to discourage child labour in future as well. It was advised that Identity verification should be carried out prior to hiring and the record should be maintained.
- 151. No complaints regarding transmission of Communicable diseases (such as STI's and HIV/AIDS) were reported.
- 152. No ozone depleting substances are used. Only approved substances (chemicals and technologies) are used having negligible significance to the climate change.
- 153. Overall, no major conflict with the community was observed. Cordial liaison has been maintained with local community.

7.2 Recommendations

- 154. The following recommendation should be applied to all the subprojects i.e. WATSAN work Sahiwal, WATSAN work Sialkot and PLGA, Lahore
- All the plans established in SSEMP(s) must be implemented in full swing.
- Regular internal and external inspections are required along with routine visual inspections and monitoring.
- Contractors of all subprojects are required to arrange proper external training of staff and maintain its record. During this reporting period, the external training was not conducted.
- H&S Champion program on a monthly basis to encourage the workers adhere with various EHS requirements. This can comprise of monetary rewards for workers, posting pictures on notice boards etc.
- Contractors are advised to motivate and train staff for the use of PPE's.
- Traffic management and safety should be the top most priority in the overall project corridor. The Traffic Management Plan should be available at all sites.
- Spill control equipment should be ensured at campsite

APPENDICES

Semi Annual Environmental Monitoring Report No.6
Punjab Intermediate Cities Improvement Investment Program

ANNEXURE – A Non-Conformance Notices NCN

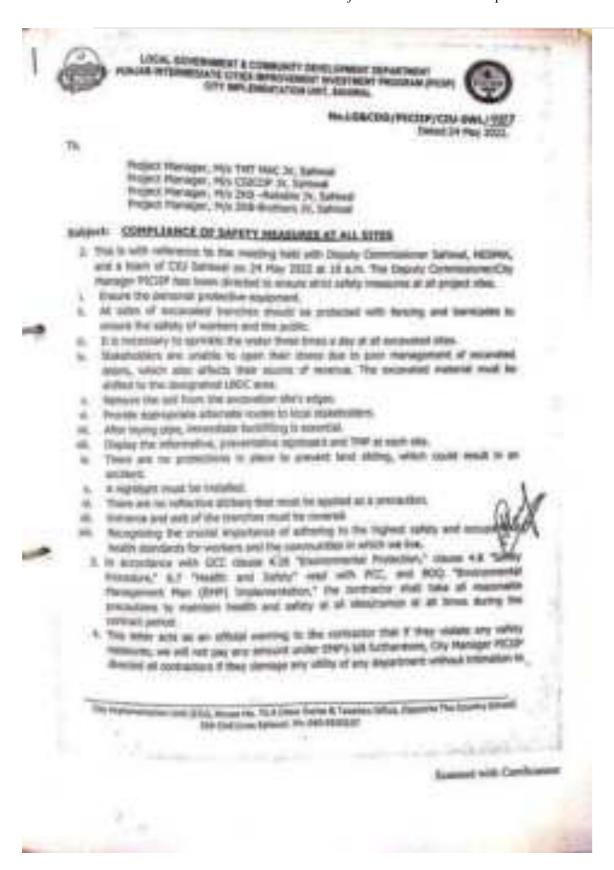


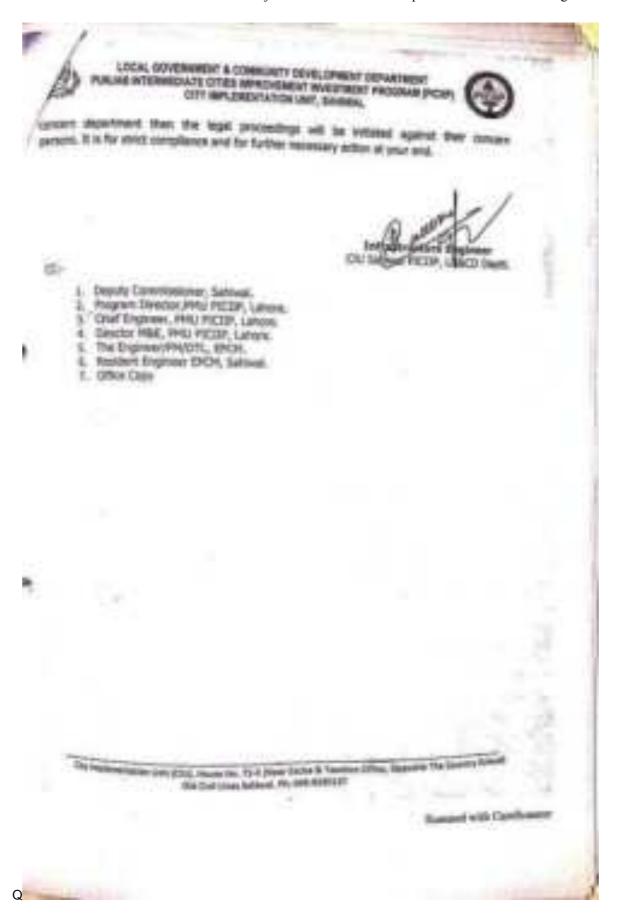


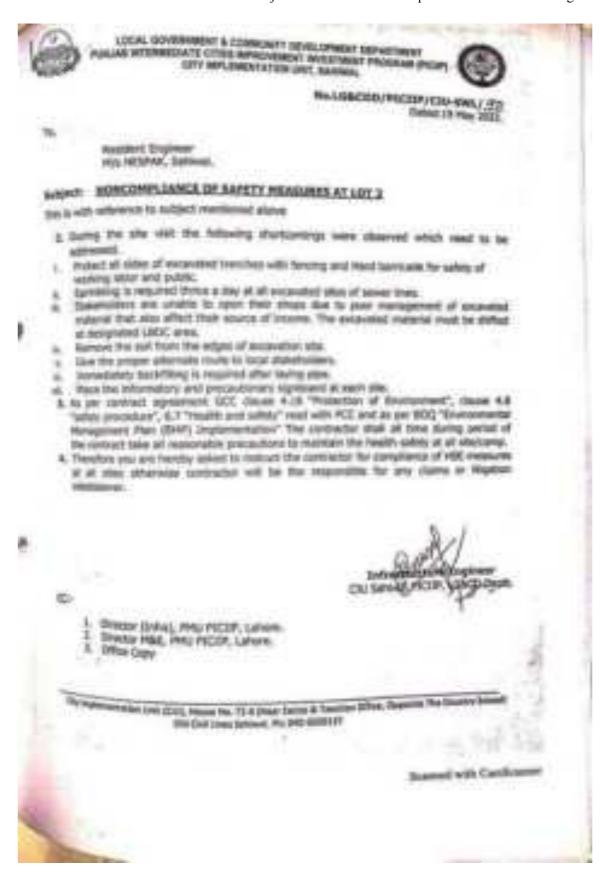












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Semi Annual Environmental Monitoring Report No.6
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ANNEXURE B: Sahiwal: Environmental Test Result Reports 4th Quarter

Semi Annual Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

Lot-1

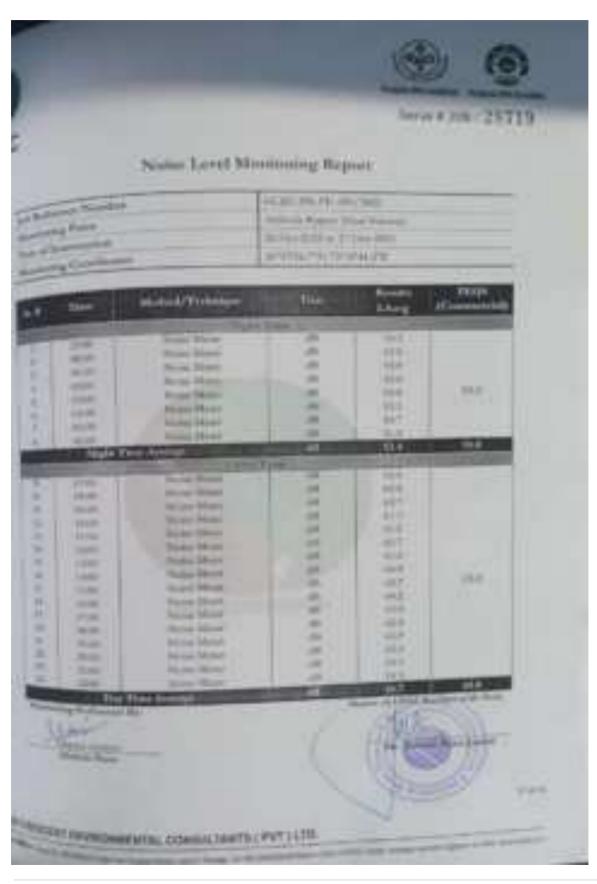






Figure 4: Environmental Monitoring at Sahiwal bypass near McDonald's







Environmental Monitoring at Sub Way





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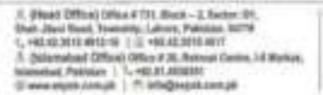
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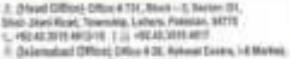
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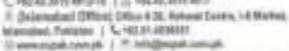




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ANNEXURE C: Sialkot: Enviro	nmental Test Result Reports 3 rd & 4 th Quarter
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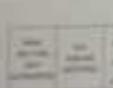
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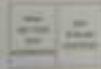






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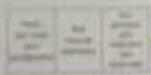
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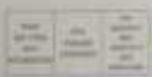
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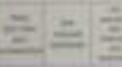






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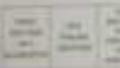
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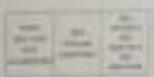
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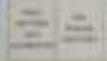
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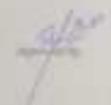
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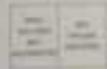






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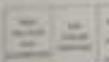
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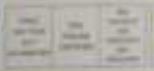
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AMBRENT ARE QUALITY TEST REPORT

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No. 10010





AMBIENT AIR QUALITY MONITORING

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Date: (W1)minute, 2022

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Management Page

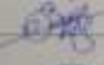
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NORE LEVEL MONITORING REPORT

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AMBIENT AIR QUALITY TEST REPORT

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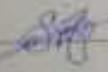
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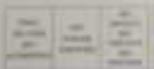
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TEST REPORT OF GROUND WATER SAMPLE

Reference No. Will COACHES UND DUT

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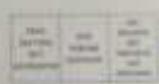
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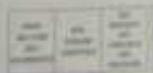












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TEST REPORT OF GROUND WATER SAMPLE

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China Street

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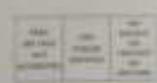
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TEST REPORT OF GROUND WATER SAMPLE

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TEST REPORT OF GROUND WATER SAMPLE

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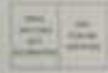
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TEST REPORT OF GROUND WATER SAMPLE

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TEST REPORT OF GROUND WATER SAMPLE

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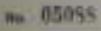
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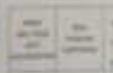
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TEST REPORT OF GROUND WATER SAMPLE

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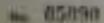
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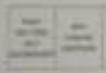
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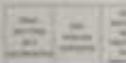
















NA: 05091





AMBIENT AIR QUALITY TEST REPORT

Reference No., WELCOS/2023/AA/03-1

Date: 66 January 2021

Name of Industry: Proposent: EEB-RELABILE (2V)

Addresse: ZKB-Reliable Base Comp Mirals Road Stalker

Coordinates: 32.59974493C34.217844.E

Monitoring Point Knitzen Bond, Siglion Monitoring Date: 23 December, 2022

Mositoring By: WELCOS Representative

Monitoring Parameters

		250	1	
15	(Accessed	Figure emplosed Annuage	III ANDREW AIR	Commission
1	Carbon Monosolie (C21)	34 Hose	A pagin!	4.2 mg/m ²
İ	Sulphur Dinnish (1931)	34.0km	Life or an	Distance.
,b	Outin (ICHImpro at (NII)	28 New	Mag/W	24.7 (40%)
4	Osako OFHilmpor at (NOs)	24 West	Miles w	41.1 agw
10	Regisable Particulars Matter Philip	34 Hear	100 agran	HTR Harri
6	Registric Personal Meter PM.,	34 Hor	"At years"	Ni pagrari
Ì	Suspensibil Partituline Martin (MPM)	24 Nove	Stryg's:	291.8 jag/m ²
*	Course (CL)	24 How	Strapes"	42.6 pg/m²
	Noted	24 Hours	61.00	44.2 (8)

Abbreviations: PEI(6: Purple Ex-incomettal Quality Standards

Terms and Conditions:

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- The expert should be reproduced as a whole not in parts.
- Duby sublimated instruments were used for aduly the















AMBIENT AIR QUALITY MONITORING

Reference No. WELCOSCHULANUS-1

Date: 06 January, 2023

Name of Industry/ Client:

ZIGH-RELABILE (ZV)

Address

2703-Reliable Base Camp Meesla Road Malace

Coordinates

TERRITORIS IN, TALESPIALE

Monitoring Point:

Kadeer Book Siebot

Monitoring Nature:

Antique Air

Monitoring Intervals

2 Hours

Intervention Date:

25 Doorsber,2022

Completion Date:

24 December, 2822

10.	Thee	CO (mg/m)	505	(m/m)	SEN, Degree's	PML	PMAIL DROWN	HPM.	OL DATE OF
6	2,50	93.	386	37	39	284	19/3	7319	596
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1.	6.35	1.0	116	28	54	210	155	310	791
A.	9.30	8.6	319	26	33	248	139	279	77
ź.	10:36	43	295	26	48.	168	110	310	59
6.	80.59	(2)	190	33	42:	330	71:	340	34
T,	200	1.7	36	.28	47	97	39	20.	28:
8.	4.30	1.2	60	25	49	90	21	261	67
9.	0.30	6.2	31	22	38	88	200	-111	21
j¢.	8.36	.0.8	31	121	54	.91	26	200	24
11.	1838	2.7	80	526	60:	917	310	268	391
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A	wrage:	43	177.5	\$8.5	48.1	147.8	10	391.8	62.9

Agrin,

Foreigned III













NOISE LEVEL MONITORING REPORT

Reference No. WELCON262 VAA/III-1

Date: 66 January, 2023

Name of Industry! Client:

2KB-BELABILE (IV)

Address

ZKB-Reliable Base Comp Marels Road Stalker

Coordinates:

32,5097449.N, 74,917048.E

Monitoring Point:

Karberr Road, Status

Musitaring Nature:

Moise

Monitoring Interval:

216nes

Intervention Date:

2) Demmher,2022

Completion Date:

24 Occurator, 2002

	a braini	the comment of the contract		
	Time	Noise All:	PEQS	
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- 3	Arresge	64,2		







MA. 10681











AMBIENT AIR QUALITY TEST REPORT

Beforence No .WILCOS/2823/AA/65-2

Date: 06 January 2023

Name of Industry/ Proposest: 2KD-82LASSLE(JV)

Address: 2509 Sullable Stee Camp March Steel Stalker.

Coordinates: 32.491811 N. 74.598584 E.

Monitoring Point Street Road, Nigher Munitoring Bates 24 December 2022

Monitoring Hy: WELCOS Segrenostation

Monitoring Parameters

		760	200	
13	Parameter	Time respisate manage	in Andrews Are (24 Mount)	Consuming
1	Carbon Momento (CO)	TAlline	Engle!	Mires.
1	Sulphar Disside (10))	24 Hour	Ding w	943 ag w
1	Ories Of Newpork at 2003	34 Heat	Magra'	26.1 ag/o
	Osian Of Herger in (NG)	Stilling	9500'00'	ALL Jugite
1	Regmilds Personises Mates 194	24 Hour	titing w	(24.6 agre)
6	Responds Particulate Home PM.	2434mz	M-squi'	18.7 japle!
1	Surpervised Formacions Interes (SIPM)	54 Hour	700 pg/m²	389.3 yg/w*
8	Clamp (Cut	24 Nor	197 pg m	61.1 ppm
	Notes	3116un	6148	29.4 (8)

Abbroviations: PEQS: Putjel Environmental Quarter Standards

Terms and Conditions:

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- · Duly calibrated increases; were used for analysis.



















AMBIENT AIR QUALITY MONTTORING

Heference No. WELLOS/2023/AA/63-2

Date: 06 January, 2023

Name of Industry/ Client:

2004-RELABILE (IV)

Address

JSD-Reliable Base Camp Murala Road Sinform

Coordinates

12.491813 N. 74.5W084 K.

Munitoring Point:

Roma Rosal, Sindor

Monttoring Nature:

Ambuet Air

Munituring Interval:

2 Hours

Intervention Date:

24 Densitée 2022

Completion Date:

25 December 2021

de.	Time	(mg/m)	90. (HE H)	900 (99' W.)	NO.	PM.	(M/m)	(100 m)	(ing/w/)
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4.	R:00	8.75	- 81	.27	73	349	- 12	291	84
4.	10:00	9.68	- 76	24	47	224	34	264	65
6.	90.00	8.71	40	21	40	133	28	251	25
1.	2.00	100	34	21	84	.99	28	294	64
8.	4.90	9.64	-42	22	31	89.	29	:247	31
S.	6.30	0.77	31	- 20	46	(17)	16	:261	48
10.	8:00	0.89	37	18	12	91:	21	267	59
ÍI.	10.30	4.86	41	21	34	129	28.	249	52
12.	12:20	139	.10	24	37	149	23	311	17.
Av	WINDE	18	66.8	24.1	44.7	126.8	387	269.3	594



Bertrag Services

CONT.



no. 10683











NOISE LEVEL MONITORING REPORT

Reference No. WELCONZUCT/AA/03-2

Date: 06 Jensey, 2023

Name of Industry/ Client:

ZEB-RELAUREE (TV)

Address

2908-Railable Base Camp Marala Road Siellon

Coordinates

STANDARD N. TASMONA E.

Mantheing Pone:

Roses Road, Statton

Monitoring Nations

Street.

Mastering Interval:

I Hven

Intervention Date: Completion Date: 24 December 2022 25 December 2022

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13.	12:30	66			
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Mo. 10684











AMBIENT AIR QUALITY TEST REPORT

Heference No. WELCOS/2023/AA/03-3

Date: 06 January, 2023.

Name of Endorry/ Propagate: ZKII-RELABILE (IV)

Address: ZKB-Ralistic Rest Coop Monte Hoad Studios

Coordinates: 32,500043 N, 74,491732 E

Manthering Point Marcla Board, to Print of Ceres, Approxima Training Come.

Sighot

Meeting Date: 21 December 2022

Monitoring By: WELCO's Representation

Monitoring Parameters

		996	100 miles	
1.5	Parament.	Time- weighted Arresign	Committees in to Applicat into	Comments
	Carbot Messale (CD)	- 24 Hine	d mg/m²	Lingle
3	Sulphur Dissort (NO)	34 How	128 pg/m*	458 pg/m²
3.	Oslahi-Of Himsger as (NO)	34 Hop	40 pg/m²	Stagen'
4	Ooko OCHimper at (NO),i	201tie	10 ag/m ²	76.6 agor
5	Regitable Fatteries Mater Pht.,	34.96nd	Stragen'	175.8 sqm
	Respirable Particulars Nature 176-1	24 ther	19 sain!	40.5sg/w
1	Supposited Perforcing Marker (SPIN).	24 Plane	Siting or	Director's
	Ours (0 _i)	Dillow	'Olayle'	Street.
7	Trains	. 24 Hours	41-00	26.7 (8)

Abbreviations: PEQU: Purple Environmental Quality Standards

System-and Conditions:

- Report cannot be used for any kind of years case STFC imparise yo.
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mo_ 10685











AMBIENT AIR QUALITY MONITORING

Reference No. WELCOS/2023/AA/63-3

Desc 16 January, 2023.

Name of Industry/ Client-

ZKB-RELABILE (TV)

Address

ZKB Belieble Base Camp Murals Boad Station

Coordinates

\$2,5000 G N, 74,49(7)2 E.

Monitoring Point:

Marsia Road, In Front of Gern, Agamstition Trending Contro.

SW8ce

Morning Nature:

Andrews No

Musitoring Internal:

Elfours 25 December 2022

Intervention Date: Completion Date:

26 December, 2022

(her)	Time	CO (mgm)	100:	DO'N')	(80) (80)	(m/ N)		SATE AND	Out of
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),	19.49	2.8	344	- 21	33	209	tit	356	61
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4	25.69	1.4	.39	38	41	212	.01	281	177
ń,	01.00	11.0	38	27	43	142	dik	260	59
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1.	88:00	84	40	28	34	.128	38	204	53
9.	87.00	0.0	44	31	39	104	29	340	54
10.	191.00	8.8	44	-28	##	128	37	218	57
H.	11.00	1.6	71	26	49	189	48	257	52
12.	15.00	-21	13.	29	60	.002	54.	310	29
An	veraged	14	41.8	25.6	30.6	175.8	61.5	279	4



















NOISE LEVEL MONITORING REPORT

Reference No. WILLCOWZEZ/AA/03-3

Date: 66 January, 2017

Name of Industry/ Client:

ZKR-HELATRLE (7V)

Address

ZXB-Ratishic Base Camp Marata Road Statled

Coordington

32,500043 N, 78,695732 E

Monitoring Point:

Matela Road, In Francial Gove, Aggregation Training Corner,

Sielkie

Monitoring Nature:

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Monitoring Innerest:

Zillian

Intervention Date: Completion Date:

25 December 2002 26 December 2002

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	40	13: 00	13:00	
	56.3	Arrenger		





















AMBIENT AIR QUALITY TEST REPORT

Beforess: No .WELCOS/2023/AA/03-4

Date: 06 January 2023

Name of Industry/Proposint: ZKB-RELABILE (ZV)

Address: 2KB-Reliable Three Corns Marain Boad Staffact

Coordinates: 32.92517 N, 7s.aki107s.jr.

Monitoring Point: Air Port Hond, Double Call Conduit, Sinfact

Meathering Bate: 28 December 2022

Munituring By: WELCON Representation

Monitoring Parameters

		760	Ol Limite	
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4	Osido Of Herger as (NO.)	24 Hour	Mag/m	SLEAGUE.
1	Response Ferticalise Matter PMLs	3416mm	100 refer	10 agm
	Respositive Particulars Matter PSE,	Skilling	.15 pg/m*	36.lpg/m ²
7	Inspecified Particulant Marter (5954)	311fmr	THE OF P.	121 Fages
1	Otem (Oci	24 Hour	110 up m	513 pg/m
9	Strike	28 Hours	67.60	314.00

Abbreviations: PEQS: Projet Environment Quality Standards

Terms and Conditions:

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AMBIENT AIR QUALITY MONITORING

Reference No. WELCONCHED/AA/03-4

Date 96 January, 2023

Name of Industry/ Clients

EXP-RELABILE (IV)

Address

ZKB Reliable Stare Comp Murals Road Station.

Coordinates

33.525517 N.74.49(976.0)

Mandacing Point:

Air Port Food, Elvable Cell Condult, Siellon.

Missinoring Nature:

Ambient Air

Monitoring Interval:

2.186am

Intervention Date:

26 Doumatios.2022

Completion Date:

27 Dougether, 2002

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8.	10.00	2.8	110		79	194	- 12	784	42
4.	21:06	3.1	188	38	11.	104	38	428	.38
1.	23/80	(2)(91.	39	19.	.181	44	416	(4)
6.	30.00	3.8	84	32	164	161	30	Y(E	(12)
	83.99	1.4	59	26	- 40	197	- 28	216	.50
1	65-00	0.9	48	25	14	110	- 20	254	48
60	675 969	67.	54	29	11	104	19.	216	12
10.	99.90	68	- 67	111	300	(84)	(18:	3316	44
H.	111 (0)	13	10	38	0	89	. 29	347	69
12.	13:16	24		39	.59	.100	32	317	.54
As	orage	2.0	81.3	36.1	63.8	343	361	337.9	21.8







Ma. 19659











NOISE LEVEL MONITORING REPORT

Heference Nv. WELCOS/2023/AA/83-4

Date 04 January, 2023

Name of Industry: Client:

ZEB-RELABILE (ZV)

Address

2008 Reliable State Carep Marala Boad Stalker

Coordinates

32.223117 N; 74.4919 N; E.

Monttoring Point:

Air Fort Road, Double Cell Combit, Sinfort

Monitoring Nature:

Trobbe

Monitoring Interval:

2 Hours

Detervention Date: Completion Date: 24 Douander, 2022 21 Douander, 2022

	Time	Trains (III)	PEGS
L.	17.00	68	-
2	11:00	- 0.0	
3.	.19.10	62	Day 65-48
4.	21:10	60	
2.	23:10	63	
6.	80.90	.18	Night 20 db
2.	03.96	34	
ė.	03.00	11	
9.	07.00	11	
16.	99.00	.00	Dig: 67.69
IL.	11:00	12	
(2.	81:99	34	
	Average:	57.8	



















AMBIENT AIR QUALITY TEST REPORT

Beforence No .WELCON/2023/AA/03-2

Date: 66 January,2021

Name of Indicates/ Programmi: ZKB-BELADILE CIVY

Address: ZKB Reliable Base Camp Munic Road Nation

Coordinates: 32.525557 N, 74.682685 III

Monttoring Point Old Alegert Head, Freez Wait Line, Sigket

Mountoring Bates 27 Departme 2022

Monttoring By: WELCOS Representative

Monitoring Parameters

2.5		993	M.Lindy	ALC: UK
	Present	Year- regited Average	Comments of the California	Commission
1	Curbon Monorade (CO)	34 How	1 mg/m²	16 mg/m
1	Sulphur Disvide (NOs)	24 Hour	129 pg/m"	75.8 ag m
1	Online Of Yallesgare as (NO)	34 Heat	and help and	34.7 pg/m²
A	Oroki OChilmpin si (5O-)	24 Hinz	Miles and	Hage.
7	Respectits Particulars Matter PM _{ex}	34.Hor	(Bliggree)	165.6 jajon*
	Karpenini Particulars Hatter (NA.)	Skiller	25 jagle?	32.5pg/m
7	Torpredial Particulate Motor (58%)	24 Host	200 pg/m/	ZNFppW
	time (Ed	34 their	135 parm'	Strage
+	Noise	24 Hours	51-68	36.8 400

Abbreviations PEQI: Purjob Environmental Quality Standards

Term and Continue

- Report summer be used for one kind of sourt case CPO hitgains are
- The report should be regrotioned as a whele not in parts.
- Dely californial instruments were used for analysis.









mi. 10691











AMBIENT AIR QUALITY MONITORING

Beforess No. WELCOS/2823/AA/83-5

Date: 18 January, 2025

Name of Badwary/ Clice:

JEB-RELABILE (7V)

Address

2008-Reliable Base Camp Murain Boad Stalker

Countinoston

32.12557 N. 54.482685 H.

Monitoring Point:

1788 Airport Road, Firey Main Line, Tiefker

Missituring Nature:

Anthine Air

Monitoring Interval:

2.16 says

Intervention Date:

21 Donatov,2022

Pro-	44		4 64		
Completion	Daire		f. Dhouse	Busin: 1	m
	No de entre				-

				A CONTRACTOR OF THE PARTY OF TH						
54.	Time	(CO.)	100 m)	NO.	NO ₁	PM-	PM at	5896 166 W.S.	Ov mar mi)	
10.	1700	27	92	31.	34.	304	18	324	41.	
2	17:00	2.8	96	28	73	367	41	549	700	
1	19:00	2.4	11	34	68	231	19	784	34	
4.	21:00	2.1	93	31	nit.	310	36	331	21	
5.	2):00	1.8	12	25	18.	181	32	296	48	
η.	81:00	(8.8)	76.	- 21	54	147	19	316	(4)	
7	89.46	3.4	11	26	11:	110	12	274	.90	
L	102.00	3.5	64	21	AR	121	36	258	42	
ė.	07:00	1.0	21	22	49	124	29	216	32	
16.	(40-100	8.7	41	26	n.	300	33	796	44	
n,	11.06	1.8	57:	34	11:	3100	- 34	174	49	
12.	13: 90	0.9	59	25	57	167	38	191	54	
An	oragei	1.6	23.6	31.7	58	162.4	329	250.9	18.1	







to 10592







NOISE LEVEL MONITORING REPORT

Reference No. WELCOS/2021/AA/03-5

Date: 66 January, 2023.

Name of Industry! Client:

ZKB-BILLABBLE (IV)

Address

ZKB-Ballable Base Comp Music Bond Sinker

Coordinates

30.425517 K, 54.4K0AR5 E

Musitoring Point:

Old Airport Road, Finne Main Line, Nighor

Monitoring Nature:

Noble

Munitoring Interval-

2.Hinn

Intervention Date:

27 December 2002

Completion Bate:

28 December, 2002

54.	Thee	Note 40	2006
b	(3.09	- 64	
2	17:00	-0	2003
5.	29.00	40	Day #5 dill
5. 4.	21:00	41	
5.	23:00	34	
6.	40:00	34	19 gin 51 dill
9. 0. 0.	CT: 96	.50	
0	10:10	.01	
0.	67:06	30	
(0.	00:00	.54	Dep 45-89
tr.	11:00	.54	
12	01:00	28	
	Arvenge	56.8	





















AMBIENT AIR QUALITY TEST REPORT

Maference No. WELCON/2023/AA/III-6

Date: 06 January, 2023

Name of Industry/ Programms - ZXD-RELABILE (IV)

Address: 25/H-Heliable Base Comp Muratic Road Sindius:

Coordinates: 32.409/25 N.74.532227 E.

Monttoring Point Stolads West Works (T38), Sinker

Mouttoring Bate: 28 Occasion, 2022

Monttoring By: WELCOS Representative

Manitoring Parameters

Ш		.190	26 Liens	
11	Afternio a	Time- mingland drawings	Commission in Australia (24 Marris	Committee
À	Carlon Manual /COS	24 Hore	fagis'	45 new
2	Sulptur Discibi (50)	24 floor	100 pg/10 ²	60 agrae
3	Onlini () (Nimupa at 24())	34 Hoer	May N	Stigger
+	Children Of Hilbridgen and (NO.)	24 Hour	Mag/n/	44 agree
5	Empredie Party slain Mater Phil.	24.How	tilt ng w	datages."
	Regnolds Particular Name PM.	20 Hoe	Maghi.	Hage.
*	Supposed of Particulars (Marco (1979))	24 Hour	Strag's	7355 sales
	Ottom (O.)	24.Hoe	(Nug'er'	'Allagn'
7	Noise	34 Hors	97.69	54.8 48

AMERYORISM PROF. Pagas Environment Quelly Transacts.

Terms and Conditions:

- Report causer be used for any kind of sourcean EPCE ligation as:
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- Date sufficient intraceum were and for analysis.









m. 10694













AMBIENT AIR QUALITY MONITORING

Reference No. WELCON/2023/AA/SS-6

Slate: 06 January, 2023

Name of Industry/ Client:

ZKB-RELABILE (IV)

Address

JKS-Bullshie Base Comp Stands Road Halket.

Coordinates:

32.499525 N, TA.535257 E.

Munituring Point:

Mobalah Water Works (T10), Nadlore

Munituring Neturn:

Ambient Air

Mountaring Internal:

216 am

Intervention Date:

28 Desambler,2022

Completion Date:

29 December 2012

84.	Time	500	560, 540 HO	1947 (67)	500, (040 m)	PM	(PM in)	SPM -	(N)
jį.	12:00	3.4	31	21	40	(1)	3.0	104	34.
I.	17 06	1.2	54	21	33	74	30	.101	45
1.	19:00	8.9	48	25	-50	18.	17	141	49
Ł	21:00	0.8	17	. 22	46.	81	38	148	44
5.	23:00	3.0	44	-26	41	114	21	108	46
16	90-00	3.8	41	(18)	43	148	23	768	36
7.	111.00	8.9	38	17	40	42	22	140	31
6.	85:08	6.7	31	19	78	45	24	4702	18
4.	02:00	8.6	34	. 26	34	49	22	3.10	39
10.	193-56	11	29	24	0)	-86	23	134	42
H-	11:46	3.9	43	21	45	7991	28-	2007	- 64
12,	12:00	1.1	48	26	- 44	89	26.	127	400
À	verage	8.9	44	22.8	+4	34.6	243	139.3	43.2







no. 10695











NOISE LEVEL MONITORING REPORT

Reference No. WELCOS/2023/AA/03-6

Date: 06 January, 2023

Name of Judgetry: Client:

JSGR-HELAIBLE (7V)

Address

2500 Helieble Date Camp Membe Road Nation :

Coordinator

32-499125 N; 54-231237 E.

Municipal Print:

Mobality Water Works (T18), Malket

Munituring Nature:

Trodae

Munituring Intervals

2 than

Intervention Date: Completion Date: 28 December 2022 28 December 2022

renge	Name and Address of the Owner, where the Owner, which the	Time	2
	43	12/00	4
-	37	17: m	
Dep. 45 als	14	19:00	
		21:00	2
	59	23: 00	03
Ngk51-III	30 -	83: 60	
	- 14	60: 60	
	36	60: 60	
	58	67: 60	6
Dey 85-88	30	39:00	n.
	-m	11:10	E.
	54	60:100	2
	548	Average	















AMBIENT AIR QUALITY TEST REPORT

Reference No. WELCON/2025/AA/EI-7

Date: (0 January 2023

Name of Industry Proposition ZEB-RELASSEE (IV)

Aildress:

23(3) Reliable Sinc Corp Monin Road Sorker

Coordinator

32.381401 FC 74.54841 E

Monitoring Point

Schrole College Wood Tank, Soulton

Monitoring Distri-

29 Desirables, 2002

Monitoring By:

WILLCOS Repor

Monitoring Parameters

	100000	750	S Lines	P HAT
14	- Common	Free- respired movings	Commercialism in Analysis All (24 Heart)	Committee
1	Carbon Monovale (C25)	3416ne	Treple.	STegre.
İ	Solyhar Shanda (StS ₁)	24 Moor	131 pg (n²	HARMY.
3	Oothe (IChlinges at (NI))	24 How	40 agr or	Page 1
4	Oxide Of House at (NO)	24 Hour	Magrar	22.heg/e ²
	Regishle Particular Manue PN	34 Rear	THINK'S	25.6 ag w
6	Parameter Personal Method Philips	-24 New	Hagis'	[6.4 pg/m]
1	Supposited Planton States (SESE)	24 floer	30 pg/10	CD pare
	Gram (O.)	20 Hour	200 ag/m ²	20.9 agw
*	Note	38 Block	65.66	74 -00

Abbreviations: PEQE: Public Executated Quality Standards

Troppi and Conditions:

- Report cannot be used by any limit of court care EPG-frequence str.
- The report about the reproduced as a whole not in parts.
- · Daily salifeated increasing were and for apalipin-







10697











AMBIENT AIR QUALITY MONITORING

Reference No. WELCON/2023/AA/03-7

Date: 06 January, 2023

Name of bulestry/ Client:

ZSCH-RELABBLE (7V)

Address

2KB-Ballable Base Carry Sheels Road Staffort

Courdination

32,500425 N,74,548941 E

Munituring Point:

Marrie College Water Task, Stolker

Monttoring Nature:

Antibiara Air

Munituring Interval:

2 Heads

Intervention Date:

19 December 2022

Completion Bute:

30 December, 2022

Se.	Ther	(mp/m)	90,	THE TH'S	NO ₁	FM. a	THE W.	SPM (SW)	Opt.
T.	(1000)	1.8	37.	34.	47	164	11	300	36
2	17.96	LI	11:	1	10	34	26	148	29
4	10.00	8.8	24	. 7	21	38	21	128	32
4.	21:06	24	12.		19.	29	10	3167	31
10	21 90	8.2	1.	9	1.6	28	18.	.108	30.
4.	01106	28.4		3	10	-28	12:	14	136
1	83:00	8.2		4	12.	21		16	31
Ł	85-90	8.2	5	4.	in.	34	11.	int	11
6.	17:00	8,3	10		(0)	:29	14:	784	21
10.	89.08	10.	15	300	21	32	19-	310	-24
11.	10.00	8.5	17	. 13	29:	34	19	129	37
12.	11-00	8.6	24	15	32	18	25	142	36
Attenger		8,7	18.6	9	22.8	31.6	16.6	121	26.9



















NOISE LEVEL MONITORING REPORT

Reference No. WELCOS-2023/AA/03-7

Date: 96 January, 2023.

Name of Industry/ Clients

ZKB-RELATRIE (PV)

Address

20CB-Butterin Base Comp Harals Road Nation

Constituents

32.00H355N, 24.348961 E.

Manitoring Print:

Miletta College Water Tank, Stalkot.

Munituring Nations:

Noise

Monitoring futuresh

Zimun

Settervention Dunc

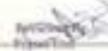
29 Dissaber,2022

Completion Date:

39 Disamber, 2002

No.	Time	Name dill	PEGN
-	11.00	901	
2.	15.00		
3.	19:00	. 36	Day AS-49
S.	21:00	33	
5	23:00	32	
6	86190	12 -	Night 55 40
6	83.10	10	
8	65:50		
1	67:30	10	
10.	#8:00	.93	Day 67 49
(6)	11/00	33	
12.	60.00	35	
	Average	54	









No. 10699





AMBIENT AIR QUALITY TEST REPORT

Reference No. WELCOS-2023/AA/40-E

Date: 06 January 2023

Name of Industry: Proposests: ZED-RELADIGE (IV).

Alidrene

ZK3-Bullishin Base Carry Mentis Road Steller

Coordinates

TO SERTIN N. THANKTHEE

Mostivering Point

Office Area (Comp Six), Nathor

Mentioring Date:

10 Departmen 2022

Meanuring By:

WELCOS Representative

Monitoring Parameters

		F81	NEW TON	
13	Personne	Time weighted movings	Consideration. In Annihora Aur 224 West 5	Constitution
)	Carbon Messodo (CSS	34 How	1 mg/m	34 kg/m²
1	Signar Dimini (NO)	Sitter	100 Mg/m ²	41.2 year ov
3	Children CE Prinsper at (1973)	24 Hour.	40 ag/m²	A.Pager
4	Oster OCharges at (NU)	24 Hour.	Magral .	Hegin'
1	Reguable Particular Natur PN y	20 fine	THE ME N	345 agw
+	Responded Particulars Matter Philys	24 Hour	21 pg/m²	12.7 µg/w
7	Supposed Patterne, March (SEN)	26ffer	Ming/n/	1617,1600
9	Darm (O.)	20 Hor	190 pg/m²	40.2 jug/m
	Notes	31 Heats	90.00	.14 20

Afterwrighten: PEQS: People Exvironmental Quality Standards

Tyrus and Conditions:

- Report turned for used for any loted of source case EPO (regional sec
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10700







AMBIENT AIR QUALITY MONITORING

Reference No. WELCHWINGSVAAGER

Chite: 66 January, 2023

Name of Sedantry/ Clean:

ZKIK-RELATILE (JV)

Address

ZKB-Rulishla Base Comp Marsia Road Nation:

Coordinates

32,568756 N, TLA99736 E

Monitoring Print:

Office Area (Comp Nitro, Stadion)

Monitoring Nature:

Architect Air

Mountaring Internal:

2 Hours

Sateryeation Date:

30 December 2022

Completion Bute:

31 December, 2622

Na	Time	CO.	50,	MG WY	NO:	THE WY	896.iq	MPH.	00000
W.	13100	1.5	29		38	10	3.6	182	31
1.	17 98	16.0	47	.10	32	78	320	218	46
3	19:00	8.7	14	12	41	.64	31	790	- 44
A.	21:50	0.6	28		44	.81	28	int	41
1.	23.06	3.6	49.	10	16	42	24	166	34
6.	01:10	(8,5)	##	. 6.	12	- 39)	17	(117)	41
1.	10.00	3.6	41		34.	-86	R	148	36
٤.	95.98	64	24.		381	Ti)	D.	131	18
9.	07:00	66.	12		21	46	12	100	- 81
16.	89.98	6.1	27		29.	(44)	16.	3.94	44
н.	11:00	8.9	34	.9	30.	149	211	(7)	647
12.	12:00	8.7	48	1	34	- 99	25	189	12
A	erreger	1.6	462	20	33.	34.5	22.3	1862	43.3







No. 10781









NOISE LEVEL MONITORING REPORT

Reference No. WELCOS/2023/AA/03-R

Date: 66 January, 2023

Name of Industry/ Client:

ZKB-RELABILE (ZV)

Address

23ch-Rubieble Base Camp Marula Brad Stallott

Creedington.

32.568716 N, TLASSTICE

Munituring Point:

Office Area (Camp Sites), Sadhot.

Monitoring Nature:

Triples

Manituring Interval:

2 Hours

Seterousium Date:

38 Downstor, 3622

Completion Date:

11 December 2012

recipionis trate:		31 190000000, 2000	
Sal.	Time	Solic 48	raco
L	13.00	40	
2	17:00	64	
1.	19:00	64	Day 45 att
4.	21:00	40	
5.	21:00	61	
6	01:00	9.	39gtc52 60
6. E.	93.90	.0	
£.	85:34	- 12	
0.0	67 10	.94	
10.	00:10	.03	Day 92-40
HC.	11/38	12	
12.	61:00	61	
	Average	18.3	









No. 10702





Beforence No. WELCOSCIEZUGWIES-1

Date: 6-latury, 2025

Chest Name

EXCHIBITABILE TAX

Address

292b Robinson Steen Comp Monte Board Stalker

Swepte Montification

Ground Water

Sample Location

Names Read

Sumple Collected Previded.

WILLCO'S Buggermentative

Sample Housesd Date

31 December, 2022 Assertate State Date

In December, 2022

Analysis Completons Date

6-lumery, 2021

Grah/Composite

43mbr

Environmental Conditions

Trespensions

25 + 5 °C Hamilty -79% HH

Analysis Personeters

MA	Parameters	Mater	PEQS	. Sout .	Ton Mercul Load	Benedic
ß.	gH (E) (Times. 23.9°C)	+	6593	607	APILL ATHER IS	fice
1	TDS	ing5	1.000	496	APRIA 2340 C	Pas
8.	Oder	= :	Non-Objectionable	Non-Objectionable	Terrory Method	Pres
Ä.	Taine	+	Non-Objectional No.	Non-Objectionship	Samony Method	Fine
1	Cide	-	Note Objectionable	New-Objectionable	Sensory Mathed	Pice
4.	Orderido	(tgt)	4.286	48	APSIA 4300 CS-R	Page
T.	Presents Compressed as phonesis	461	-	806.	APRIA-1509-C.A.D. USEPA method 438.1	Paie
8.	Hardress	ingit	< 100	3100	APRIA THE C	Pice
0.	Detrally	CHILL	-0.	112	APRA 2130 W	Fee
10.	Florido	mgt	213	1.48	APRICA 4990 F D	Fest
11.	Nilman (NCb.)	mg1	-199	1.25	APRIA 6500 NO18	Per
10.	Wilelie (NG)	hgf	13	000	APRA. 1500 710- B	Pers
(3.	Countrie (CN)	met	0.00	HDL.	AMIA-000-CV B.R.T.	Pers
14.	Cadmium	mg1	9.01	UIII.	APHA-JULE	Pen
10.	Marganese	mg1	(9.5	BUL	APRIA-0173 R	Plans
16,	Tine	mgl	5	901.	APHA TITTE	Fees
17.	Atmic:	mg1	29.00	6 0001	APRAJITER	Pen
(8)	Own	ryl	1	MON.	APRA-3113-8	PROMIT
10	Aand	Fign	(4.01	(MCM)	APHA-3113-0	1985















Sept	Parameter	Kiete (FEUR	Bred	Time Method Cond	Semific
20.	Nishel	rhgii	21002	BOC	APRA 3111-B	Pair.
21.	Alentone	regit	29.2	MOL	APHA.1113-B	Pari
11	Chromium.	mg1	0.000	Hill.	APRATID 8	Pen
23-	Marcury	mg/l	(3.80)	nos.	APRIL TEHE	Pase
24.	Sidnelian	mg/l	8.61	300.	AMARIDEE	Pan
25	Antonogy	regit .	216.000	Mac	APRA 3113-B	Parc
26.	Barton.	mail	9.7	806	A298 TT11.8	Pare
#	Bone	nu1	6.1	MH.	APRIA SIES-IB	Pec
38.	Olistin:	nu1	6.7	NOC.	APIA 4700 CTB & G	Pare
24	Total Californi	elle		4	APRA VI21 B	Pen
34	East	ith.			APRIA REZED	Pas.

Statement of Evaformity:

The sample blood complies in accordance with PEQN Limits for the noted parameters.

Althory believe

PEQN Purple Environment Quality Standards 888. Subset Dynamics Lines.
APPEA American Public Hastin Assertance TNTC The Standards to Court of Colons Forming Unit. NTE Supplements Turbully Unit.

Decision Rule:

Manufer : Expanded Uncertainty within Limits: Pass

Receive : Expanded Countriesty exceeds Limits: Fail

Receive : Expanded Uncertainty eventure limits: Indianamentals

Terms and Conditions:

- And/violene conducted on the request of proposes for his own PDQS compliance.
- This report abunds be produced as a velocity and not in parts.
- The sample is retained for 17 days after the issuance shall of report from the biburatory.
- There is no Reportion time by Mandissipped torset excepts. In case of recoding represents their plant, sample will be collected again.









25. 20.













Helermor No. WELCOS-2023/GW/93-2

Date: 6 January, 2023

Clinat News

ZKB-RELABILE UV)

Address

JKB-Rotistic Base Carry Morela Road Station

Sample Ideal/Process

Count Nave

Sample Location

Born Pond

Sangle Collected Provided

WELCOS Representativo

Sample Reserved Date

11 Documber, 2022 Assets Start Date

31 Deserving, 2022

Analysis Completion Date

6 James y, 2021 Grafe/Composite

Crist

Exciremental Coudmen

Temperature

23 5 5 °C

Hawidley <20% 221

Analysis Farameters

MF	Pacamities	Master.	FEQS	Sent.	Tree Method Ered	Kennelle
4.	(81-3) (Times 21.8 (C)		6343	0.99	APRA CORE II	Pare
1	706.	mil	- 1000		APRIA 2540 C	Pan
3.	tite	+	Non-Ottoniconstru	Som-Objectional de	Resury Method	Pain
4.	Yare	-	Non-Ottochonably	Non-Orjectoral to	Senery Method	Pain
1.	Color	-	Non-Objectionable	Non-Object-matrix	Sensory Herbolt	Penn
6.	Odenia	righ.	÷ 296	.60	APSA 4504 CLIE	Peie
1	Planets Compounds an phonois	mg3	4	100.	APRIN DIRECAD USEPA method (DL)	Pain -
8.	Plantiness-	my/i	< 200	- 340	ARNA 23 NFC	Pale
4	Turbully:	WILL	:-0.	9.2	AMA 2130 B	Page
100.	Planelsh:	ingt	213	9.29	APRICATION F D	Fee
11.	Nilean (NO)	-ingfi	5R2	30.68	APRA 4500 WO-B	Pare .
11.	Nitrite (NOs)	mgil	7.7	1806	APRIL 1500 NO. 0	Phot
13.	Conside (CH)	regit	(0.00	900	APPLICATION CN B & E	Feir
14.	Cahrian	regit	1.01	000.	APRA-3112.36	Feo.
15.	Marganese	mgt	-9.5	HOL	APR6-3733.88	Yes
16,	Die	mg1		447	APRATITI B	Park
47.	Anetic	mg1	5846	8,014	A79A 3114.8	Pen
18,	Cropper	myl	1	0.04	APHA 3112-8	Pas
19.	Lind	mg1	29.00	MOIC:	APRIA 3113-8	183







Saft.	Parameters	(Watto	PEOR	Heat.	Tot Method Look	Bernethe
28	Niskel	mg/l	5810	nin.	(42918-3113-8)	Pain
11.	Altermen	eg1	592	806	APHA 3113-81	Pain
11,	Chryslan	must.	19.00	806	SERVICE NEWS	Princ
21,	Mercary	mg/l	3,01000	HIII.	APM THE	Face
24.	Selesium	Fige.	0.01	BOL	APHALIDIC	Pwei
21.	Antimony	ref	≤ 0.003	3696	APRIL 3111-01	Pac
24.	Belon	mp1	8.7	MOL.	APRA 3111.8	Pen
21	thorse.	reft	8.1	ROL	APHA 1111-IB	Fee
28.	Chlorine	mail:	8.5	800	APRA 4700 CER A-G	Pere
29.	Total Cultime	iffs		8.	APRIA 9020 N	Pan
31,	Keek	efa			APRIA 9222 DI -	Pas

Statement of Conformity:

The sample final complies in accordance with PEQS Limits for the total parameters.

Abbreviations

PEQR Purple Communication Quality Standards BBS. Delice Describite Limit
APRA Assertion Public Health Assertation TNSC Size Numerous to Count
after Colony Forming Unit NTE Nephaloments Turbidity Unit

Decrease Bale:

Manufer & Capacided Uncertainty within Limite: Pass
Results & Especial Uncertainty counsels Limite: Fail
Results & Disposied Uncertainty contages (seein; Indiana science)

Yerms and Coudtings:

- Analysis was produced as the request of progresses for his seen PEOS compliance.
- They report about it to president as a velocity and not in party.
- The sample is remixed for 12 days after the issuence date of input from the laboratory.
- There is no Reservice time by Manning and notal samples. In one of resuling requirement from allests, comple will be collected again.





















Reference No. WELCONGERS/ST

Date: 6 January, 2003

Client Name

ZKB-RELABILEUV)

Address

JXR-Reliebic Rase Comp Manda Road Stalker

Sample Minetification

Grand Water

Sample Location

T 10

Sample Collected/Provided - WELCOS Approximates

Sample Becarred Date

31 December, 2023 Analysis Start Date

31 Deutsher, 2022

Analysis Completion Date: 6 January, 2023 Grafe/Composite

Grah

Exchangental Couliforn

Temperature

25 + 3 °C

-20% RH

Analysis Parameters

be at	- Parameters	Shire.	FEUR	Benk	Too Method Cook	Benada
H.	pet in Clemp. 21.9 °C)	-	5362	U.534	APSEA 430001" III	Piero
1	704	regit;	< 1000	340	APRA 200 C	Fee
1.	Othe	- 2	Non-Objectivesitie:	Non-Objectionable	Security Method	Paix
6.	Taxts:	-	Non-Olimeticasirio	New-Olipationship	Sensory Method	Pior
8.	Coley	A.2	New Objectionable	Non-Olympian alife	Somery Method	Face
6.	Ottoride	rigit	<286	10	APRIL AND COR.	Peo
B	Phendia Composition phends	mat	1	900	APRIA 5506 E.A.D. USERA motod KIR.)	Pais .
8	Hardrane	regit	< 500	128	AP914 2549 C	- Pais /
4.	Yurbidge	5000	49	0.1	APNA 2138 B	Pale
16.	Thursdo	-my1	53.8	9.16	APHA (DEF D	Mex.
11,	Nimer (NO.)	mgi	590	BOL	APNA 4700 NOB	Plant
12:	Nitre (NO.)	rigit	13	90%	APHA HIDD NO. B	Then
13.	Cyanile (CN)	ret	2581	MOL	APRIA-ARREST BASE	Peri
14;	Cidmin	rul	1081	:00C	APRIA/ICITIE	Fee
14.	Margarent	mgit	262	90%	AMSA-BUILD	Plani
14.	Disc	mgt		4.47	APRIA 1111 B	Pari
11.	Aneste	rul	1040	0.023	AP99-3114-B	Page
18.	Copper	mgi	- 1	NOL.	APRA SEED B	Aller
29	Lond	mad I	+ 644	306	APREX 1113-0	Harri













test.	Parameter	Sun-	PEQN	Newt	Tion Marked Load	Beaute
24	Printed	ing?	58.62	BELL	ARIA 3113-8	Pari.
21.	Alamman	Argil .	1.92	804	AM44.5113-86	Past
11.	Chromium	mail	1986	906	APRA 3113-B	Pain
23.	Memory	1995	570.000	901.	APNA TUEC	Pale
24.	Scienten.	ringti	0.01	900	APPIA JUNE	Pee
25.	Animony	rigit	±1.008	SOL	APRA 3113-0	Pais.
24,	Barium	nat	8.7	800	APRIA STESTE	Pek
25,	Born	reg/E	8.8	BEK.	APRAZITA B	Pau
28,	Otherse	mgt	0.5	BOL	APRIA 4990 CTB # G	Page
24.	Total Cidibaen	dic	- 1	- 1	APMA WITH B	Park
311.	Link	afa.		11	APRA REED D	Fax.

Statement of Conferences:

The complet finand complies in secundance with PEQS Limits for the world personners.

Abbrevietnes

PEGS Further Continues and Quality Standards BBL. Below Discount to Lines:
APRA American Public Health Association SYCEC Tair Humanous to Count
offs Colony Furning Unit. NTE. Super-countrie Turbinity Unit

Decision Bale:

Results v. Expended Uncertainty within Limite: Pass.
Results v. Expended Uncertainty exceeds Limite: Fail
Results v. Expended Uncertainty excelos limits; Inditeresistant

Terres and Conditions:

- And pile may combatted at the respect of progresses for his even PEQS compliance.
- This report should be produced as a whole and not in parts.
- The sumplie is retained for 11 days after the lossance date of report from the latinostics.
- There is no flatestice, time the Massishington tested samples. It case of settering requirement there client, catalog will be collected again.









to. 10708







Helicense No. WELCOSCHENGWISS-4

Dwn: v.lacory, 2001

Client Name

ERB-RELABLE UVS

Address

2008-Ballette Dans Corns Mercla Road Styless.

Named Advertification

Count York

Sample Location

Marrie College

Sample Collected Free tited

WES-COS Representative

Sample Hearined Date:

31 December, 2022 Analysis Start Date

33 December, 2022

Apulysis Completion Date

6 Immers, 2023 Grade Composite

Grid:

Exvironmental Conditions

Timperature

25 + 2 °C

Busidity

<20%,000

Adalysis Parameters

Salk.	Parasettes	2 Kindy	PEUN	Brook	You Michael Limit	Security
4.	set & Clemp. 23.7 °C	1	6543	(18)	APPLY EDGE IS	Per
ž.	706	mgf.	<1000	301	APHA 2040 C	Pan
ă.	tider		Nia-Olastioshie	Non-Organismatis:	Survey Metod	Pas
8.	Taine	- 43	New Digestionable	Hon-Objectionable	Sensory Medical	Fest.
X.	Cales	->1	Tice Objectionable	Non-Objectionably	Senior) Mathod	Pen
A.	Chartile	mg1	< 256	. 18	APHA 4990 CHB	Pasi
ı	Photosis: Compromis as photosis	mgi		900	APID-1570-C & D DSSPA rented 436.)	Pice
8.	Hedreit	mult	+ 306	210	APPIATENCE	Place
0.	Tivitiday	3010	-15	84	AP98A:21318	Fee .
16,	Floorido	ngt	21.0	0.02	APRILA ICIDO F DI	Paul
11	Nimm: (NG)	mail	150	2.66	APHA 4500 NO - B	Perio
10.	Ninte (NO.)	mg1	- 51	1006	AP(5) 4500 543. B	Two
13,	Coasile (Chi)	mgl	< 9.85	HOL.	APEA-4300-CN B & E	Plant
14.	Cultrium	mgt	6.01	HOL.	APRIA-211338	PMs.
15.	Margamor	mgil	19.5	SOL	APRIA-213339	Plan.
16.	Zinc.	mail		0.09	APHA SITE B	Park
17.	Armeio	mpt	2348	1 (14	APRIA.3134.98	Field
18	Copper	mgil	- 1	Jen.	APPA TID B	md
10.	Load	mgil	29.01	SICAL.	AMSA311249	Page











H#	Personner	Date	PEQS	Nomb	Test Method Tond	Hemathe
25.	Nobel	mgil	19.61	1000	APRil 3113-8	Paul.
21	Alumeum	mgit	192	948	APRA SULLA	Para
22.	Chemium	dgl	2935	804.	APRA 1113-B	Two
25.	Menury:	reg'i	2,8461	9616	409A7114E	Figes
34.	Indexion:	ngil	6.01	BOL	APRIA 3U14 C	Pws
25	Automony	eng-1	± 9.000	HIR.	APIR 313-8	Pass.
26.	Bartan	ing1	0.7	MDL.	APRIA SUIT III	Perc
\$1.	Neman:	reit	65	BDL.	APRIX 1111-00	Fano
26.	Chine	ruit .	14	RDL	APRA-4100 COR-8-G	Pan
29.	Test Celties	iffe			AP9AA-9022 IB	Pes
16.	Al scale	sty	- 1		APSIA REZULO	Per

Stationest of Conformity:

The sample board complian to accordance with PEQN Limits for the tortal parameters.

Abbryviations

PEOPL Purplet Continuencemial Quality Streetherds BBS. Holico Debumble Linear APMA: According Public Health Association TNTC. The Humanus to Count of College Forming Linit. NTD: Suppleboments Turbidity Linit.

Ducksion Hule:

Novice - Expected University within Limits Pass
Secular - Expected University current Limits Fall
Results - Expected University configs limits Switterseigen

Terms and Conditions:

- Amignic was constrained on the request of proposed for his own PLOS compliance.
- This report about the podessid as a whole sed our in parts.
- The sample is retained for 15 days wher the inscence over of paper from the inference;
- There is no fluroration time for Manufacting our turned samples. In case of secondary requirement those client, sample will be collected again.



Several line





- ·











Beforence No. WELCOSCHELOGWISS-5

Date 6 houry 2023

Client Name

PRO-RELABLEDY)

Address

2908 Stribble Bure Cares Herein Read Status

Sample Minerification

Ground Water

Sample Location

Martin Kried

Sample Collected Prevaled

WELCOS Representative

Sample Received Date

11 December, 2017 Analysis Start Bate

31 Benedos, 202

Analysis Completion Date

8 January, 2022 Grafe Companies

GnA:

Enrithmental Condition

Temperature

15 - 1 'C .

Hamilton, Time Hill

Analysis Parameters

No.	Parasities	Same	PEQL	Rendt	This Worked Court	Breakly
X.	pH lik (Timp. 24.%)	-	6543	(68)	APIGA COURT IS	Fee
1	T09.	mg/t	< 1000	1346	APIEA 2349 C	Fait
3.	Güw	-	No Opciondo	Non-Objectionable	Servey Method.	Piere
4.	Teste	-	Non-Objective-drife	Non-Ohjentenable	Samony Medical	Piece
5.	Oder.		Shar-Objectionship	Non-Okjestrochts	Servey Nethol	Pain
6.	Chlumin	(mg/l)	< 239	34(ARIA INCCLB	Free
X.	Plannilly Compromise as phonois	mgit	3.1	30%	APIA-HIN-CA II INDPA-mehod CB I	790
8.	Harrison.	mgfi	< 988	1011	APRAIMS C	Fell
6.	Twhility	NEU	-3	5.4	APRA TENTR	Fee
16.	Claratide	mgt	51.1	8.27	APRA 4900 CD	Pen
31.	History (NOs)	mgt	281	21.65	2016A 4588 5/G-0	Fee
12.	Frene (NES)	ring1	27	3.09	ARTIA ROTE NO. IF	Per
13,	Countile (CN)	mg1	55.00	300.	APRIL 4100-CH B & E	Pers
H.	Cubrium	reg1	421	30%	APMACITIES.	Plans
15.	Margarett	mult	19.1	HOL	APNA-311336	. Pan-
16.	Ziec	mgt		HOL	APRAJUL B	Pass -
\mathbf{IT}_{i}	Attentic	mg1	19.85	8.016	APHA STH B	Park
18.	Copper	rgi	1	1.07	APHA SITS 6F	Flori
19.	Loui	mpt	1/848	SOL.	APIA 2115-8	PHS.42









100	Parameters	Dwin	PEGN	. World	Test Method Load	Bonathi
24	Nishel	regit.	11.002	806	APHA IIII 38	Fee
26.	Aluminam	right.	±42	1000	APHA:1111-E	Pace
21.	Chemium	regit.	5885	HDI.	APRIA 1113-81	Pain
25.	Manuey	mgit	< 5.001	804	APRA STIFE	Pero
24.	Selection	mg1	X.01	BDL.	APRABILIA IC	Fee.
13.	Antimiany	mut	± € 480	805	APRIA SUID-III	Fee
28,	Harium:	regil	1.7	MIR.	APHA:3312.8	Pale
27.	Born	mgl	63	BUL	3P68-1111-0	Pani
28.	Chinne	rgi	1.7	MINE	AMIA ROCCID & G	Fes
29.	Tred Cultimer	4fts			APSEA 9722 IS	Pas
19.	Emil.	stic	. 0		AP64 622119	Plant

transment of Conferences:

The earsyle friend new compiles in accordance with PEOS Limits for the terrol parameters.

Althrestations

PEQS Posial Environmental Quality Numbersh BDC. Better Determine Lines.
APRA. Assertion Public Health Assertation. TNTC: Two Numerous on Court.
effe. Colony Forming Unit. NTU. Neglectments: Turbed or Lines.

Decision Rate:

Results - Expanded Overtainty within Lincoln Page
Streets - Expanded Constrainty seconds Lincoln Fad
Streets - Expanded Constrainty overlaps linear Indeterminant

Terms and Conditions:

- Analysis was conducted us the request of proposed for his over PEQS compliants.
- This report should be produced as a whole seal not in parts.
- The sample is retained for 15 days after the insurant date of report from the information;
- There is no Retention time for Microbiological total samples. In you of returing my remove these client, sample will be refineful again.

La vin

Byte Nad St.

Applicated the











Reference No. WELCOSCOLUNGWISS-6

Date + Januer, 2022

Client Name

DONELABILITY)

Address

ZKB-Relieble Base Camp Marata Boad Stallers

Sample Unset/Fourise

Ground Water

Sample Location

Airport Road, Struttle Cell

Sample Cellerted/Provided

WYX,CON Representative

Sweep're Received Date

37 December, 2022 Analysis Start Base.

St Disserbat, 2003

Analysis Completion Bane

6 January, 2023 - Alrah/Contposite

Grah

Earlebaserrist Couditions

Temperature

25 ± 5 %

Humbitts - 575 ftst

Andreis Parsenters

Parameters	Chane,	73.09	Beath	Too Noticed Load	Rename
pt & Climp. 23.7°C)	11.97	6343	147	APRIA 47000° N	Pare
3396	ingt.	< 1988	946	APRA254LC	Pare
Other	4	No Olygicality	Ras Elejanizador	Samiyey Matter	Paris
Tacto	+ (Objectiveship	Objectional/o	Seesery Method	Fell
Color		Nea- Objectionable	Objectionitée	Sensory Helbod	Fall
Chloride	mgrt	<250	48	APMA 4100-E1-8	Pio
Photolic Careprosite as plannis	micT		90%	APRA-1509-C & 19 UNDPA method 420.3	Pari
History	Tajm	<100	-01	APMAZING C	Para
Turbidity	WIL	-4	93	AFNA DIJER	Pare
Plantide	. mg/t	512	83	APNA KINEF D	Peo
Nimes SHOLD	ngf	-29	NO.	APIIA 4300 NOB	Paris
Nisrier (NIS)	mgi	53	MX.	APSIA 8181 NO. 9	Pers
Cysnin (CH)	mgit	±100	806	APRIA-ASSI-CHIR & E	Pero
Culterer	mgT	0.01	90%	APRIL-1113 B	Per
Magazon	mat	363	.006.	APRAINING	Pain
(Cite)	mp1	3	9.35	APRICE THE B	Fine
-freeze:	mail	3 n in	0.035	APRIA.2214 R	Yes
Creper:	mgit	- 3-	HDL.	APRACIOS AREA	Pan
	pet (g Climp. 23.7 °C) YDR Ostor Factor Calcerdo Phonolis Comprouds as plantals Handama Factoris Stantals Number (NO) Culturate Mangament Mangament Stat Mangament Mangament Stat Mangament Mangament Mangament Mangament Mangament	pet sp Climp. 23.7 °C) YDR mg8 Calor Facto Calor Calor Chiloride mg1 Phonolic Compounds at prig1 phonolic Hardonic mg1 Phonolic Stretisticy NTE Phonolic Stretisticy NTE Phonolic Stretisticy mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1 Nimpo (NC) mg1	PHONE PROPERTY OF THE PROPERTY	23.7 °C)	Principle Prin









SOF.	Personne	Klebs	PEQS	Bernit	Teni Method Lind	Howerha
19.	Leaf.	mgil	1940	200	APRIA 3113-38	Pair.
20.	Nickel	Hell	y940	348.	APRA 5113-0	Pain
21.	Alaminum	ing/L	182	BDG.	A296A.2113-B	Fine
22	Chronian	mgT	2305	1604.	ARRATITED I	Face
25.	Henry	my's	-9.801	BDL:	5896A3114.E	Pwo
36	Selevier	mg/l	8.01	19736.	APRIA 3114 C	Pare
25.	Antimony	mg1	59305	MOL.	A851A T123-8:	Pare
26.	Burier	mail	67	nin.	APRIA 21.01 III	Pass
31	Hime	reit	6,3	ROL	APNA 3111-8	Pine
28.	Chlories	Page 1	-13	901.	APRIA ARRECT BLACE	Per
24	Total Coliforn	ofte			APPEARITH	Parx.
34.	Essi	ufb .	- 6		APS64, 9222 (S	Pare

Statement of Conferency:

The sample found complies in accordance with PEON Livelin for the install pursuants;

Abbreviations

PEQR: Purjuk Devinormental Quality Standards BBS. Bullow Deturnative Limits
APRIX: Associate Public House Association TNYC. Two Homeston to Courte
offs: Current French Links
NEE: Highwhometal Statistic Date.

Decision Bade:

Kondin & Departed Uncertainty within Limits: Para Results & Departed Uncertainty counts Limits: Fail Results & Departed Uncertainty configs (South Backstroniage)

Terms and Conditions:

- Analysis was combarned in the support of programms for his same PEQA compliance.
- This report ploudd be preduced as a whole and not in parts.
- The sample is remixed for 11 days after the insurer pair of report from the laboratory.
- There is no Batesther time for Miscobiological tested samples. In case of streeting requirement from obset, sample will be collected again.



















Reference No. WELCONGROUGHOUS-7

Date: 4. housey, 2022

Client Name

ZXB-RELABLEUYO

Address

TKB-Reliable State Cargo Marco Road Station:

Sample Mentification

Orand Year

Sniegie Localine

Airport Road, Frene Main Line

Sample Collected Provided

WELCOL Representative

Named Remotived Date

11 Discretor, 2021 Adulton Start Burn

33 December, 2022

Analysis Completine Date

6. Immary, 2023 Girele Composite

Gleek:

Excitatoreous Conditions

Temperature 25十月10 Monthly - 7th to

Analysis Parameters

Sea.	Parametrials	Ewity.	PEON	Beech	Tax Method Cod	Benefit
Ti	pH of Clemp. 22.0 °Cr	1.	6343	4.61	APHA 43000 B	Peri
1.	TDE	tige.	+ 1000	674	82915 7540 C	Pale
3.	Other	-	Tree Officeriorable	Non-Original and de-	Servey Melod	Peri
4.	Tests	-	Non-Observable	NavCharrimbic	Sensey Notice	Pan
1	Oder	0.7	Non-Orientesable	Non-Original and No.	Sovery Moresi	Pan
4.	Cliferide	my1	<298	116	APHA KIND CLIB	Pen
X	Photolic Congramb as photols	egt	(+)	RON.	AMSILEMENT ALB	Pleas
	Bardese	lang!	1700	110	APRAIDH C	THE
8.	Tarbidry	MIL	:+d	1.2	AP94-3130-B	Firm
38:	Fluoride	(mg/l	2.63	8,33	APHA 4990 F DI	Pled
11.	Nitrate (NG)	1991	:50	11.5	APRIA 4790 NG-8	Park
12.	Nitrie (NSc)	mg/l	:0	800.	APSIA KIRK DEL R	Pan
11.	Cyrelide (E24)	mail	2885	HOL	AMIA-IND-CN SER E	Peso
38.	Cabrian	regil	0.01	RDC	APRIL-311318	Fee
11.	Mangaesee .	mgit	163	HOS.	APRABILIT	Pari -
16.	Enc .	mg/t	- 1	8.12	APRIA 2112 IS	Fire
17.	Arrens	mah	3000	6.60%	APHA SILE B	Pari
18.	Cieper	1661	2	HDL	APHA 310-0	383.41
10.	Loui	Tam	± 8.0f	HOL	APRA (110+8)	O'FEE











DOT:	Parameter	Chies	PEQS:	(Breeft)	Test Method Lord	Memories
21.	Michael	(191)	114482	3000	APBA3103-B	Fisio
21.	Aluminum	Ang/S	192	80%	APHA JUDE	Page
22.	Chemium	regil	C605	BOA,	A2916.3113-8	Piere
25.	Manuey	mg1	< 6.000	HOL	APHA3114 C	Pest
24.	Selenium.	(861)	6.03	806.	APRIA SELEC	Paia
25.	Artmony	myt	5 9.068	806	629/6.3115/di	Field
36.	Byrian.	regit .	0.7	HOL.	APHA NITE	Para
23	Biorpy	ngt	0.1	HILL	A200A 2013-80	Peri
24.	Chlotter	mgt	0.5	800	APRA 4000 COR A G	Fan
25.	Total Cultives	ufic	0		APSYA SCIZER	Pan
38,	Lock	ufu			APNA 922111	Face

Statement of Confermity:

The excepts finish has executes in accordance with PEQS Limits for the month parameters.

Abbrev lations:

PEQS Purple Environmental Quality Standards BDL States Described Lines
APEA American Public Hardle Association TNTC Too Names on Count
offer Cultury Energy Units NEST Nephalamonic Turnosity Costs

Decision Habit

Results - Eligended Uncertainty within Limits: Place Results - Eligended Uncertainty Awards Limits: Fall

Results > Elemented Uncertainty everlaps Sects; Substractive

Terror and Conditions

- Analysis was conducted as the request of propriess for his own PEQS compliants.
- This report should be produced as a whole section in pure.
- The sample is retained for £1 days after the issuance date of report from the belonds:
- There is no Retention time for Microbiological terms complex. In case of sensing requirement from ellers, sample will be policinal again.



Kingsham Short Lad













Reference No. WILLCONDERS/GW/60-8.

Date: 6 January, 2003

Client Name

ZKB-RULAING (74)

Address

29(3)-Balladde Store Carry Meetin Soul Station

Semple Meetificades

Greend Trape

Sample Location

Carry Site

Sample Collected/Provided

WELCOS Hagrometrics

Sample Received Date

31 December, 2022 Analysis Start Bare

31 (Asserbox 2022)

Analysis Completion Bure

6.laruey, 2022 Graft/Companier

Chatte

Environmental Conditions

Temperature

27 t ± 1%

Huestaley: - 20%, 85%

Adultak Paremeters

Sep.	Parameters	Char.	PEQE	Arek	That Mathed Cond	Beneric
1.	pH ill (Timp. 34.1C)	100	4141	(141	APPEA STUBLE IS	Pain
1	104	fige.	7 1900	462	APRIL 2381 C	Pele
1.	Odor	-	Non-Objectionable	Non-Olymbracky	Servey Maked	Pare
4	Tirete	3	Non- Objectivashte	Objectionable	Sensory Method	fail
Ł	Color	-	Non- Unjectionality	Objectionable	Brevery Nethon	tid:
ń.	Otterde	(mg/l	<.230	24:	ARIO KNO CVIII	Paix
W.	Phenolis Compounds to phenolis	mpt	100	нис	APRIA-558-CW-D 18EPA method 40x3	Pao
٧.	Hierbon.	mail	< 300	280	APPRAISE C	7lan
4.	Turbidity	HOTE	-15		APRATUR 8	Full
TR.	Floretdo	right	11.0	10.14	APPLICATION TO	Part .
16	Nileeu (NO ₃)	mgil	-516	BOK.	APSÍA CHET DO-B	Plant
12.	Harte (HOs):	mgit	13	20%	APIA ISSUES, B	Part
H	Cyande (CN)	fign	1986	806	APRIL 4500 Ch 11 & E	Fee
44.	Cadelate	(mg/l)	0.01	HOL.	APPO-TITE	Paris
11.	Mangament	mg/l	196.7	MOL.	APRAZULE:	Past -
18.	Eine .	mgil		9.19	APRIA 311118	Past
11.	Arumu	Hgli	1886	81805	APRA 3716.00	Post
it.	Copper	Pages	2	HOL	APRIL TOTAL	- Alexandra











M.F	Personne	Shirts	PEQS	N-M	You Method I red	Benedic
19.	Lond	mg/l	1886	HOL	ARIB 3113-8	Phis
29.	Plicited	fight	1940	315.	APWA: SLUG-B	Pinn
21.	Alaminum	regit	192	906	42914.1111-0	Paic
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Annexure D: SAHIWAL Lot-01 HSE CHECK LIST

Lot-01

The PMCSC has developed and completed the following Environmental Monitoring Checklist for assessing the effectiveness of ESMP implementation at the project sites during the reporting period.

SO P.	Monitoring Parameters f	toring Parameters for Safe System of Work		Compliance Status			
No	Monitoring Farameters	or date dystem of Work	Yes/No	Yes	N o	Remarks	
		Steel Toe Shoes			V		
		Helmets		V			
		Coveralls/ Uniforms					
		Gloves		V			
1	PERSONAL PROTECTIVE EQUIPMENT'S	Jacket		V			
		Goggles			1		
		Face Shields			1		
		Ear Muffs Face Masks		V	√		
				V	ما		
2	FIRST AID EQUIPMENT	Disposable PPEs		V	1		
	FINST AID EQUIPMENT	Diversion Sign Boards					
				V			
		Removal of Waste Material		1			
_	ROAD SAFETY & TRAFFIC	Fencing Mayorant of Heavy		V	- 1		
3	MANAGEMENT	Movement of Heavy Equipment at Night			√		
		Speed Limits		V			
		Lightening		V			
		Drinking Water		V			
		Changing Room			√		
4	WORKERS WELFARE	Smoking Area			√		
,	WORKERS WEEL ARE	Insurance of Workers		,	√		
		First Aid Facility		V			
		Toilets Available on Site		V			
		Fire Alarm			V	Not provided	
		Fire Buckets/ Fire Extinguisher		V			
		Training		V		Conducted on site.	
5	FIRE FIGHTING EQUIPMENT	Fire Fighting System at Camp Office		1			
	EQUIPMENT						
			Emergenc y Drills		√	Will be conducted upon provision of fire/Emergency alarm.	
6	TRAINING REQUIREMENTS	Training Records		V		Tool box talk's attendance is available at site office. Attendance sheet and RFI for training of staff and labor is available.	

SO P.	Monitoring Parameters 1	or Safa System of Work	Triggered		Con	npliance Status
No	Monitoring Farameters	or Sale System of Work	Yes/No	Yes	N o	Remarks
		Attendance of Workers		√		Available at site office.
7	GENERAL HOUSEKEEPING			√		Available at site office.
8	SOPS FOR ACCIDENTS			V		SOP's of Govt. Of the Punjab Covid-19
9	SOPs FOR SKILLED AND UNSKILLED LABOUR	Child Labor		√		Strictly Prohibited
		Safety Harness				
		Fixed Working Platform		V		
		Proper Access		V		
		Toe Boards on Platforms		V		
		Fencing Around Active Site		,	V	Work is not under confined space.
10	WORK AT HEIGHT	Training of Workers		√		Training conducted on site. Daily toolbox talk is being conducted at site.
	WORKATTILIOTT	Weather Conditions				No work carried under extreme Weather conditions.
		Signboards				
		Proper Supervision		V		On every daily visit, asking the site team to implement and Improve the safety measures at site.
		PPEs		V		PPEs are provided to the workers (safety harness, safety helmet , safety shoes)
		Communication		N/A		, ,
		Proper Access i.e. ladder		V		
		Emergency Response Plan		V		
		Proper Lighting		V		
		Sign Boards		√		
11	PITS & EXCAVATION	Falling Objects Near Excavation		√ √		Excavated material is kept at least 2 feet away from trench side to avoid falling of material inside the trench.
		Noise & Dust		V		Dust is being controlled by sprinkling water while noise is under permissible limits.

Quarterly Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

SO P. No	YARD Monitoring Parameters	Wear Suitable PPEs Working Place Must be Dry		√ √			
P.		Working Place Must be Dry		2			
P.	Monitoring Parameters			V			
	Monitoring Parameters						
No		for Safa System of Work	Triggered		Con	npliance Status	
	monitoring rarameters	ior Sale System of Work	Yes/No	Yes	Yes N Remarks		
		Check Overhead Electric		V			
		Power Lines					
		Area Must be Barricaded		√			
		Wind Speed & Direction		V			
		Overhead Lines		V			
		Safe Working Load		V			
		Sign Boards		√,			
		Driver License		V			
13	LIFTING ERECTION	PPEs		V			
-							
		Stored in Proper Shade/ Dry Place		V			
		Store Kept Clean/ Not Use for Other Activity		V			
		Proper Ventilation		V			
		PPEs	V				
	CHEMICAL HANDLING	First Aid Facility		V			
14	&STORAGE	Fire Extinguisher		V			
	ASTONAGE	Warning Signs		V			
		Well Trained &Licensed Driver		V			
		Warning Light		V			
15	HEAVY EQUIPMENT	Area Must be Barricaded		V			
10	TIEAVI EQUI MENT	Correctly Positioned &					
		Installed		,			
		Noise Monitoring		1			
		PPEs Fire Extinguisher		ν 1			
		Fire Extinguisher		√ √			
		Cylinder Stored in Enclosed Room		V			
16	WELDING EQUIPMENT &	Warning Signs		√			
10	OXYGEN CYLINDERS	vvairing Oigns		٧		Welding is being	
		Proper Ventilation				done under open sky.	
17	REPORTING OF	Emergency Response		V		,	
17	ACCIDENT	Plan					
	CONSTRUCTION	Total no. of Incident		N/A	-		
18	ACTIVITIES NEAR HIGH VOLTAGE LINES	Incident Investigation Reports		N/A	-		
	General Observations	Satisfactor	ry HSE Arranç	gement	s		

Quarterly Environmental Monitoring Report No.6 Punjab Intermediate Cities Improvement Investment Program

SO P.	Monitoring Parameters for Safe System of Wo		ork Triggered	Compliance Status			
No			Yes/No		N o	Remarks	
	Recommendations						
	Name: MUHAMMAD		tures:	3			

Lot-2 Sahiwal

The PMCSC has developed and completed the following Environmental Monitoring Checklist for assessing the effectiveness of ESMP implementation at the project sites during the reporting period.

				Compliance Status		
Sr. No.	Monitoring Parameters for Safe	System of Work	Triggere d Yes/No	Ye s	No	Remarks
		Steel Toe Shoes		V		Safety shoes provided to steel workshop and, RCC Factory workers for pipes manufacturing.
		Helmets		√		Issued to all Staff and Site workers
		Coveralls/ Uniforms			V	Labor utilized on the project is on daily wedges. No permanent labor available. therefore, uniform cannot provide
1	PERSONAL PROTECTIVE EQUIPMENT'S	Gloves		V		Issued to RCC Factory , Steel Factory Workers and concrete pouring at site
		Visible Jacket		√		Issued to all Site Staff and workers
		Goggles		1		Issued to welders
		Face Shields		√		Issued to welders
		Ear Muffs		V		Available in stock, If noise level increased from 75 dB, the contractor will issue ear plugs to the labor
		Face Masks		√		Face Mask issued to all.
		Disposable PPE		√		Face Mask issued to all staff and workers, to protect from Covid-19
2	FIRST AID EQUIPMENT			√		Available at Site & Camp
		Diversion Sign Boards		√		Provided at 27" dia site
		Removal of Waste Material		V		On regular basis
		Fencing		V		Project camp fencing are provided around the sphere
		Movement of Heavy Equipment at Night			V	Currently working during day time only
		Speed Limits		$\sqrt{}$		Speed signboards are provided at site & Camp
		Lightening		V		Sufficient lights are provided in workshop and Factory area in CGICOP Camp & Site area.
3	WORKERS WELFARE					
		Drinking Water		V		Mineral Drinking water is provided to all staff and workers
		Changing Room		√		Using own residential facility

				Com	plianc	Status	
Sr. No.	Monitoring Parameters for Safe S	ystem of Work	Triggere d Yes/No	Ye s	No	Remarks	
		Smoking Area			V	Smoking area is not available	
		Insurance of Workers		V			
		First Aid Facility		V		First Aid facility provided in Camp and site	
		Toilets Available on Site		V		Sufficient Toilets are available in Camp for all	
		Fire Alarm		1		Provided at camp	
4	FIRE FIGHTING EQUIPMENT	Fire Buckets/ Fire Extinguisher		V		Fuel station, Generator room, workshop is provided with Fire Extinguishers and Fire Buckets	
		Training		√		Regularly organized at site.	
		Fire Fighting System at Camp Office		√		ABC Fire Extinguisher and Fire Bucket are provided	
		Emergency Drills			√	Will be conducted upon provision of fire/Emergency drill	
5	LIGHTING ALONG THE RIGHT OF WAY			V		Sufficient lighting is arranged at site	
6	TRAINING REQUIREMENT	Training Records		V		Tool box talk's attendance is a vailable at site office. Attendance sheet for training of staff and labor is available.	
		Attendance of Workers		V		Available at site office.	
7	GENERAL HOUSEKEEPING			√		Daily practice to keep the site clean	
8	EMERGENCY RESPONSE PLAN			V		Available at site office.	
9	SOPS FOR ACCIDENTS			V		Emergency response team is established (Copy attached) and all staff is advised to contact emergency response team member in case of any accident occurs at site.	
10	SOPs FOR SKILLED AND UNSKILLED LABOUR			V		SOPs- Government of Punjab Covid-19 are implemented	
		Child Labour		√		Strictly Prohibited	
		Safety Harness		√		Provided during deep excavation	
		Fixed Working Platform		1		Available at site	
11	WORK AT HEIGHT	Proper Access		√ √		Suitable ladders & access provided for working areas accordingly	

^		- .	Com	pliance	Status	
Sr. No.	Monitoring Parameters for Safe S	System of Work	Triggere d Yes/No	Ye s	No	Remarks
		Toe Boards on Platforms		√		Scaffolding not yet started.
		Fencing Around Active Site		√ √		Fencing provided around the camp site
		Training of Workers		V		Professional in-house Trainings are scheduled on each month regularly. Records are enclosed herewith. Daily toolbox meeting is being conducted at site.
		Weather Conditions				No work is allowed under extreme weather conditions.
		Signboards		V		Signboards are Provided at steel workshop and, RCC Factory workers for pipes manufacturing at all sites.
		Proper Supervision		V		Management instructed Site team to implement and improve the safety measures at site.
		Training			√	Drilling not yet started, we will arrange the training as required
12	DRILLING OPERATION	PPEs Communication			√ √	N/A N/A
		Proper Access i.e., ladder			√ √	N/A
		Covering of bore holes Cordon off with			V	N/A
		steel sheets Emergency			√	N/A
		Response Plan			√	N/A
		Proper Lighting		V		N/A
		Sign Boards		1		N/A
		Proper Access Underground Facilities		√		N/A N/A
13	PITS & EXCAVATION	Falling Objects Near Excavation		V		Hard barricading installed near deep excavation
		Noise & Dust		V		monitored by 3 rd party attached reports October, 2022
		Excavated Material				Excavation started; Material will be stacked at nearest stock pile.
		Use Proper Insulated Wires		V		implemented
14	ELECTRICS ON SITE & YARD	Wear Suitable PPEs		V		Provided suitable PPEs
		Working Place Must be Dry		V		Dry working area provided

C				Compliance Status		
Sr. No.	Monitoring Parameters for Safe	System of Work	Triggere d Yes/No	Ye s	No	Remarks
		Check Overhead Electric Power Lines		√ 		Site Engineers and Safety Officer instructed to Check Overhead Power line prior to any excavation task.
		Area Must be Barricaded		√ √		All safety measures are brought into force in camp, whenever lifting Operation started. Site Engineers and
15	LIFTING ERECTION	Wind Speed & Direction				Safety Officer instructed to ensure checking of wind direction
.5		Overhead Lines		V		Site Engineers and Safety Officer instructed to ensure checking of overhead lines
		Safe Working Load		V		Crane are certified from 3 rd party inspection
		Sign Boards		V		Signboards are provided during lifting
		Driver License		V		Drivers having valid driving license
	CHEMICAL HANDLING & STORAGE	PPEs		V		PPEs are provided
		Stored in Proper Shade/ Dry Place		V		All Chemical are stored in Proper Shaded/ Dry Place
		Store Kept Clean/ Not Use for Other Activity		V		Store Kept Clean/ Not Use for Other Activity
16		Proper Ventilation		1		Proper Ventilation provided
		PPEs		V		Adequate PPEs are provided
		First Aid Facility		V		First Aid Facility provided Site & Camp
		Fire Extinguisher		V		Fire Extinguisher available
		Warning Signs		V		Warning Signs installed
	HEAVY EQUIPMENT					Only material delivery vehicles inside the confined working space.
		Well Trained & Licensed Driver Warning Light		V		Well Trained & Licensed Driver deployed Warning Light are fixed
17		Area Must be Barricaded		V		Barricaded are provided during lifting
		Correctly Positioned & Installed		V		Crane and all lifting equipment are Correctly Positioned & Installed
		Noise Monitoring		1		Noise Monitoring by 3 rd party
		PPEs		V		PPEs provided to workforce
18	WELDING EQUIPMENT & OXYGEN CYLINDERS	Fire Extinguisher		√		Fire Extinguisher are provided in workshops

			Triggere	Compliance Status			
Sr. No.	Monitoring Parameters for S	eters for Safe System of Work		Ye s	No	Remarks	
		Cylinder Stored in		1		Cylinder Stored and	
		Enclosed Room				Enclosed in Room	
		Warning Signs		√		Warning Signs posted	
		Proper Ventilation				Welding is being done under open sky.	
19	REPORTING OF ACCIDENT	Emergency Response Plan		√		Emergency Response Plan available at camp site	
20	CONSTRUCTION ACTIVITIE NEAR HIGH VOLTAGE LINE					NIL NIL	
	General Observations Satisfactory HSE Arrangements					THE	
	Recommendations						
	Name: MUHAMMAD ASAD JAVAID Signatures:						
	HSE EXPERT NESPAK SAHIWAL						

Lot 3 sahiwal

			Triggere d Yes/No	Compliance Status		
Sr. No.				Ye s	No	Remarks
	PERSONAL PROTECTIVE EQUIPMENT'S					
1		Steel Toe Shoes		V		Safety shoes provided to steel workshop and, RCC Factory workers for pipes manufacturing.
		Helmets		√		Issued to all Staff and Site workers
		Coveralls/ Uniforms			√	Labor utilized on the project is on daily wedges. No permanent labor available. therefore, uniform cannot provide
		Gloves		V		Issued to RCC Factory and Steel Factory workers
		Visible Jacket		√		Issued to all Site Staff and workers
		Goggles		√		Issued to welders
		Face Shields				Issued to welders

Cu.				Compliance Status		
Sr. No.	Monitoring Parameters for Safe S	System of Work	Triggere d Yes/No	Ye s	No	Remarks
		Ear Muffs		√		Available in stock, If noise level increased from 75 dB, the contractor will issue ear plugs to the labor
		Face Masks		√		Face Mask issued to all.
2	FIRST AID EQUIPMENT	Disposable PPE		√ √		Face Mask issued to all staff and workers, to protect from Covid-19 Available at Site & Camp
	TINGT AID EQUIPMENT	Diversion Sign Boards		1		Provided at 72" dia
		Removal of Waste Material		√		On regular basis
		Fencing		V		Project camp fencing are provided around the sphere
		Movement of Heavy Equipment at Night			V	Currently working during day time only
		Speed Limits		V		Speed signboards are provided at site & Camp
		Lightening		√		Sufficient lights are provided in workshop and Factory area in CGICOP Camp & Site Area.
		Drinking Water		√		Mineral Drinking water is provided to all staff and workers
3	WORKERS WELFARE	Changing Room		√		Using own residential facility
		Smoking Area Insurance of		√		Smoking area is available in each area
		Workers		√		First Aid facility provided
		First Aid Facility Toilets Available		1		in Camp and site Sufficient Toilets are
		on Site		√		available in Camp for all
4	FIRE FIGHTING EQUIPMENT	Fire Alarm Fire Buckets/ Fire Extinguisher		√ V	V	Not provided Fuel station, Generator room, workshop is provided with Fire Extinguishers and Fire Buckets
		Training		V		Regularly organized at site.
		Fire Fighting System at Camp Office		V		ABC Fire Extinguisher and Fire Bucket are provided
		Emergency Drills			V	
5	LIGHTING ALONG THE RIGHT OF WAY			√		Sufficient lighting is arranged at site

			Compliance Status			
Sr. No.	Monitoring Parameters for Safe S	ystem of Work	Triggere d Yes/No	Ye s	No	Remarks
6	TRAINING REQUIREMENT	Training Records		√		Tool box talk's attendance is a vailable at site office. Attendance sheet for training of staff and labor is available.
		Attendance of Workers		V		Available at site office.
7	GENERAL HOUSEKEEPING	Tronkolo		√		Daily practice to keep the site clean
8	EMERGENCY RESPONSE PLAN			√ √		Available at site office.
				V		
9	SOPS FOR ACCIDENTS					
10	SOPs FOR SKILLED AND UNSKILLED LABOUR			V		SOPs- Government of Punjab Covid-19 are implemented
		Child Labour		1		Strictly Prohibited
		Safety Harness		√		Provided during deep excavation
		Fixed Working Platform		√		Available at site
		Proper Access		V		Suitable ladders & access provided for working areas accordingly
		Toe Boards on Platforms		V		Scaffolding not yet started
		Fencing Around Active Site		V		Fencing provided around the camp site
11	WORK AT HEIGHT	Training of Workers		√		Professional in-house Trainings are scheduled on each month regularly. Records are enclosed herewith. Daily toolbox meeting is being conducted at site.
		Weather Conditions				No work is allowed under extreme weather conditions.
		Signboards		V		Signboards are provided, when and where it required
		Proper Supervision		V		Management instructed Site team to implement and improve the safety measures at site.
12	DRILLING OPERATION	Training			√	Drilling not yet started, we will arrange the training as required
		PPEs			V	N/A

				Compliance		Status	
Sr. No.	Monitoring Parameters for Safe	System of Work	Triggere d Yes/No	Ye	No	Remarks	
		Communication		3	V	N/A	
		Proper Access			· ·	IN/A	
		i.e., ladder				N/A	
		Covering of bore					
		holes			V	N/A	
		Cordon off with				A1/A	
		steel sheets			-V	N/A	
		Emergency Response Plan			√	N/A	
						Proper lighting are	
		Proper Lighting		٧		installed at excavation trench	
		Sign Boards		1		N/A	
13		Proper Access		٧	1	N/A N/A	
	PITS & EXCAVATION	Underground Facilities				IN/A	
		Falling Objects Near Excavation		V		Hard barricading installed near deep excavation	
		Noise & Dust		V		monitored by 3 rd party attached reports October, 2022	
		Excavated Material		V		Excavation soil Material are stacking at nearest stock pile.	
		Use Proper Insulated Wires		V		implemented	
		Wear Suitable PPEs		V		Provided suitable PPEs	
14	ELECTRICS ON SITE & YARD	Working Place Must be Dry		V		Dry working area provided	
		Check Overhead Electric Power Lines		V		Site Engineers and Safety Officer instructed to Check Overhead Power line prior to any excavation task.	
		A M I b .		√		All safety measures are	
		Area Must be Barricaded				brought into force in camp, whenever lifting operation started.	
15		Wind Speed & Direction		V		Site Engineers and Safety Officer instructed to ensure checking of wind direction	
	LIFTING ERECTION	Overhead Lines		V		Site Engineers and Safety Officer instructed to ensure checking of overhead lines	
		Safe Working Load		V		Crane are certified from 3 rd party inspection	
		Sign Boards		1		Signboards are provided during lifting	
		Driver License		√		Drivers having valid	
		PPEs	+	V	1	driving license PPEs are provided	

				Com	pliance	e Status
Sr. No.	Monitoring Parameters for S	Safe System of Work	Triggere d Yes/No	Ye s	No	Remarks
		Stored in Proper Shade/ Dry Place		V		All Chemical are stored in Proper Shaded/ Dry Place
	CHEMICAL HANDLING & STORAGE	Store Kept Clean/ Not Use for Other Activity		V		Store Kept Clean/ Not Use for Other Activity
16		Proper Ventilation		1		Proper Ventilation provided
		PPEs		1		Adequate PPEs are provided
		First Aid Facility		1		First Aid Facility provided Site & Camp
		Fire Extinguisher		1		Fire Extinguisher available
		Warning Signs		V		Warning Signs installed
						Only material delivery vehicles inside the confined working space.
		Well Trained & Licensed Driver		1		Well Trained & Licensed Driver deployed
		Warning Light		V		Warning Light are fixed
4-7	HEAVY EQUIPMENT	Area Must be		$\sqrt{}$		Barricaded are provided
17		Barricaded				during lifting
		Correctly Positioned &				Crane and all lifting equipment are Correctly
		Installed				Positioned & Installed
		Noise Monitoring		1		Noise Monitoring by 3 rd party
		PPEs		1		PPEs provided to workforce
		Fire Extinguisher		1		Fire Extinguisher are provided in workshops
18	WELDING EQUIPMENT &	Cylinder Stored in				Cylinder Stored and
	OXYGEN CYLINDERS	Enclosed Room Warning Signs		V		Enclosed in Room Warning Signs posted
				<u>'</u>		Welding is being done
		Proper Ventilation				under open sky.
19	REPORTING OF ACCIDENT	Emergency Response Plan		V		Emergency Response Plan available at camp site
	CONSTRUCTION ACTIVITIE	Total no. of				NIL
20	CONSTRUCTION ACTIVITIE NEAR HIGH VOLTAGE LINE			1		INIL
		Investigation Reports				NIL
	General Observations	Satisfactory HSE Arrange	ments		•	
	Recommendations					

0		Triggere d Yes/No	Compliance Status				
Sr. No.	Monitoring Parameters for Safe System of Work		Ye s	No	Remarks		
	Name: MUHAMMAD ASAD JAVAID Signatures:	13.00					
	HSE EXPERT NESPAK SAHIWAL						

Lot 4 sahiwal

C		Tricas	Compliance Status			
Sr. No.	Monitoring Parameters for Safe S	ystem of Work	Triggere d Yes/No	Ye s	No	Remarks
		Steel Toe Shoes		√		Safety shoes provided to steel workshop and, RCC Factory workers for pipes manufacturing.
		Helmets		√		Issued to all Staff and Site workers
1	PERSONAL PROTECTIVE EQUIPMENT'S	Coveralls/ Uniforms			V	Labor utilized on the project is on daily wedges. No permanent labor available. therefore, uniform cannot provide
		Gloves		V		Issued to RCC Factory , Steel Factory Workers and concrete pouring at site
		Visible Jacket		V		Issued to all Site Staff and workers
		Goggles		V		Issued to welders
		Face Shields		√		Issued to welders
		Ear Muffs		√		Available in stock, If noise level increased from 75 dB, the contractor will issue ear plugs to the labor
		Face Masks		V		Face Mask issued to all.
2	FIRST AID EQUIPMENT	Disposable PPE		√ √		Face Mask issued to all staff and workers, to protect from Covid-19 Available at Site & Camp
	Eggi HERI	Diversion Sign Boards		√ √		Provided at 72" dia site
		Removal of Waste Material		√		On regular basis
		Fencing		V		Project camp fencing are provided around the sphere
		Movement of Heavy Equipment at Night			√	Currently working during day time only
		Speed Limits		V		Speed signboards are provided at site & Camp
		Lightening		√		Sufficient lights are provided in workshop and Factory area in CGICOP Camp & Site area.
3	WORKERS WELFARE	Drinking Water		√		Mineral Drinking water is provided to all staff and workers
		Changing Room		V		Using own residential facility

		Punja	b Intermedia	ate Cit	ies Imp	provement Investment Progra
Sr. No.	Monitoring Parameters for Safe S	ystem of Work	Triggere d Yes/No	Ye s	No	e Status Remarks
		Smoking Area			V	Smoking area is not available
		Insurance of Workers		V	,	available
		First Aid Facility		V		First Aid facility provided in Camp and site
		Toilets Available on Site		V		Sufficient Toilets are available in Camp for all
		Fire Alarm		√		Provided at camp
4	FIRE FIGHTING EQUIPMENT	Fire Buckets/ Fire Extinguisher		V		Fuel station, Generator room, workshop is provided with Fire Extinguishers and Fire Buckets
		Training		√		Regularly organized at site.
		Fire Fighting System at Camp Office		V		ABC Fire Extinguisher and Fire Bucket are provided
		Emergency Drills			1	Will be conducted upon provision of fire/Emergency drill
5	LIGHTING ALONG THE RIGHT OF WAY			V		Sufficient lighting is arranged at site
6	TRAINING REQUIREMENT	Training Records		V		Tool box talk's attendance is available at site office. Attendance sheet for training of staff and labor is available.
		Attendance of Workers		√		Available at site office.
7	GENERAL HOUSEKEEPING			V		Daily practice to keep the site clean
8	EMERGENCY RESPONSE PLAN			√		Available at site office.
9	SOPS FOR ACCIDENTS			√		Emergency response team is established (Copy attached) and all staff is advised to contact emergency response team member in case of any accident occurs at site.
10	SOPs FOR SKILLED AND UNSKILLED LABOUR			√		SOPs- Government of Punjab Covid-19 are implemented
		Child Labour		1		Strictly Prohibited
		Safety Harness		√		Provided during deep excavation
	WORK AT HEIGHT	Fixed Working Platform		V		Available at site
11		Proper Access		√		Suitable ladders & access provided for working areas accordingly

C	2 333,31			Compliance Status		
Sr. No.	Monitoring Parameters for Safe S	ystem of Work	Triggere d Yes/No	Ye s	No	Remarks
		Toe Boards on Platforms		√		Scaffolding not yet started.
		Fencing Around Active Site		V		Fencing provided around the camp site
		Training of Workers		√		Professional in-house Trainings are scheduled on each month regularly. Records are enclosed herewith. Daily toolbox meeting is being conducted at site.
		Weather Conditions				No work is allowed under extreme weather conditions.
		Signboards		√		Signboards are Provided at steel workshop and, RCC Factory workers for pipes manufacturing at all sites.
		Proper Supervision		V		Management instructed Site team to implement and improve the safety measures at site.
		Training			√	Drilling not yet started, we will arrange the training as required
12	DRILLING OPERATION	PPEs			1	N/A
		Communication			√	N/A
		Proper Access i.e., ladder			√	N/A
		Covering of bore holes Cordon off with			√	N/A
		steel sheets			√	N/A
		Emergency Response Plan			√	N/A
		Proper Lighting		√ V		N/A
		Sign Boards		V		N/A
		Proper Access Underground Facilities		√		N/A N/A
13	PITS & EXCAVATION	Falling Objects Near Excavation		V		Hard barricading installed near deep excavation
		Noise & Dust		1		Planned to be monitored by 3 rd party in December, 2022
		Excavated Material				Excavation soil; Material are stacking at temporary dumping .
		Use Proper Insulated Wires		√		implemented
14	ELECTRICS ON SITE & YARD	Wear Suitable PPEs		V		Provided suitable PPEs
		Working Place Must be Dry		1		Dry working area provided

Quarterly Environmental Monitoring Report No.1

			mprov	ement	nitoring Report No.1 Investment Program
			Compliance Status		
Monitoring Parameters for Safe S	System of Work	d Yes/No	Ye s	No	Remarks
	Check Overhead Electric Power Lines		V		Site Engineers and Safety Officer instructed to Check Overhead Power line prior to any excavation task.
	Area Must be Barricaded		V		All safety measures are brought into force in camp, whenever lifting
LIFTING ERECTION	Wind Speed & Direction		√ √		Operation started. Site Engineers and Safety Officer instructed to ensure checking of wind direction
	Overhead Lines		1		Site Engineers and Safety Officer instructed to ensure checking of overhead lines
	Safe Working Load		1		Crane are certified from 3 rd party inspection
	Sign Boards		L.		Signboards are provided during lifting
	Driver License		<u> </u>		Drivers having valid driving license PPEs are provided
	PPES		V		PPEs are provided
CHEMICAL HANDLING &	Stored in Proper Shade/ Dry Place		√		All Chemical are stored in Proper Shaded/ Dry Place
	Store Kept Clean/ Not Use for Other Activity		√		Store Kept Clean/ Not Use for Other Activity
	Proper Ventilation		√ ,		Proper Ventilation provided
	PPEs		,		Adequate PPEs are provided
	First Aid Facility		V		First Aid Facility provided Site & Camp
	Fire Extinguisher		V		Fire Extinguisher available
	Warning Signs		V		Warning Signs installed
					Only material delivery vehicles inside the confined working space.
	Well Trained & Licensed Driver Warning Light		√ √		Well Trained & Licensed Driver deployed Warning Light are fixed
HEAVY EQUIPMENT	Area Must be		1		Barricaded are provided during lifting
HEAVT EQUIPMENT	Correctly Positioned & Installed		V		Crane and all lifting equipment are Correctly Positioned & Installed
	Noise Monitoring		V		Noise Monitoring by 3 rd party
	PPEs		√		PPEs provided to workforce
WELDING EQUIPMENT & OXYGEN CYLINDERS	Fire Extinguisher		V		Fire Extinguisher are provided in workshops
	LIFTING ERECTION CHEMICAL HANDLING & STORAGE HEAVY EQUIPMENT WELDING EQUIPMENT &	Monitoring Parameters for Safe System of Work Check Overhead Electric Power Lines	Monitoring Parameters for Safe System of Work Check Overhead Electric Power Lines	Monitoring Parameters for Safe System of Work Check Overhead Electric Power Lines	Monitoring Parameters for Safe System of Work Check Overhead Electric Power Lines V V

Quarterly Environmental Monitoring Report No.1

Punjab Intermediate Cities Improvement Investment Program

Compliance Status Sr. Triggere **Monitoring Parameters for Safe System of Work** Ye No. d Yes/No No Remarks s Cylinder Stored in $\sqrt{}$ Cylinder Stored and Enclosed Room Enclosed in Room Warning Signs $\sqrt{}$ Warning Signs posted Welding is being done **Proper Ventilation** under open sky. Total no of incidents 01 Accident is reported in this reporting period. Incident report is 19 REPORTING OF ACCIDENT submitted to ADB and also attached Annex-H Emergency Emergency Response Response Plan Plan available at camp $\sqrt{}$ site Total no. of NIL **CONSTRUCTION ACTIVITIES** Incident 20 **NEAR HIGH VOLTAGE LINES** Incident Investigation NIL Reports **General Observations** Satisfactory HSE Arrangements Recommendations Signatures: Name: MUHAMMAD ASAD JAVAID **HSE EXPERT NESPAK**

SAHIWAL

Annexure E: SIALKOT Lot-01, Lot-02, Lot-03, Lot-4 & WWTP HSE CHECKLIST

Sr. no	Description	C		nce Status (December 2022) – Lot 1-4						
01.110	Description		No	Comments						
	Camp Site									
1.	Copy of the Site specific EMP is provided at the camp site/contractors office?	1								
2.	The EMP instructions are understood?	1								
3.	An individual is nominated for implementation of EMP?	1								
4.	LPG cylinders are provided for cooking or heating purposes?	1		Only for cooking purpose at camp site						
5.	The safety precautions as per ILO convention no.62 are being followed?	1								
6.	Project activities are displayed at proper locations?	1								
7.	No Wood is being used as a fuel?	1								
8.	First Aid Kit is provided at camp and individual nominated for addressing emergency?	1								
9.	Campsite is fenced to prevent trespassing?	1								
10.	Environmental Monitoring Record is maintained?	1		Maintained for each quarter						
11.	Record of Grievances Log and registered the complaints from community are maintained?	1								
12.	Arrangement for proper storage and disposal for solid waste is planned?	1								
13.	Septic Tank and Soak Pits are designed for treatment of effluents?	1								
14.	Training to workers is being provided to effectively implement project specific EMP?	1								
15.	Child labor or forced labor is prohibited?	1								
16.	Community consultation has been carried out for project activities/concerns?	1								
17.	No Complaint filed regarding transmission of Communicable diseases (such as STI's and HIV/AIDS).	1								
	COVID-19									
18.	Not any person showed symptoms e.g. fever, High body temperature, coughing, difficulty in breathing, chest pain.		1	Mild Symptoms of Fever and Cough were recorded. After concerning the doctor, he said that it is seasonal.						
19.	Daily temperature is being checked?	1								
20.	No hand shake policy is observed?	1								
21.	Conduct awareness regarding protection from COVID?	1								

Sr. no	Description	,	omplia	nce Status (December 2022) – Lot 1-4				
31.110	Description		No	Comments				
22.	Disinfection of offices and machinery is ensured??	\						
23.	Facemask and sanitizers are available on site for working staff?	1						
24.	Everybody wearing facemask at the workplace?	1						
Health & Safety								
25.	Safety signs are properly displayed?	1						
26.	HSE plan and Emergency Response Procedures are implemented?	1						
27.	Project site is fenced to prevent trespassing?	✓		Fenced and maintained regularly, Pictures attached.				
28.	Place Barricading around excavation; and safety procedures should be followed?	1						
29.	Fire Alarm, Fire Buckets/ Fire Extinguisher are available on site.	1						
30.	Emergency Drills?	1						
31.	Movement of Heavy Vehicles at night?							
32.	Sign Boards are properly displayed?	✓		Yes, Pictures are attached in photo log Section.				
33.	PPE's (e.g. Steel Toe shoes, helmets, Gloves, Jackets etc.) are available for workers?	1						
	Physical Conditions							
	Ambient Air Quality	ı						
34.	Dust Generation during construction well managed and record exists??			So far dust generation in negligible in most of areas, water sprinkling is being carried out to reduce dust emissions.				
35.	Are dust emissions being regulated through sprinkling water on the routes being used?	<		Water browsers have been deployed for the purpose.				
36.	Water sprinkling record is available?	✓		Pictures attached in Good Environmental Practice Section.				
37.	Are vehicle speeds being monitored to avoid excessive dust emissions at dust prone areas?	1						
38.	Are vehicle properly tuned/maintained to reduce air emissions?	✓						
	Noise Control							
39.	Are noise levels remained within safe limits (<75dB)?	1						
40.	In case excessive noise levels are detected have	1						
41.	appropriate mitigation measures been taken? Is restriction on playing tape records and blowing pressure horns etc. is being observed?	1						
42.	No complaints were made due to noise and vibration?	1						

Sr. no	Description		omplia	nce Status (December 2022) – Lot 1-4
31.110	Description	Ye s	No	Comments
43.	Construction activities carried out in daylight to reduce the impact of noise?	1		
	Waste Generation and Hand	dling		
44.	Arrangement for proper storage and disposal for solid waste is planned?	1		
45.	Are the waste bins emptied regularly on the designated area?	1		
46.	Is food waste disposed on separate places?	1		
47.	Is any medical waste generated and handled properly?	1		
48.	Has any natural drainage been disturbed or altered?	1		
49.	Septic Tank and Soak Pits are designed for treatment of effluents?	1		
50.	Contractors properly dispose debris materials in barren land, preferably recycling, reuse process?	1		
51.	No impact on the means of livelihood of the community regarding waste management?	1		
	Fuel / Lubricant	I		
52.	Are the fuel tanks properly marked with their contents?	1		
53.	Are the fuels and oils handled in a safe manner, ensuring no leakage or spillage?	1		
54.	Fuel/oil storage areas are away from watercourses?	1		
55.	No Contamination of surface or ground water by oil spillage, solid waste dumping	1		
56.	Fuel/oil storage areas, at least 200m away from watercourses	1		
57.	No Any spillage of liquid waste occurred?	1		
58.	If spillage occurred, managed properly?	1		No spillage has occurred
	Traffic Management			
59.	Traffic Signs are Properly Displayed?	1		
60.	Is vehicle speed limit of 30 km/hr being followed?	1		
61.	Is the movement of all project vehicles and personnel been restricted to within the work areas?	1		
62.	Do all vehicles and equipment have muffles to reduce noise levels whilst working close to communities?	1		
63.	Movement of machinery restricted to designated routes?	1		
64.	Construction vehicles, machinery and equipment stated in designated places within Row?	✓		
	Biological Conditions			
	Flora			
65.	No Tree has cut/uprooted?	1		Until now work is in urban units without vegetation

Sr. no	Description		ompliar	nce Status (December 022) – Lot 1-4		
31.110	Description	Ye s	No	Comments		
66.	No trees and branches have been used as fuel wood?	1				
	Fauna					
67.	Are the drivers careful and watchful about wild and domestic animals?	1				
68.	Not any damage to animals occurred?	1				
	Encroachment Historical/ Cultural / Arc	haeolo	gical s	ites		
69.	No damage to the Archaeological /Religious/Cultural or Historical sites?	1				
	Socio-Economic					
70.	During construction have good management practices been adopted by avoiding disturbance to areas adjacent to work area?	1				
71.	Have the local communities been formally notified about methods for registering complaints?	1				
72.	Is un-necessary interference to adjoining private agriculture land avoided?	1				
73.	Are damages (if any) to private property repaired and/or compensated by the Contractor?	1				
74.	Are medaled roads properly maintained?	1				
	Damage to Services					
75.	No any damage reported to public services like electric, water, gas, sewer or telephone lines?		√	Complaints were filed by the local community about damage of electric wire gas pipeline, Water Supply and PTCL Wire and action was taken on priority bases.		
	Work Force					
76.	Are proper hygienic facilities being provided?	1				
77.	Are sufficient guards for security deployed?	1				
78.	PPE are provided to the workforce?	1				
79.	PPE are used by workforce?	1				
80.	Potable water is available to labor?	✓				
Recommendations:						

Sr. no	Description		Compliance Status (December 2022) – Lot 1-4				
	Besonption		Ye s	No	Comments		
					.55		
	Name: M.Umer Umair	Signatu	res:		+		

Monthly Monitoring Checklist for WWTP

Sr. no	Description		Compliance Status (December 20		
51.110	Description	Yes	No	Comments	
	Camp Site				
81.	Copy of the Site specific EMP is provided at the camp site/contractors office?	1			
82.	The EMP instructions are understood?	1			
83.	An individual is nominated for implementation of EMP?	1			
84.	LPG cylinders are provided for cooking or heating purposes?	1		Only for lab testing purpose	
85.	The safety precautions as per ILO convention no.62 are being followed?	1			
86.	Project activities are displayed at proper locations?	1			
87.	No Wood is being used as a fuel?	1			
88.	First Aid Kit is provided at camp and individual nominated for addressing emergency?	1			
89.	Campsite is fenced to prevent trespassing?	1		Pictures are attached in photo log section – the work is in progress	
90.	Environmental Monitoring Record is maintained?	1			
91.	Record of Grievances Log and registered the complaints from community are maintained?	1			
92.	Arrangement for proper storage and disposal for solid waste is planned?	1		Waste characterization and mitigation record is attached	
93.	Training to workers is being provided to effectively implement project specific EMP?	1			
94.	Child labor or forced labor is prohibited?	1			
95.	Community consultation has been carried out for project activities/concerns?	1			
96.	No Complaint filed regarding transmission of Communicable diseases (such as STI's and HIV/AIDS).	1			
	COVID-19				
97.	Not any person showed symptoms e.g. fever, High body temperature, coughing, difficulty in breathing, chest pain.	1			
98.	Daily temperature is being checked?	1			

	Tanjao interintegiate Citie		OVCIIICII	t Investment Program		
Sr. no	Description		Compliance Status (December 2022)			
		Yes	No	Comments		
99.	No hand shake policy is observed?	1				
100.	Conduct awareness regarding protection from COVID?	1				
101.	Disinfection of offices and machinery is ensured??	1				
102.	Facemask and sanitizers are available on site for working staff?	1				
103.	Everybody wearing facemask at the workplace?	\				
	Health & Safety					
104.	Safety signs are properly displayed?	1		Pictures are attached in photo log section		
105.	HSE plan and Emergency Response Procedures are implemented?	1		photo log section		
106.	Project site is fenced to prevent trespassing?		\	Fence post installation is in progress. Pictures are attached in photo log section		
107.	Place Barricading around excavation; and safety procedures should be followed?	1				
108.	Fire Alarm, Fire Buckets/ Fire Extinguisher are available on site.	/				
109.	Emergency Drills?	\				
110.	Movement of Heavy Vehicles at night?		1			
111.	Sign Boards are properly displayed?	1		Pictures are attached in photo log section		
112.	PPE's (e.g. Steel Toe shoes, helmets, Gloves, Jackets etc) are available for workers?	1				
	Physical Conditions					
	Ambient Air Quality					
113.	Dust Generation during construction well managed and record exists??			So far dust generation in negligible in most of areas, water sprinkling is being carried out to reduce dust emissions.		
114.	Are dust emissions being regulated through sprinkling water on the routes being used?	1		Water bowsers have been deployed for the purpose.		
115.	Water sprinkling record is available?	1				
116.	Are vehicle speeds being monitored to avoid excessive dust emissions at dust prone areas?	1				
117.	Are vehicle properly tuned/maintained to reduce air emissions?	1		Weekly inspection of machinery is carried out for this purpose.		
	Noise Control					
118.	Are noise levels remained within safe limits (<75dB)?	1				
119.	In case excessive noise levels are detected have appropriate mitigation measures been taken?	1				
120.	Is restriction on playing tape records and blowing pressure horns etc. is being observed?	1				
121.	No complaints were made due to noise and vibration?	1				

	Punjab Intermediate Citic		OVCIIICI	it mivestment i rogram
Sr. no	Description		nplianc	e Status (December 2022)
	-	Yes	No	Comments
122.	Construction activities carried out in daylight to reduce the impact of noise?	1		
	Waste Generation and Hand	lling		
123.	Arrangement for proper storage and disposal for solid waste is planned?	1		Waste Disposal Site is Demarcated
124.	Are the waste bins emptied regularly on the designated area?	1		
125.	Is food waste disposed on separate places?	1		
126.	Is any medical waste generated and handled properly?			No medical waste generated
127.	Has any natural drainage been disturbed or altered?		1	
128.	Septic Tank and Soak Pits are designed for treatment of effluents?	✓		
129.	Contractors properly dispose debris materials in barren land, preferably recycling, reuse process?	1		
130.	No impact on the means of livelihood of the community regarding waste management?			
	Fuel / Lubricant			
131.	Are the fuel tanks properly marked with their contents?			No fuel tanks are being used because of direct filling from filling station
132.	Are the fuels and oils handled in a safe manner, ensuring no leakage or spillage?	1		
133.	Fuel/oil storage areas are away from watercourses?			N/A
134.	No Contamination of surface or ground water by oil spillage, solid waste dumping	✓		
135.	Fuel/oil storage areas, at least 200m away from watercourses			N/A
136.	No Any spillage of liquid waste occurred?	1		
137.	If spillage occurred, managed properly?			No spillage has occurred
	Traffic Management			
138.	Traffic Signs are Properly Displayed?	1		Pictures are attached in photo log section
139.	Is vehicle speed limit of 30 km/hr being followed?	1		
140.	Is the movement of all project vehicles and personnel been restricted to within the work areas?	1		
141.	Do all vehicles and equipment have muffles to reduce noise levels whilst working close to communities?	1		
142.	Movement of machinery restricted to designated routes?	1		
143.	Construction vehicles, machinery and equipment stated in designated places within Row?	1		
	Biological Conditions Flora			
144.	Tree has cut/uprooted?	1		
144.	No trees and branches have been used as fuel wood?	1		
	Fauna			
146.	Are the drivers careful and watchful about wild and domestic animals?	1		

Sr. no	Description		Compliance Status (December 2022)			
51.110	Description	Yes	No	Comments		
147.	Any damage to animals occurred?		1			
	Encroachment Historical/ Cultural / Arc	haeolog	gical site	es ·		
148.	No damage to the Archaeological /Religious/Cultural or Historical sites?	1				
	Socio-Economic					
149.	During construction have good management practices been adopted by avoiding disturbance to areas adjacent to work area?	1		Pictures are attached in photo log section		
150.	Have the local communities been formally notified about methods for registering complaints?	1				
151.	Is un-necessary interference to adjoining private agriculture land avoided?	1				
152.	Are damages (if any) to private property repaired and/or compensated by the Contractor?	1				
153.	Are medaled roads properly maintained?	1				
	Work Force					
154.	Are proper hygienic facilities being provided?	1				
155.	Are sufficient guards for security deployed?	1				
156.	PPE are provided to the workforce?	1				
157.	PPE are used by workforce?	1				
158.	Potable water is available to labor?	√				
Recomr	nendations: All other things are O.K.					
	Name: Qurban Ali	Signa	itures:	(Dian		

Annexure F: PLGA- HSE CHECKLIST





Check List for HSE Compliance

Date: 29.06.2022

Construction Manager: Muhammad Hanif Khokar

Location: Lahore

Name of Project: Punjab Local Government Academy

SOP	Monitoring Parameter for safe system	Triggered			Compliance Status
No.	of work	Yes/No	Yes No Remarks		
1	Personal Protective Equipment				
	Safety shoes		Yes		
	Helmets		Yes		
	Safety Jacket		Yes		
	Gloves		Yes		
	Goggles		Yes		
	Ear Plugs		Yes		
	Face Mask		Yes		
2	First Aid Equipment		Yes		Available at site
3	Road safety & Traffic management				
	Diversion sign boards		N/A		Work is under confined space
	Removal of waste material		Yes		
	Fencing		Yes		
	Movement of heavy vehicles at night		N/A		
	Speed limits		N/A		
	Lighting		Yes		During Night Works
4	Workers Welfare				
	Drinking water		Yes		
	Smoking area		Yes		Smoking is prohibited on-site or inside the containers.
	First aid facility		Yes		
	Toilets available on site		Yes		8 Nos. for Labour workers.
5	Fire Fighting Equipment				
	Fire Alarm		N/A		
	Fire buckets / extinguishers		Yes		
	Training		Yes		Pictures are attached
6	Lightening along the right of way		N/A		
7	Training Requirements		Yes		Training conducted by contractor safety officer, pictures are attached
8	Attendance of workers		Yes		Available at site office.
9	General house keeping		Yes		Garbage Cans for Disposal installed at different location
10	Emergency response Plan		Yes		

11	Training for skilled and unskilled labour	Yes	
	Child labour	Yes	Child Labour is Prohibited.
12	Work at Height	Yes	Clind Edsod to Floringhod.
	Safety harness	Yes	
	Fixed working platform	Yes	
	Proper access	N/A	
	Toe boards along platforms	N/A	
	Fencing around work site	Yes	Work is under confined space.
	Training of workers	Yes	Toolbox talk is being conducted at site.
	Weather conditions	Yes	No work carried under extreme weather conditions.
	Sign boards	Yes	Pictures are attached
	Proper supervision	Yes	On every daily visits, asking the site team to implement and improve the safety measures at site.
13	Drilling Operation		Not yet started at site
	Training	Yes	
	PPEs	Yes	
	Communication	Yes	
	Proper access	Yes	
	Covering of bore holes	Yes	
	Cordon off with steel sheets	Yes	
14	Pits and excavation	N/A	
	Proper lighting	Yes	
	Sign boards	Yes	
	Proper access	Yes	
	Underground facilities	N/A	
	Falling objects near excavation	N/A	
	Noise & dust	Yes	Dust is being controlled by sprinkling water while noise is under ermissible limits.
15	Electrics on site & yard		
	Use proper insulated wires	Yes	
	Use proper PPEs	Yes	
	Working place must be dry	Yes	
	Check overhead electric power lines	Yes	Shifted for smooth drilling operation.

Quarterly Environmental Monitoring Report No.1

		Intermediate Cities	s Improvement Investment Program
16	Lighting erecting		Lighting erecting are installed on site.
	Area must be barricaded	Yes	
	Wind speed and direction	Yes	
	Overhead lines	Yes	
	Safe working load	Yes	
	Sign board	Yes	
	Driver's license	Yes	
	PPEs	Yes	
17	Chemical handling & storage		Anti-Termite liquid, Diesel, Water Proofing Chemical etc.
	Stored in proper shade/dry place	Yes	
	Store kept clean / not used for other activity	Yes	
	Proper ventilation	Yes	
	PPEs	Yes	
	First aid facility	Yes	
	Fire extinguishers	Yes	
	Warning signs	Yes	
18	Heavy equipment		Only material delivery vehicles inside the confined working space.
	Warning light	Yes	
	Area must be barricaded	Yes	
	Correctly positioned & installed	Yes	
	Noise monitoring	Yes	Test performed (Results attached)
	PPEs	Yes	
19	Welding equipment & oxygen cylinders		
	Cylinders stored in enclosed room	yes	
	Warning signs	Yes	
	Proper ventilation	N/A	
20	Reporting of accident		No accident occurred so far.
21	Construction activities near high voltage lines	N/A	
	Total no of incidents	N/A	
	Incident investigation reports	N/A	

Annexure G:	Environmental Training Record
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Sahiwal Lot-01, Lot-02, Lot-03 and Lot-04
ENVIRONMENT TRAINING RECORD SAHIWAL WATSAN LOT-1

Environmental Training Records Sahiwal

Lot -01

	TRAINING RECORD									
Sr. No	Type of Training	Trainer	Date	No. of Participants	Duration	Remarks				
1	Work at height	Aqib Javeed	10-11- 2022	4	15 min.	-				
2	Excavation, Sand bedding, pipe laying and backfilling	Ahtisham Asghar	22-11- 2022	4	30 min.	-				





Table 4.4 Environmental Training Lot -02&03

Sr.	Training Topic/Event	Trainer	Date Conducted	Number of Participants	Department/ Staff	Location
1	Safe Excavation	Zafar Butt (Contractor – HSE Manager)	05 Nov, 2022	6	Various departmental	Training room
2	Slipping, Tripping and Falling Hazards	Zafar Butt (Contractor – HSE Manager)	10 Nov, 2022	5	Various departmental	Training room
3	Safe Work Protection	Zafar Butt (Contractor – HSE Manager)	12 Nov, 2022	7	Various departmental	Training room
4	Climatic Change Safety	Zafar Butt (Contractor – HSE Manager)	18 Nov, 2022	7	Various departmental	Training room









Table 4.5 Environmental Training Lot -04

Sr.	Training Topic/Event	Trainer	Date Conducted	Number of Participants	Duration	Remarks
1	Fire and electrical safety	Muhammad Wasim	01/11/2022	10	20 minutes	
2	Site accident reporting and prevention	Muhammad Wasim	07/11/2022	11	20 minutes	
3	Slip trip and fall hazard	Muhammad Wasim	12/11/2022	10	20 minutes	
4	Proper stacking and storage techniques	Muhammad Wasim	14/11/2022	07	20 minutes	
5	Importance of PPEs	Muhammad Wasim	18/11/2022	10	20 minutes	
6	Chemical handling and storage	Muhammad Wasim	21/11/2022	11	20 minutes	
7	General HSE Awareness	Muhammad Wasim	28/11/2022	14	20 minutes	





HSE TRAININGS SESSIONS (Provided to Laborer before starting any risky works)





Punjab I



Environmental Training Sessions at Sialkot

Sr.	Training Topic/Event	Trainer	Date Conducted	Number of Participants
1	Chemical Handling Safety	Umer Umair (Contractor – EHS Manager)	07 th July 2022	07
2	Working in deep Trenches	Siddique Shahid (Contractor – EHS Manager)	16 th July 2022	09
3	Work at Height	Siddique Shahid (Contractor – EHSManager)	23 rd July 2022	06
4	Slip Trip and Fall safety	Umer Umair (Contractor – EHS Manager)	12 th August 2022	12
5	Working under confined spaces	Siddique Shahid (Contractor – EHSManager)	18 th August 2022	08
6	Use of PPEs	Umer Umair (Contractor – EHS Manager)	26 th August 2022	07
7	Fire safety	Siddique Shahid (Contractor – EHS Manager)	03 rd Sep 2022	10
8	Emergency Exit Training	Umer Umair (Contractor – EHS Manager)	17 th Sep 2022	11
9	First Aid	Umer Umair (Contractor – EHS Manager)	25 th Sep 2022	07
10	Use of Fire extinguisher	Umer Umair (Contractor – EHS Manager)	11 th Oct 2022	06
11	Moving objects and falling objects	Siddique Shahid (Contractor – EHS Manager)	26 th Oct 2022	08
12	Safer access to working place	Siddique Shahid (Contractor – EHS Manager)	14 th Nov 2022	08
13	Use of PPEs	Umer Umair (Contractor — EHS Manager)	19 th Nov 2022	07
14	Rules of First Aid	Liaqat Hussain (Contractor — EHS Manager)	02 nd Dec 2022	09
15	Work at Height	Siddique Shahid (Contractor – EHS Manager)	11 th Dec 2022	07
16	General Safety Rules And importance of PPEs	Umer Umair (Contractor – EHS Manager)	18 th Dec 2022	09

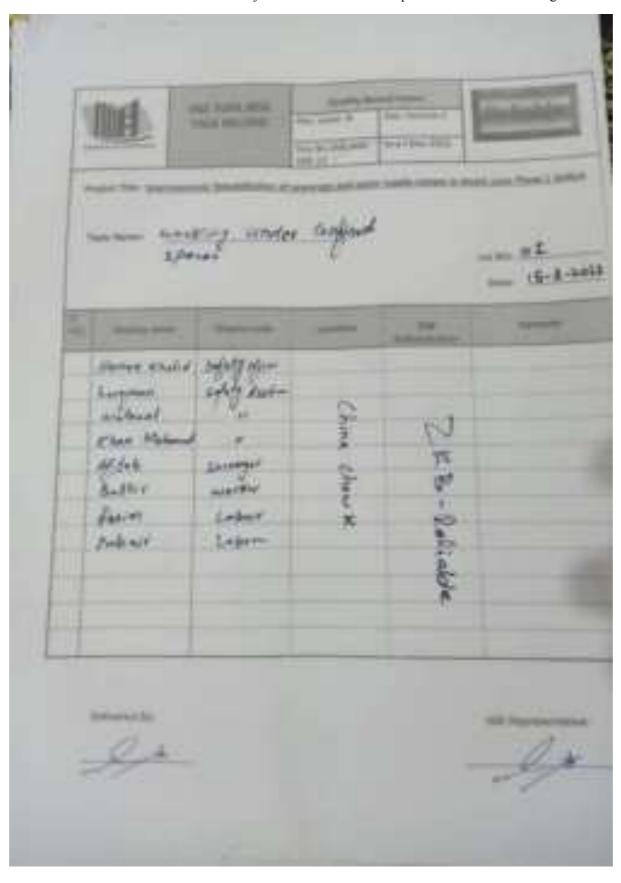
17 Fire Fighting Safety Liaqat Hussain (Contractor – 26th Dec 2022 08 EHSManager)

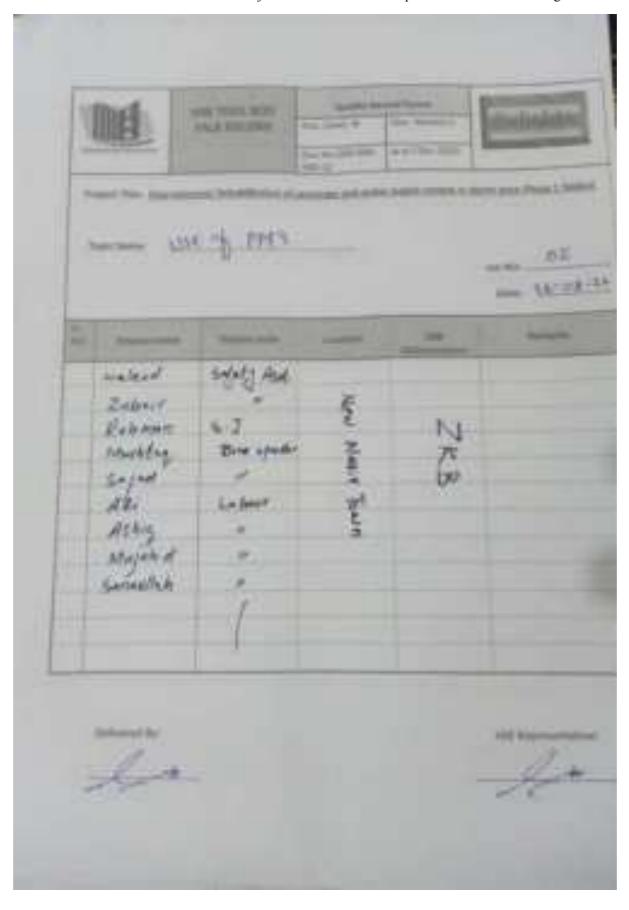






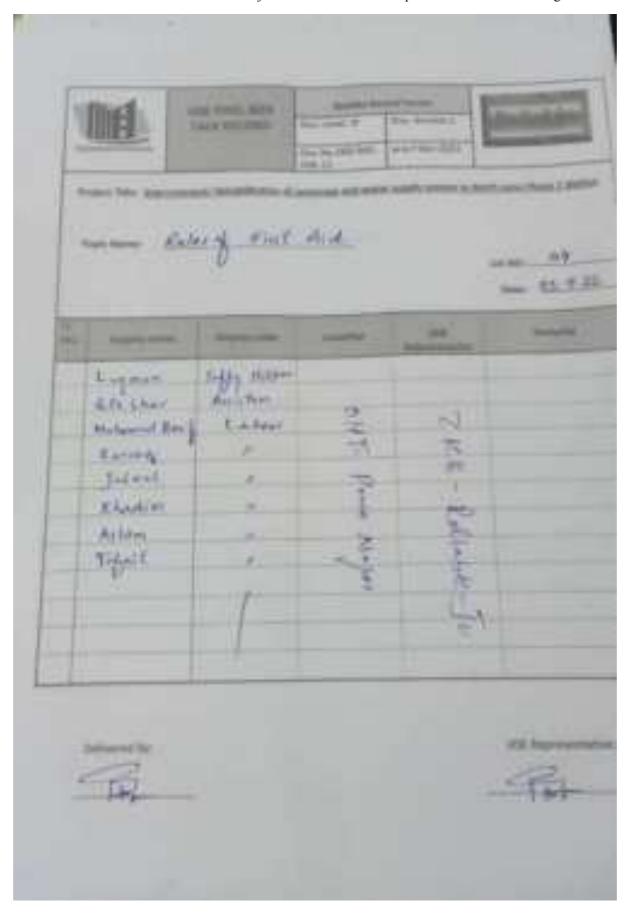






























PROJECT PHOTOGRAPHS

Lot 1,2,3 and 4 WASTAN Sahiwal





Sign board and Safety cones are placed on the Road for public awareness

Restoration PCC at Ghalla Mandi



MSDS being displayed at Laboratory



Flagman's are deployed at diversion route to the control traffic





Fire extinguisher , Mobile cranes , electrical dBs and welding plant are conducted monthly inspection

Different Sign board Placed on road for Public awareness





Informatory signages displayed properly_



Different Location of Environmental Monitoring at Lot#2, Lot#3.



Safety arrangements at 48 inch site



Safety arrangements at 48 inch site



One day training on SSEMP implementation



Training on proper usage of Fire extinguisher

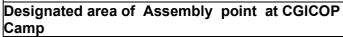




Different sign board (Traffic diversions, Caution Signboards) are displayed at Project area

Water sprinkling







Hard barricading installed near deep excavation trench at different project sites.



PPE's Compliance at sites





Safety sign board and Safety cones are placed First aid box available at all sites on Road for public awareness





Inauguration at Lot 4 Disposal station by Commissioner Sahiwal

SIALKOT PROJECTS PICS: Lot-01,Lot-02. Lot-03 & Lot-04 WATSAN Sialkot



Laying of Sewer



Manhole Construction in Progress



Asphalt Laying

Backfilling at Manhole





Conduit Laying



Forcemain Jointing

Conduit Laying



Forcemain Laying



OHR Roof Concreting



Laying of Water Supply Pipe



Workers Training at ZKB Camp and First Aid Kit

Safety Signs, Barriers and PPEs







Water Sprinkling



Safety Signs and Barriers and hard Barricade





Hard Barrication and Traffic Safety Signs

Speed limit Sign Boards and Diversion Sign boards for alternatives have been installed at working sites





NE SPak and PICIIP team site visits





Water Sprinkling to Overcome Dust problems is being done on Daily basis with two times a day







Bed Dressing, Grading & Compaction of Ponds



Boundary Wall Fence Post Curing & Self-Inspection



Site Work in Smooth Way



Boundary Wall Fence Post Installation in Progress



Committed Work with Complete PPEs



Smooth Site Work – Ensuring Safety First



Building Works in Progress



Machinery always at its Designated Area



Informatory Safety Sign Board of "Site Safety" on-site



Informatory Safety Sign Board of "Caution" on-site



Informatory Sign Board of "Emergency Numbers" on-site



Informatory Sign Board of "Batching Plant" near plant



Informatory Safety Sign Board of "Danger" on-site



Informatory Sign Board of "Batching plant" near plant



"Diversion" Sign Board towards Site Office



"Emergency Numbers" near office



Informatory Sign Board of "Danger" in FP-3



Informatory Safety Sign Board of "Site Safety"



Informatory Sign Board of "Social Distancing" in FP-2



Designated Assembly Area

Designated Assembly Area



Inspection of Fire Extinguishers



Fire Extinguisher's Compliance



Grader's Hydraulics – Physical Inspection



Ensuring Driver's License



Worker's Blood Pressure Monitoring - onsite



Worker's Body Temperature Testing using Temperature Gun



Worker's Blood Pressure Monitoring - onsite



Worker's Body Temperature Testing – A Rapid Test



Worker's Body Temperature Testing



Fencing Material



Worker's Body Temperature Testing



A Count towards "100 Days of Safe Work"



Checking Ambient Air Quality (Day-1)



Noise Level Checking in presence of Consultant's Representative



Environmental Monitoring in presence of Consultant's Repre



Noise Level Results



Ambient Air Quality Continuing for 24 Hours (Uninterrupted) – Day 2



Drinking Water Sample Taken



Ambient Air Quality Results



Icebox to Store Water Sample

Quarterly Environmental Monitoring Report No.1 Punjab Intermediate Cities Improvement Investment Program



Ensuring PPEs before Going to Work



TBT – Importance of Toolbox Talks



Toolbox Talk & Pre-Shift Meeting



Toolbox Talk – Be on Time

Quarterly Environmental Monitoring Report No.1 Punjab Intermediate Cities Improvement Investment Program



TBT – Personal Protective Equipment's



TBT – Anti-weather Resistance Approach



TBT – Awareness about Grader Movement



TBT – Careful Attitude in Foggy Weather

HSE Champion Program









PLGA Photographs



Site work progress



Marble Work progress



Use of barrication tape near edges at site



Site Ceiling work progress



Fummigation of Dengue spray on site



barrication sheet with hard railing and safety signboard



Proper Housekeping and barrication



use of PPES on site



use of PPEs on site



Safety signboard on entrance dated 25-09-2022



Proper housekeeping and stacking of folding pipes



Proper housekeeping and stacking of folding pipes



Hard railing and barrication on staircase



Tile work with use of PPes



Proper Housekeping on site



Bitumen Coating and Polythene Sheet at Roof



Fire Extinguisher on site



Use of PPEs at work



VRF system outdoor at roof top



PPEs Placed at site entrance for visitor and worker



Figure: B Barrication on elevators gate



Figure: C TBT on PLGA site



Figure: A use of PPES on site 16-12-2022



Figure: B PPes available on site entrance for visitors and workers



Figure: B PPEs available on site entrance for visitors and workers



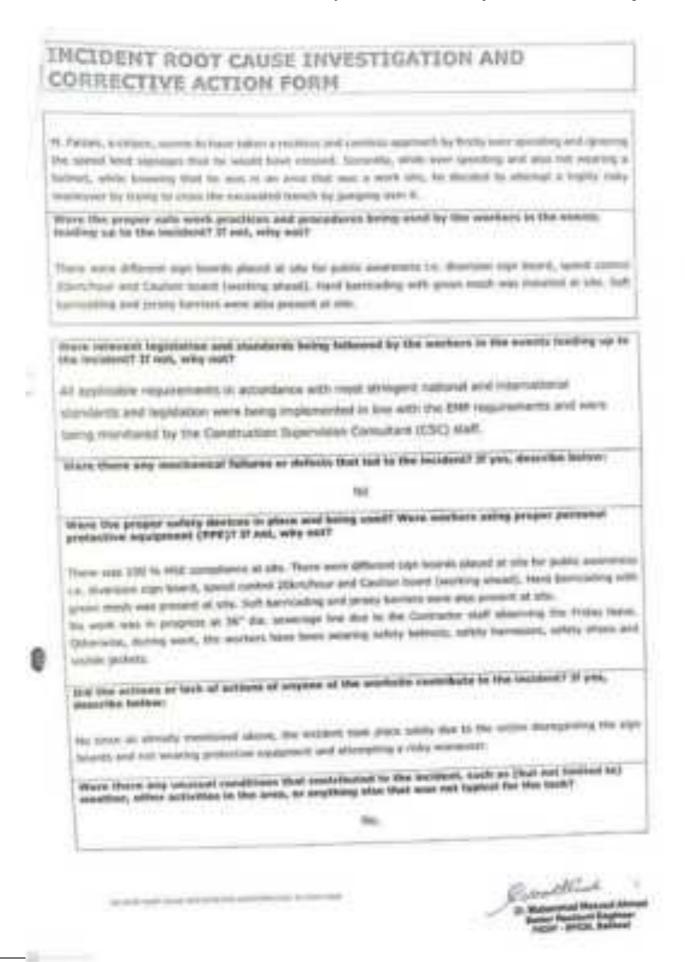
Use of PPEs during work

Annexure H: Incident Notification & Accident investigation Root Cause Analysis from - Sahiwal



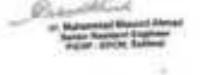












Quarterly Environmental Monitoring Report No.1 Punjab Intermediate Cities Improvement Investment Program







Annexure I: Corrective Action Plan for Sahiwal

Sr. No.	Issue	Com me nts / Obs erv atio ns	Action Required	Target Date	Implement ation Responsibi lity	Supervision Responsibilit y	Status
1	Trainings sessions	A standout session regarding safety is arranged in the first week January with contractor and		Everyday	OHS Manager and Health and Safety Team	Environmental specialist/HSE Expert	Impleme nted