Environmental Monitoring Report

Bi-Annual Environmental Monitoring Report (Sindh Provincial Road Improvement Project - SPRIP) (December 2019)

PAK: Sindh Provincial Road Improvement Project (SPRIP)

Prepared by Project Management Unit (PMU), Works and Services Department (WSD), Government of Sindh (GOS) for the Asian Development Bank.

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 US dollars.

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Bi-annual Environmental Monitoring Report

Project Number: 46377-002-PAK

July to December 2019

Pakistan: Sindh Provincial Road Improvement Project (SPRIP) Funded by the Asian Development Bank - ADB

Prepared by Environmental Specialist Project Management Consultants (PMC) Hyderabad, Pakistan

Endorsed by: Deputy Director (Construction & Quality Control), Sindh Provincial Road Improvement Project (SPRIP), Works & Services Department (WSD), Sindh January, 2020

TABLE OF CONTENTS

1.	INTRODUCTION	5
1.1	Preamble	5
1.2	Headline Information	5
2.	PROJECT DESCRIPTION AND CURRENT ACTIVITIES	6
2.1	Project Description	6
2.2	Project Contracts and Management	8
2.3	Project Activities during Current Reporting Period	10
2.4	Description of Any Changes to Project Design	14
3.	ENVIRONMENTAL SAFEGUARD ACTIVITIES	15
3.1	General Description of Environmental Safeguard Activities	15
3.2	Site Audits	15
3.3	Issues Tracking (Based on Non-Conformance Notices)	16
3.4	Trends	18
3.5	Unanticipated Environmental Impacts or Risks	18
4.	RESULTS OF ENVIRONMENTAL MONITORING	19
4.1	Overview of Monitoring Conducted during Current Period	19
4.1.1	Air Quality	19
4.1.2	Water Quality	25
4.1.3	Noise and Vibration	25
4.2	Trends	27
4.3	Material Resources Utilization	28
4.3.1	Current Period	28
4.4	Waste Management	29
4.4.1	Current Period	30
4.5	Flora and Fauna	30
4.6	Health and Safety	31
4.6.1	Community Health and Safety	31
4.6.2	Worker Safety and Health	31
4.7	Physical and Cultural Relics	31
4.8	Training	21

4.9	Tool Box Talk (TBT)	34
4.10	Consultations and Safeguard Unit (SU) Meeting	34
5. FU	INCTIONING OF THE SEMP	36
5.1	SEMP Review	36
6. GC	OOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT	37
6.1	Good Practice	37
6.2	Opportunities for Improvement	37
7. SL	JMMARY AND RECOMMENDATIONS	38
7.1	Summary	38
7.2	Recommendations	39
LIST OF	TABLES:	
Table 1:	Road Packages	8
Table 2:	Additional Road Package 07	8
Table 3:	Project Environmental Key Personnel	9
Table 4:	Contractor Packages Detail	9
Table 5:	Project Activities during Current Reporting Period	10
Table 6:	Site Audits with Significant Findings	15
Table 7:	Summary of Issues Tracking Activity for Current Period	17
Table 8:	Water Consumption during Current Period	28
Table 9:	General Waste Management Practice	29
Table 10:	Waste Generation and Management during Current Reporting Package 07, LOT 1, 2 & 3	
LIST OF	FIGURES:	
Figure 1 L	ocation Map of Package 01 – 06 (in red) & 07 (in blue)	7
Figure 2 L	ocation Map and Status of Package 01 - 06	12
Figure 3 L	ocation Map of Package 04 & 05, Extension	13
Figure 4 L	ocation Map of Package 07 (LOT 1, 2 & 3)	13
Figure 5: 8	Summary of Issues by Non-Conformance	17
Figure 6: 0	Comparison of Ambient Air Monitoring of Package 07, LOT 1	21
Figure 7: 0	Comparison of Ambient Air Monitoring of Package 07, LOT 2	22

Bi-annual Environmental Monitoring Report Sindh Provincial Road Improvement Project (SPRIP)

Figure 8: Compari	son of Ambient Air Monitoring of Package 07, LOT 3	24
Figure 9: Noise Le	evel Monitoring at LOT 1	26
Figure 10: Noise L	evel Monitoring at LOT 2	26
Figure 11: Noise L	evel Monitoring at LOT 3	27
LIST OF ANNEX	(URES:	
Annexure - I:	Corrective Action Plan & Compliance Status Report	42
Annexure - II:	Non-Conformance Notices	72
Annexure - III:	EMP Compliance Checklist	101
Annexure - IV:	Environmental Monitoring Results	111
Annexure - V:	External Training	174
Annexure - VI:	Toolbox Talk (TBT)	178
Annexure - VII:	Project Photos	188

ABBREVIATIONS

ADB Asian Development Bank

AIDS Acquired Immune Deficiency Syndrome

COC Conditions of Contract
CAA Corrective Actions Applied
CAP Corrective Action Plan

DB Decibel

DTL Deputy Team Leader

EMMP Environmental Management & Monitoring Plan

EMP Environmental Management Plan Environmental Protection Agency

ES Environment Specialist

ESU Environmental and Social Unit

GoP Government of the Pakistan

GOS Government of Sindh

GRC Grievance Redressal Committee

HIV Human Immunodeficiency Virus HSE Health Safety and Environment

IA Implementation Agency

IEE Initial Environmental Examination

LPG Liquefied Petroleum Gas

MCC Metallurgical Corporation of China Ltd

NEQS National Environmental Quality Standards

OHS Occupational Health & Safety
OVI Objectively Verifiable Indicators

PAM Project Administration Manual

PD Project Director

PEAS Professional Engineering Associates
PMC Project Management Consultants

PMU Project Management Unit

PPEs Personal Protective Equipment

Bi-annual Environmental Monitoring Report Sindh Provincial Road Improvement Project (SPRIP)

RAMS Restoration & up grading the established Road Asset Management System

RE Resident Engineer

REA Rapid Environmental Assessment

RoW Right of Way

SC Supervision Consultant

SP Sindh Province

SPS Safeguard Policy Statement

SEQS Sindh Environmental Quality Standards

SSEMP Site Specific Environmental Management Plan

STI Sexually Transmitted Infections

TA Technical Assistance

TL Team Leader

UJC Umer Jan and Co.

UMA Umar Munshi Associates

WSD Works and Services Department

YEC Yooshin Engineering Corporation

1. INTRODUCTION

1.1 Preamble

- 1. This report represents the Semi Annual Environmental Monitoring Review (SAEMR) for Sindh Provincial Road Improvement Project (SPRIP).
- 2. This report is the 6th EMR for the project and represents the project activities related to environmental monitoring for the period from July December 2019. This report fulfills the requirements to monitor the effectiveness of ADB safeguards policy, its implementation, and process as well as to ensure sound environmental planning. Potential environmental impacts are identified including indirect and cumulative impacts, and their significance assessed. The report also includes recommendations for the future course of action.

1.2 Headline Information

- 3. The contractors on all the packages (Package 01 to 07) carried out the tasks and actions described in their EMP successfully. A few of the issues related to PPEs, housekeeping, bifurcation and signage were identified on package 04, 05, 06 & 07 (LOT 1, 2 & 3) for which mutually agreed Corrective Action Plan (CAP) was practiced by the contractor. The corrective action plans along with Compliance Status Reports (CSR) are attached as **Annexure I** of this document.
- 4. No monitoring in this reporting period was done at Package 01 to 06 but due to lack of construction activity while pre construction and quarterly environmental monitoring have been done at Package 07. Moreover, Package 02, 04, 05 & 06 have not submitted relevant Site Restoration Plans in this reporting period for which the non-conformance notices and reminders were issued respectively.
- 5. The external training has been conducted successfully at Package 07 (LOT 1, 2 & 3) at the end of November 2019.
- 6. SSEMP of extension roads for Package 04 (1.2 Km & 5.2 Km) and Package 05 (3.2 Km) also prepared and submitted. The extension of Package 04 & 05 will be executed on the special request of Deputy Commissioner.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

- 7. Government of Sindh with the assistance of Asian Development Bank prepared the project for improvement of 328 Km (Package 01 to 06) and 80 Km of Package 07 (LOT 1, 2 & 3) of inter-district main roads connecting with National / Main Highways, under the Project named as Sindh Provincial Road Improvement Project (SPRIP).
- 8. ADB assigned the Feasibility Study to consultants M/s Engineering Consultants International (Pvt) Ltd; Karachi, under TA-8406-PAK. The T.A. Consultants finalized the feasibility study and shortlisted nine roads (initially six roads from package 01 to 06 and then later three more roads from Package 07) with a cumulative length of 408 Km (328 km +80 Km) with a uniform width of 7.3m. In addition to the Investment component, the project will also include some consultancy services and equipment for reform component such as:
 - i. Project Management Consultant,
 - ii. Restoration and upgrading the established Road Asset Management system (RAMS),
 - iii. Preparation of the Sindh Road Network Master Plan, and
 - iv. Institutional strengthening and training for Works and services Department WSD and provision of emergency response equipment for traffic police Department of Government of Sindh. Loan agreement of Loan No.3305-PAK signed on 30th August 2016.
- 9. The project is being administered by the Project Management Unit (PMU), Works and Services Department (WSD) Government of Sindh (GOS), which is represented by the Project Director, PMU has hired the Project Management Consultant (PMC), for design review and construction supervision of the civil works.
- 10. PMU after the required process with the consultation of ADB hired the Project Management Consultant consist of Engineering Consultants Firms i.e. Yooshin Engineering Corporation (Korea) in associates with Umar Munshi Associates (UMA) and Professional Engineering Associates (PEAS) for "Design Review" and "Project Management & Construction Supervision Consultant". The Consultancy Agreement between Project Management Consultants (PMC) and Project Management Unit (PMU) of Works and Services Department, Government of Sindh was made on 14th November 2016.
- 11. The roads (408 Km) in SPRIP are 3.65m, 5.5m and 7.3m wide traversing in 12 districts of Sindh i.e. Kashmore/Kandhkot, Sukkur, Dadu, Jacobabad, Shikarpur, Larkana, Tandu Allaha Yar, Tando Muhammad Khan, Badin, Mirpurkhas, Sanghar, and Matiari. The roads with width of 3.65m and 5.5m will be widened to 7.3m. The location map of packages has been given below.

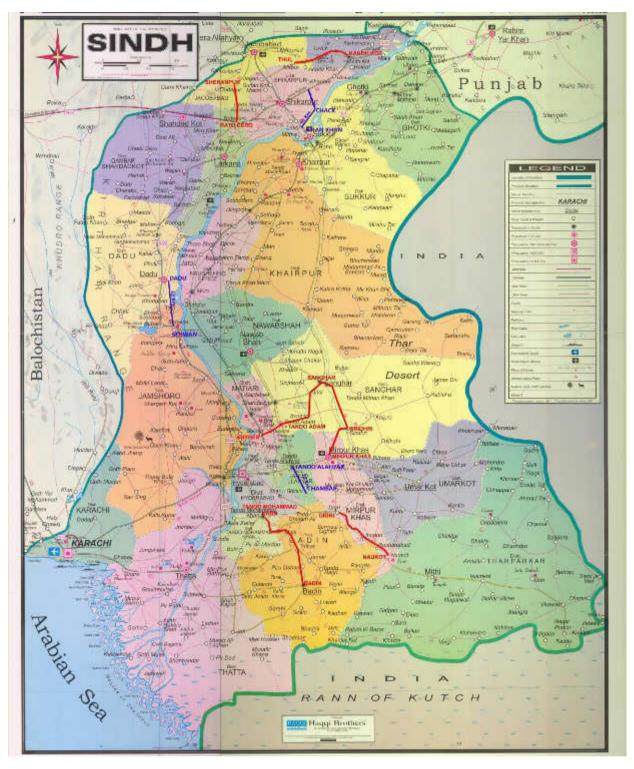


Figure 1 Location Map of Package 01 – 06 (in red) & 07 (in blue)

12. The Project roads have been divided into 6 road packages as table follows:

Table 1: Road Packages

Sr. No.	Description	No. of Package	Total Length (km)
1	Thull to Kandhkot Road	ICB-SPRIP-01	44.00
2	Sheranpur to Ratodero Road	ICB-SPRIP-02	36.00
3	Khyber to Sanghar Road	ICB-SPRIP-03	64.00
4	Sanghar to Mirpur Khas road	ICB-SPRIP-04	63.00
5	Tando Mohammad Khan to Badin	ICB-SPRIP-05	67.00
6	Digri to Naukot Road	ICB-SPRIP-06	54.00

- 13. Under the same ADB loan, the Government of Sindh (GOS) has proposed the rehabilitation/improvement of an additional 3 roads of 80 Km in package 07. The three roads in an additional package are given as under-:
- 1. LOT 1: Tando Allahyar to Chambar Road Section District Tando Allahyar
- 2. LOT 2: Sehwan to Dadu Road Section District Dadu
- 3. LOT 3: Jahan Khan to Faizu Laro via Chak-Rustam Road Section District Shikarpur

Table 2: Additional Road Package 07

S/No.	Description	Total Length (km)
1	Tando Allahyar to Chambar Road Section	19.00
2	Sehwan to Dadu Road Section	32.00
3	Jahan Khan to Faizu Laro via Chak – Rustam Road Section	29.10

2.2 Project Contracts and Management

- 14. The Works and Services (W&S) Department Govt. of Sindh was the implementation agency (IA) for roads and bridges rehabilitation component of SPRIP.
- 15. The Project Management Consultants (PMC) is responsible to ensure the implementation of the environmental management and monitoring requirements and procedures for SPRIP under the overall guidance of Initial Environmental Examination (IEE). The PMC's primary role is to provide services for design review and construction supervision of roads in Sindh province to be rehabilitation including Bridges & Culverts under SPRIP. PMC is responsible to serve as the "Engineer" within the context of the Conditions of Contract (COC) and is required to nominate Resident Engineer and other staff for the contract that is a full-time resident in the area or located in the proximity of project area.
- 16. Works & Services Department has established Environmental and Social Unit (ESU). The ESU was responsible for environmental and social review based on the selection criteria, preparation, submission, implementation and environmental management &

- monitoring and evaluation of the sub-projects. ADB has provided Environmental specialist in order to have technical support to ESU.
- 17. Project Management Consultants (PMC) has been engaged by IA in order to strengthen their procurement capacity, support and help monitor design and construction supervision services and support the preparation, implementation, monitoring and compliance of environmental safeguard action plans including consultation and social and gender analysis.
- 18. The Project Management Consultants (PMC) have established an office at Hyderabad and sub-offices at Mirpur Khas and Sukkur. Packages 01, 02 & Package 07 (LOT 2 & 3) construction sites are under Residence Engineer Sukkur II Sukkur, while Packages 03, 04, 05, 06 and Package 07's LOT 01 is under Residence Engineer III Tando Allaha Yar.
- 19. At all the construction sites (except Package 07), the contractors bare mobilized since January 2017. The Contractors for Package 07 (LOT 1, 2 & 3) has been mobilized since the end of July 2019. The Contractors at each site have hired Environmentalists, who worked with the help of Contractors` support staff (Site Engineers, Inspectors, etc.).

Table 3: Project Environmental Key Personnel

S/No	Name	Designation	Package	Telephone No
1	Aziz ul Haque Siddiqui	Deputy Director- PMU	01 to 07 (LOT 1,2 & 3)	0333 2706007
2	Sameen Khokhar	Environment Specialist- PMC	01 to 07 (LOT 1,2 & 3)	0301 4750500
3	Ashfaq Ahmad	Assistant Engineer – PMU	03, 05 & 07 (LOT 01)	0333 2656030
4	Amjad Qureshi	Assistant Engineer – PMU	04, 05 & 07 (LOT 02)	0334 2120881
5	Shehbaz Shah	Assistant Engineer-PMU	01, 02 & 07 (LOT 03)	0333 2762110
6	Najeeb Soomro	Environmentalist – Contractor	Package 07 (LOT 1 & 3)	0334 8961884
7	Ahsun Amur	Environmentalist – Contractor	Package 07 (LOT 2)	0304 2678363

^{20.} The all seven road packages have been awarded to the following contractors.

Table 4: Contractor Packages Detail

Sr. No.	Package Number	Name of Section	Contractor
1	Package No. ICB- SPRIP-01	Thull to Kandhkot Road – 44 km	M/S Metallurgical Corporation of China Ltd. M/S Umer Jan & Co (UJC) [JV]
2	Package No. ICB- SPRIP-02	Sheranpur to Ratodero road – 36 km	M/S Xi'an Industrial Development Co. Ltd of China Road and Bridge Corporation M/S

			Sardar M Ashraf D. Baloch (Pvt) Ltd. [JV]
3 1	Package No. ICB- SPRIP-03	Khyber to Sanghar road – 64 km	M/S Xinjiang Beixin Road & Bridge Group Co. Ltd
4	Package No. ICB- SPRIP-04	Sanghar to Mirpur Khas road – 63 km	M/S Xinjiang Beixin Road & Bridge Group Co. Ltd
5	Package No. ICB- SPRIP-05	Tando Mohammad Khan to Badin road – 67 km	M/S Xi'an Industrial Development Co. Ltd of China Road and Bridge Corporation – M/S Sardar M Ashraf D. Baloch (Pvt) Ltd. [JV)
Package No. ICB- Digri to Naukot – 54 km M/S Xinjiang Beixin Road & Brido Co.Ltd		M/S Xinjiang Beixin Road & Bridge Group Co.Ltd	
/ /	Package No. ICB- SPRIP-07	LOT – 1: Tando Allahyar to Chambar Road – 19 Km LOT – 2: Sehwan to Dadu Road – 32 Km LOT – 3: Jahan Khan to Faizu Laro Via Chak-	M/S Umer Jan & Co Noor ul Haq & Brothers Construction Company – NBC (JV) M/S Jiangsu Haitong construction Engineering Co. Ltd M/S Nauman Construction Company M/S Shah Builders (JV) M/S Umer Jan & Co.

2.3 Project Activities during Current Reporting Period

Table 5: Project Activities during Current Reporting Period

Name of Package	Main Construction Activities	Active Work Site Chainage	Number of Workers Involved
ICB-SPRIP-01: Thull to Kandhkot Section (44.0Km)		Complete	
ICB-SPRIP-02: Sheranpur to	Bridge	39+561	10
Ratodero Section (36.0Km)	Stone Pitching	53+200	05
ICB-SPRIP-03: Khyber to Sanghar Section (64.0Km)		Complete	
ICB-SPRIP-04: Sanghar to Mirpurkhas Section (63.0Km)	Drain Work	Km. 33+600 to 33+700	08
ICB-SPRIP-05: Tando Mohammad Khan to Badin Section (67.0Km)		Complete	
ICB-SPRIP-06: Digri to Naukot	Guard Rail	Km. 15+600 to 16+400	08
Section (54.0Km)	Guard Rail	Km. 18+300 to 19+400	07

Name	of Package	Main Construction Activities	Active Work Site Chainage	Number of Workers Involved
Additional Road: Dual Extension of 1.2 KM from Start Point & 5.6 KM from End Point of Package 04		SSEMP have been	submitted	
Additional road of 1.2 Km (Dual) Allaha Wala Chowk to DC Chowk & 2.0 Km from DC Chowk to Sujawal Bypass Road (Total 3.2) of Package 05		SSEMP have been submitted		
Package No. ICB-SPRIP-07	LOT – 1: Tando Allahyar to Chambar Road – 19 Km	Aggregate Base Course	0+000 to 18+110	20
	LOT – 2: Sehwan to Dadu Road – 32 Km	Ready for Asphalt (prime Coat)	0+000 to 6+000	20
		Subbase shoulder	6+001 to 10+ 000	15
		Earth Work	10+001 to 11+700 & 13+001 to 14+700	10 & 06
		Subbase	11+701 to 13+800	07
		Aggregate base course	14+701 to 16+800 & 17+300 to 25+00	20
	LOT – 3: Jahan Khan to Faizu Laro	Bridge	7+883	10
	Via Chak-Rustam Road – 29 Km	Lean Concrete on culvert	2+230, 2+134, 0+360 R/S	18
		Backfilling on culvert	1+00, 0+843	04
		Concrete Pouring on culvert	2+311, 6+942	12
		Backfilling on culvert	8+324, 9+624, 10+624, 10+124, 10+338	10

21. The progress up to the reporting period i.e. July – December 2019 of the Rehabilitation Projects SPRIP envisages 408 KMs Roads including culverts and bridges. Total progress achieved (%) of each project is given below while mapping along with the location of asphalt plant and contractor's camp have been given in Figures – 2, 3 & 4.

Package 01	100.00 %
Package 02	96.00 %
Package 03	100.00 %
Package 04	99.00 %
Package 05	100.00 %

97.00 %	
29.13%	
15.96%	
18.02%	
	29.13% 15.96%

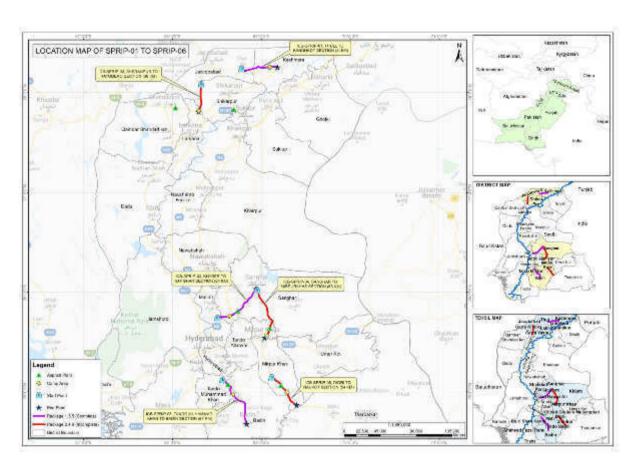


Figure 2 Location Map and Status of Package 01 - 06

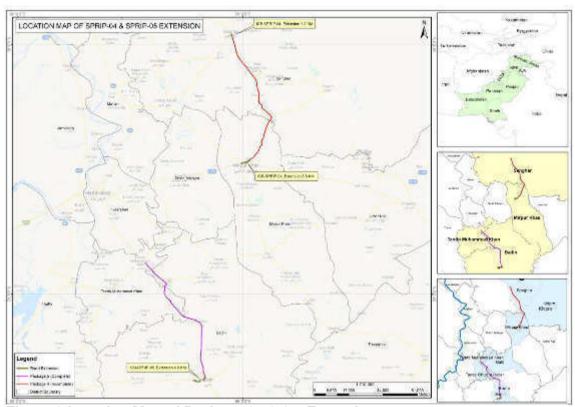


Figure 3 Location Map of Package 04 & 05, Extension

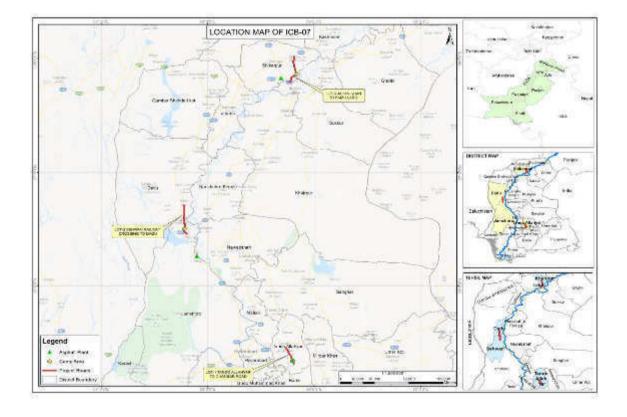


Figure 4 Location Map of Package 07 (LOT 1, 2 & 3)

2.4 Description of Any Changes to Project Design

- 22. At package 4 (Sanghar to Mirpurkhas ICB-04) there is an existing bridge at RD 44+200. This bridge is about 64.4 meters long with a width of 7.30 m. Initially, the plan of this bridge was only to rehabilitate with necessary maintenance but after detailed technical investigation of the existing bridge by review and supervision consultants. It was decided to construct a new bridge adjacent to existing bridge. The decision was made after detail investigating the condition of the existing bridge. The new bridge is located at RD 44+200 and is 59.6 m long and has a carriageway of 7.3 meters.
- 23. Except Package 4, all the projects have been commenced/constructed on the same design and route which is given in IEEs.

3. ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

- 24. Environmental Specialist PMC has carried out monthly environmental compliance monitoring of the project to ensure the environmental mitigation measures or conditions are adequately addressed.
- 25. The Deputy Director PMU also did the few surprise visit of the sites during this reporting period and any non-conformance noted were immediately pass to the contractor and PMC Environmental Specialist.
- 26. Environmental Specialist PMC have also guided the contractor and its environmental specialist on compliance of the non-conformances identified during the reporting period
- 27. The contractor environmental specialists have conducted the regular field inspections and compliance was checked through Environment Checklist which was then shared with the contractor and Environmental Specialist (PMC). The staff training, toolbox talks and environmental testing through 3rd party environmental laboratory was also performed on site.
- 28. The contractor environmental specialists submit the environmental progress of the site though monthly environmental compliance reports to the environmental specialist of PMC.

3.2 Site Audits

- 29. The contractor environmental specialists have conducted regular field inspections with the internal audits. The results of the internal audit have been shared with the contractor staff itself and to the PMC-Environmental Specialist.
- 30. The PMC-Environmental Specialist also undertaken the monthly site audits of all the packages. The detail of site audits and its significant findings is given in the table below-

Table 6: Site Audits with Significant Findings

Site Audit Date	Packages	Significant Findings		
4 th Week of July	01, 02, 03, 04,	There is the weak implementation of PPEs identified on		
2019	05, 06 & 07	package 02, 04 and 06		
	(LOT 1, 2 & 3)	At Package 07, contractor mobilizing and allied facilities		
		(Camp area, etc.) under progress		
2 nd Week of	07 (LOT 1, 2 &	Provide recommendations to the contractor regarding the		
September 2019	3)	establishment of allied facilities on the basis of pre-		
		construction environmental monitoring as suggested during a		
		meeting with ADB mission at PMU-Hyderabad (16 Sep		
		2019).		
2 nd Week of	01, 02, 03, 04,	Few of the issues related to PPEs and signage has been		

Site Audit Date	Packages	Significant Findings		
October 2019	05, 06 and 07	identified on package 04, 06 & 07 (LOT 1, & 3)		
	(LOT 1, 2 & 3)			
2 nd Week of	07 (LOT 1, 2 &	Few of the issues related to PPEs, TBT, borrow area		
November 2019	3)	management, solid waste management, emergency number		
		display and signage has been identified on package 07 -		
		LOT 1, 2 & 3.		
3 rd Week of	07 (LOT 1, 2 &	Few of the issues related to PPEs, borrow area		
December 2019	3)	management, and signage has been identified on package		
		07 – LOT 3.		

- 31. Few of the common issues were identified during the current and previous reporting period summarizes as under-:
 - a) Package 01 06 have been completed (01, 03 & 05) or near completion (package 02, 04 & 06), therefore the contractors of the relevant package, directed to submit the site restoration plan at the earliest 'as per class 4.18 Protection of Environment para 3, 4 & 7 of section 8 particular conditions of contract' because without this, project will not be considered complete and handover to the client.
 - b) The Contractors have provided the PPEs to the workforce but weak implementation is found mostly on package 04, 06 and 07 (mostly LOT 3)
 - c) The contractor was instructed to train/motivate the workforce for the use of PPEs and responsibility should be given to the site in charge for proper implementation in wearing.
 - d) The signage and bifurcation issue was also common on package 07 (LOT 1 &
 2) during reporting period for which the non-conformance notices were issued.

3.3 Issues Tracking (Based on Non-Conformance Notices)

- 32. The issues found during this reporting period is given as under-:
 - Package 01 & 03 have submitted and finalized the site restoration plan while reminders have been issued to the Package 02, 04, 05 & 06.
 - The issue of the housekeeping and PPEs were found on LOT 1 of package 07 for which the non-conformance notice was issued.
 - The issue of signage and bifurcation were also found on LOT 2 for which the non-conformance notice was issued. After the issuance of Non-Conformance notice, the signage and bifurcation were improved and issues resolved.
- 33. The summary of the issues is given as under-:

Table 7: Summary of Issues Tracking Activity for Current Period

Package Name		Total number of issues for the project	Number of open issues	Number of Closed Issues	Percentage closed	Issues Open this reporting period	Closed this reporting
ICB-SPRIP-01: The Section (44.0Km)	ull to Kandhkot	Concluded					
, ,	orannur to Patodoro		<u> </u>	<u> </u>		<u> </u>	
Section (36.0Km)	ICB-SPRIP-02: Sheranpur to Ratodero Section (36.0Km)		1	3	75	1	3
ICB-SPRIP-03: Khyber to Sanghar Section (64.0Km)		Concluded					
ICB-SPRIP-04: Sanghar to Mirpurkhas Section (63.0Km)		4	1	3	75	1	3
ICB-SPRIP-05: Tai	ICB-SPRIP-05: Tando Mohammad		Completed but not concluded as Restoration Plan				
Khan to Badin Sec	tion (67.0Km)	have not been submitted					
ICB-SPRIP-06: Digri to Naukot Section (54.0Km)		4	1	3	75	1	3
	LOT -1, Tando Allahyar to Chambar Road	5	1	4	83	5	4
ICB-SPRIP-07:	LOT – 2: Sehwan to Dadu Road	5	1	4	83	5	4
	LOT – 3: Jahan Khan to Faizu Laro Via Chak- Rustam Road	7	2	5	71	2	5

Figure 5: Summary of Issues by Non-Conformance



3.4 Trends

- 34. The information from previous period reports and the current period information are used to identify trends in conformance and issues. The overall conformance status of the project improved where the conformance level is neither positive nor negative.
- 35. The letter issued on the non-conformances is attached as **Annexure II** of this report.

3.5 Unanticipated Environmental Impacts or Risks

36. No unanticipated environmental impacts and risks have been identified during the current period. Details of all the impacts which have been aggravated during the reporting period and their mitigation measures are discussed in the project's IEE.

4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

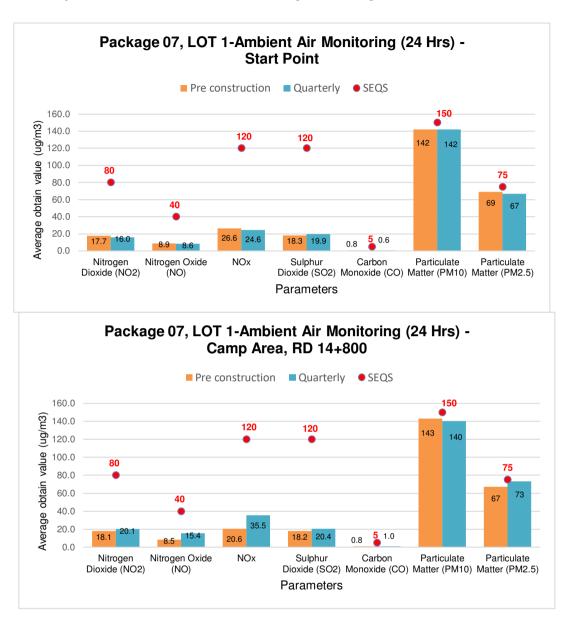
- 37. Internal environmental monitoring consists of two types. The first type consists of visual inspections of things such as soil erosion, restoration of vegetation, solid waste disposal and so on. The second type requires field sampling and lab analysis for example water quality, air quality and noise levels. The field sampling and lab analysis have been conducted, including air and noise and water quality during the reporting period. Field inspections have been undertaken by the on-site environmental and Health Safety team of Project Management Consultant including ARE and one Inspector headed by Resident Engineer and Environmental Specialist on a regular basis. As far as contractors are concerned overall 4 member's team at each subproject implement and monitor the Environmental, Health and Safety that includes the Project Manager, Construction Manager, Site Engineer and Site HSE Engineer.
- 38. 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 of 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, campsites, topsoil erosion, cultural heritage and safety provisions are discussed in this section. All the subprojects are category B projects and environmental approval from ADB was obtained.
- 39. 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 2019 which have been checked by the site Environment Specialist and submitted to the PMC. The analysis showed that non-compliance was most often in the areas of, health and safety and contractor's good housekeeping. The possible instruction related to non-compliance has been given to the contractors by the Environmental Specialist of PMC which the contractor rectified within a given time frame. The sample daily & monthly monitoring checklist has been attached as **Annexure III** of this report.

4.1.1 Air Quality

40. The major sources of air emissions are running vehicles on the road as well as construction equipment and construction vehicles. As the packages, 01 to 06 are in

- the finishing stage and no major construction vehicles were on the site and only allied works such as guard rail and signage are in progress. Therefore, air quality monitoring has not been performed in those packages during the reporting period.
- 41. However, Baseline/pre-construction and quarterly air monitoring have been done at Package 07 (LOT 1, 2 & 3). Baseline/pre- construction monitoring was held in the mid of August 2019 before the start of construction work and quarterly monitoring was conducted at the end of December 2019 when about 20% of the work has been completed.
- 42. We have compared both data values and no considerable difference can be seen which indicates that there is environmental compliance in the work done so far. And all the values meet the SEQS. In the graph shown below, indicated the same thing for the LOT 1, 2 & 3 referring to the start point, camp area and endpoint of the road. The result has been annexed as **Annexure IV**.

Figure 6: Comparison of Ambient Air Monitoring of Package 07, LOT 1



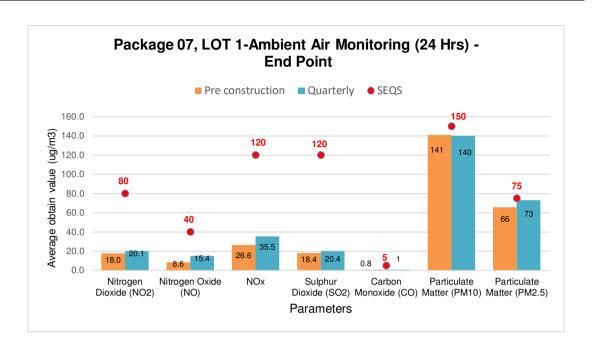
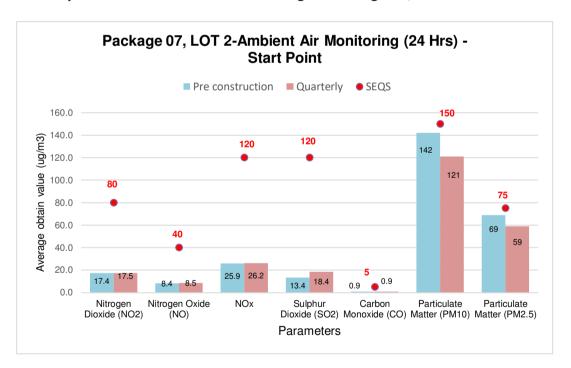
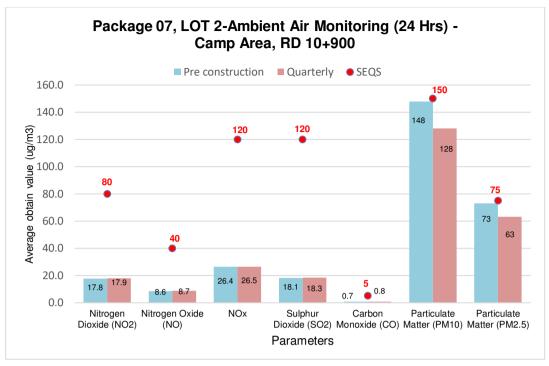


Figure 7: Comparison of Ambient Air Monitoring of Package 07, LOT 2





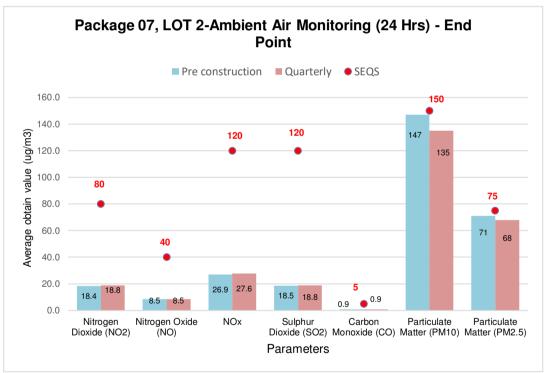
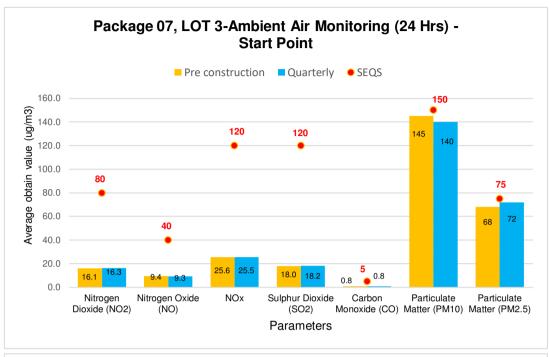
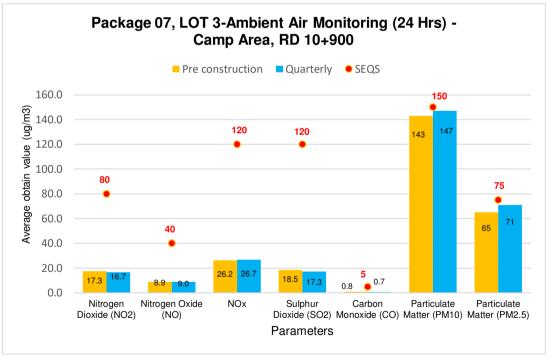
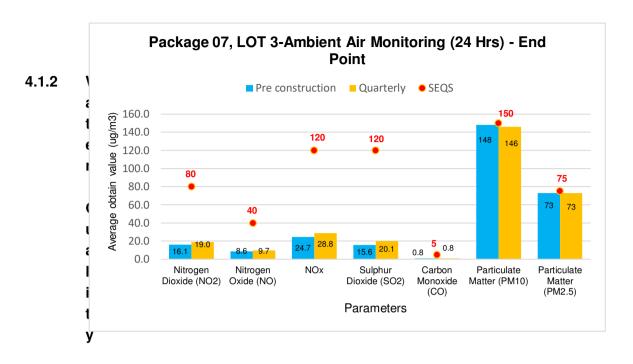


Figure 8: Comparison of Ambient Air Monitoring of Package 07, LOT 3





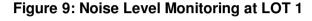


- 43. The monitoring of water resources has not been performed during this reporting period at Package 07 to assess the damage caused by the construction activities. The implementation of the preventive and corrective measures which were mentioned in SSEMP was monitored and assessed in the field visits and environmental audits.
- 44. Camp areas were selected where adequate natural drainage was available. No surface water or groundwater contamination was reported due to oil spillages, solid waste dumping or aggregate lying during the reporting period. The compliance to the SSEMP was ensured Monitoring of potable water for drinking purpose was being carried out.
- 45. Baseline monitoring has been done which is satisfactory in all the parameters however the microbial contamination has been traced in all three LOTs of package 07.
- 46. In order to overcome this issue LOT 1 and LOT 2 have fetched water from the nearby filtration plant furthermore, the water sample were collected and no contamination was seen in the quarterly monitoring reports however, the same thing was devised to LOT 3 which they still fail to imply. Regarding this concern, PMC has issued the number of letters to the contractor for (reference Annexure I). The result has been annexed as **Annexure IV**.
- 47. The wastewater from the labour camps has been disposed of properly through the septic tank. All the labour camps have provision of the septic tanks.

4.1.3 Noise and Vibration

48. The contractors have taken measures to reduce noise levels and selected all the equipment that generates low levels of noise, however, all the construction

machinery should be properly maintained in order to have noise levels within SEQS. Noise reduction devices or methods (e.g. hoarding) may be applied where piling equipment is operating within 500 m of sensitive sites such as schools or other receptors identified in SSEMPs of all sites. Concrete-mixing plants and similar activities are located at least 300 m away from sensitive areas such as residences, schools and hospitals. The noise quantity at the construction site was also measured at all the LOTs of package 07, which are within the permissible limits. In the quarterly monitoring, the values were quite controlled with respect to the baseline monitoring but still, the values are near the SEQS as depicted in the following figures. The result has been annexed as **Annexure IV**.



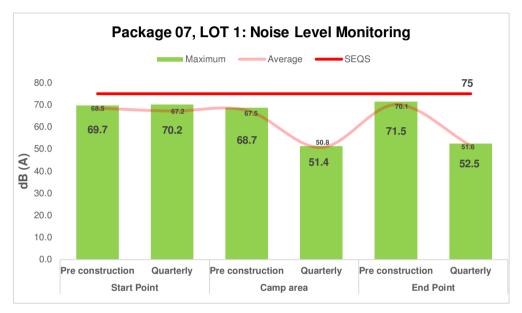
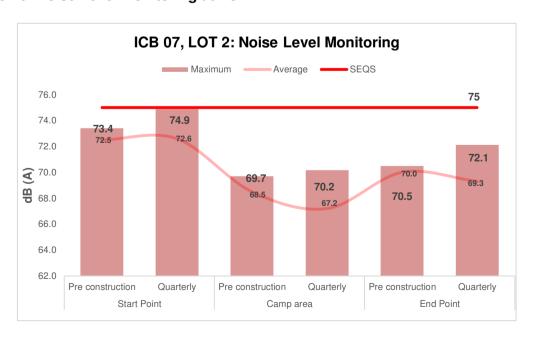


Figure 10: Noise Level Monitoring at LOT 2



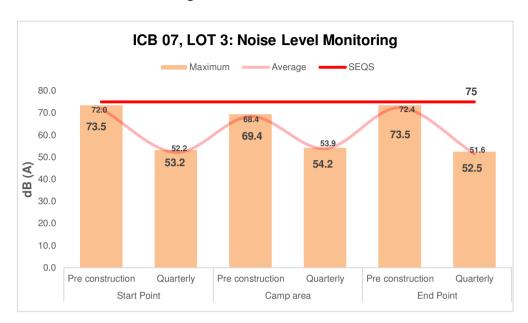


Figure 11: Noise Level Monitoring at LOT 3

49. Implementation of the mitigation measures recommended in SSEMP to reduce the impact of Noise and Vibration were observed. Construction activities situated close to populated areas were limited to daylight hours only to minimize the impact of noise. prayer timings and school timings were observed especially in the areas close to the mosques and schools along the carriageway during the construction activities. Contractors were advised to keep their earth moving equipment in good condition and to provide personal protective equipment like ear-plugs to the working staff at noise generating sites. No noise and vibration-related complaints from the public or workers were registered during the reporting period. As these projects are category B projects, in addition to the above measures, compliance with the SSEMP. Special field visits were carried out in order to assess the effectiveness of the protective equipment used by the contractors for the workers. The safety signs and signage were arranged by the contractors in order to warn people about the high intensity or level of noise being generated by the machinery.

4.2 Trends

- 50. During the last reporting period, the concentration of PM at package 07 found near but within the SEQS limit. This was due to the insufficient sprinkling during base aggregate course work so as to result, the respective contractor was instructed to increase the water spraying frequency at the spotted sites.
- 51. The result of noise quality remained more or the less same during baseline and quarterly monitoring period.
- 52. While the issue of microbial contamination at drinking water was resolved by fetching the filtered water for the construction crew at LOT 1 & 2 but for LOT 3, non-compliance has been issued.

4.3 Material Resources Utilization

4.3.1 Current Period

53. Key water using processes on construction sites are considered to be accommodation at workers camp, site construction activities such as asphalt, wearing course, etc., Dust suppression and on-site offices. The water consumption is estimated for workers camp, dust suppression and site offices. Due to lack of data the water usage for the asphalt wearing course or other construction activity is not reported. The water consumption is given in **Table 8**

Table 8: Water Consumption during Current Period

Sr. No.	Activity	Water Consumption in meter cube for period July 2019 to December 2019				
Package	Package 01					
1	Accommodation at workers camp	0				
2	Dust Suppression Activity	0				
3	Site Office	0				
Package	02					
4	Accommodation at workers camp	0				
5	Dust Suppression Activity	200				
6	Site Offices	0				
Package	03					
7	Accommodation at workers camp	0				
8	Dust Suppression Activity	0				
9	Site Offices	0				
Package	04					
10	Accommodation at workers camp	250				
11	Dust Suppression Activity	200				
12	Site Offices	150				
Package	05					
13	Accommodation at workers camp	0				
14	Dust Suppression Activity	0				
15	Site Offices	0				
Package 06						
16	Accommodation at workers camp	200				
17	Dust Suppression Activity	300				
18	Site Offices	150				
Package 07, LOT 1						
19	Accommodation at workers camp	300				
	•	•				

Sr. No.	Activity	Water Consumption in meter cube for period July 2019 to December 2019				
20	Dust Suppression Activity	400				
21	Site Offices	250				
Package (Package 07, LOT 2					
22	Accommodation at workers camp	250				
23	Dust Suppression Activity	300				
24	Site Offices	200				
Package 07, LOT 3						
25	Accommodation at workers camp	200				
26	Dust Suppression Activity	300				
27	Site Offices	250				

4.4 Waste Management

- 54. 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 municipal waste both solid and liquid effluent.
- 55. The liquid waste from camp offices has been disposed of by using the septic tank. The septic tank is present at all LOTs of the packages and liquid waste has been disposed properly.
- 56. Each type of solid waste has been managed separately and is discussed in Table 9

Table 9: General Waste Management Practice

Sr. No	Type of Waste	Mode of Disposal/Use		
1	Batteries	Sold to the Scrap metal recyclers		
2	Empty Containers/drums	Sold to the Scrap metal recyclers		
3	Excavated natural material	Reused offsite		
4	Oil filters	Sold to Recyclers		
5	Motor Oil	Sold to oil recycler for reprocessing and recovery.		
6	Scrap material	Sold to the Scrap metal recyclers		
7	Concreate Waste	Reuse in pavement base and sub-base		
8	Municipal Solid Waste	Disposed in Landfill site		

4.4.1 Current Period

Table 10: Waste Generation and Management during Current Reporting Period at Package 07, LOT 1, 2 & 3

Sr. No	Type of Waste	Classification	Waste Source	Quantity	Mode of Disposal/Use
1	Batteries	Hazardous	Power using products such as construction vehicles and generators	3 Nos.	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	15 Nos.	Sold to the Scrap metal recyclers
3	Excavated natural material	Non-Hazardous	From Excavation of Soil	0 cubic meter	Reused offsite
4	Oil filters	General solid waste (non-putrescible)	From Machinery, Construction Vehicles and Generators	30 Nos.	Sold to Recyclers
5	Motor Oil	Hazardous	From Machinery, Construction Vehicles and Generators	200 Litres	Sold to oil recycler for reprocessing and recovery.
6	Scrap material	General solid waste (non-putrescible)	Scrape yard	0.5 ton	Sold to the Scrap metal recyclers
7	Concreate Waste	General solid waste (non-putrescible)	culverts construction	3 cubic meter	Reuse in pavement base and sub-base
8	Municipal Solid Waste	General solid waste	Offices, Camp Site	3 Ton	Disposed in Landfill site

- 57. The waste from empty containers can be reduced if the transport fuel could be used in tankers instead of containers. The tankers are safer to transport in comparison with containers.
- 58. Municipal solid waste can be reduced by using good practices such as going paperless in offices, reduce plastic bottles and reduce the number of packaging products. Moreover, the kitchen waste could be composted and use as manure in gardening.

4.5 Flora and Fauna

59. During the reporting period, no fauna was disturbed by the construction activity. No mortality of wild animals was reported. All the LOTs were on the existing alignment, therefore no major harm to fauna has occurred. All the possible adverse impacts on fish and other fauna have been addressed in the SSEMP. The environment specialist ensures the compliance of SSEMP through site visits. The EMP compliance checklist

is duly filled and reported. However, no issue/complaint related to fauna has been received up to the reporting period.

4.6 Health and Safety

4.6.1 Community Health and Safety

60. The safety of the local people is a major concern at the construction sites. The contractor has placed the safety signs (speed limits, safety cautions, safety cones, safety tapes, etc.) on active construction sites. Few of the safety signs were missing or not in proper use at package 07 for which the non-conformance notice was issued attached as Annexure II. After the non-conformance notice, the contractor successfully placed the safety signs in right places. Contractors also did regular water sprinkling at all the sites. No minor or major accident was reported from all the packages during this reporting period. The traffic operations are well on all sites since no complaint is received from the community in this regard. Furthermore, no complaints have been received of damage to public/community assets and infrastructure.

4.6.2 Worker Safety and Health

- 61. Implementation of EMP recommendations regarding the use of PPEs by contractor's site staff was also poor on all LOTs the packages. The Contractors have provided the PPEs to the workforce but there is a lack of implementation in wearing of PEEs. The contractor was instructed to train/motivate the workforce for the use of PPEs and responsibility should be given to the site in charge of proper implementation in wearing. However, no accident at any project has been reported during the reporting period.
- 62. First Aid Kits were available at campsites and work sites. A follow-up visit was also carried out to ensure compliance with the findings of the previous audit. All non-compliance matters and observations were addressed. It was advised to equip the workers with proper protective equipment, and the safety signs to display all over the area.
- 63. The internal training on firefighting, toolbox talks, PPEs wearing and first aid was delivered to the contractor's staff, and fire drills were also carried out to demonstrate the use of different fire safety equipment.

4.7 Physical and Cultural Relics

64. Up to date, no such sites have been discovered in the area (Package 07). If any of the physical and cultural relics are discovered at the construction sites, disposal shall be conducted according to the procedure mention in IEE as well as SSEMP.

4.8 Training

65. Regular internal HSE training was given to the workforce by the contractor's environmentalist. However, during this reporting period, the external training on HSE

and Environmental Protection were given at all LOTs of package 07. The main topics of the training were the Introduction of Health Safety, Basic First Aid, Fire Protection and Use of PPEs. Training certificates have been depicted below while other details are given in **Annexure V** which provides the photographs of the training.







4.9 Tool Box Talk (TBT)

66. The TBT is a very important tool for the awareness among the construction crew on Environmental Health and Safety so, on package 07 the TBT is continuously being conducted since the main construction work has started. The TBT includes Fire Hazards, Housekeeping, and Excavation Work for the construction of culverts, PPEs, Maintenance of construction machinery. The pictures and filled Performa of the TBT are attached in **Annexure VI**.

4.10 Consultations and Safeguard Unit (SU) Meeting

- 67. We have conducted different types of consultation meetings. The most prominent ones are as under:
- First meeting was conducted in September regarding ADB's mission. The agenda of the meeting was to overview the progress of package 01 06 and preparation for the efficient implementation of environmental safeguards on the new induced package 07 (LOT 1, 2 & 3) keeping in the view the strategies adopted for the previous packages.
 - The other discussion was about the results of pre-construction monitoring (August 2019) especially on groundwater. Microbial contamination was detected in the samples taken and for that the environmental safeguard specialist of ADB suggested to install water filtration plant for safe and hygienic potable water for the labour.
 - To overcome such issues, LOT 1 & 2 fetch water from nearby filtration plants. Water samples from these filtration plants were collected and tested during quarterly monitoring (December 2019) and found fit for consumption. While LOT 3 has no such facilities and still fails to install the filtration plant regarding that non-compliance notices and reminder to do so have been issued.
- II. Second meeting was held in October 2019. This was regarding the overall performance of package 01 07. There was no such environment concerns/discussion however, the meeting was important to avoid any unforeseen, delays in the project work.
- III. Every month meetings of SU has been conducted in PMU office which had been chaired by Deputy Director (Quality Control) along with four members including Assistant Engineers of Upper and Lower division of PMU, Resettlement & Environmental Specialist from PMC. This meeting was held to ensure that the EMPs including all proposed mitigation measures and monitoring programs are properly implemented.

5. FUNCTIONING OF THE SEMP

5.1 SEMP Review

- 68. The objective of establishing SSEMP is not only to propose appropriate mitigation measures, but also to recommend establishment of institutions or mechanisms to monitor and ensure compliance with environmental regulations and implementation of the proposed mitigation measures with implementation schedule.
- 69. The contractor is mostly complying with the conditions mentioned in SSEMP, However few lacking's were observed discussed below-:
 - There is week implementation of PPEs found on package 05, 06 & 07 (LOT 1, 2 & 3) although the contractors were provided the PPEs to the work force and therefore negligence at the workers end. The contractor were given instruction that site supervisor should take care of these issues and enforce the use of PPEs during construction activities. After the instruction the situation on packages were much improved.
 - The monthly dust and noise monitoring is recommended in SSEMP, however the dust and noise monitoring was not conducted for packages 01 to 06 during this reporting period. The reason for that is the completion of main works and only allied works at few packages is in progress. However at Package 07 quarterly monitoring have been conducted and results are within the SEQS but still need attention towards particulate matter concentration.
 - In the SEMPs, use of LPG cylinders was recommended, whereas use of wood as fuel was discouraged. Use of wood was observed at LOT 3 camp site due to non-availability of LPG cylinders. Contractors were advised to avoid any wood burning.
- 70. The SSEMP covered all the aspects and has been effective and also the project (except package 07) is on finishing stage therefore no change is recommended.

6. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

71. During reporting period no examples of good practice could be presented. All performance was implemented within planned activities.

6.2 Opportunities for Improvement

72. Contingency and miscellaneous cost has been allocated in the EMP Mitigation and Monitoring cost. As the package 07 is in initial stage of construction therefore it is recommended to use this cost in indigenous tree plantation along the sides of the road.

7. SUMMARY AND RECOMMENDATIONS

7.1 Summary

- 73. During this reporting period, most of the activities of road works constructions were completed for package 01, 03 & 05 and only allied works at package 02, 03 & 04 is in progress. Package 07 is in initial phase of construction as 25 % work has been done so hence at this stage 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.
- 74. Field inspections by the PMU, PMC & Contractor Environmental staff, were regularly made. Each of these has assigned managers in charge of environmental management. They also serve as grievance focal points.
- 75. Project and contact information has been posted in the bulletin boards at all construction sites. Public complaints can also be lodged in register and telephone. To date, all the public compliant received has been resolved efficiently.
- 76. The pre-construction and quarterly environmental monitoring have been conducted at package 07 all LOTs.
- 77. The issue of the housekeeping, dust and signage and bifurcation were found on package 04, 06 & 07 (LOT 1, 2 & 3) for which the non-conformance notice was issued after which the contractor has taken the measures and issues were successfully closed as narrated in compliance status reports of LOT 1, 2 & 3.
- 78. Main Contractors camps and labour camps, storage areas and vehicle/machinery places are being maintained according to the prevailing environment, health and safety standards.
- 79. All the HSE component status, during the reporting period, is satisfactory. No major complaint and accident has been reported.
- 80. Copy of the SSEMP, Camp Site Guidelines, and Grievance Register, monthly Compliance Checklists were 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.
- 81. No noise and vibration-related complaints from the public or workers were registered.
- 82. Construction activities close to populated areas were limited to daylight hours only to minimize the impact of noise. The contractors should adhere to the agreement to avoid any social conflict.
- 83. No surface water or groundwater contamination was reported due to oil spillages, solid waste dumping or asphalt lying during the reporting period. However, it is recommended spill control equipment should be ensured at each campsite.

- 84. No fauna was disturbed by the construction activity. No mortality of wild animals was reported.
- 85. No cultural heritage sites/ wetland/ protected area/ mangrove/ estuarine lies in RoW of any of the subproject alignment.
- 86. No damage to the agricultural land due to borrow pits or topsoil erosion was reported.
- 87. The use of PPEs by contractor's site staff still requires improvement. The Contractor have provided the PPEs to the workforce but instructed to train / motivate the workforce for the use of PPEs and responsibility should be given to the site in charge of proper implementation in wearing.
- 88. 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 have aware of the problem and work accordingly.
- 89. 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 camps consists of the municipal waste both solid and liquid effluent. All waste has been disposed of as per the plan.
- 90. Traffic management and safety are being given the topmost priority in the overall project corridor.
- 91. Child labor was not observed on any subproject. Contractors were advised to discourage child labor in the future as well. It was advised that Identity verification should be carried out prior to hiring and the record should be maintained.
- 92. No complaints regarding the transmission of Communicable diseases (such as STI's and HIV/AIDS) were reported.
- 93. No ozone-depleting substances are used. Only approved substances (chemicals and technologies) are used having negligible significance to climate change.
- 94. Overall no major conflict with the community was observed which related to the environment, health and safety. Cordial liaison has been maintained with the local community.

7.2 Recommendations

- 95. All the plans established in SSEMP(s) must be implemented in full swing.
- 96. Regular internal and external audits are required along with routine visual inspections and monitoring. Contractors are advised to motivate and train staff for the use of PPEs.
- 97. Traffic management and safety should be the topmost priority in the overall project corridor. The Traffic Management Plan should be available at all sites.
- 98. Spill control equipment should be ensured at each campsite.



ANNEXURES

ANNEXURE – I CORRECTIVE ACTION PLAN (CAP) & COMPLIANCE STATUS REPORT (CSR)

ANNEXURE - I: Corrective Action Plan & Compliance Status Report

Package - 07 LOT 1

Project Management Consultant Sindh Provincial Roads Improvement Project



DESCRIPTION IN ASSOCIATION WITH IN UMAR MUNSHI ASSOCIATES



PMC-SPRIP-SV16-001/07-LOT-1/ 2354

Dated: December 20, 2019

Resident Engineer-III Tando Allahyar

ADB - ASSISTED, SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT (SPRIP) LOAN NO 3305-PAK.

ICB-07: LOT-1 TANDO ALLAHYAR TO CHAMBER ROAD SECTION (KM 19)

CORRECTIVE ACTION PLAN (CAP).

Enclosed please find herewith a copy of Corrective Action Plan (CAP) duly signed by the Contractor and PMC to be implemented at sitc as agreed with PMU and ADB during inspection of the respective package for immediate necessary action.

Please advise the contractors concerned under your jurisdiction for immediate implementation of the corrective action plan on top priority basis.

Im, Seung Bin

Team Leader

For, Project Management Consultants (SPRIP) Hyderabad

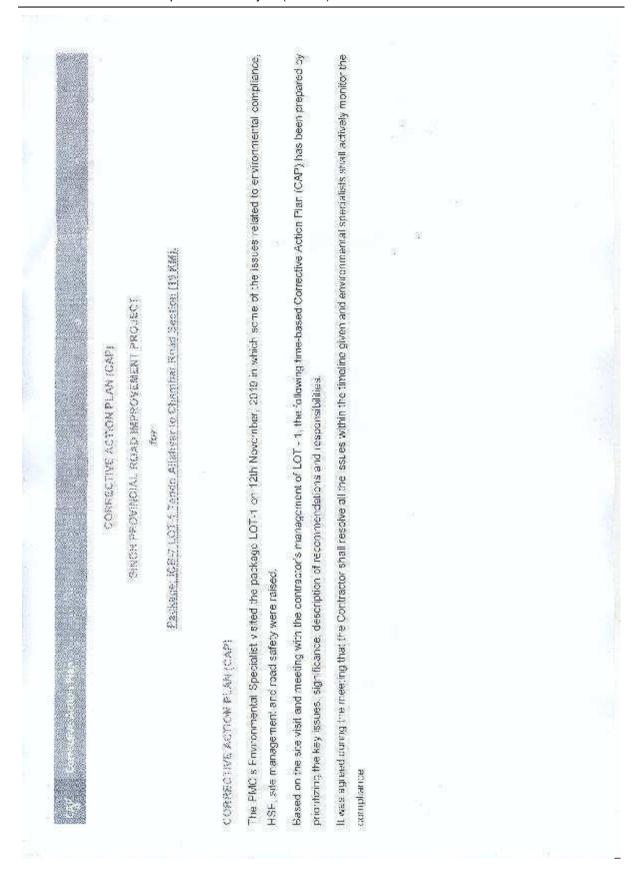
Cc: along with copy of enclosure to:

> Project Manager ICB-07-LOT-01

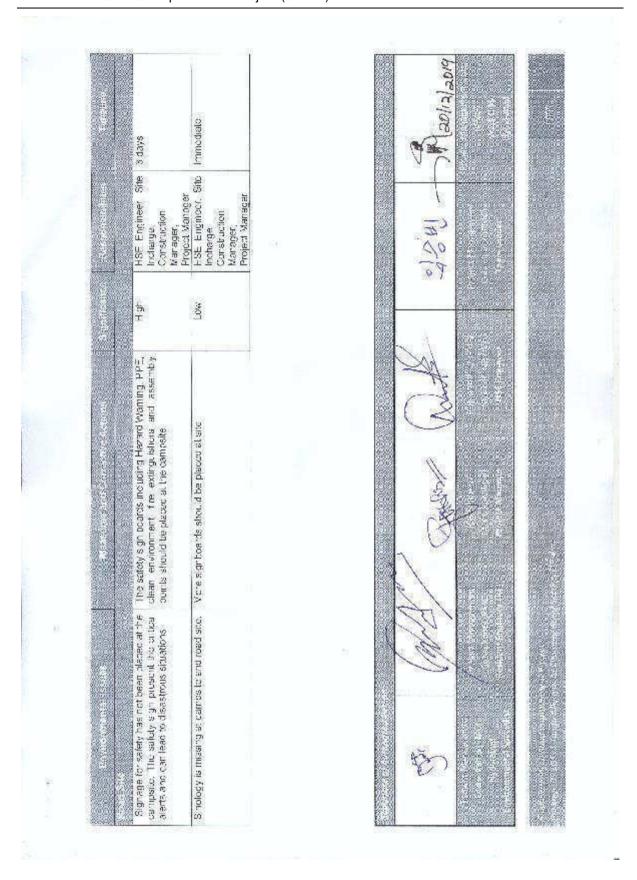
Copy for information:

- Project Director (PMU-SPRIP) Works & Services Department, Hyderabad
- XEN (Upper) Division (PMU-SPRIP) Works & Services Department, Hyderabad
- > Mr. Sameen Khokhar Environment Specialist (PMC-SPRIP) Hyderabad

Head Office: Bungalow No. 109, Sindhi Muslim Housing Society, Qasimabad Hyderabad Phone: 022-2102772, 022-2102992, Email: pmc.sprip@gmail.com



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Project Management Consultant Sindh Provincial Roads Improvement Project



Secretaria in association with MI UMAR MUNSHI ASSOCIATES



PMC-SPRIP-SV16-001/07-LOT-1/2359

Dated: December 23, 2019

Project Manager ICB-07-LOT-01 M/S Umer Jan & Co M/S Noor-ul-Haq & Brother [Joint Venture] Tando Allahyar District Tando Allahyar

SUB: ADB - ASSISTED, SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT (SPRIP) LOAN NO 3305-PAK.

ICB-07; LOT-1 TANDO ALLAHYAR TO CHAMBER ROAD SECTION (KM 19)

COMPLIANCE STATUS REPORT (CSR)

Ref: This office letter no. PMC-SPRIP-SV16-001/07-LOT-1/2354 dated 20-12-2019

According to the Corrective Action Plan (CAP) sent earlier, many of the noncompliances have being solved, However, many critical issues have not been solved yet as mentioned in Compliance Status Report (CSR).

You are directed to make sure the compliance of the mentioned shortcomings and report its status to RE,

The RE is also intended to enforce the compliance (CSR) and report to PMC.

It is also informed to you that without compliance of environmental conditions as mentioned in SSEMP, the work will be stopped under ADB safeguard policy.

Waiting for your promote response.

Im, Seung Bin

Team Leader

For, Project Management Consultants (SPRIP)

Hyderabad

Encl: As above

Cc.

Project Director (PMU-SPRIP) Works & Services Department, Hyderabad

XEN (Upper) Division (PMU-SPRIP) Works & Services Department, Hyderabad

> Resident Engineer-III, Tando Allahyar

Mr. Sameen Khokhar Environmental Specialist (PMC-SPRIP), Hyderabad

Head Office: Bungalow No. 109, Sindhi Muslim Housing Society, Qasimabad Hyderabad Phone: 022-2102772, 022-2102992, Email: pmc.sprip@gmail.com

Compliance Status Report on Corrective Action Plan

COMPLIANCE STATUS REPORT (CSR)

S

CORRECTIVE ACTION PLAN (CAP)

SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT

FOR

PACKAGE: ICB-07 LOT-1 TANDO ALLAHYAR TO CHAMBAR ROAD SECTION (19 KM).

Compliance Status Report (CSR)

PMC's Environmental Specialist visited the package LOT-1 on 12th November 2019 in which some of the issues related to environmental compliance, HSE, site management and road safety was raised. Based on the site visit and meeting with the contractor's management of LOT - 1, the following time-based Corrective Action Plan (CAP) has been prepared by prioritizing the key issues, significance, description of recommendations and responsibilities. It was agreed during the meeting that the Contractor shall resolve all the issues within the timeline given and environmental specialists shall actively monitor the compliance. In order to check the Compliance Status of CAP, the Environmental Specialist again visited the ICB-07, LOT-1 on 18th December 2019. This report has been prepared after the visit with respect to the CAP.

Compliance Status against each condition of CAP is given as under-

Environmental Issues			
Documentation	Measures and Corrective Actions	Timeline	Compliance Status
Environment checklist is not	Project Manager has to strictly instruct the contractor environment engineer to fill reports as per the requirements of the PMC and be in continuous contact PMC Environment Spacialist.	Daily	Completed
Weekly Reports are not as per schedules. Sp Sp Reference	Project Manager should have a mooting with PMC Environment Specialist & own environment to get a mutual understanding on report format PMC EE has guided the contractor engineer in filling reports.	Weekly	Completed
Copy SSEMP is not provided at the campsite. The call of the campsite. The call of the campsite. The campsite is not provided at the campsite.	The copy of SSEMP must be available for ready reference at camp already unfortunately at a time visit was not there, HSE Engineer should have been given one table there anything related to HSE is placed.	1 Week	Completed
Emergency Numbers (some are not depicted) The Commission	The Missing Emargency numbers should be posted.	1 week	Completed
kit is missing.	Kit must be available for the aptive construction sites.	2 days	Completed
Direction to get to the hospital is missing.	Printed the flospital direction should be posted.	1 day	Completed
Borrow area 8the material dump has not Ribboning been properly tenced.	Ribboning of fencing of borrow area and material dump site Immediate reduces the risk of hazard, this should be done properly.	late	
Building Camp arrangement is not fit to guard Will off the weather effects.	Windows have to be fixed.	3 days	Completed
not hygienic.	Project Manager must be issued strict instructions to provide bins where needed, he must instruct the EE to make sure the hygienic disposal of waste.	1 week	Completed

CSR Compliance Status Report on Corrective A	birractive Action Plan		
Environmental Issues Road Site	Messures and Corrective Actions	Timaline	Compliance Status
Signago for safety has not been placed at The safe campsite. The safety sign present the enviror critical alerts and can lead to disastrous placed situations.	The safety sign boards including Hazard Warning, PPE, clean environment, fire extinguishers and assembly points should be placed at the campsite.	ean 3 days	Partial Completed (PPEs, regular TBT, Spill kit tray, etc. missing)
No containment was present for the diesel. Oil containment in the form tank which may cause risk of the oil spill and should be constructed be pose a threat to health safety and containment has at least ca deriving mental.	Oil containment in the form of concrete or Molten Steel plates should be constructed beneath the furnace oil tank. The containment has all least capacity of 50% storage capacity with respect to the dieset oil tank.	3 Weeks Comp	Completed
Smology is missing at the campsite and road More signboards should be placed at site eite.	ignboards should be placed at site	Immediate	Partial Completed (Essential Roadsdo sinclogy is miss ng liko spierd limita, men at work, etc.)
	ander Cons		
Property of the property of the property of the	Careta Allah serin Chimpa (Road Section 134 April		Page 2

Package - 07 LOT 2

Project Management Consultant Sindh Provincial Roads Improvement Project



DEPENDENCE CONCERNOR IN ASSOCIATION WITH THE UMAR MUNSHI ASSOCIATES



PMC-SPRIP-SV16-001/07-LOT-2&3/2355

Dated: December 20, 2019

Resident Engineer-II Sukkur / Dadu

SUB:

ADB - ASSISTED, SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT (SPRIP) LOAN NO 3305-PAK.

ICB-07: LOT-3 JEHAN KHAN TO FAIZU LARO VIA CHAK RUSTAM ROAD SECTION (29.1 KM)

ICB-07: LOT-2 SEHWAN RAILWAY CROSSING (N-55) TO DADU VIA TALTI UPTO DADU - MORO ROAD SECTION (32 KM)

CORRECTIVE ACTION PLAN (CAP).

Enclosed please find herewith a copy of Corrective Action Plan (CAP) duly signed by the Contractor and PMC to be implemented at site as agreed with PMU and ADB during inspection of the respective packages for immediate necessary action.

Please advise the contractors concerned under your jurisdiction for immediate implementation of the corrective action plan on top priority basis.

Im, Seung Bin Team Leader

For, Project Management Consultants (SPRIP)

Hyderabad

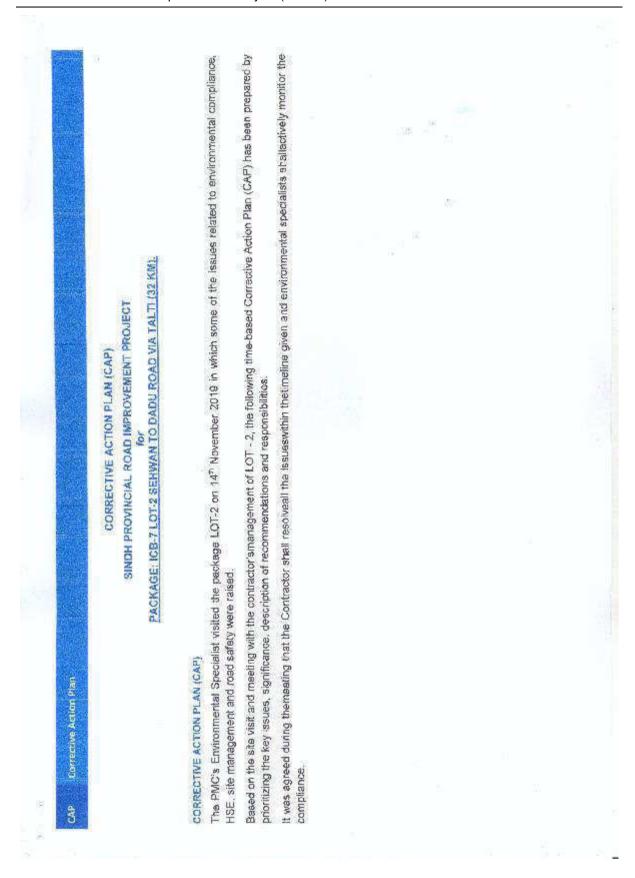
Cc: along with copy of enclosure to:

- Project Manager ICB-07- LOT-02
- Project Manager ICB-07- LOT-03

Copy for information:

- Project Director (PMU-SPRIP) Works & Services Department, Hyderabad
- XEN (Upper) Division (PMU-SPRIP) Works & Services Department, Hyderabad
- XEN (Lower) Division (PMU-SPRIP) Works & Services Department, Hyderabad
- Mr. Sameen Khokhar Environment Specialist (PMC-SPRIP) Hyderabad.

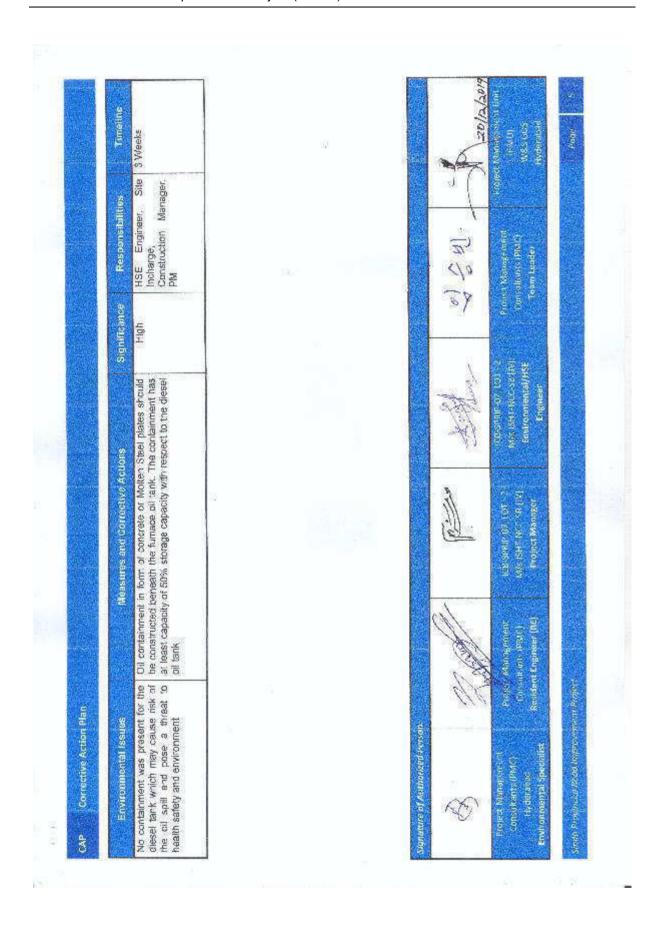
Head Office; Bungalow No. 109, Sindhi Muslim Housing Society, Ossimabad Hyderabad Phone: 022-2102772, 022-2102992, Email: pmc.sprip@gmail.com



		. Timeline	Site 1 Week er.	Site 1 Week		ania la la	Project Management (mit- Roket) WAS Stoy Piptleraketd	3650
		Responsibilities	HSE Engineer, Site Incharge, Construction Manager, Project Manager	HSE Engineer Site Incharge, Construction Manager Project Manager		S S E	rolet Nanazement Consutanto (Poku) Taam Leader	
		Significance	H _Q	Hgh		0)		
		- Actions	ead, caution and Speed 1 ends of the road. The 3.Cauthons, Speed Slowly in range of 500 to 100. It is also safety shoes and at all active construction lion and size should be accounted.	ning. Speed Stowly and ning. Speed Stowly and neter of 500 to 100 meter cassed on the bridge, the ore. Inches with reflectors at treffic management.			FOR SHAID OF LITTLE OF THE SECOND OF THE SEC	
K	OT-2.	Measures and Corrective Actions	Safety Signs e.g. construction works ahead, caution and Speed Slowly should be placed at start onboth ends of the road. The safety signs of Construction Works Ahead Cautons, Speed Slowly and Speed Limit should also be placed in range of 500 to 100 motor before every active construction site. The site safety signs including wearing helmets safety shoes and protective clothing should also be placed at all active construction sites. All safety signs have adequate illumination and size should be safety signs have adequate illumination and size should be	appropriate of transport forming and design beginning. Speed Slowly and The sign boards houlding Hazard Warning. Speed Link should also be placed in range of 500 to 100 meter beforethe bridge. The bridge at RD 6+280 to 6+300has to be reconstructed but at this stage to bring safety for traffic to be passed on the bridge, the bridge should be condon offwith the reflectors. International wardens should be positioned with reflectors at both ends of trigge in order to have better traffic management.			Control of the second of the s	
	Package 07 L		Safety Signs Slowly should safety signs of and Speed Li motor before o The site safety protective clots sites All safety signs	appropriate virtual poetics Speed Limit should beforethe bridge. The bridge at RE this stage to bring bridge should be 1 he traffic control both ends of tring both ends of tring both ends of tring the stage of tring tring the stage of tring			Project Management Lambdaga (MML) Resident Engineer (ME)	
Corrective Action Plan	Corrective Action Plan (CAP) for Package 07 LOT-2.	Environmental issues	Road Size. Safety signs are not present on entire length of the road. The safety signs on roads and active construction sites are critical and lead to the fatal accident if not present.	The HSE conditions of the bridge at RD 5+042 and 6+280 To 6+300 kmars very unsatisfactory. The traffic also has bottle neck to pass from the bridge which may have risk of road accidents.	Signature of Authorized Person.	NA NA	Froject Minagement Froject Constituents (PMc) Carron Hyderallag Carron Environmental Specialist	Shidh troopin at Vanat (Hornvermed) Flayed

The road	Measures and Corrective Actions	200	Stumbleance	Responsibilities	Timeline
	The steel cowels should be cordon off with caution tape in order to avoid any accident. It is best where steel dowels are present should be remove by cutting it off or by property frishing. Ribboning of fencing of borrow area and material dump site reduces the risk of hazard, this should be done property.	8	Figh	HSE Engineer, Site Inchange, Site Construction Manager, Project Manager	Imm
RD 6+300 Km posas a high risk to lelimina the visitors passing on the road,	The mixing machine should be placed on extreme corner of the road so that the commuters may not be disturbed and also eliminating the risk of accidents	ner of the and also	Hgh	HSE Ergineer Site Incharge. Construction Manager Project Manager	Immediate
The excavation works on the culvers. The st nave taken more than 70 % space of signage existing road instead of taking 50 % be plain in accordance with the Traffic. The off Management Plain. This factor reflect becomes the bottleneck at the Forne culverts and posses the risk of traffic should jam and accident.	The shoulders have to open in order to ease in traffic. Further the signage of Hazard Warning Spead Slowly and Speed Limit should be placed before culverts in range of 500 to 100 meters. The contractor should depute the traffic control persons, with reflectors in order to avoid traffic jam and accidents. For next excavation for new culverts, the maximum of 80-40 ratio should mantained with shoulders to be opened at non-active site.	urther the mit should sons, with sons with the site.	High	HSE Engineer Site Incharge, Construction Manager, Project Manager	1 week (Signage) 3 Weeks (Shoulders) Immediate (Traffo Warden)
Signature of Authorized Persons			0) C N. 1.	**************************************
Financial designation of the companies o	LCB Spyle 37 for 2 ACB Spyle 37 for 2 AC ELITAR SCHM	Constitution of the state of th	S 2 2 2	+-	7 30/2/2019

s been The safety agin boards holduling Hazard Waming, PPEs, clean In. The environment, the exchiquishers and assembly contast should be all series all series plane at the concert back thing plant The safety agin boards holding Hazard Waming, PPEs, clean In. The environment, the exchiquishers and assembly contast should be all series all series The safety agin boards holding Hazard Waming, PPEs, clean In. The environment, the exchiquishers and assembly contast should be all series The safety once to transing TFI to aware staff and workers Thousekeeping, concert transing TFI to aware staff and workers Thousekeeping, concert transing TFI to aware staff and workers Thousekeeping, concert transing TFI to aware staff and workers Thousekeeping once to treat superficial njoines that don't be construction Manager Thousekeeping and also provides information about nearby by construction Manager Thousekeeping and also provides information about nearby by construction Manager Thousekeeping with the transparency and also provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than provides information about nearby by construction Manager Thousekeeping than any series of the provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than and also provides information about nearby by construction Manager Thousekeeping than and also provides information and the transition and the trans	s been The safety agin boards holduling Hazard Waming, PPEs, Clean High HSE Engineer, Site Inchange Fonce of Manager, Inchange In	CAP Corrective Action Plan				
s been The safety agn boards including Hazard Weming, PPEs, clean In The environment, fire exhigatishers and assembly comts should be construction Manager, planed at the concast batching plant construction as are not maken by the concast should mainly maken both plants will works. HSE engineer should mainly maken both plants will work and will mitigate all each rin seen events. And this should be filted and readily available on active increases and as all times to treat superficial myuries that don't project Manager. Project Manager increases to make and also provides information on active increases to make and also provides information about nearby by construction Manager. And the Emergency attaction manager increases that provides information on active increases to make and also provides information on active increases. It is at the emergency acts and also provides information on active increases to construction Manager. And the Engineer Site Immediate Site Investment in the project Manager. And the emergency acts and also provides information about nearby by increases the manager includes the project Manager. And the emergency acts and also provides information about nearby by increases the manager increases to make a manager in the project Manager. And the emergency mumber should be alacced that provides information about nearby by increases to make a manager in the project Manager. And the emergency acts and also provides information about nearby by increases to make a manager in the project Manager. And the emergency acts and also provides information about nearby by increase the manager. And the emergency acts and also provides information about nearby by increase the manager. And the emergency acts and also provides information and the emergency and the emergency and the emergency and	s been The safety sign boards including Hazard Waming, PPEs, clean In The environment, fire excinguishers and assembly bornts should be all after placed at the concert backing plant In The environment, fire excinguishers and assembly bornts should be blacked and readily available on active In the Prist aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits should be blacked that provides information on active In the First aid kits are all threads and active active and active and active a	Environmental fissues	Measuras and Consetive Actions	Significance	Responsibilities	Timeline
s been The safety sign boards including Hazard Weming, PPEs, cean High HSE Engineer, Site 1 Weel as all allers and assembly comes should be allered blanching plant. In The environment, fire exchiguishers and assembly comes should be allered blanching plant. In The Housekeeping, concust; training/TBT to aware staff and workers about safe work and will works. HSE engineer safe and includes a serior to an will mitigate all seen in seen events. In the First aid kits should be fully stocked and readily available on active. High HSE Engineer Site Imme includes all linear to treat superficial niques that don't seen events. In the First aid kits should be character and all construction manager. High HSE Engineer Site Imme includes all seen in seen available on active. High HSE Engineer Site Imme includes all seen are seen as a s	is been The safety agin boards including Hazerd Werning, PPEs, cean High inchange. Site alialets planed at the concert backing blant constituted by a service with works. HSE engineer should the annual seventhal safety oncore; training plant concert backing plant service will work and will militate all seen un seen avents. A stenot When both plants with works HSE engineer should mainteer should a maintain in the first aid kits should be fully stocked and readily available on active. High HSE Engineer Site inchange. A stenothant require emergency attention. A st the Emergency mumber should be placed that provides information on manager inchanger. The emergency acts and also provides information about nearby by construction Manager. A st the Emergency mumber should be placed that provides information about nearby by construction Manager. A st the Emergency mumber should be placed that provides information about nearby by construction Manager. A st the Emergency mumber should be placed that provides information about nearby by construction Manager. A st the Emergency mumber should be placed that provides information about nearby by construction Manager. A state Management (LES-SPRING), LEST Management (LES-SPRING), Manager management (LES-SPRING), LEST Management (LES-SPRING), Manager management (LES-SPRING	Batching Plant				
s are not. When both plants will works, HSE engineer should maintain housekeeping, concluct training/TBT to awars staff and workers in the housekeeping, concluct training/TBT to awars staff and workers in the housekeeping, concluct training/TBT to awars staff and workers in the housekeeping, concluct training/TBT to awars staff and workers in the housekeeping, concluct training/TBT to awars staff and workers in the first aid kits should be fully stocked and readily available on active. High HSE Ergineer Site Imme house to grave at all linear to treat superficial injuries that don't construction Manager. High House to add the placed that provides information on moderate. High High Registration manager is at the Emergency number should be placed that provides information about nearby by Construction Manager. Project Manager. Construction Manager. Project Manager. Project Manager. Construction Manager. Project Manager. Project Manager. Project Manager. Construction Manager. Project Manager	Surehot When both plants will works, HSE engineer should maintain housekeeping, concinc training/TBT to aware staff and workers about safe work and will mitigate all seen un seen events. High First aid kits should be fully stocked and readily available on active. High HSE Engineer Site construction manager project manager and as the Emergency attention. High HSE Engineer Site construction manager houses to mergency attention. High HSE Engineer Site construction manager house and as provides information and manager. Register manager construction manager in the manager hopital. High HSE Engineer Site construction manager hopital. Moderate HSE Engineer Site incharage. Construction manager. Project Man	No signage for safety has been blaced at the barching plant. The safety signs present the critical alerts can head to disastrous situations if it is not present.		High	HSE Engineer, Site Incharge. Construction Manager, Project Manager	9 ()
If the First aid kits should be fully stocked and readily available on active high High High construction are at all times to treat superficial injuries that don't require emergency attention. I posse a resignation of active interpretation and asso provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information about nearby by construction manager in the mergency axis and also provides information and axis provides information a	If the First aid kits should be fully stocked and readily available on active high require emergency attention. It pose is negency number should be blaced that provides information on services to emergency axis and also provides information about nearby by construction Manager itself. It is nearest that the first service in the serv	Asphalt and Batching Plants arenot in working condition.	5107000040	No	HSE Engineer Site Inchange. Construction Manager. Project Manager	Action taken when plant operated
And at the Emergency number should be blaced that provides information on active. High horange, construction site at all times to treat superficial injuries that don't horange, construction manager needs to dat the Emergency number should be blaced that provides information on moderate incharge. Construction Manager is the mergency axits and also provides information about nearby by construction manager. Incharge, construction manager. Incharge incharged in the mergency axits and also provides information about nearby by construction manager. Incharge incharged incharge	At the Emergency attention. The Emergency number should be placed that provides information and the emergency attention. At the Emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency number should be placed that provides information and the emergency and also provides information and the emergency and the emerge	Camp Srie				
mber posted at the Emergency number should be placed that provides information and information about mearby by resolvency death and also provides information about mearby by resolvency hospital. Application of the provides information about mearby by resolvency hospital. Project Manager. Project	at the Emergency number should be placed that provides information on Moderate HSE Engineer Incharge. First hospital. Project Manager Project Manager Resident Engineer (14) Resident Engineer (14) Figure 1 Annager (14) Figu	Only oneffrst aid box is present in the camp area. No first aid wasavasiable for field staff. This is important because the workplace bould pose it fisk of causing injury or illness to workers and staff.		Hgh	Ergincor ge, ruction Mahag t Manager	Immeclate
For an Leader Engineer (RE) Resident Engineer (RE) Project Manager Resident Engineer (RE) Resident E	The state of Engineer (19) The state of the Engineer (19) The	No emergency number posted at the campsite and no information displayed for the nearby hospital.		Moderate	Engineer ige, ruction Manag st Manager	1 Week
Test Management (CB-SPRF-07-107) (CB-SPRF-17-107) (CB-SPR	For this ingenient (1) SPR in the First	ignature of Extherized Person				
Assignment CB-SPRP-07 (CT costs/HT) CT costs/HT) CT consultant prof. (CF costs/HT) CT consultant prof. (CF costs/HT) CT consultant costs/HT) consultant costs/HT costs/HT consultant costs/HT	Consultant (PRO) (CT Anside No. 1997) Project Management (CP PRO) Project Management (CONSULTANT) Consultants (PRO) Consultants (PRO) Consultants (PRO) Environmental (MS) Project Management (MS) Project MS) Project MS Project MS Project MS Project MS Project MS Project	N/A	The William with the state of t	Ya	1. S.W.	20/12/2
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Project Management Consultant Sindh Provincial Roads Improvement Project



NECONOMICS IN ASSOCIATION WITH THE UNAR MUNSHI ASSOCIATES



PMC-SPRIP-SV16-001/07-LOT-2/2366

Dated: December 23, 2019

Project Manager ICB-07: LOT-2

M/s Jiangsu Haitong Construction Engineering CO Ltd in (JV) with M/s Nauman Construction Company & M/s Shah Builders

Office No. 17, 2nd Floor Al-Hameed, Shooping Mall, G-11 Markaz Islamabad

SUB:

ADB - ASSISTED, SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT (SPRIP) LOAN NO 3305-PAK.

ICB-07: LOT-2 SEHWAN RAILWAY CROSSING (N-55) TO DADU VIA TALTI UPTO DADU - MORO ROAD SECTION (32 KM)

COMPLIANCE STATUS REPORT (CSR)

Ref:

This office Letter No. PMC-SPRIP-SV16-001/07-LOT-2&3/2355 dated 20-12-2019

According to the Corrective Action Plan (CAP) sent earlier, many of the noncompliances have being solved. However, many critical issues have not been solved yet as mentioned in Compliance Status Report (CSR).

You are directed to make sure the compliance of the mentioned shortcomings and report its status to RE.

The RE is also intended to enforce the compliance (CSR) and report to PMC.

It is also informed to you that without compliance of environmental conditions as mentioned in SSEMP, the work will be stopped under ADB safeguard policy.

Waiting for your promote response.

Im, Soung Bin Team Leader

For, Project Management Consultants (SPRIP)

Hyderabad

Encl: As Above

Cc.

> Project Director (PMU-SPRIP) Works & Services Department, Hyderabad

XEN (Lower) Division (PMU-SPRIP) Works & Services Department, Hyderabad

Resident Engineer-II, Sukkur

Mr. Sameen Khokhar Environmental Specialist (PMC-SPRIP), Hyderabad

Head Office: Bungalow No. 109, Sindhi Muslim Housing Society, Qasimabad Hyderabad Phone: 022-2102772, 022-2102992, Email: pmc.sprip@gmail.com

Compliance Status Report on Corrective Action Plan

COMPLIANCE STATUS REPORT (CSR)

O

CORRECTIVE ACTION PLAN (CAP)

SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT

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PACKAGE: ICB-7 LOT-2 SEHWAN TO DADU ROAD VIA TALTI (32 KM)

Compliance Status Report (CSR)

The PMC's Environmental Specialist visited the package LOT-2 on 15th November, 2019 in which some of the issues related environmental compliance, 11SE, site management and road safety were raised.

2

Based on the site visit and meeting with the confractor's management of LOT - 2, the following time-based Corrective Action Plan (CAP) has been prepared by prioritizing the key issues, significance, description of recommendations and responsibilities. It was agreed during the meeting that the Contractor shall resolve all the issues within the timeline given and environmental specialists shall actively monitor the compliance. In order to check the Compliance Status of CAP, the Environmental Specialist again visited the ICB-07, LOT-2 on 21*December, 2019, This report has been prepared after the visit with respect to the CAP.

Compliance Status against each condition of CAP is given as under-

		Timeline	aution and 1 Week Index of the od in range site. all active.	should be Slowly and 1 Week 60 to 100 tructed but sed on the ctors.	on tape in Immediate remove by dump site	ony. Amer of the Immediate 1 and also
i Corrective Action Plan	ga-07, LOT-2	Measures and Corrective Actions	Safety Signs e.g. construction works ahead, caution and Speed Slowly should be placed at start on both ends of the road. The safety signs of Construction Works Ahead, Cautions, Speed Slowly and Speed Limit should also be placed in range of 500 to 100 meter before every active construction site. The site salety signs including wearing helimits, safety shoes and protective dothing should also be placed at all active construction sites.	All safety signs have adequate illumination and size should be appropriate for intended viewing from the distance. The sign boards including Hezard Warning, Speed Slowly and Speed Limit should also be placed in range of 500 to 100 meter before the bridge. The bridge at RD 6+280 to 6+300 has to be reconstructed but at this stage to bring safety for traffic to be passed on the bridge, the bridge should be cordon off with the reflectors. The traffic control wardons should be positioned with reflectors at both ends of bridge in order to have better traffic paramagnature.	The sleed dowcles should be cordon off with caution lape in order to avoid any accident. It is best whore steel dowels are present should be remove by cutting it off or by properly finishing. Catting it off or by properly finishing.	The mixing machine should be placed on extreme conter of the road so that the commuters may not be disturbed and also eliminating the risk of accidents.
CSR Compliance Status Report on Corrective Action Plan	Compliance Status Report (CSR) for Package-07, LOT-2	Environmental (sques	Decimantation Safety signs are not present on entire length of the road. The safety signs on roads and active construction sites are critical and lead to the fatal accident if not present.	The HSE conditions of the bridge at RD 54042 and 6+280 To 6+300 km are very unsatisfactory. The traffic also has bottle neck to pass from the bridge which may have risk of road accidents.	Steel dowels and open excavation is observed and unattended at RD 2+970 km. Borrow area & material dump has not been properly fenced.	Mixing Machine was placed and working in the middle of the road at RD 8+300 Km posos a high risk to the visitors possing on the road.

Some

Completed

Environmentalissues	Measures and Corrective Actions	Timbline	Compliance Status
road instead of taking 50 % in accordance with the Traffic Management Plan. This factor becomes the bottleneck at the culverts and posas the fisk of traffic Jam and accident.	should be placed before culverts in range of 500 to 100 meters. The contractor should depute the traffic control persons with reflectors in order to avoid traffic jam and accidents. For hext excavation for new culverts the maximum of 60-40 ratio should maintained with shoulders to be opened at non-active site.	3 Weeks (Shoulders) Immediate (Traffic Warden)	
Batching Plant			
No signage for safety has been placed at the balching plant. The safety signs present the critical alerts can lead to disastrous situations if it is not present.	The safety sign boards including Hazard Warning, PPE's, clean environment, fire extinguishers and assembly points should be paced at the concert batching plant.	1 Week	
Asphalt and Batching Plants are not in working condition.	When both plants will works. HSE engineer should maintain housekeeping, conduct training/TBT to aware staff and workers about safe work and will mitigate all seen un seen events.	Action taken when plant operated	
Campsite			
Only one first aid box is present in the camp area. No first aid was available for field staff. This is important because the workplace could pose a rick of causing injury or liliness to workers and staff.	First aid kits should be fully stocked and readily available on active construction site at all times to treat superficial injuries that don't require emergency attention.	Immediate	Completed
No emergency number posted at the campsite and no information displayed for the nearby hospital.	Emergency number should be placed that provides information on emergency exits and also provides information about nearby by hospital.	1 Week	
No containment was present for the diesel rank which may cause risk of the oil spill and pose a threat to health safety and ervironment.	Oil containment in form of concrete or Molten Steel plates should be constructed beneath the furnace oil tank. The containment has at east capacity of 50% storage capacity with respect to the diesel oil tank.	3 Wooks	Completed
Ruad Site			
Steel dowels and open excavation is	The steel dowels should be curdon off with caution tape in	3 days	Completed

	Compliance Status		D	70	240 8	Page 7
	Complia		Completed	Completed		
	Timeline		3 Weeks	Immodiate	027	
on Corrective Action Plan	Measures and Corrective Actions	order to avoid any accident. It is best where stool dowels are prosent should be ramove by cutting it off or by properly finishing. Rubboning of fencing of borrow area and material dump site reduces the risk of hazard, this should be done properly.	The mixing machine should be placed on extreme corner of the road so that the commuters may not be disturbed and also eliminating the risk of accidents.	The shoulders have to open in order to ease in traffic. Further the signage of Hezard Warning, Speed Slowly and Speed Limit should be placed before culverts in range of 500 to 100 motors. The contractor should depute the traffic control persons with reflectors in order to avoid traffic jam and accidents. For next excavation for new culverts the maximum of 60-40 ratio should maintained with shoulders to be opened at non-active site.		The second of the SEries to be the form of the first part of the second
CSR Compilance Status Report o	Errytonmantal Jesuas	observed and unattended at RD 2+970 Km Borrow area & material dump has not been properly fenced	Mking Machine was placed and working in the middle of the road at RD 6+300 Km passes a high risk to the visitors passing on the road.	The excavation works on the culverts have taken more than 70 % space of existing road instead of taking 50 % in accordance with the Traffic Management Plan. This factor becomes the bottlenack at the culverts and poses the risk of traffic jam and accident.		

Package - 07 LOT 3

Project Management Consultant Sindh Provincial Roads Improvement Project



in association with



PMC-SPRIP-SV16-001/07-LOT-2&3/2355

Dated: December 20, 2019

Resident Engineer-II Sukkur / Dadu

SUB:

ADB - ASSISTED, SINDH PROVINCIAL ROAD IMPROVEMENT PROJECT (SPRIP) LOAN NO 3305-PAK.

ICB-07: LOT-3 JEHAN KHAN TO FAIZU LARO VIA CHAK RUSTAM ROAD SECTION (29.1 KM)

ICB-07: LOT-2 SEHWAN RAILWAY CROSSING (N-55) TO DADU VIA TALTI UPTO DADU - MORO ROAD SECTION (32 KM)

CORRECTIVE ACTION PLAN (CAP).

Enclosed please find herewith a copy of Corrective Action Plan (CAP) duly signed by the Contractor and PMC to be implemented at site as agreed with PMU and ADB during inspection of the respective packages for immediate necessary

Please advise the contractors concerned under your jurisdiction for immediate implementation of the corrective action plan on top priority basis.

Im, Seung Bin Team Leader

For, Project Management Consultants (SPRIP) Hyderabad

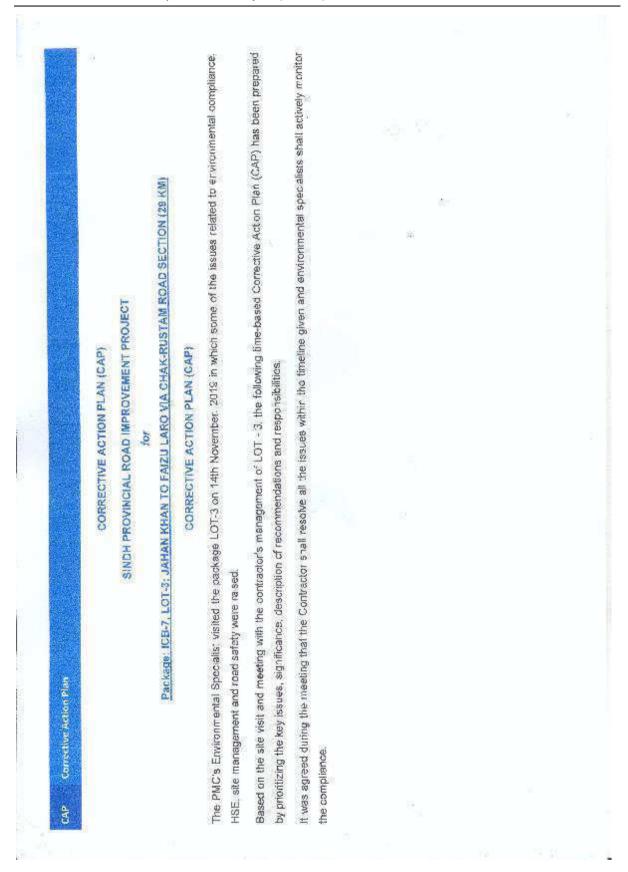
along with copy of enclosure to:

- Project Manager ICB-07- LOT-02
- ➢ Project Manager ICB-07- LOT-03

Copy for information:

- Project Director (PMU-SPRIP) Works & Services Department, Hyderabad
- XEN (Upper) Division (PMU-SPRIP) Works & Services Department, Hyderabad
- > XEN (Lower) Division (PMU-SPRIP) Works & Services Department, Hyderabad
- Mr. Sameen Khokhar Environment Specialist (PMC-SPRIP) Hyderabad

Head Office: Bungalow No. 109, Sindhi Muslim Housing Society, Qasimabad Hyderabad Phone: 022-2102772, 022-2102992, Email: pmc.sprip@gmail.com



	Responsibilities Timeline		HSE Engineer Dally	HSE Engineer Weakly	HSE Engmaen. Ste. 1 Week. Incharge.	HSE Engineer, 1 week (Signage) Project Manage*	_	11分	Project Managemen Project Management On Inhig. Consolar te vince: Mass Gold Team Leader Myder floan		
	Significance		High	High	Moderate	Гом		E 7			
LOT3	Measures and Corrective Actions		Project Manager has to strictly instruct the contractor environment engineer to fill reports as per the requirements of the PMC and be in continuous contact PMC Environment Specialist.	Project Manager should have a meeting with PMC Environment Specialist & own environment to get mutual understanding on raport format PMC EE has guided the contractor engineer in filling reports.	The copy of SSEMP must be available for ready reference at camp a ready unfortunately at a time wish was not there. HSE Engineer should have been given one table there anything related to HSE is pleced.	The Missing Emergency numbers should be posted.		A COM	mander in the Septiment (CB SERP Pull International Processing Processing Processing CB Septiment (CB Septiment CB Septime		
Corrective Action Plan (CAP) for Package 07 LOT-3.	Environmental tesues	Documentation	Status of Dally Environment chacklist is not updated.	Wookly Reports are not as per schodulas	Capy SSEMP is not provided at the campate	Emergancy Numbers (some are not depicted)	Signature of Authorized Person		Project Management Convolution (PMC) Convolution (PMC) Hydroctor Management (M	Jacks Perchand Read Proprovensió (cores Pediable de 101-1, fande Allenbarts Chamber Boud Sudintegra Perl	

Quarterly Environmental Effects Monitoring Report of Lot-2, Sehwan-Dadu-32 km



Analysis Rep	ort	Repo	rt#SE	S/ENV/Dec/	19/00235	45-C	Date: 1 Jan 20	20	
Descriptio	n	250				8	130	M	
Quantity of samp	Quantity of sample			pling Metho	ing Methodology Grab		Job Date	26 Dec 2019	
Analysis Type	-	Chemical Ana	Samplin	g Location		Camp Site			
Coordinate	N I	26° 31' 21.2" N 67° 51' 21.3" E			R	D	300000000		
	M/s JSI Venture	IT-NCC-SB (Joint	Address	Nemat Allah House Khamisho Khan Buladi Care Color Near Govt High School Schwan				

Drinking Water Test Report

5#	Parameters	Units	Testing Method	SEQS Limits	Result	Remarks
01	Total Bacteria Count	TBC (count/ml)	Total Viable Count		12	WI.
02	Total Coliform	TC (count/ml)	APHA 922 B	0/100 ml	Nil	Wi.
03	E-Coh	E col(count/ml)	Total Viable Count	0/100 ml	Nil	WI.
04	Facial Coli	F C (count/ml)	APHA 922 B	0/100 ml	Nil	WL
05	pH @ 25 °C	pH	ASTM D-1293	6.5 to 8.5	8.10	W1.
06	Taste	Taste	Sensory Evolution	Objection/Non Objection	Non- Objectionable	WI.
07	Odour	Odor	Sensory Evolution	Objection/Non Objection	Non- Objectionable	WL
08	Colour	TCU	Pt-Co Method	<15 TCU	<5	WL.
09	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	≤1000°	185	WI
10	Fluoride	F (mg/L)	Lovibond Spends Regent Method	1.3	0.11	WL
11	Chloride.	C1 (mg/L)	ASTM D-512	2500	98.7	WL
12	Turbidity	NTU	Lovibond Attenuated Radiation Method	-5	BDL	WL
13	Total Hardness as COCO3	T.Hard (mg/L)	ASTM D-1126	/ARA	BDL.	WI.
14	Nitrale	NO3(mg/L)	LovibondChromotropic Acid	50)	0.56	WE
15	Nitrite	NO2 (mg/L)	Lovobond N-(1 Nephhyle)-ethlenediamine Method	3	0.08	WE
16	Chromium	Crb (mg/L)	Lovibond 1,5 diphenyl- Carbonhydraze Method	20000	ND	WL
17	Copper	Co-(mg/L)	LovibondBigunoline Method	2	<0.01	WE
18	Manganese	Mn (mg/L)	Lovibond PAN Method	0.5	ND	WL
19	Boron	B (mg/L)	LovibondAzomethine Method	0.3	ND	WI.
20	Aluminum	AP(mg/L)	ASTM D- 857	0.2	0.002	WL.
21	Niekel.	Ni ² (mg/L)	LovobondDimethylglyoxime Method	0.02	ND	WI.
22	Selenium	Se f(mg/L)	APHA 4500 sb	0.01	ND	WI.
23	Residual chiorine	Cl:(mg/L)	Lovibond DPD		ND	WE
24	Aptimony	Sh (mg/L)	APILA 3111 -sh	0.02	ND	WI.
25	Barium	Ba2 (mg/L)	ASTM D-3651	0.7	0.001	WI.
26	Cadmium	Cd-(mg/L)	ASTM D- 3557	0.003	ND	WL
27	Cvanide	CN (mg/L)	APHA 4500 CN	0.07	ND	WL.
28	Mercury	1102	Kit Method	0.001	ND	WL.
29	Load	Pb12 (mg/L)	ASTM D- 3559	0.01	ND	WL.
30	Phenolic Compounds	Phol (mg/L)	ASTM D- 1783	0.02	<0.01	WŁ.
31	Arsenic	As (mg/L)	Merek Kit Method	0.01	ND	WL
32	Zinc	Zn ** (mg/L)	LovibondZincon Method	3	0.04	Wi.

Head Office: Plot # S-T-47, Sector 24, Near Shan Chorang Korang Industrial Area Karachi Pakistan Mob: +92(0)346-2225261, 0333-2699016 Tel # 02135121125; E-mail: info@sespaklab.com, www.sespaklab.com

Sustainable Environmental Services - M/S JSHT-NCC-SB (JV)

Page | 31