Environmental Monitoring Report

Project Number: 44482-025
Bi-annual
June 2020

Grant -0422- AFG: Transport Network Development Investment Program, Tranche 4

(Construction of Baharak Eshkashim Road)

Prepared by

Ministry of Public Works (MPW, previously Ministry of Transport).

د افغانستان اسلامی جمهوریت – جمهوری اسلامی افغانستان
د ټولګټو وزارت فوایدعامه
ISLAMIC REPUBLIC OF AFGHANISTAN
MINISTRY OF PUBLIC WORKS
PROGRAM MANAGEMENT OFFICE (PMO)
د آسیایی پراختیا بانک د کړنلارو د سمبالښت دفتر
دفتر تنظیم برنامه های بانک انکشاف آسیایی

URGENT ☐ IMPORTANT ☐ CONFIDENTIAL ☐ REF. NO: 1108/1108 DATE: 4/Oct/2020

ENCLOSURE ☐

To: **Mr. Dong-Soo Pyo,**
Director
Transport and Communications Division, CWRD
Asian Development Bank

Subject: MFF-Transport Network Development Investment Program, Tranche-4 and Ring Road (Qaisar Laman Section-2) Government Endorsement of Semi Annual Environmental Monitoring Reports (January-June 2020)

Dear Mr. Pyo,

PMO/MPW hereby, approves the SAEMRs (Semi-Annual Environmental Monitoring Reports for January-June 2020 session of the following road projects:

1- Baharak Eshkashim, Tranche 4
2- Ring Road, Qaisar Laman Section 2

The aforementioned Semi-Annual Environmental Reports have been prepared based on ADB safeguards Statement requirement and Environmental Laws of Afghanistan.

This cover letter along with the original (hard) copies of the subject SAEMRs are hereby attached for ADB's record as well as public disclosure through ADB website.

Sincerely yours,

Ahmad Basit " Payab"
Acting Director
Program Management Office (PMO)
Ministry of Public Works (MPW)

Enclosures:

1. This Semi-Annual Environmental Monitoring Reports (of 2 road sub-projects).

Ministry of Public Work

TRANSPORT NETWORK DEVELOPMENT INVESTMENT PROGRAM

Project ID: NPA/MPW/94/CS-OO25/QCBS

Reporting Period: January - June, 2020

AFGHANISTAN: Transport Network Development Investment Program, Tranche-4 (Baharak - Eshkashim (108 Km) Road Construction Project

Semi-Annual Environmental Monitoring Report

Financed by: The Asian Development Bank (ADB)

Prepared by: Engineer Noorullah Stanikzai (DONGUNG Engineering Co .Ltd.) Kabul-Afghanistan

Submitted to: Ministry of Public Work MPW/PMO Asian Development Bank (ADB)

Endorsed By: Mr. Salah uddin “Kabeer” (Safeguard Coordinator) Program Management Office (PMO / MPW).

Submission Date: 30-June 2020

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Abbreviations

ADB	Asian Development Bank
CSC	Construction Supervision Consultant
ESIA	Environmental Social Impact Assessment
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EPP	Environmental Protection Plan
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IEE	Initial Environmental Examination
IRoA	Islamic Republic of Afghanistan
LARP	land Acquisition and Resettlement Plan
MOT	Ministry of Transport
NEPA	National Environmental Protection Agency
NTP	Notice to Proceed
PCC	Cement Concrete Pavement
PCCP	Portland cement Concrete Pavement
PD	Program Director
PM	Project Manager
PMO	Program Management Office
PPE	Personal Protective Equipment
ROW	Right of Way
PMCS	Project Management Consultancy Supervision
MFF	Tranche Financial Facility
UM	Units of Measurement
cm	Centimeter
°C	Degree Celsius
Ha	Hectares
hr	Hour
Kg	Kilogram
Km	Kilometer
M	Meter

1. INTRODUCTION

1.1 Preamble

1. This document is the semi-annual environmental monitoring report (SAEMR) for tranche - 4 of Baharak - Eshkasham 108 Km Rehabilitation and Construction Road Project prepared by the construction supervision consultant (DONGUNG Engineering Co .Ltd.). The Preparation of environmental monitoring reports is part of supervision duties as stipulated in the Initial Environmental Examination (IEE) and Contract documents, as a part of the contract between the Ministry of Transport and DONGUNG Engineering Co .Ltd, which is the Supervision Consultant on the above-mentioned project. The IEE requires environmental monitoring reports to include environmental monitoring activities undertaken, details of monitoring data collected, analysis of monitoring results, recommended mitigation measures, environmental trainings conducted and environmental regularity violations.
2. The project road is located in North-Eastern part of Afghanistan and passes through the Baharak, Warduj, Zebak and Eshkashim districts of Badakhshan province. The total length of project road is 108 km and it starts from Arder village (Km 0+000) and ends traversing major settlements of Baharak, Arder, Adam Beki, Poshusstan, Oshkhan, Wahil, Murkhan, Passebagh, Chakaran, Zu, Ekshire, Kosang, Tigaran, Gulkhana, Dashte Khan, Dandzebok, Razrak, Netsunh and finally ends at Eshkashim (Km 108+000). Location Map of the project is provided in **figure 1** and **2**.
3. The Executive Agency (Client) is the Ministry of Transport (MOT). Project Management Office (PMO), sub-body of the MOT, undertakes the direct supervision of project implementation.
4. The Construction Contractor of this project is OZDEMIR-RACC, contract specification clearly states requirements of the Contractor concerning environmental protection for the implementation and decommissioning of construction roads, construction facilities, quarries, borrow pits and storage areas
5. This is the 5th Semi-annual environmental monitoring report of the project covers all environmental monitoring activities for the period of January to June 30, 2020, and briefly describes the progress of the project and the environmental issues since start of construction activities on site. In first two month of the year (January and February) due to snow cover and cold weather there was not any construction activities at project site.

2.1 Headline Information

6. The Purpose of this Semi Annual Environmental Monitoring Report is to provide;
    - Appling All Environmental Requirements at construction site.
    - Identifying the medium-high risk activities and measures to avoid, mitigate and/or manage those risks and impacts.

- Monitoring and reporting of that process to ensure it is effective and meeting the desired results.

7. The project will provide efficient, reliable and affordable transport infrastructure and services, thereby increasing economic growth potential of urban and rural communities. Some of the expected benefits from the construction and rehabilitation of the highway are as follows:

    - The improvement of the road will have positive effects for inter-regional, inter-provincial and inter-national, commercial and trade routes in the regions of the country.
    - Contribute to the economic growth and poverty reduction.
    - Improved access to health, education and other social services.
    - Construction of new highway will create short and long-term employment opportunities for the people.
    - Improvement of the transport system will provide commercializing and interchanging the agricultural products.

8. The project will involve but not limited to the following:

    - Establishment of a permanent project office building and residential accommodations at the project site
    - Earthworks and sub-grade preparation
    - Rock excavation
    - Culverts and Bridge Construction
    - Protection works
    - Sub-base and crushed aggregate base course
    - Asphalt concrete (ATB, binder course, and wearing course)
    - Road furniture and road markings, and
    - Community development subprojects and environmental improvements along the route.

Figure 1: Project Location Map

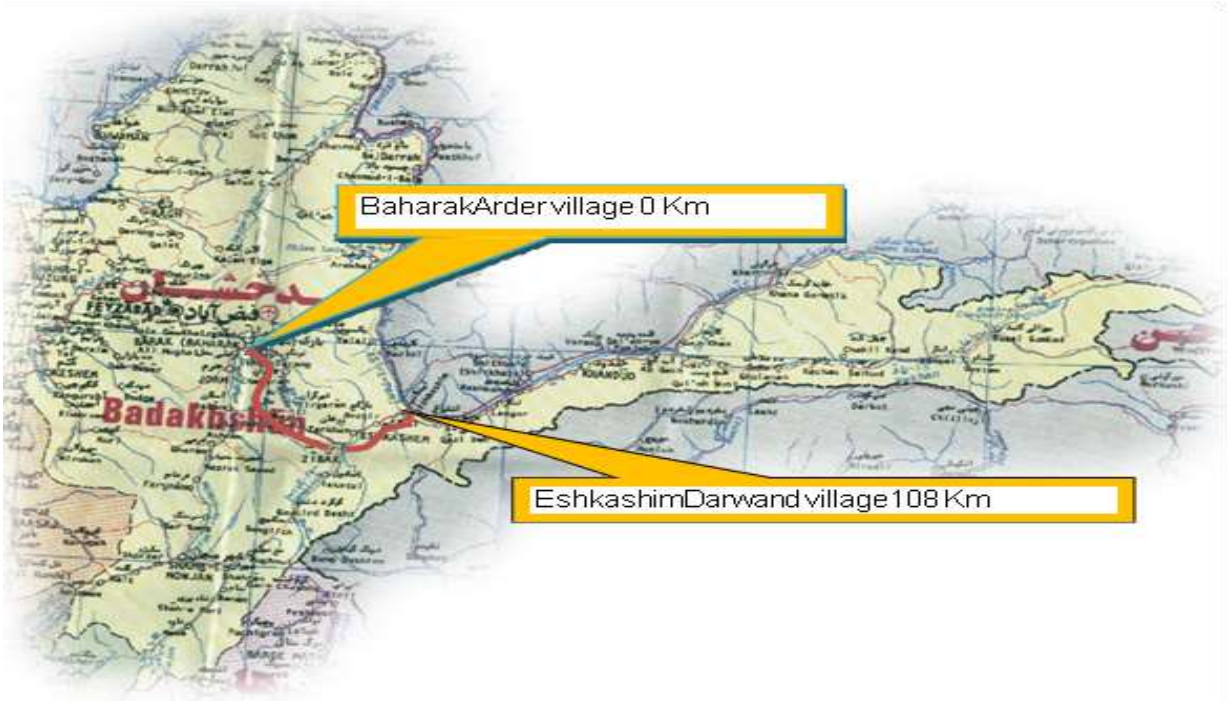
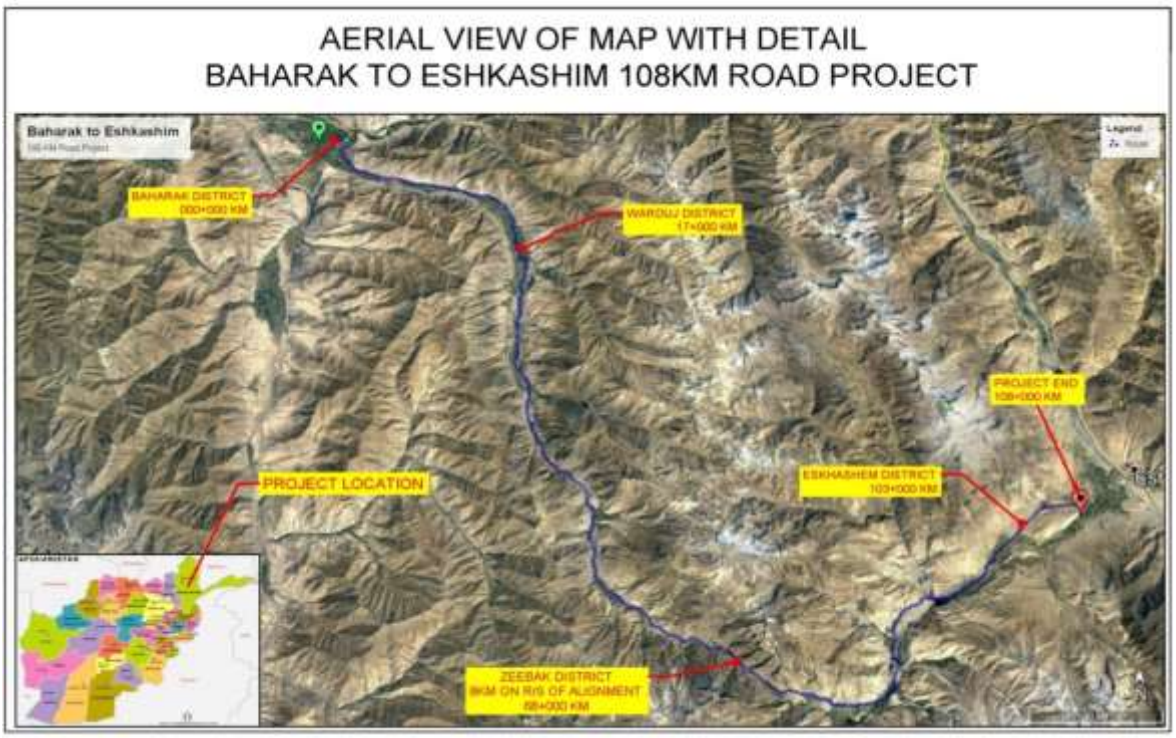


Figure 2: Aerial Map of Project Location



2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

9. The Ministry of Transport (MOT) is implementing a number of highway projects funded by the Asian Development Bank (ADB) that involve the design, rehabilitation and reconstruction of priority sections of the nation's transport network. The Asian Development Bank (ADB) has agreed to provide the Government of Afghanistan with a Multi- Tranche Financial Facility (MFF) for the Transport Network Development Investment Program, Tranche 4 of program covers the construction of the Baharak - Eshkashim (108km) Road Project , project involved detail is shown in table 2.

10. The Executing Agency for the Project is the Ministry of Transport (MOT) and the Implementing Agency is the Project Management Office (PMO) with the Director General having overall responsibility for the Project implementation. A Project Director (PD), maintained within PMO, is responsible for overall coordination, monitoring and construction implementation. The Project Manager is responsible for day-to-day implementation of the construction works and for reporting to the PD.

11. International and JV Consultants namely Dongsung Engineering Co. Ltd., Soosung Engineering Co. Ltd. & Development Design Consultants Ltd. has been appointed as the consultants (For PMCS consulting services) of the Project. The Contractor, RAUF AZIZ Construction Company and OZDEMIR Construction Tourism Energy Industry & Trade Inc. JV are selected for the design and construction of the Project.

12. Baharak-Eshkashim Road Project is located in North-Eastern of Afghanistan passes through the Baharak, Warduj, Zebak and Eshkashim districts of Badakhshan province. The proposed road off- takes from Arder village, Baharak and heads South and South-East for 108 km to Eshkashim, utilizing the route of the existing earthen and gravel track. The major settlements located along the Project are Baharak, Arder, Adam Beki, Poshusstan, Oshkhan, Wahil, Murkhan, Passebagh, Chakaran, Zu, Ekshire, Kosang, Tigaran, Gulkhana, Dashte Khan, Dandzebok, Razrak, Netsunh and Eshkashim.

2.2 Project Contract and Management

13. The summary of the contract package awarded to Contractor M/S RAUF AZIZ Construction Company and OZDEMIR Construction Tourism Energy Industry & Trade Inc. Contract details are mentioned in table 1 as below.

Table 1 Contract details of the project

Contract Length	Contract ID Number	Contract Amount in US $	Award Date
Km 0+00 to 108+00 (108 Km)	NPA/MPW/94/ICB/W-006	98,813,274.61	15 Nov., 2016

14. Environmental Management system is carried out by Contractor (Ozdemir cum Rauf Aziz Construction Company) in closed consultation with the consultant firm (DONGUNG Engineering Co .Ltd.) and Environmental and social safeguard unit at project management office (PMO), Ministry of Transport (MOT). Main organizations environmental safeguard staff involved in the project is presented in table 3.

15. Mr. Salah uddin “Kabeer” (Safeguard Coordinator) at Ministry of Public Work MPW/PMO, Mr. Noorullah Stanikzai is a representative in Environment issues with consulting firm DONGUNG Engineering Co .Ltd, Mr. Nadir is contractor environmental specialist.

16. The contractor Environmental Officer is responsible to maintain all the environmental measures at the site on daily bases. The Construction Supervision Consultant Environmental Specialist regularly visited the project sites on daily basis as well as at the minimum of once a week for environmental inspection like heavy equipment inspection, dust and noise pollution, waste management, safety kits etc. details of site inspection is provided in table 7.

17. Environmental Management safeguard staff involved in the project is shown in table 3 and the organizational structure for the Monitoring is shown in the following organization chart, **Figure 3**.

Figure 3: Organizational Structure for the Environmental Management / Monitoring

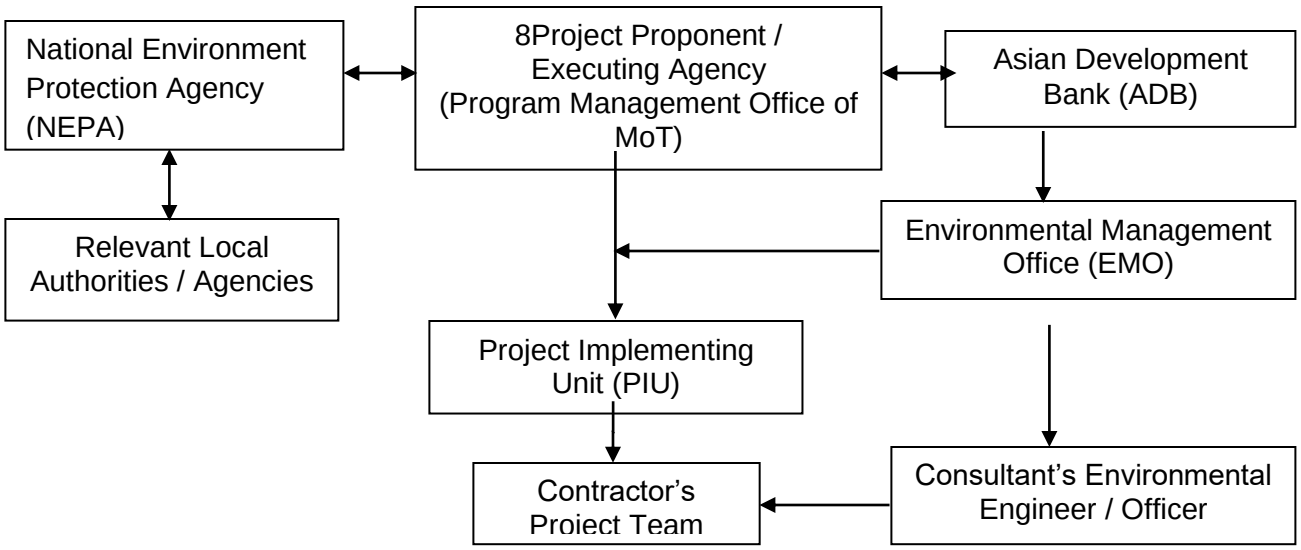


Table 2 Project Detail organization involve in the project

Contract No.	NPA/MPW/94/ICB/W-006
Employer's name	Ministry of Transport, Afghanistan
Engineer's name	DONGUNG-SOOSUNG-DDC JV
External monitoring/audit	NEAP
Financer / Donor Agency	Asian Development Bank (ADB)
Contractor:	RACC-OZDEMIR JV
Contractor's Project Manager	Mr. Shahidullah Shahid
Employer's Representative/Program Director	Mr. Abdul Majeed Qarizada, PD/PMO
Engineer's Representative/ Act. Team Leader	Mr. Jong ha Park
Environmental and Social Safeguard Coordinator MPW/PMO	Mr. Salah Uddin Kabeer. PMO/MoT
Environmental Specialist Consulting Firm (Sheladia Associate Inc.)	Mr. Noorullah Stanikzai
Contract Value	USD $ 98,813,276.77
Contract Period	1278 days for the whole works
Defect Liability Period (1.1.3.7)	365 Days
Length	108 km
Location	North East Afghanistan
Date of Contract Signature	Nov. 15, 2016
Commencement Date	19 April, 2017
Original Contract Price (with Provisional sum)	USD $ 98,813,276.77
The Asian Development Bank's Contribution	100 %
Sections of the Works	For ease of operation of implementation, the contracted length has been divided into 7 sections.
Governing Law	The law of Islamic Republic of Afghanistan
Language for Communication	English
Engineers Duties & Authority	3.1 (B) & (C)
Normal Working Hours	08:00 to 17:00

Table 3: Main organizations environmental safeguard staff involved in the project

No	Name	Position	Organization	Phone	E-mail	Remarks
1	Syed Asim Ali Sabzwari	Environmental Specialist	ADB	+632 632 6757	asabzwari@adb.org	On board
2	Noor Kamal Khan	Environmental Specialist (consultant)	ADB	+93 78 000 0 674	nkhan2.consultant@adb.org	On board
3	Mr. Salah Kabeer	Environmental & Social Safeguard Coordinator	PMO- MOT	0748001040	salah8uaf@gmail.com	On board
4	Mr. Naqibullah Nayil	Senior Environmental Officer	PMO- MOT	0773204790	naqibullah.nayil@yahoo.com	On board
5	Mr. Wahidullah Ibrahimi	Impact mitigation Specialist	NEPA	0700166223	Ibrahimi.wahid@gmail.com	
6	Dr. Mohsin Almaji	International Environmental Specialist	Consultant		As per contract, his total tenure is 3 man month in which 1.5 month is already completed and the remaining will be utilized at the end of the project.	
7	Mr. Noorullah Stanikzai	National Environmental Specialist		0796260292	noorullahstanikzai@ymail.com	On board
8	Mr. Nadir	National Environmental Officer	Contractor		Nadir.mohammad917@gmail.com	

2.3 Project Activities during Construction Works

18. The road will be constructed in 1278 days, and almost 89.05% of time has been elapsed till the end of May 2020.

19. The Contractor commenced the project works during the month of April 2017 as per conditions of Contract Agreement. The dates of commencement, original contract duration and completion date of the contract is given below

20. The average cumulative progress of Project Works up to 30 June 2020 is 70.21% against planned 80.17% (as per revised works program - 02) representing a total slippage of 9.96% after time elapse of 1148 days (89.82%) out of original contract period of 1278 days.

21. Physical works during report period were,

- Site clearing: Site clearing is almost 90% complete and remaining works are ongoing.

- Soft and Rock excavation: During current report period (418,478.34 Cubic meter) soft material and (418,478.34 Cubic meters) hard material has been excavated.
- Construction of Box Culverts: During this report period 448 box culvert has been completed.
- Embankment Filling: During the reporting period (2,450,000.00 cubic meter) embankment filling is done.
- Construction of Pavement Layers: During the reporting period 55.35% Asphalt Binder is completed.
- Construction of Rigid Pavement: Not yet started.
- Construction of Retaining Walls: Retaining wall construction is on progress and 10,713 cubic meters is finished, photos of each activities are provided in Annexure 6 and stock of the construction material are provided in **table 17**.
- Construction of RCC Bridges: States of the bridges are reflected in **table 6**.

22. The details of key persons of Consultant are provided in **table 4** and contractor staff is provided in **table 5** during the reporting period.

Table 4 CSC Key Staff Mobilization

S. No.	Name	Position	Status
1	Jong Ha Park	Team Leader/Senior Highway Engineer	Remobilized
2	Dae Woo Lee	Bridge Specialist/Geo-tech Engineer	Remobilized
3	Abdur Rashid	Materials/Pavement Engineer	Remobilized
4	Pushkar Regmee	Senior Resident Engineer	Remobilized
5	Chudamani Ghimire	Contract Specialist	Mobilized on 10 Mar, 2020
6	Md. Moshin Almaji	Environment Specialist	Demobilized
7	Mayen Uddin Tazim	Resettlement Specialist	Demobilized
8	Syed Prudha Akhter	Security Coordinator	Demobilized
9	Md. Nurul Hoque	Community Development Specialist	Demobilized
10	Muhammad Zakir	Resident Engineer	Working
11	Nangialai Niazai	Bridge/Structural Engineer	Remobilized
12	Mohammad Jafar	Materials/Pavement Engineer #1	Remobilized
13	Jamil Mashal	Materials/Pavement Engineer #2	Working
14	Hashmatullah Yousafzai	Site Inspector #1	Remobilized
15	Muhammad Nazar	Road Design Engineer	Demobilized on 7 Aug 18
16	Habib Rahman	Site Inspector #2	Remobilized
17	Mohammad Ishaq	Site Inspector #3	Remobilized

S. No.	Name	Position	Status
18	Arifullah Khawri	Site Inspector #4	Remobilized
19	Abdullah Khan	Accountant	Remobilized
20	Zia ul Haq	Quantity Surveyor	Remobilized
21	Abdul Rahman Qayumi	Resettlement Specialist	Demobilized on 19 Mar 18
22	Noorullah Stanikzai	Environment Specialist	Remobilized
23	Muhammad Naeem	Benefit Monitoring & Evaluation Specialist	Demobilized on 1 Jan 18
24	Muhammad Aseel	Security Officer	Demobilized
25	Abidullah	Community Specialist # 1	Demobilized on 24 Jun 19
26	Ezatullah Shagiwal	Bridge/Structural Engineer #2	Remobilized
27	Shukria Hejran	Community Specialist # 2	
28	Abdul Rauf Azime	Community Specialist # 1	Remobilized
Support Staffs			
26	Muhammad Zia	Translator	Remobilized
27	Ahmad Mansoor	Translator	Remobilized
28	Noor Rahman	Interpreter	Remobilized
29	Amnullah Sahil	Office Manager	Working

Table 5: Contractor Key Staff Mobilization Statues

S. No.	**Position**	**Mobilized Nos/Persons**	**Remarks**
1	Project Manager	Mobilized	Shahedullah ‘Shahid’
2	Chief Engineer/ Highway Engineer	Mobilized	Hamid masud
3	Materials/Pavement Engineer	Mobilized	Mahmood radmand
4	Bridge/structural Engineers	Mobilized	Wali frutan
5	Equipment Engineer	Mobilized	Sarajudin melat
6	Environmental/Health and Safety Engineer	Mobilized	Eng. Nadir
7	Quality Assurance Manager	Mobilized	Noor ahmad noori
8	Security Coordinator	Mobilized	Haji sheragha
9	Community Outreach/development Manager	Mobilized	Kefayetullah seraj

23. The road will be constructed in 48 months. At present the road is a gravel or earthen track having widths varying from 3m to 5m at different reaches. This 108 km road project is divided into one section. The road is designed to be a two lane major road with a carriageway width of 7.0 meter, and on both sides a minimum shoulder and verge width of 1. Meter and 1.0 meter, Asphalt Concrete Wearing Course, construction activates photos are provided in **Annexure 6**, Progress status of bridges and causeways are provided in **table 6**.

24. The proposed project activities will involve the following:

- Reconstruction and improvement of 108 km two lane road from Baharak to Eshkashim.
- Construction of 493 box culverts along the project,
- Construction of 5 Bridges along road project,
- Construction of retaining walls along road project,
- Improvement of the horizontal/vertical curve and construction of cut and fill embankments in several parts of the road and Improvement of road safety by signing and marking and other safety features.

25. The construction work is being started in April-2017 and is scheduled to be completed in 4 years. The construction components would include the placement of sub-base, base and bituminous pavement layers. Hard material for sub-base and base are available almost all throughout the alignment. Materials for bituminous pavement layers are mostly stone aggregate and these are available at specific points of the alignment. Materials like cement, bitumen and asphalt will be brought from outside. The construction will require earth filling, earth cutting and rock blasting in the preparation of the base of the road.

26. The construction work will fall under three phases.

- Phase one is Pre-Construction Work;
- Phase Two is Construction Work.
- Phase Three is Post Construction (Rap-up or Demobilization) Works,
- Specific activities are specified for each phases below.

2.3.1 Pre-Construction Phase

27. Pre-Construction Survey: This activity has been completed.

- Road topography survey
- Design stage
- Community meeting and survey
- Survey Team has carried out the survey of the entire length of the 108 km road

2.3.2 Construction Phase

28. The following are the project's main tasks;

- Establishment of a permanent project office building and residential accommodations at the project site;
- Earth works and sub-grade preparation;
- Soft Excavation and Rock excavation;
- Culverts and drainage works and Protection works;
- Sub-base and crushed aggregate base course;
- Asphalt concrete (Binder course and Wearing course & BDST Shoulders);
- Plain Cement Concrete pavement/RCC Pavement;
- Road furniture and road markings, and
- Community development subprojects and environmental improvements along the route.

Table 6: Progress Status of Bridges and Causeways

Name	Chainage (Km)		Structure	Work Status	% age Completion
	From	To			
Bridge and Vented Causeway	19+160	19+180	Bridge #1	Abutment walls (A) and (B) is finished & super structure work is on going	60%
	32+259	32+319	Bridge #2	Abutment (A) Excavation & PCC Completed & work Pre stressed girder is on going	7%
	53+490	53+580	Bridge #3	Abutment wall A, B and Pier wall A steel fixing & shuttering work is on going	7%
	75+080	75+104	Bridge #4	Abutment wall (A & B) steel fixing & formwork in on going	8%
	75+080	75+104	Bridge #5	Abutment A foundation excavation & Dewatering and water diversion is on going	3%
	85+585	85+841	Vented Causeway	Completed	95%

29. During the report period construction work progress for each month is provided as below: January 0.254%, February 0.390%, March 0.586%, April 0.650%, May 0.867%, and June 4.770%. Total work progress percentage for reporting period is 7.517%.

2.4 Description of Any Changes to Project Design

30. The Contractor has submitted design of additional 3.926 Km of Baharak section, which is not in the original scope of works, for which, the Supervision Consultant, has issued comments to be incorporated in final design submission and suggested submission of necessary reports. This work is to be included in the present Contract as Variation after getting approval from PMO/MOT and ADB.

31. DBST shoulders is replaced with Asphalt Concrete Wearing Course.

2.5 Description of Any Changes to Agreed Construction methods

32. DBST shoulders is replaced with Asphalt Concrete Wearing Course.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

33. In accordance with ADB's Safeguard Policy Statement (SPS), 2009, all founded activities are subject to environmental procedures. These procedures vary by scope depending on the project's determined environmental category. This project has been classified as category B project for environment with potential adverse impacts expected to be less adverse than those of category A, and which are mainly site specific and may be mitigated. Such project requires the preparation of IEE.

34. EMP will be a part of the overall project monitoring and supervision and will be implemented by Ozdemir cum Rauf Aziz Construction Company with consultation from the Supervision Consultant (the Engineer) and Employer. EMP is an integral part of our construction. The employer and ADB require the construction activities and its supervision in accordance with the environmental management plan. Monitoring measures include construction site supervision, verification of permits, monitoring of compliance of the performance and specific monitoring of environmental impacts like noise, dust, soil and water pollution and air emissions etc.

35. Based on the requirements' of EMP, during implemented construction activities the following environmental issues where monitored:

    1. Water Quality
    2. Waste Water Control
    3. Air Quality and Dust Generation
    4. Damping of Unsuitable Construction Material
    5. Noise and Vibration Control
    6. Loss of Top Soil

7. Flora and Fauna
8. Soil Erosion
9. Public and Workers' Safety
10. Public Complaints

3.2 Site inspection/Monitoring

36. During the last six months of the reporting period, environmental issues were properly considered and managed. In handling health and safety issues some violation like (Safety shoes, gloves, safety cone for the traffic usage) was observed and NCR has been issued by consultant environmental specialist and which should be timely and properly communicated by the Environmental Management Officer and HSE unit with the construction team of main contractor and sub-contractor. Details of site inspection are provided in table 7.

37. Regular inspection of all heavy equipment, deep excavation, camp, kitchen, PPE, and all job sites is going on, inspection details are provided in monthly checklists within this report. Refer to environmental monthly checklist as **annexure 3**.

38. Contractor built more building for worker for upcoming winter seasons.

39. Housekeeping is in progresses at the job site on daily basis

40. Other all environmental activates is good just for the fully implementation of PPE we issued NCR.

41. The contractor has been advised to strictly follow all health and safety regulations and requirements, recommendations and relevant clauses of the Contract Agreement. The construction team of the contractors and its subcontractor shall be provided proper Personal Protective Equipment (PPE) for all workers during the work.

Table 7 Detail of site inspection undertake during the reporting period

No	Subject	Agency	Name of inspector	Issue observed	Issue Status	Date
1	Environmental Site Inspection of site camp and labour at project site	Consultant	Noorullah Stanikzai	Dust control	Closed	March ,15, 2020
2	Inspection for dust noise control	Consultant	Noorullah Stanikzai	Dust control	Closed	March-20-2020
3	Environmental inspection for housekeeping in site camps	Consultant	Noorullah Stanikzai	Solid waste generation	Closed	April-09-2020

4	Inspection for PPE /heavy equipment's	Consultant	Noorullah Stanikzai	Safety gloves, safety vest	Open	April-22-2020
5	Over-all Environmental Site Inspection	Consultant	Noorullah Stanikzai	Dust control	closed	May-27-2020
6	Over-all Environmental Site Inspection	Consultant	Noorullah Stanikzai	Back up alarm for heavy equipment's	Closed	June-13-2020
7	Over-all Environmental Site Inspection	Consultant	Noorullah Stanikzai	Dust control	Closed	June-22-2020

3.3 Site Inspection

42. Environmental Management Team including the Environmental Specialists of Consultant were involved in management process of the environmental safeguards activities (implementation and reporting) within the reporting period. Environmental specialist were at the project site on a daily bases, weekly, monthly, conducted inspections and instructed the contractor on implementation the safeguard specification and guidelines at construction site.

3.4 Issues Tracked (Based on Non-Conformance Notices)

43. During the reporting period two issue have been tracked in project site, as per the grievance redress mechanism, this issue have been registered, documents, analysed and resolved at project site. For statues of the issue tracked during the reporting period refer to table 8 and for further details of the issues refer to GRM form at annexure 1 GRM database table 24.

Table 8 Summary of the issues tracked during current report period

Total Number of Issues Tracked During Current Report Period	2
Number of Open Issues	1
Number of Closed Issues	1
Percentage Closed	50%
Issues Opened This Reporting Period	1
Issues Closed This Reporting Period	1

3.5 Grievance Redress Mechanism

44. A Grievance Redress Committee (GRC) is proposed for the subproject in order to receive and facilitate the resolution of affected peoples' concerns, complaints, and grievances about the implementation of LARP. It should be pointed out that GRC does not possess any legal mandate or authority to resolve land issues. It will rather

act as an advisory body or facilitate to try to resolve issues relating to value of compensation for affected land and other assets. Any complaints of ownership or other suits, to be resolved by the country's judiciary system, will not be resolved in GRCs. Should the APs want to pursue legal recourse, ADB/PMO, with assistance from the consultants, will ensure that support is given to the AP to prepare a case. However, every effort should be exerted to avoid this alternative because it would entail loss of time and expenses on the part of the AP member GRCs are proposed to be formed at the project areas. In case of the absence of any of the members during the decision-making process, an appropriate candidate will be nominated by the original representative. However, at least five members should execute a session for grievance resolution.

45. During this report we have one community issue which is solved by consultant team, detail of the issue has been provided in **table 23** and **annexure 1** and one environmental issue is still open NCR as annexure 2.

3.6 Dispute Resolution Process

46. Grievances will be addressed through the following steps, any aggrieved AP will first produce his/her complain/grievance in writing to the Convener of the GRC.

47. Upon receipt of complaint(s), the Convener will organize a GRC hearing session in his/her office within 10 days for resolution of the grievance(s), and preserve all related records, proceedings, decision and recommendations. The verdicts will be conveyed to the concerned AP through the respective MOT office in the province.

48. If grievances are not resolved at the local level GRC then complaints can be lodged at head of PMO/ADB at Kabul, where resolution will be attempted within 14 days, with the involvement of the GRC members.

49. The APs can submit their case to the appropriate court of law in Afghanistan at any stage of the process, refer to table 9 for the process of the complaint.

Table 9 Procedures of responding or referring complaints received by project

Levels/Stages	Responsibility	Steps in Compliant Handling
Village	Head of Local Government	Registers the complaint and attempts to solve it. If complaint is not resolved in one week, it is passed to the Grievance Focal Points at the CSC for resolution
Regional	Grievance Focal Point at the Engineer	Receives the complaint, registers it and Attempts to resolve it. If there is no resolution in two weeks, it is passed to PMO

PMO	Grievance Focal Point at the PMO (Program Director)	Receives the complaint and attempts to resolve it. If there is no resolution within two weeks, the affected person can approach NEPA
Appeal to appropriate Court	Court	If there is no resolution within two weeks from the date of referring the case should go to the court.

3.7 Trends

50. During the last reporting period the following three issue have been tracked in project site:

    - Insufficient provision of PPE (personal protective equipment) for workers.
    - Dust control was poorly managed.
    - Less flag mans were available at the project site. And
    - GRM issues (recording and documenting of issues) was observed.

51. During the current report period contractor and consultant have taken all necessary action regarding mentioned issues of last report and other environmental activities. Due to proper consultation with contractor, dust issues, flag mans and PPE have been solved to some degree but still there is need to be completely resolved. Contractor has promised to take proper actions. GRM is now functional and all the grievances are registering and documenting properly on daily basis as per ADB guideline and PMO instructions. Environmental training has been conducted for contractor staff to explain the importance of environmental management.

    Consultant conducted daily and weekly site inspection in the presence of contractor engineers and camp manager and instructed them to properly implement the SSEMP.

52. From KM 20 to KM 65 in Wardoj and Zebak district our road under control of Taliban, because of that the workers don't like to use PPE (personal protective equipment) during construction activities, so we have tried to convene them to use PPE but they are afraid.

53. GRM was not much functional and grievance were not properly registered and documented due to the absence of contractor safeguard officer. Now he is on board and process is followed normally on daily basis.

54. During this report the environmental activities were going well, such as, water tanker increased for dust control and because of that air quality was better than previous period. Flag man are increased and are tasked along the road side especially in critical construction places. PPE have been provided to project technical and non-technical but still it is not sufficient and need improvement. For full implementation of the EMP and provision of PPE, the consultant issued an NCR to contractor.

55. New instrumental tools for air, water and noise measurement have been provided by contractor.

56. Contractor presented their excuses that due to corona COVID-19 more shops are closed in Kabul, they promised that they will provide all required safety equipment's ASAP.

- PPE (personal protective equipment), improvement is required.
- Contractor provided PPE from km 00 up to 45+00 but from 45+00 up to 108 in some portion of the project PPE are missing during construction work there for Consultant issued the NCR (non-compliance report) to comply fully, which is still open. Please refer to Annexure 2.
- Flag man has been provided for all heavy equipment's at necessary locations.

3.8 Unanticipated Environmental Impacts or Risks

57. No unanticipated environmental impacts and risks have been identified during the reporting period.

4 RESULT OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring

58. Several site visits have been conducted during the reporting period in order to assess the environmental impacts during construction activities. Please refer to **table 7** for site inspection and visits also following issues have been monitored in each site visit:

    - Solid Waste Management
    - Damping of Unsuitable Construction Material
    - Air Quality and Dust Generation
    - Water Quality
    - Noise and Vibration Control
    - Public and Workers' Safety

59. During the reporting period, environmental compliance were properly considered and managed. In handling health and safety issues some violation like (gloves, shoes and safety jacket and safety cone) was observed which should be timely and properly communicated by the Environmental Management Officer with contractor to strictly follow and implement the EMP.

60. Monitoring activities for physical and natural environment undertaken by the environmental staff of the project during the reporting period. The monitoring activities during the reporting period have included checking whether the implementation is in line with the requirements of IEE/EMP, for further details and findings of monitoring please refer to **table 20**, Environmental Management and Monitoring Plan.

4.2 Summary of Monitoring Outcomes

61. During the reporting period, construction site has been checked for compliance at site by Mr. Noorullah Stanikzai representative of consulting firm and authorized staff of the Contractor. It may be overall concluded that no any major environmental impact observed during the reporting period.

62. The monitoring of the works was conducted properly and the CSC has made efforts based on the findings of the monitoring period to train the Contractor's environmental staff and ensure that the project will be implemented in a manner that is compliant with the relevant environmental requirements

4.2.1 Air Quality

63. The protection of atmosphere air is one of the main tasks of nature protection. The Law on Environmental Protection sets the framework of the management of air quality and control of air pollution, prevention of the anthropogenic air pollution and sets the priorities for the protection of atmospheric air. Figure 4 reflect air pollution control at project site in different locations.

64. Over the reporting period, contractor had 10 water tanker which was not enough for the water spraying of main and diversion roads, so consultant requested the contractor to increase 4 other, contractor accepted and increased 4 water tanker, now dust is controlled in a good manner then previous period.

65. In the cases of visual dusting, the contractor was prescribed to suspend the work and spray the water using the water tank and other available measures. It was also advised to fill in all the borrow pits used for excavated material to avoid air pollution and dust generation. The number of water tankers increased as compared with earlier period to have full control on dust generation within the areas of temporary unpaved roads for motorists. Sensitive location has been identified as annexure 7.

66. The measurements of the air quality including the content of formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC) and particulate matter (ultrafine particles) including PM 1.0, PM 2.5 and PM10.0 were measured at the project facilities and selected portions of the road with Air Quality Meter WP6930S Intelligent. No exceedances of tolerance limits were observed. Please refer to table 12 for the result of the environmental parameters measurement. Inspection was conducted for the duration of 8 hours using WHO air quality standard. https://www.researchgate.net/publication/311843739_Environmental_Assessment_of_Suspended_Particulate_Matter_over_the_Afghanistan#pf5

Figure 4: Water spraying for the control of dust on daily bases

Water spraying at km 2+900

Water spraying at km 3+400

Water spraying at km 34+700

Water spraying at km 77+100

water spraying at km 29+600

water spraying at km 29+300

4.2.2 Noise and Vibration

67. Increase in noise and vibration levels are expected with the operation of the construction equipment, operation of the batching and asphalt plants and increased vehicular traffic. Sustained noise could lead to hearing impairment to construction crews directly operating or working near the equipment and residents in the area. This applies to all machinery, vehicles and construction sites where noise and vibration may affect susceptible receptors. The improvement/rehabilitation works during the works, the operation of heavy equipment and various construction machinery are primary noise generators. It is projected that noise levels could reach from 65 to 80 dB (A) at peak times.

68. Noise levels regularly measured during the peak of construction period in particular using portable noise meters at different locations of the project to ensure the effectiveness of mitigation measures.

69. UT351/352 sound level meter device is used for measuring the levels of noise rang of 30 to 130 decibels with accuracy of plus minus 1.5 disability the devices may be used to control the level of noise at the industrials enterprises educational institutions and other sites for compliance for the century standards, it have two main operation modes (A) and (S).

    The (A) mode the frequency characteristic of the device resembles the reaction of human a year, this mode is characteristic of embed cells and human speech.

    The (S) mode is most suitable for the sound analyzing machines, engines and other equipment's.

70. Noise level at project site is measured by UT351/352 sound level meter. In Month of January, February construction work was stopped due to cold weather just hard cutting was stopped and also Consultant environmental specialist was demobilize, so the inspection regarding noise has been conducted from month of March, Noise barriers such as earth mounds or walls of wood, metal that form a solid obstacle between the road and roadside community will be used, especially in the schools and hospitals. Please refer to table 10 for noise measurement and site view figure 5.

71. Poor maintenance of equipment may cause very high noise levels. Faulty or damaged mufflers, loose engine parts, rattling screws, bolts, or metal plates all contribute to increasing the noise level of a machine as well as careless or improper handling and operation of equipment; and poor loading; unloading, excavation and hauling techniques may lead to increased noise levels.

72. Equipment and machinery with lower sound levels will be selected for the use; Protection devices such as ear plugs or ear muffs will be provided to the workers during period of operating high noise generating machines.

Table 10: Noise level at camp and construction site

Type of place	Parameter	Maximum	Minimum	Duration	Date
Open area (city or bazar) premises, vacant Noise, dB(A) Normal conversation)	Noise, dB(A)	63.0	58.0	8 Hours	9.00 AM 6 March 2020
At workshop Noise, dB(A) LAeq At km 14+500 ,45+900, 70+700, 104+600	Noise, dB(A)	80.5	74.5	8 Hours	2:00 PM 13 March 2020
School building At km 7+600 103+700	Noise, dB(A)	70.0	63.5	8 Hours	3.00 PM 05 April 2020
Construction Site From 00+00 to 108+00	Noise, dB(A)	74.5	64.5	8 Hours	10.00 AM 12 April 2020
Generator area	Noise, dB(A)	82,8	76.0	8 Hours	9.00 AM 22 May 2020
Crasher plant At km 13+100, 38+800, 55+400, 76+700, 90+700, 102+500	Noise, dB(A)	90.0	82.0	8 Hours	11.00 AM 28 May 2020
Site Camps	Noise, dB(A)	67.0	60.0	8 Hours	4.00 PM 12 June 2020

Figure 5: Noise level measurement at different location

Noise measurement at km 4+600

Noise measurement at km 4+600

	
Noise level measurement at km 34+800	Noise level measurement at km 34+800
	
Noise level Measurement at km 85+100	Noise level Measurement at km 85+100
	
Noise leve at wardoj bazar km 17+300	Noise leve at wardoj bazar km 17+300

	
Noise level at constrction site km 33+400	Noise level at constrction site km 33+400

4.2.3 Water Quality

73. The project road passes from Kokcha River, the area with dense irrigation network and crosses numerous irrigation Canal. As result, no significant deterioration of surface water quality in water bodies near the project caused by contaminated soil and oil spilling from machinery or equipment and mismanagement of solid trash were observed. Water quality remained generally good despite the many of constructional activities took place in the project area. No complaints about the worsening of the surface and ground water quality were received during the reporting period. Special care was taken for sanitary and hygiene, including waste management at the labour camps, workshop and ancillary facilities. Surface water source details at project site are provided in **table 11.**

74. During the reporting period water quality measurements have been conducted at different locations through ATC pH and DTS tester, the results of water quality measurements and parameters are provided in **figure 6**, stream of the water quality measurement at the project site and result of the environmental parameters during the reporting period is provided in **table 12**.

Table 11 Surface water source at the project site

No	Name	Village name	Longitude	Latitude	Name of the canal	Dist from center line	Photo

1	Canal	Pas e Bagh	36.95154	71.02633	Pas e Bagh	60 M away from center line at Right Side	
2	Canal	Rabat canal	36.59639	71.52218	Rabat village	70 M away from center line at Right Side	
3	Canal	Bazgir	36.64492	71.45965	Bazgir	90 M away from center line at Right Side	
4	River	Kokch	36.94895	71.03957	From bahara k to Zebak District	200 M away from center line at Left Side	

Table 12: Results of Environmental Parameters Measurements during the reporting period

Locations		Noise/sound Level (dB) Max/avg (40- 90 dB	Dust level µg/m3			HCHO/ TVCO mg/m3 (0.000-1.999)/(0-9.999)	Water Parameter				
			(PM10) (0-999)	(PM2.5) (0-999)	(PM1.0) (0-999)		BOD - COD	DO	Nitrate	pH	Total Hardness (TDS) ppm
Main Office (Baharak camp),	Kitchen	60.2/48	027	023	021	0.075/0.328	2.56	12.3	2.17	7.6	158
	Office	60.2/49.5	013	012	009	0.020/0.078	2.19	9.8	2.55	6.6	248
	Room	55.9/45	010	009	007	0.029/0.122	2.33	11.4	2.58	6.8	167
	Open Yard	60.5/52	013	012	009	000/000	2.15	10.4	2.44	7.0	228
	Generator Site	70.9/58	011	010	007	0.040/0.164	2.45	10.5	2.40	8.2	288
Site Office wardoj camp	Kitchen	62.5/55	012	011	008	000/000	2.18	10.5	2.22	7.5	245
	Office	56.0/48.5	009	008	006	0.057/0.255	2.33	11.6	2.33	7.8	265
	Room	60.5/44	011	010	007	0.151/0.173	2.40	12.3	2.24	7.0	243
	Open Yard	58.7/55.5	011	010	007	000/000	2/44	12.1	2.35	6.9	185
	Garage	66.5/57	013	012	008	000/000	2.22	11.4	2.34	8.3	285
	Generator Site	77/60	010	009	006	0.045/0.145	2.12	11.5	2.45	8.6	235
Concrete Plant/ Site Camp	Utility Area	62.3/55	009	008	006	0.091/0.380	2.50	11.3	2.30	6.7	276
	Stock Yard	60.3/55	008	007	005	000/000	2.18	10.7	2.48	6.8	276
	Garage	n/a	n/a	n/a	n/a	n/a	2.25	11.6	2.31	6.2	276
	Generator Site	77.5/70	012	011	008	0.045/0.169	2.38	12.5	2.35	8.1	276
Asphalt Plant,	Utility Area	58.3/52	013	012	008	0.040/0.1	2.48	12.7	2.18	7.1	275
	Stock Yard	68.5	010	009	006	0.041/0.145	2.33	12.8	2.27	8.0	
	Garage	55.3/50	024	021	016	0.005/0.020	2.51	11.5	2.33	8.7	275
	Generator Site	78.5/65	029	025	019	000/000	2.45	11.9	2.40	6.9	276
Barrow area		64.5/55.5	015	013	009	000/000	2.33	10.8	2.22	7.3	135
Working Area, Road Project, Part 2											
RD 22+500		67.8/60	029	025	019	000/000	2.22	n/a	n/a	n/a	n/a
RD 15+600		58.5/50	007	005	003	0.008/0.033	2.31	n/a	n/a	n/a	n/a
RD 50+400		59/50	010	009	006	000/000	2.21	n/a	n/a	n/a	n/a
Working Area, Bridge #1,											
RD 8+400		58.9	017	010	006	000/000	2.42	n/a	n/a	n/a	n/a

Figure 6: Stream of the water quality measurement at the project site

Measurement of the River Water Quality km+22+200

Measurement of the River Water Quality km+22+200

Water test at site camp km 13+300

Water test at site camp 13+300

Water test at crash plant 25+400

Minral water is drinking at consulatan main office (baharak district)

pH Tester for water test

4.3 Material Resource Utilization

4.3.1 Current Period

75. During the reporting period the contractor used the following local resources:

76. Water: The main sources of the water for the project needs are: (i) groundwater wells ;(ii) Irrigation Canals; and (iii) bottled drinking water purchased from reliable supplier at the local market to offices, accommodations and working place.

77. For dust suppression and compaction of the road layers Contractor mainly used the water from river and Irrigation Canals. For these purposes the contractor mobilized 14 water tankers with capacity of 15000, Liter each. Every single truck was refilling the water tank as per need at site. Estimated used water in project site during the reporting period is provided in table 13 as below:

Table 13: Estimated water consumption during the reporting period

Purpose	**Water source**	**Consumption (litter)**			**Remarks**
		Daily	**Monthly**	**Reporting period (6 months)**	
Dust suppression and compaction of road layers	River and Canal	420000	4200000 x 26 days = 10920000	65520000	There are 14 tankers with capacity of 15000 liter at least 2 times per day. 14x15000x2=420000 liter, 4200000 x 26 = 10920000 liter per month x 6 month = 65520000 liters in this reporting period. Note. Per month 26 days is working day so it's calculated for 26 days.
Producing of Concrete and precast components	Ground water wells	50000	50000 x 20 days = 1000000	6000000	Its calculated for the minimum concrete during one month
Sanitary and hygiene needs	Ground water wells.	7000	7000 x 30 days =210000	1260000	Calculated for the one month
Drinking water	Local market	4000	4000 x 30 days = 120000	720000	Calculated for the one month almost 3000 workers.
Total Used Water During the Reporting Period				**73500000**	

78. Electric Power: during this reporting period (six month) Consultant and Contractor uses generators electricity for project needs and therefore minimizes the impact on the municipal electricity network. Summary of electricity is provided in table 14 as below:

Table 14: Source of the electricity at the project facilities during reporting period

Project facility	Solar panels	Generator	Fuel Used Liter	City electricity
Office CSC	0	2	90*30*6=16200	Not available
Office of Contractor	0	8	60*30*8*6=86400	Not available
Asphalt plant	0	3	1000*18*6=108000	Not available
Concrete plant	0	5	300*22*6=39600	Not available

79. Geological Resources: Contractor extracted the material from borrow pits for construction of embankment, sub-base and base layers, retaining walls, stone masonry and etc. During this reporting period the contractor's materials stock, Details is given in table 15 as below.

Table 15: Stock of Construction Material during Reporting Period

S.N	Type of Material	Unit	Used materials	Current Stocks
1	Cement	Bags	120,000	19,180.00
2	Sand	m3	180,000	12,300.00
3	Stone / Boulders	m3	30,000	24,500.00
4	Base Course material/Aggregates	m3		250,000.00
5	Sub base material	m3	35,000	21,800.00
6	100mm HDPE pipe	Rm	1,000	480.00
7	Geotextile	sq.m.		1,430.00
8	Reinforcement	MT	4,000	305.00
9	Ply for formworks	sq.m.	18,000	4,500.00
10	Diesel	liter	95000	231,185.00
11	Kerosene	liter	10000	35,841.00
12	DBST aggregate	m3	0,00	0.00
13	Bitumen 60/70	ton	2000	3,822.00
14	Bitumen 80/100	ton	2200	3,551.00

Table 16: Construction material stock at project site

W Beam Barrier at site RD 14+300

W Beam Barrier at site RD 14+300

Stock of the geo textile RD 26+300

Steel rebar stock at site RD 13+600

4.4 Cumulative Resource Utilization

80. The detail of the cumulative resource utilization for the whole project is presented in the table 17 as below:

Table 17: Cumulative Resource Utilization

No	Item Name	Utilization Source	Cumulative Resource Utilization
1	Drinking Water	Purified water (Cristal Company)	720,000 Liter
2	Usable Water	Open fit (Spring)	7,2780,000 Litter
3	Electricity	Generator	12
4	Fuel	Fuel pump installed	250200 Liter

		in camp	
5	Transport and Equipment's	Construction site	320
6	Fire extinguisher	Residential Accommodation	20
7	Kitchen and dining equipment	Kitchen	8
8	Safety Equipment's	Construction site	For 220 person
9	Construction Material	Construction site	43,085,000

4.5 Waste Management

81. During site observation, it has been observed that the contractor dumped all the disposable materials in identified disposal sites. Mainly municipal waste was produced during the monitoring period according to the contractor. The solid waste collected from door to door at the site camps with the help of waste tray and is then stored in the main collection point. The location is selected by local community people and the trucks then take the collected solid waste to the landfill for further disposal.

82. The contractor's mitigation measures/good practice will include but not necessarily be limited to the measures listed below. The contractor shall ensure implementation of these measures:

- Areas for disposal to be agreed with local landowners;
- Apply for and obtain necessary approvals for town dump site;
- Segregation of wastes shall be observed. Organic (biodegradable - such as tree trimmings) shall be collected, stockpiled and given to the local community as required in the contract (NO BURNING is allowed on site);
- Recyclables shall be recovered and sold to recyclers;
- Residual waste shall be disposed of in disposal sites approved by local authorities and not located within 500m of rivers or streams;
- Construction/workers' camps shall be provided with garbage bins;
- Burning of construction and domestic wastes shall be prohibited;
- Disposal of solid wastes into drainage ditches, rivers, other watercourses, agricultural fields and public areas shall be prohibited;
- There will be no site-specific landfills established by the contractor. All solid waste will be collected and removed from the work camps and disposed in local waste disposal sites

83. The details about waste are provided in the **table 18** in **figure 7**:

Table 18: Detail of the solid waste management during six months

No	Type of Waste	Waste Source	Quantity of Waste	Location of disposal site	Treatment/disposal route

			Generated Daily (Kg)		
1	Non-Hazardous	Kitchen waste	20*30*6=3600	15+00	Dumped in NEPA approved disposal site
2	Non-Hazardous	Drinking Water	100*30*6=1800 Bottles	22+400	Dumped in NEPA approved disposal site
3	Hazardous	Construction equipment's	70*30*6=12600 Kg	45+900	Dumped in separate identified disposal site approved sites under specific precautions.
4	Non-Hazardous	Construction activities	Based on daily site work	55+700	Dumped in NEPA approved disposal site
5	Non-Hazardous	Discarded material	Based on daily site work	66+00	Dumped in separate identified disposal site approved by NEAP under specific precautions
6	Non-Hazardous	Plywood for formwork	40*30*6=7200 kg	77+200	Dumped in separate identified disposal site approved sites under specific precautions.
7	Non-Hazardous	Office and site waste paper	10*30*6=1800 kg	87+900	Dumped in separate identified disposal site approved sites under specific precautions.
8	Non-Hazardous	Cement bags	70*30*6=12600 kg	96+700	Dumped in separate identified disposal site approved sites under specific precautions.
9	Hazardous	Engine oil	35*30*6= 6300	102+400	Dumped in separate identified disposal site approved sites under specific precautions.

84. There will be no site-specific landfills established by the contractor. All solid waste will be collected and removed from the work camps and disposed in local waste disposal sites.
85. The solid waste collected from the all camps and construction area with the help of waste tray and is then stored in the main collection point. The trucks take the collected solid waste to the selected area landfill.
86. The sewage system for the camp is designed, built and operated to the satisfaction of the concerned public health engineering department, so no health hazard occurs and no pollution to the air, ground or adjacent watercourse takes place, compliance with the relevant legislation is strictly adhered to. Garbage bins is provided in the camps and regularly emptied and the garbage disposed of in a hygienic manner to the satisfaction of relevant norms. On completion of the works, all such temporary structures are cleared away, all rubbish burnt, excreta tank and other disposal pits or trenches filled in and effectively sealed off and the outline site left clean and tidy, at the Contractor's expense, to the entire satisfaction of the engineer.

87. The objective is to create an environmentally safe and workable system for waste disposal by creating different categories for solid wastes and effluents and treating each differently according to their capacity to make negative environmental impacts. There will be different sources of waste production within the construction camp; the main sources are:

    - domestic waste (biodegradable and non-biodegradable)
    - kitchen (biodegradable and non-biodegradable)
    - bathroom and laundry waste water (grey water)
    - human waste

88. In addition, waste from all other construction sites are collected and brought to the construction camp, making it act as a centre for storage and sorting out.
89. Precautions to be adopted during Dumping of Debris / Waste Material. The contractor shall take the following precautions while disposing off the waste material.

- During the site, clearance and disposal of debris contractor will take full care to ensure that public or private properties are not damaged/affected and that the traffic is not interrupted.
- Contractor will dispose of debris only to the identified places or with prior permission of Engineer-in-Charge of works.
- Contractor will also dispose of the debris for the improvements of public utilities after the proper consent of villagers and approval of Engineer-in-Charge of works.
- In the event of any spoil or debris from the sites being deposited on any adjacent land, the contractor will immediately remove all such spoil debris and restore the affected area to its original state to the satisfaction of the Engineer-in-Charge of works.
- The contractor will at all times ensure that the entire existing stream courses and drains within and adjacent to the site are kept safe and free from any debris.
- Contractor will utilize effective water sprays during the delivery and handling of materials when dust is likely to be created and to dampen stored materials during dry and windy weather.
- Materials having the potential to produce dust will not the loaded to a level higher than the side and tail boards and will be covered with a tarpaulin in good condition.
- During cutting of hills and disposal of debris, proper warning signs will be installed to the satisfaction of Engineer-in-Charge of works.
- Any diversion required for traffic during disposal of debris shall be provided with traffic control signals and barriers after the discussion with local people and permission of Engineer-in-Charge of works.

- During the debris disposal contractor will take care on surrounding features and avoid any damage to it.
- While disposing debris / waste material the contractor shall take into account the wind direction and location of settlements to ensure that any dust problems are avoided.
- Adequate arrangements should be made to ensure that the debris/ waste material is disposed of nearest to the designated dumping site.

Figure 7: Waste Material at the Project Site and Camp site

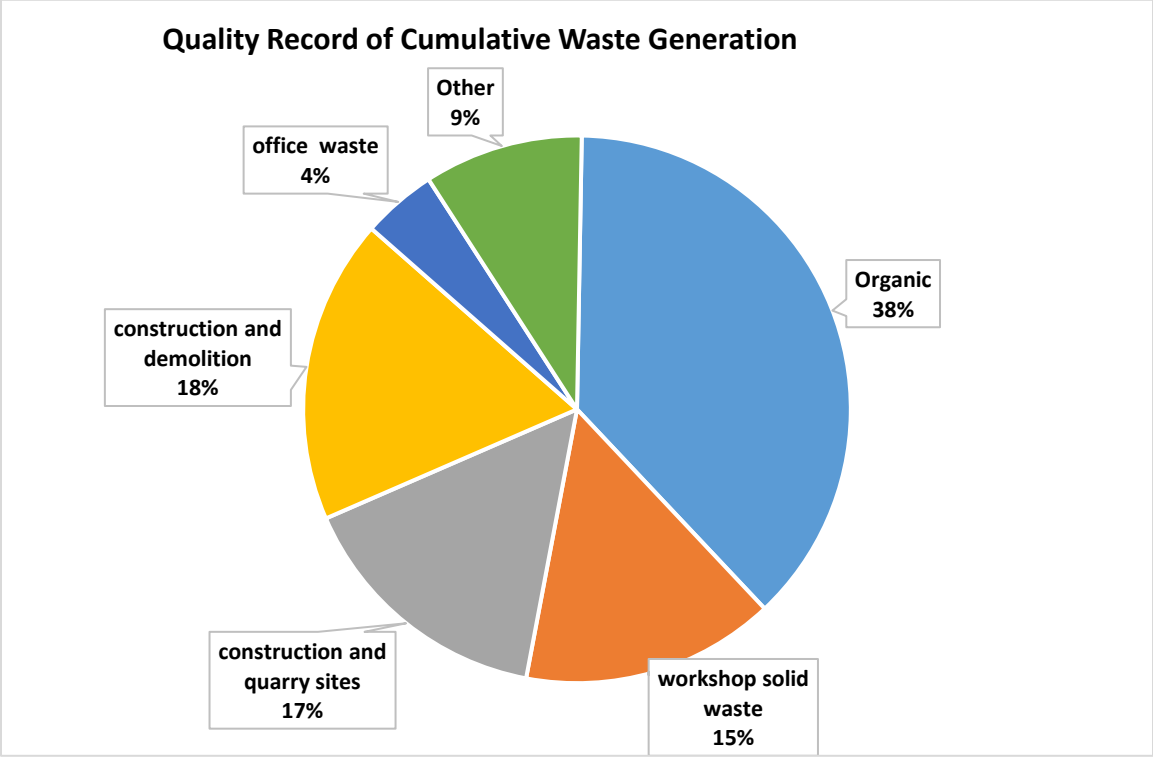
	
Waste collection at consultant office	Waste collection at Contractor office
	
Waste collection system at contractor office	Waste collection system at contractor office

	
Waste collection at site camps 55+00	Waste collected at camp 13+00
	
Waste collection system at contractor office km 13+300	Waste collection system at contractor office km13+300

4.5.1 Cumulative Waste Generation

90. Contractor's Camp and Yard, the solid waste that are likely to be produced from the camp site are as follows and will not be limited to the following.
91. During site observation, it has been observed that the contractor has no plan for reuse and recycling of the waste generated inside the camp as well as in construction site. The CS team has repeatedly instructed the contractor to adopt a suitable plan to insure minimum waste generation and to increase in reuse and recycling of possible. Quality record of cumulative waste generation during the reporting period is reflected in figure 8 as below.

FIGURE 8: QUALITY RECORD OF CUMULATIVE WASTE GENERATION DURING THE REPORTING PERIOD



92. The solid waste that are likely to be produced from the camp site are as follows and will not be limited to the following;

1. **OFFICE AND WELFARE FACILITIES WASTE**

- Papers
- Plastics
- Empty Ink cartridge
- Furniture
- E-goods (damaged computer, printer etc.) and Cardboard.

2. **KITCHEN WASTE**

- Food Scrapes (Organic Waste)
- Papers
- Plastics
- Bottles
- Packaging

3. **WORKSHOP SOLID WASTE**

- Derelict equipment
- Plant
- Equipment Parts

- Tire

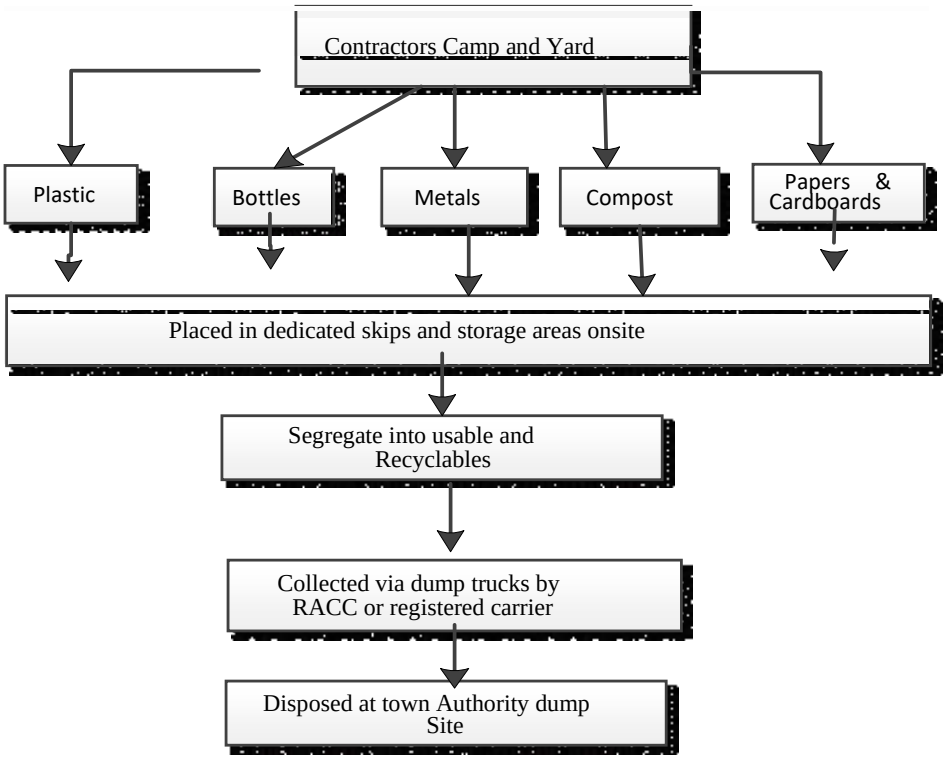
4. CONSTRUCTION AND QUARRY SITES

- The solid waste that are likely to be produced from construction site are as follows and will not be limited to the following;
- Excavated Materials
- Sands
- Stones
- Soil and dirt
- Vegetative Cover

5. CONSTRUCTION AND DEMOLITION

- Woods
- Brick, Concrete,
- Rocks, soil and dirt
- Steel
- Aluminum Sheets
- PVC plumbing pipes

Figure 9: Waste collection, management and disposal procedure



4.6 Health and Safety

4.6.1 Community Health and Safety

93. No community health and safety issues were reported during the monitoring period.

4.6.2 Worker Health and Safety

94. Workers safety is given the first priority on the entire project area and supervision consultant's environmental team is closely monitoring the occupational health and safety hazards.

95. During COVID 19, Health and safety training have been conducted about COVID-19 to all technical and non-technical staff. Detail are provided now under this section. For photos please refer to annexure 5

96. For the control of COVID-19 contractor and consultant are taken all important steps for photos and daily checklist please refer to annexure 5 and detail are provided below

- In Afghanistan we are facing a challenge of Corona Virus and we are also vulnerable to this virus as peoples are moving from one place to another. To reduce the possibility of infection, we have done our efforts as below:
- Checking body temperature with (temperature instrument) of every one entering the Baharak Camp and all site camp and construction area. For this assigned a single person at the entry gate to measure temperatures of every person coming inside of the main entrance. If the temperature is more than 37.6 degree centigrade, we will not permitted inside the building but to be sent to hospital for further testing/treatment.
- No new person was allowed to enter inside the premises until it is extremely necessary. All formalities of Temperature checking was done and after confirming that he is free of Fever.
- Stopped all transit work works and staff from one camp to other camp for safety precaution.
- Please do not shake hand/ avoid hugging and keep social distancing of at least 2 meters while going to site. Educated all workers and site staffs, drivers accordingly.
- We found that contractor are taken all needful action and provided all requirement equipment's like sanitizer, gloves, mask and temperature to prevent the virus from entering our Camps and site workers.

97. Contractor provided PPE to worker but it is not fully, therefor for to comply full consultant issued NCR please refer with annexure 2.

98. The following are the brief site status outline of the various construction activities going on at site by the contactor that has been monitored on regularly basis. Joint survey with contractor's environmental team has been done in labor camp, crusher plant and work site. the following issue has been done in project site:

- Health and safety training has been provided to labors, drivers and operators. Training details are reflected in table 19.
- Instruction has been given to provide backup alarm to all heavy equipment's;

- Dust mask provided to all labors.
- Contractor has been instructed to provide adequate safety sign boards at construction area and diversion road.
- Verbal instruction has been given to use gloves which are the most common protector for the hand.
- Contractor's team has been advised to inspect all parts of the heavy equipment's like brakes and engine oil level etc.

4.7 Training

99. During the reporting period the contractor and consultant environmental team conducted some environmental awareness, safety and traffic control training to technical and non-technical workers. The details of the trainings are provided in table 19, participants list is provided in annexure 4 and photos of the training are provided in figure 9.

100. Orientation training has been conducted for the new worker, operators and labors who are involved in construction activities below are the detail of orientation:

- ✓ Strictly follow safety and work instructions given by safety officer / foreman / supervisor.
- ✓ Use safety helmet, safety shoes, safety goggles & coverall at all times. Other protective equipment must be worn correctly as and when necessary.
- ✓ Participate in Daily / Weekly Housekeeping so as to maintain site cleanliness at all time.
- ✓ Report hazardous condition and unsafe act to the supervisor / engineer or safety officer.
- ✓ Report accident and dangerous occurrence without delay to your supervisor for necessary action.
- ✓ All employees are responsible for taking reasonable care for health and safety of himself and of others who may be effected by what he does or fails to do at work. Training details have been provided in **table 19**.

101. The contractor was advised to keep minutes, photos and list of attendance, also keep the books with records on regular instructions to workers and their signatures on the future trainings, so that the content and adequacy of such trainings can be verified.

Table 199: Details of the health, safety and environmental training

No	Subject	Date	Location	No. of Participant	Content
1	Health, Safety and Environment	Mar-26-2020	Site. RD 15+600	18 (Contractor and consultant staff)	• Control of the accident at project site. • Follow the Health and safety Personal protective equipment's at site. • Control of the dust at construction sites. • Explained importance of the health and Safety at construction site. • • Description regarding Environmental issues • Explained the Environmental Rules and regulations to workers.
2	Benefit of the flag man	Apr-4-2020	Site. RD 55+800	24 Site workers	
3	Privation of the accident from heavy equipment during construction	May-12-2020	Site. RD 102+200	30 Skilled and unskilled person	
4	Control of dust, and keep good environment	June-22-2020	Deferent area	Locally conducted at site	• Control of the dust at construction sites. • Explain how to keep good environment at site.
5	Training for COVID 19	March-2020	Contractor and CSC staff and labors.	Locally conducted at site	• The signs and symptoms of COVID-19 and an explanation of how the disease is potentially spread. • Policies and procedures that is applicable to the employee's duties as they relate to potential exposures. • Providing employees with a written copy of those standard operating procedures. • Information on appropriate social distancing and hygiene practices.

					• The types, proper use, limitations, location, handling, decontamination, removal, and disposal of any PPE being used. • The importance of staying home if they are sick. • Wearing masks over their noses and mouths to prevent them from spreading the virus. • The need to continue using other normal control measures, including PPE, necessary to protect workers from other job hazards associated with construction activities. • The need to report any safety and health concerns.

Figure 10 Environmental and safety training at the project site.

Stream of the Environmental, Health and Safety training

Stream of the Environmental, Health and Safety training

Stream of the Environmental, Health and Safety training

Stream of the meeting with contractor regarding environmental issues.

102. To increase environmental awareness and avoid any harmful accident in the site, there is a need for the following training for the project staff to be conducted during next reporting period. Details of training for next period is provided in table 20 as below:

Table 20: Detail of Training Needed for Next Reporting Period

No	Type of Training	Date	Participant	Responsible
1	Accident, air and pollution dust control	Twice each reporting period	Contractor office staff, Engineer, supervisor and technical skilled and unskilled personal, workers, community and consultant.	Consultant and contractor
2	Health Safety and Environment (HSE) Training	Twice each reporting period	Contractor office staff, Engineer, supervisor and technical skilled and unskilled personal, workers, community and consultant.	Consultant and contractor
3	Health and safety importance	Twice each reporting period	Contractor office staff, Engineer, supervisor and technical skilled and unskilled personal, workers Community member, safety issue, contractor and consultant	Consultant and contractor
4	waste handling (hazardous/non-hazardous),	Monthly bases	Engineer, supervisor and technical skilled and unskilled personal, workers Community	Consultant and contractor

			member	
5	noise level,	Monthly bases	Engineer, supervisor and technical skilled and unskilled personal, workers Community member	Consultant and contractor
6	leakage/breakage	Monthly bases	Engineer, supervisor and technical skilled and unskilled personal, workers Community member	Consultant and contractor
7	water resources)	Monthly bases	Engineer, supervisor and technical skilled and unskilled personal, workers Community member	Consultant and contractor

Table 21: Environmental Management and Monitoring Plan

S/N	Activity	Issues	Mitigation Measures	Monitoring Frequency	Responsibility
1	Preparation of site excavation , removal and disposal of unsuitable materials	Loss of visual amenity Soil erosion and sedimentation, Loss of vegetation, Noise and Dust	Will limit the areas for excavation to those that can be effectively managed and protected Topsoil stockpiled in stable and safe areas re-use for later, Materials are not to be disposed or stockpiled less than 20m from water courses All construction equipment should be environment friendly i.e. ISO certified so that noise is minimum, Water spray to prevent dust, Soil erosion and sedimentation control plan will be prepared and implemented	Weekly	Environment Officer
2	Establishment of contractor's yard and facilities	Pollution of surface and groundwater from oil and lubricant spills Pollution of environment including water sources from camp solid waste and grey water Cultural conflicts between contractor staff and the adjacent community members Public injured, become sick or killed due to accidents	i) Will followed proper storage and handling of oil and lubricants as according to hazardous chemicals management plan. Will restrict contractor staff and yard to a single, pre-planned construction site, in agreement with the community leaders; iii) Contractor will install a septic tank or mobile toilets and, disposal only at designated stations; iv) Will be disposed only the treated grey water and septic effluent to water ways; v) All waste oil and lubricants will be collected, recycled or disposed at designated sites without leaking to water courses; vi) Will prepare a spill contingency plan including drainage/settling pond control, bunds-drainage around fuel and storage areas. vii) Receptacles for rubbish to be provided	Weekly	Occupational Health and Safety Officer Environment Officer. All incidents, accidents and grievances to be entered in the camp log-book by HSO

			viii) No burning or rubbish or waste permitted at yard or work site ix) cultural sensitivity to highlight at induction and weekly tool kit meetings, x) Camp will fully enclose and public entry to be controlled at gate. All visitors to report to gate xi) All facilities to be fully fenced out with no access to public		
3	Construction workers accommodation	Risk of spread of communicable disease and social disruption Health and safety of worker's living environment	Staff members will be inducted upon recruitment and further awareness will be carried out to educate employees and their families as well as the local community. Residential accommodation will include a healthy and safe environment, including potable water, free of mosquitoes and the like and separate toilets for men and women	Monthly	OHSO & Environment Officer
4	Stockpiling of construction materials	Silt laden run-off causing damage to aquatic/marine ecology and/or flooding issues safety of the public especially children	i) Transportation of material will be in short periods ii) Transportation will be only during dry months iii) will be located stockpiles in controlled areas will Install sedimentation controls plan	Monthly	Environment Officer
5	Working over water courses	Contamination of the water course from accidental spills of materials, both solid	Plan works to be carried out over the channels only for dry season; Plan operations will avoid creating downstream turbidity;	Weekly and as required	Environment officer

		and liquid Increased turbidity as a result of the disturbance of the channel Change of water course directions due to clogging with solid material	There will no refueling of equipment or vehicles while working over the watercourses All materials removed / replaced will be carefully handled and any debris fallen to river passage will be removed Terpene will be laid beneath river/streams to prevent materials falling to the water body		
6	Stockpiling of construction material	Materials causing damage to aquatic areas Public safety ecology and/or flooding issues	) Transportation of material in short periods ii) Transportation only during dry months will be followed, iii) Locate stockpiles in controlled areas will be followed, will be Installed sedimentation controls	Monthly	Site supervisors/ Environment Officer
7	Clearing and grubbing	Damage to people's assets damage to aquatic life ecology and/or flooding issues. Soil erosion and sedimentation in lower areas, Loss of gardens and aesthetic beauty impacted	Will be Removed of only necessary trees as indicated/marked by EO and shown in RP ii) Stockpile topsoil to be used for landscaping Machine operators to be strictly instructed to minimize damage Dispose all wastes in agreed dumping stations or on land as requested (in writing) by land owners	Weekly	Site supervisors/ Environment Officer
8	Pavement construction	Silt and bitumen run off causing damage to aquatic/marine ecology and/or flooding	ii) Sub-grade and sub-base material will be placed quickly after removal of topsoil; iii) Plan construction work during dry season will be followed;	Weekly	Site supervisors/ Environment Officer

		issues	iv) Will remove spoils and construction debris. v) Will be disturbed area re vegetated immediately vi) Will be processed, stockpiling of bitumen and aggregate in designated area only, vii) Drainage control applied during construction viii) will be implemented all measures for storage or accidental spills of fuel, oil and other chemicals		
9	Embankment works	Soil erosion Sedimentation and turbidity	i) Will limit the extend of excavation on the embankment area as needed II) Install control structures to avoid storm water runoff carrying eroded materials iii)Schedule construction so that large areas of soil are not bare during wet seasons iii) Contain embankment area with bund (geotextile fabric useful) so that soil is kept in place and clean and remove after embankment work IV) Excavation areas to be revegetated after completion of embankment work.	Weekly	Site supervisors/ Environment Officer
10	Building construction	Solid waste generation	i) Building material confined in secure area ii) Concreting after foundation framework iii)Excess concrete cleaned at designated contractor site iv) Solid and liquid waste taken back to municipal dump site.	Monthly	Site supervisors/ Environment Officer
11	Storage or	Pollution of downstream	i) Development of safe storage areas and proper handling	Weekly	Site

	accidental spills of fuel, oil and other chemicals required for operation of equipment	surface and groundwater resources	of hazardous and toxic materials ii) Proper disposal of hazardous and toxic materials iiii) All vehicles to be well maintained to reduce leaks iv) Collect and recycle petroleum products v) Construction of bund walls and drainage systems around fuel storage areas vi) Contractor to prepare spill response plan/measures		supervisors/ Environmental Officer
12	Exposure to accidents during construction activities	Hazards to worker's health and Safety Risk of community members	i) Contractor will conduct on safety and environmental hygiene training for all workers at no cost to the employees; ii) Contractor will instruct workers in health and safety matters and provide first aid facilities at work sites iii) Work shall only be undertaken during daylight hours; iv) The community will not be permitted to enter work sites or the contractor's camp; vi) Workers shall be provided with appropriate personal protective equipment (PPE) at no cost to the workers; vii) Provision of water along road work area	Daily	Site supervisors/ Occupational Health and Safety Officer/ Environmental Officer

13	Opening quarries and material fill sites	Impairment of water quality from uncontrolled run-off from quarry Loss of soil resources and aesthetic values Loss of vegetation cover Disturbance to settlement areas along the haul road during transport of materials Ponding and accumulation of stagnant water in borrow pits and quarry areas Disruption in the hydrology of the water courses as a result of excavation of river beds	prepare a Quarry Management Plan that meets the requirements of the DoW Code of Practice Balance cut and fill requirements to minimize impacts from extraction of aggregate Topsoil and overburden are to be stockpiled near the site and covered with tarpaulin fenced off for safety and security considerations and later reused to re-contour borrow pits after completion of works Adequate drainage shall be provided in the material source/quarry areas to prevent the accumulation of stagnant water during the operation Should stagnant water accumulate, the borrow pits shall immediately be dewatered to prevent the creation of mosquito breeding grounds Material sources and quarry areas shall preferably have located near the alignment to minimize hauling distance and time and disturbance to settlement areas along the haul roads Existing quarry and material sources areas are to be restored before a new site is opened	Weekly or as required	Environment officer
14	Operation of vehicles and other plant	Noise and air pollution	i) Control speed of vehicles transporting materials to work areas ii) Maintain vehicles and check regularly iii) Works undertaken during daylight hours. No noisy activities undertaken at night or on Sundays iv) watering down of site and vehicles to reduce dust	Weekly	Occupational Health and Safety Officer/ Environmental Officer

			generation		
15	Transportation of materials to/from site	Traffic congestion in major roads	Contractor to prepare and implement traffic management plan	Daily	Site supervisors, OHSE/ Environmental Officer
16	Demobilization	Solid waste generation	i) Preparation of abandonment plan ii) Demolition of temporary offices and contractor's depot and facilities iv) Re-vegetation of exposed areas v) Proper disposition of construction debris	Monthly	Environmental Officer

Table 222: Progress of the environmental issues at the project site

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
1	**Environmental Officer**	Presence of Environmental Management and Safety Officer is essential so that contractor's activities will be going on as environment friendly.	Disqualified health and safety officer.	Ozdemir cum Rauf Aziz Construction Company project Director promised that will replace Environmental officer full time basis.	Compliances	closed
2	**Training to the personnel of the Contractor**	Training of all construction workers of basic sanitation and healthcare issues, general health and safety matters on the specific hazards of their work.	Training to contractor site workers has been carried out, the contractor advised to record all the training in	The contractor site workers are being trained to minimize risks and impact of environmental hazard. Aware they employees	Compliances	Closed

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
			project site and report it accordingly.	regarding the hazard and their safety measurement. The workers are being forced to wear PPE in construction site.		
3	**Road Construction site**	a) Availability of safety tools at site and camp.	Improvement were observed in this period mostly workers use the PPE.	PPE is designed to reduce the hazards. Workers implement the PPE where they can. Wearing the PPE is compulsory.	Regular monitoring.	closed
		b) Adequate protection Available of the temporary signs and signals for construction works site and for all general public.	Road warning signal are not available on construction area and road diversion. The contractor will provide, as they promised SSEMP.	Instructed Contractor to provide safety signal. (Reduce speed, no entry to construction site, road work ahead, deep excavation, safe access and etc., should be available along the road.	Compliances	Closed
		c) Encroachment within R.O.W	No serious encroachment within the R.O.W	Persecution of Material from encroaching R.O.W	Regular monitoring.	closed
		d) Quarry/Borrow areas: Material Collection Compliance with Environmental law.	Quarry operation is in progress. Government issue notes Oz emir-RACCJV for received a legal	Contractor prepared borrow pit plan for approval. Collect permission from NEPA, M/O mines and local authority (if any) for	Compliances	closed

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
			permission from NEPA of Badakhshan Government.	taking out of stone.		
		f) Crush plant: Dust pollution at the site results different diseases for the residence of the camp.	Crush plants is undertaken during the reporting period. These plants were fixed far from road and main base camp no air pollution was observed during the production time. The crusher material is over moisture.	Arrangement of water spraying on work time is satisfactory. Contractor follow the environmental rules during work they use proper PPE with working hours.	Compliances .	closed
		h) Vibration: Vibration of roller etc. construction equipment's.	Project is located at hill and flat area with no house, market and settlement area. So there is no risk due to vibration of machinery.	Attention need to be paid to not damage public or private property.	Compliances	closed
		I) Child labor: Ensure that no child labor will be deployed.	No child labor is visible at site.	Asian Development Bank prohibits all kinds of child labor.	Compliances	Closed

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
		j) Dust generation due to transport and machinery movement.	The watering of alignment by the contractor water tank is not sufficient during the reporting period. Daily inspection observed the dust in diversion road.	The contractor increased water tanker for site and water spray on the construction work.	Compliances	Closed
		k) Noise prevention	According to observation, noise level in project site is as per the acceptable limit. No noise complaints were reported.	Contractor instructed to minimize the noise, vehicle is checked periodically for repairing and maintenance. Machinery operators should be provided with noise protection devices.	Compliances	Closed
		l)Endangered species	No endangered species or other wildlife in the project site.	The contractor advised, if they found any species report provincial department of NEPA.	Compliances	Closed
		m) Historical and archaeological findings	The existing road alignment is not passing near to any historical and archaeological site.	Contractor advised if found any type of historical and archeology sign, contact relevant department of Afghanistan.	Compliances	Closed
4	**Construction camp**	a)Adequate Water supply	The contractor use drinking water from near open source. The water quality is good, also the contractor	The drinking water quality is good but the contractor is advised to use filter drinking water.	Compliances	Closed

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
			installed water filter			
		b)Adequate sanitation for construction camp, Kitchen and dining facilities	Sanitation system along the kitchen and dining facilities is available in base camp. Toilet facilities are ok with proper cleaning.	Sanitation system available in kitchen and toilet.	Compliances	Closed
		c)Adequate accommodation space in the camp	Contractor has enough room and space for worker's accommodation at campsite.	Living facilities is available for workers for rest and sleeping.	Compliances	Closed
		e) Stock pile	The materials are stocked according environmental law.	Encircle the stock with the safety tabs. Strip should be control carefully. It was recommended to have proper stock pile to avoid disturbances.	Compliances	Closed
		g) Provision Drainage at the construction camp and office: storm water drainage to nearby drain/ stream outside the camp area.	Site camp is safe and there is no drainage problem. Camp water was drained to near stream. In camp contractor laid aggregate to control the	Due to dry weather no drainage problem is visible. If need it then RACC will recover it	Compliances	Closed

No	Issue	Concern issue /Monitored activity.	Observed environmental issue	Recommended measures/mitigation	Implementation/Compliances	Status
			mud.			
		h) Availability of Firefighting equipment's in office and accommodation.	Fire Extinguisher is available at side camp.	Providing basic training about different type of fire extinguisher so that workers can react accordingly and replace it in emergency situation. Worker was trained to use fire Extinguisher in cause of emergency.	Compliances	Closed
		j) Tree plantation	Thousands of trees have been felled along the (RoW), it needs to be replaced by planting new tress, one to three.	The contractor has been instructed to prepare tree plantation plan, and as per the plan trees should be plant along the road side in tree plantation season. Tree plantation plan is submitted to pmo/adb for review.	Under review of PMO/ADB	Open
		k) Storage of chemicals	Chemical were stored at proper location; no any kinds of leakage observed.	The entire site manager along the labor and contractor were advised to store chemicals on safe location.	Compliances	Closed

5. FUNCTION OF THE EMP

5.1 EMP Review

103. Project Proponent develops and applies policies and management systems for the environment by referring to prevailing laws, regulations and standards, and ensures that all infrastructure operational stages, from planning and preparation to operation and post-operation, comply with said legislation and guidelines.

104. Consultant and Contractor for implementing of the activities as per the EMP. He will be responsible for record keeping, providing instructions through the consultant for corrective actions, ensuring compliance of various statutory and legislative requirements and assist consultant for submitting reports to the PMO. He will maintain a close coordination with the Contractor and PMO for successful implementation with the environmental management plan.

105. For ensuring that the EMP is properly implemented, it is also recommended that the Contractor should designate a senior engineer as the nominated Environmental and Safety Officer (ESO) from the commencement to completion of the project. It is desirable that ESO has three to five years' experience in implementing EMP of similar projects.

The responsibilities of the Contractor's ESO will include the following:

- Directly report to the Project Manager of Contractor.
- Discuss various environmental issues and environmental mitigation, enhancement and monitoring actions with all concerned.
- Ensure Contractor's compliance with the EMP stipulations and conditions of statutory bodies.
- Assist the Project Manager to ensure environmentally sound and safe construction practices.
- Assist the Project Manager to ensure the timely procurement of materials that are included in the Bill of Quantities relating to environmental mitigation and enhancement measures.
- Conduct periodic environmental and safety training for Contractor's engineers, supervisors and workers.
- Prepare registers for material sources, labour, public complaint and as may be directed by the Engineer.
- Assist the PMO on various environmental monitoring and control activities.
- Prepare and submit monthly reports to the Engineer on status of implementing safeguard measures.

106. During this report period contractor and supervision consultant jointly visited project site and contractor have been instructed to fully implement the EMP and consider health and safety issues seriously. Housekeeping of the labor camp should be ongoing on daily bases.

107. Generally as a result, the consultant team found that the EMP is effective and contractor is following all role and regulations of the EMP.

6. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

108. The consultant team has found the EMP is effective, contractor are following all role and regulations of the EMP.

109. As per the instructions of the consultant team and programme management office (MOT/PMO), the consultant team has found the contractor has adopted some good practices in project site as below.

110. Dust Control (water spray): After instruction of the consultant team the contractor has increased 4 more water tanker of water spraying for the control of dust at site.

111. Contractor has organized its work properly in extremely complex, in such terms Contractor not only achieved significant success in its performance but, also made noble efforts in following of safeguard requirements during implementation progress. Contractor managed camps and facilities in a good manner, and the locations for different activities have been chosen well so that they are in line with the EMP.

112. The Contractor managed to minimize the losses of vegetation and properly organized the plan for new planting of new trees. All removed trees will be replaced with new plantation.

6.2 Opportunities for Improvement

113. Baharak- Eshkashim road project is passing throw high mountainous, there is very minor impact that has environmental hazard, Keeping these point in to account will create many opportunities for improvement and protection of environment more. The trees which have been felled in the right of way need a tree plantation plan to cover the felled trees keep the beauty of the environment.

114. **Protection of Vegetation Cover:** As we don't have enough agricultural land along the road alignment, there is an opportunity for the contractor to establish a proper plan for the beautification of the project area as tree plantation is required; the contractor has identified locations for tree for coming session plantation plan of the project. More detail has been provided on Tree plantation plan and it has been submitted for PMO/ADB for approval.

115. **Protection of Natural Habitat:** Baharak-Eshkashim road project is located in mountainous and hilly area, where the studies shows that many types of medicinal plants are found along the alignment, so the contractor has an opportunity protect these natural habitats found along our road alignment.

116. **Air Quality and Dust Control:** During physical construction of the project many places has been found that in many locations the dust was generated due to vehicles movement as well as working machinery in the site which cause to effect the air quality of the project site. To maintain the air quality there is many opportunities for contractor to control the dust (Dust Binders, Alternative Materials, Choice and Watering) so that the air quality will remain natural. There is an urgent need for air quality measurement tools that the contractor has to purchase it to conduct the measurement and provide the reports as per the requirements of the PMO and ADB.
117. **Public and Workers' Safety:** Public and workers safety is the important element of the project, the contractor has to keep it their top priorities and to provide all necessary equipment's for the workers during their work in the site. This can be easily improved by providing all PPE to project staff.
118. **Disposal of waste materials in proper places:** The project is passing throw mountainous area which create less loss materials and also there enough space to dump the unsuitable construction material. So keeping the condition of site in to account the contractor has an opportunity to minimize the negative environmental impact on the site.

7. SUMMARY AND RECOMMENDATION

7.1 Summary

119. Project activities resulted mainly in positive social impacts. The people who are losing their lands and property due to required land acquisition will be fairly compensated. Positive impacts include providing of the employment opportunities to the local population and anticipated reducing of the pressure on the natural resources for survival and income generation. In future, this road will provide to the local people many of business opportunities.
120. Consultation with local community is an ongoing process in environmental complaints procedure. Community is always encouraged to register their complaints on damaging of standing crop on their fields, land acquisition, permanent resettlement, noise problem, waste disposal, water contamination, air quality deterioration and etc. Local communities are fully informed of their rights and of the procedures for addressing the complaints whether verbally or in written way, during consultations and GRM is functional at the project site.
121. The environmental team taking the issues to RE / TL for corrective action. Thus the progress of works now going on environment friendly.
122. During the reporting period no major significant environmental impacts resulted from the project implementation activities. However, there were some minor violations and areas of non-compliance, which is still open and contractor promised within 10 days they will fulfill and provide all safety tool.

Table 23 summary of the observation during the inspection/audit and recommend action

Date	**Issue:** Poor water spray for control of dust at km 17+500 up to 107	**Corrective Action:** Corrective action has been taken for the control of dust at site.
27 May 2020		
Instruction	• Water tankers need to be increased. • As per need all construction site need to be water sprayed. • Proper attention need to be paid for air sensitive receptors locations. • Environmental specialist of contractor need to be on board ASAP, to be responsible for all environmental issues in the project site.	

Date	**Issue:** Labor are working without safety equipment like PPE	**Corrective Action:** Contractor Provided PPE (personal protective equipment) to all worker and

	(Personal protective equipment) and not taking care of Safety rules.	strictly follow up the implementation.
13 June 2020		
Suggestion	• All technical and non-technical staff and workers need to be equipped with safety tools. • Contractor health and safety office need to follow up the safety issues on daily bases at all construction sites. • Safety training need to be organized for staff and workers. • Contractor is responsible to implement the EMP properly. • Those who not wear safety tools need to be mark absent or fired.	

Table 24: Grievances/Complaints Registration and Monitoring Database

Ministry of Transport

Program Management Office (PMO)

Environmental and Social Safeguard Unit

Grievances/Complaints Registration and Monitoring Database

Grievance Case #	Name of aggrieved person	Gender (Male/Female)	Location			Method of filing of grievance	Type of Grievances	Details of Grievances	Appellate level			Grievance Submission Date	Respond to complainants	Grievance Redressal Date	Referred to external offices? If Yes, which administration?	Current Status of the complaint/ grievance	Next Action to be taken	Anticipated Date for the issue to be resolved
			Province	District	Road Name				Project Level GRC	Provincial Level GRC	PMO level GRC							
1	Majid	Male	badakhshan	Wardoj	Faizabad , Baharak-Eshkashim 108 km	through Environmental	Construction issue	At station 2+100 in the pol ardar village owner of the land claimed that RACC dumping extra disposable materials on his private land.	Yes	No	No	22/4/2020	When the Environmental specialist received the grievance, he urgently invited the Contractor and representatives of the people, the issue have been explained to the participants, and finally after the discussion and face to face talking the contractor agreed that they will remove all extra and unsuitable material from that land.	25/6/2020	No	The issue has been solved by Environmental specialist through consultation with community Representative and Contractor.	No further action is required	No need

Annexure 1

Grievances Registration Form

Government of Islam Republic of Afghanistan
Ministry of Public Work
Program Management Office (PMO)
Environmental and Social Safeguard Unit

Grievances Registration Form

Complainant Location

Province: _____Badakhshan_____ District: baharak_____

Village: _____Poli E ardar_____ Road Segment: _2+100____

Complainant Information

Name: _____Majid_____

Phone number: _____0795865952_____

Address: _____Poli ardar ,Baharak _____

Signature:

Complaint Information

Received on: _22__/_4___/_2020_____ Tracking #: __4_____

Received via: ◯ Phone call ◯ Email ◯ Petition
◯ Note ◯ verbally ◯ Anonymous call

Nature of the Grievance:

◯ Employment ◯ Land/ asset related disputes ◯ Project Design
◯ Project Delay ◯ Contractor work related disputes ◯ Public Assets
◯ Other(please specify):

Summary of Complaint

At station 2+100 in the pol e ardar village owner of the land claimed that RACC dumping extra disposable materials on his private land

Received by:

Signature of person received complaint:

Government of Islam Republic of Afghanistan
Ministry of Transport
Program Management Office (PMO)
Environmental and Social Safeguard Unit

Grievance Closure Form

Grievance Information

Name person handling grievance: Noorullah Stanikzai

Date of opening grievance case: 22, 4, 2020

Date of closing grievance case: 25, 4, 2020

Grievance case tracking number: 4

Complainant Name: Majid

Complainant Phone number: 0795855952

Complainant Address:

Province: Badakhshan District: Baharak

Village: Poli E Ardar Road Segment: 2+100

Summary of grievance closure

When the Environmental specialist received the grievance, he urgently invited the GRC members, the Contractor and representatives of the people, the issue have been explained to the participants, and finally after the discussion and face to face talking the contractor agreed that they will remove all extra and unsuitable material from that land.

Signature of person handling case | Signature of complainant | Date

25, 4, 2020

Annexure 2

NCR Letter to contractor

Faizabad-Baharak-Eshkashim Road Project
Baharak-Eshkashim Section (108Km.)
Contract NO: NPA/MPW/94/CS-OO25/QCBS
Tranche 4 (NH-43)

Non-conformance Report (NCR)

Client : **The Ministry of Transport (MOT), Afghanistan**
Contractor : **Ozdemir cum Rauf Aziz Construction Company (RACC)**
Consultants : **Dongsung Engineering Co. Ltd. in association with the Soosung Engineering Co. Ltd. & Development Design Consultants Ltd.**

NCR No. 8 : **Date: April 22, 2020**
BOQ Item No. and Description : Bill Number 9
Location of work : **Km**. from 00+00 to 108 km

Observations/Description of Non-conformance:

As per specification C 102 Health and safety, C103 Protection of the Environment, C104 page number 34-35-36 contractor will provide all safety requirements items.
Use of safety kits by the construction labors, such as shoes, gloves, mask, safety vest, etc. are mandatory. We have already discussed all these issues in the previous meetings and remind them many times by email but till to date RACC/OZDMIR not fulfilled the PPE criteria fully.
At site RACC do not have proper PPE, safety sign boards, barricading of warning tape, safety cone at the required construction area, first aid medical and flag man in required places.

Name of Consultants/Officer: Noorullah Stanikzai **Designation:** Environmental Specialist

Signature: ---------

Suggested Remedial Actions:

Please arrange all mention items accordance to the Health and Safety Plan and Traffic Control Plan. Under the above circumstances you are instructed to overcome the above mention issues and follow the EMP.
Note: Environmental payment will be pending until not full fill the mentioned issues.

Name: Noorullah Stanikzai **Designation:** Environmental Specialist

Signature:----------

Received by the Contractor, Name: **Designation:** **Signature:**

Closing of NCR : Comments: **Resident Engineer, Consultant Signature**: **Date**: ----------
Approval Actions: Comments: **Team Leader, Consultants: Signature**---------- **Date**: ----------

Notes: Photos of observations and remedial actions may be enclosed

Annexure 3

Monthly Environmental Checklist for the Month of January and February 2020

123. During the month of January and February construction work due to winter was stopped and there was no any physical work progress.

Monthly Environmental Checklist for the Month of March 2020

Site working is going on from 1+00 up to 108+000 km

Abbreviations: HS-Highly Satisfactory, S- Satisfactory, NS- Not Satisfactory, NA- Not Applicable

Road section	**1**				**2**				**3**				**4**				**5**			
Km / Chain age	**0 TO 25**				**25 TO 50**				**50 TO 75**				**75 TO 100**				**100 TO 108**			
Level of satisfaction	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA
1. Earthwork and soil conservations																				
1.1 Disposal of debris and spoil	√				√					√			√				√			
1.2 Protection of agricultural Land		√				√			√					√				√		
1.3Protection of ground cover				√				√				√				√				√
1.4 Borrowing of earth	√				√					√				√			√			
1.5 Erosion control		√				√			√					√				√		
2 Water pollution																				
2.1 Protection of water sources	√				√				√				√				√			
2.2 Prevention of water quality worsening	√				√					√			√				√			
2.3 No siltation of water bodies				√				√			√					√			√	
2.4 No alteration of drainage paths				√		No alterative Drainage is required														
2.5 Precautions for contamination of water from construction materials.	√				√					√				√			√			
2.7 Adequate facilities for disposal of	√				√								√							

sewerage Solid waste.																						
3	**Air pollution**																					
3.1 Effective management of dust.	√				√				√				√				√					
3.2 Delivering material effectively covered while Transporting.	√				√				√				√					√				
3.3 Vehicle speed limit which control the dust Emission.		√				√				√				√			√					
3.4 Watering of construction & transportation Sites.	√				√				√				√					√				
3.5 Immediate clearing of debris, dust & other Material from the road.	√				√					√			√				√					
3.6 Level of emissions from construction Vehicles, equipment & machinery.	√				√					√				√			√					
3.7 Regularly serviced machinery, equipment & Vehicle		√				√			√				√				√					
3.8 Level of air emission from material Extraction sites.		√				√				√				√				√				
4	**Noise pollution and vibration.**																					
4.1 Level of noise from vehicles, plants & equipment.	√				√					√			√				√					
4.2 Level of vibration from machineries and Equipment.	√				√				√					√			√					
	5. Impact on flora and fauna																					
5.1 Minimize loss or damage of trees.	√				√					√			√				√					
5.2 No destruction of other flora.	√				√									√								
5.3 No removal of trees in protected area.		√				√				√			√					√				
5.4 No impact on wild				√				√			√					√					√	

fauna and their habitats.																				
6. Accidents and risks.																				
6.1 Public & worker safety.	√				√					√			√				√			
6.2 Provide workers safety appliances (helmets, goggles, mask, footwear etc.)	√					√				√			√				√			
6.3 Adequate warning signals.		√			√				√				√				√			
7. Health and safety.																		√		
7.1 Adequate actions for workers health and Safety.		√				√				√				√				√		
7.2 First aid facility.			√				√				√				√				√	
7.3 Adequate bathing, latrine facilities for Labors.		√				√				√				√				√		
7.4 Garbage disposed.		√				√				√					√			√		
8. Environmental enhancement																				
8.1 Road –side landscape		√				√									√					
8.2 Re-planting trees, re-vegetation of other Plants.	Contractor will be plant in the replacement of the catted trees in coming session 1*10																Contractor will be plant in the replacement of the catted trees in coming session 1*10			
8.3 Reconstruction of removal utilities such as water ,electricity , telephone			No utilities in our all Project Site.																	

Monthly Environmental Checklist for the Month of April 2020

Site working is going on from 1+00 up to 108+000 km

Abbreviations: HS-Highly Satisfactory, S- Satisfactory, NS- Not Satisfactory, NA- Not Applicable

Road section	**1**				**2**				**3**				**4**				**5**			
Km / Chain age	**0 TO 25**				**25 TO 50**				**50 TO 75**				**75 TO 100**				**100 TO 108**			
Level of satisfaction	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA
1. Earthwork and soil conservations																				
1.1 Disposal of debris and spoil	√				√					√			√				√			
1.2 Protection of agricultural Land		√				√			√					√				√		
1.3Protection of ground cover				√				√				√				√				√
1.4 Borrowing of earth	√				√					√				√			√			
1.5 Erosion control		√				√			√					√				√		
2. Water pollution																				
2.1 Protection of water sources	√				√				√				√				√			
2.2 Prevention of water quality worsening	√				√					√			√				√			
2.3 No siltation of water bodies				√				√			√					√			√	
2.4 No alteration of drainage paths				√		No alterative Drainage is required														
2.5 Precautions for contamination of water from construction materials.	√				√					√				√			√			
2.7 Adequate facilities for disposal of sewerage Solid waste.	√				√								√							
3 Air pollution																				
3.1 Effective management of dust.	√				√				√				√				√			
3.2 Delivering material effectively covered while Transporting.	√				√				√				√					√		

3.3 Vehicle speed limit which control the dust Emission.		√				√				√				√			√			
3.4 Watering of construction & transportation Sites.	√				√				√				√					√		
3.5 Immediate clearing of debris, dust & other Material from the road.	√				√					√			√				√			
3.6 Level of emissions from construction Vehicles, equipment & machinery.	√				√					√				√			√			
3.7 Regularly serviced machinery, equipment & Vehicle		√				√			√				√				√			
3.8 Level of air emission from material Extraction sites.		√				√				√				√				√		
4 Noise pollution and vibration.																				
4.1 Level of noise from vehicles, plants & equipment.	√				√					√			√				√			
4.2 Level of vibration from machineries and Equipment.	√				√				√					√			√			
5. Impact on flora and fauna																				
5.1 Minimize loss or damage of trees.	√				√					√			√				√			
5.2 No destruction of other flora.	√				√									√						
5.3 No removal of trees in protected area.		√				√				√			√					√		
5.4 No impact on wild fauna and their habitats.				√				√			√					√				√
6. Accidents and risks.																				
6.1 Public & worker safety.	√				√					√			√				√			
6.2 Provide workers safety appliances	√					√				√			√				√			

(helmets, goggles, mask, footwear etc.)																					
6.3 Adequate warning signals.		√			√				√				√				√				
7. Health and safety.																					
7.1 Adequate actions for workers health and Safety.		√				√				√				√				√			
7.2 First aid facility.			√				√				√				√				√		
7.3 Adequate bathing, latrine facilities for Labors.		√				√				√				√				√			
7.4 Garbage disposed.		√				√				√					√			√			
8. Environmental enhancement																					
8.1 Road –side landscape		√				√									√						
8.2 Re-planting trees, re-vegetation of other Plants.	Contractor will be plant in the replacement of the catted trees in coming session 1*10															Contractor will be plant in the replacement of the catted trees in coming session 1*10					
8.3 Reconstruction of removal utilities such as water ,electricity , telephone			No utilities in our all Project Site.																		

Monthly checklist for May 2020

Site working is going on from 1+00 up to 108+000 km

Abbreviations: **HS**-Highly Satisfactory, **S**- Satisfactory, **NS**- Not Satisfactory, **NA**- Not Applicable

Road section	**1**				**2**				**3**				**4**				**5**			
Km / Chain age	**0 TO 25**				**25 TO 50**				**50 TO 75**				**75 TO 100**				**100 TO 108**			
Level of satisfaction	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA
1. Earthwork and soil conservations																				
1.1 Disposal of debris	√				√					√			√				√			

and spoil																				
1.2 Protection of agricultural Land		√				√			√					√				√		
1.3Protection of ground cover				√				√				√				√				√
1.4 Borrowing of earth	√				√					√				√			√			
1.5 Erosion control		√				√			√					√				√		
2 Water pollution																				
2.1 Protection of water sources	√				√				√				√				√			
2.2 Prevention of water quality worsening	√				√					√			√				√			
2.3 No siltation of water bodies				√				√			√					√			√	
2.4 No alteration of drainage paths				√		No alterative Drainage is required														
2.5 Precautions for contamination of water from construction materials.	√				√					√				√			√			
2.7 Adequate facilities for disposal of sewerage Solid waste.	√				√								√							
3 Air pollution																				
3.1 Effective management of dust.	√				√				√				√				√			
3.2 Delivering material effectively covered while Transporting.	√				√				√				√					√		
3.3 Vehicle speed limit which control the dust Emission.		√				√				√				√			√			
3.4 Watering of construction & transportation Sites.	√				√				√				√					√		
3.5 Immediate clearing of debris, dust & other Material from the road.	√				√					√			√				√			
3.6 Level of emissions from construction Vehicles, equipment &	√				√					√				√			√			

machinery.																				
3.7 Regularly serviced machinery, equipment & Vehicle		√				√			√				√				√			
3.8 Level of air emission from material Extraction sites.		√				√				√				√				√		
4	**Noise pollution and vibration.**																			
4.1 Level of noise from vehicles, plants & equipment.	√				√					√			√				√			
4.2 Level of vibration from machineries and Equipment.	√				√				√					√			√			
	5. Impact on flora and fauna																			
5.1 Minimize loss or damage of trees.	√				√					√			√				√			
5.2 No destruction of other flora.	√				√									√						
5.3 No removal of trees in protected area.		√				√				√			√					√		
5.4 No impact on wild fauna and their habitats.				√				√			√					√				√
	4. **Accidents and risks**.																			
6.1 Public & worker safety.	√				√					√			√				√			
6.2 Provide workers safety appliances (helmets, goggles, mask, footwear etc.)	√					√				√			√				√			
6.3 Adequate warning signals.		√			√				√				√				√			
	5. **Health and safety**.																			
7.1 Adequate actions for workers health and Safety.		√				√				√				√				√		
7.2 First aid facility.			√				√				√				√				√	
7.3 Adequate bathing, latrine facilities for Labors.		√				√				√				√				√		

7.4 Garbage disposed.		√				√				√					√				√				
6. Environmental enhancement																							
8.1 Road –side landscape		√				√									√								
8.2 Re-planting trees, re-vegetation of other Plants.	Contractor will be plant in the replacement of the catted trees in coming session 1*10																Contractor will be plant in the replacement of the catted trees in coming session 1*10						
8.3 Reconstruction of removal utilities such as water ,electricity , telephone			No utilities in our all Project Site.																				

Monthly checklist for June 2020

Site working is going on from 1+00 up to 108+000 km

Abbreviations: HS-Highly Satisfactory, **S**- Satisfactory, **NS**- Not Satisfactory, **NA**- Not Applicable

Road section	**1**				**2**				**3**				**4**				**5**			
Km / Chain age	**0 TO 25**				**25 TO 50**				**50 TO 75**				**75 TO 100**				**100 TO 108**			
Level of satisfaction	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA	HS	S	NS	NA
1. Earthwork and soil conservations																				
1.1 Disposal of debris and spoil	√				√					√			√				√			
1.2 Protection of agricultural Land		√				√			√					√				√		
1.3Protection of ground cover				√				√				√				√				√
1.4 Borrowing of earth	√				√					√				√			√			
1.5 Erosion control		√				√			√					√				√		
2 Water pollution																				
2.1 Protection of water sources	√				√				√				√				√			

2.2 Prevention of water quality worsening	√				√					√			√				√			
2.3 No siltation of water bodies				√				√			√					√			√	
2.4 No alteration of drainage paths				√		No alterative Drainage is required														
2.5 Precautions for contamination of water from construction materials.	√				√					√				√			√			
2.7 Adequate facilities for disposal of sewerage Solid waste.	√				√								√							
3	**Air pollution**																			
3.1 Effective management of dust.	√				√				√				√				√			
3.2 Delivering material effectively covered while Transporting.	√				√				√				√					√		
3.3 Vehicle speed limit which control the dust Emission.		√				√				√				√			√			
3.4 Watering of construction & transportation Sites.	√				√				√				√					√		
3.5 Immediate clearing of debris, dust & other Material from the road.	√				√					√			√				√			
3.6 Level of emissions from construction Vehicles, equipment & machinery.	√				√					√				√			√			
3.7 Regularly serviced machinery, equipment & Vehicle		√				√			√				√				√			
3.8 Level of air emission from material Extraction sites.		√				√				√				√				√		
4	**Noise pollution and vibration.**																			
4.1 Level of noise from vehicles, plants &	√				√					√			√				√			

equipment.																				
4.2 Level of vibration from machineries and Equipment.	√				√				√					√			√			
5. Impact on flora and fauna																				
5.1 Minimize loss or damage of trees.	√				√					√			√				√			
5.2 No destruction of other flora.	√				√									√						
5.3 No removal of trees in protected area.		√				√				√			√					√		
5.4 No impact on wild fauna and their habitats.				√				√			√					√				√
6. Accidents and risks.																				
6.1 Public & worker safety.	√				√					√			√				√			
6.2 Provide workers safety appliances (helmets, goggles, mask, footwear etc.)	√					√				√			√				√			
6.3 Adequate warning signals.		√			√				√				√				√			
7. Health and safety.																				
7.1 Adequate actions for workers health and Safety.		√				√				√				√				√		
7.2 First aid facility.			√				√				√				√				√	
7.3 Adequate bathing, latrine facilities for Labors.		√				√				√				√				√		
7.4 Garbage disposed.		√				√				√					√			√		
8. Environmental enhancement																				
8.1 Road –side landscape		√				√									√					
8.2 Re-planting trees, re-vegetation of other Plants.	Contractor will be plant in the replacement of the catted trees in coming session 1*10																Contractor will be plant in the replacement of the catted trees in			

											coming session 1*10				
8.3 Reconstruction of removal utilities such as water ,electricity , telephone			No utilities in our all Project Site.												

Annexure 4

Member who participated in the environmental, health and safety training

SN	Employee Name	Father Name	Position
1	Shahidullah Shahid	Shahzad Gul	Project Manager
2	Hamidullah Massod	Gul Janan	Chief Pavement Engineer
3	Mohammad Wali Furutan	Shah Wali	Chief Structure Engineer
4	Noor Aqa Ahmadi	Mohammad Anwar	Structure Engineer
5	Mirwais Akbary	Ghulam Akbar	Structure Site Engineer
6	Abdul Sami	Mohammad Zahir	Structure Engineer
7	Ziaurahman	Shah Wali	Structure Engineer
8	Noor Ahmad Noori	Jan Mohammad	Chief QC Engineer
9	Hameedullah Khatibi	Abdul Latif	QC Engineer
10	Wahidullah Omari	Mohammad Sarwar	Site QC Engineer
11	Kiramatullah	Mohammad Sharin	QC Engineer
12	Emsatullah Khatibi	Abdul Latif	QS Assistant
13	Sayed Mahmood Radmand	Sayed Abdullah	Pavement Engineer
14	Sirajuddin Milat	Ainuddin	Assistant Site Inspector
15	Kefayatullah Seraj	Haji Noorullah	Site Inspector
16	Habibullah	Haji Abdul Samad	Warehouse
17	Mohammad Ibrahim Aftab		HR/Admin/Finance Manager
18	Mohammad Saber	Abdul Salaam	HR/Admin Officer
19	Mohammad Hussain	Haji Dawlat	HR/Admin Officer

20	Nasir Nasrat	Mia Jan	Site Finance Officer
21	Abdul Matin	Abdul Karim	IT Officer
22	Abdul Wafiullah	Ghulam Farooq	Eshkashim office Admin
23	Rohullah Azimi	Mohammad Qasam	Assistant to Inventory Officer
24	Hidayatullah	Mohammad Qahir	Camp Manager
25	Siddiq Ahmadzai	Mulla Haji Gul	Inventory Management Officer
26	Haji Ahmad	Abdul Hadi	Security & Social Relations Officer
27	Abdul Ghazi	Mohammad Fazil	Social Organizer
28	Sebghatullah	Abdul Razaq	Mula Imam
29	Attaurahman	Mohammad Juma	Mula Imam
30	Asif Iqbal	Shahzad Gul	Plants & Machinary Manager
31	Faizullah	Abdul Khaliq	Sinor Construction Supervisor
32	Mohammad Hassan	Mohammad Baqir	Chief Surveyor
33	Ali Marjan	Sayed Omer	Surveyor
34	Zikrullah	Abdul Hameed	Surveyor
35	Baqir Jafari	Abdul Aziz	Surveyor
36	Wafiullah	Mohammad Sarwar	Surveyor
37	Khalid	Hameedullah	Level Man
38	Ali Riza	Mohammd Hussain	Level Man
39	Asadullah	Abdul Khabir	Survey Helper
40	Mirajuddin	Abdul Qadir	Survey Helper
41	Hidayatullah	Aminullah	Survey Helper
42	Zabiullah	Abdul Shahid	Survey Helper
43	Agha Mohammad	Adina Mohammad	Survey Helper
44	Mohammad Nasim	Mohammad Naseer	Survey Helper
45	Mirajuddin	Mohammad Qadar	Survey Helper
46	Mujeebullah	Najeebullah	Survey Helper
47	Sidiqullah	Abdul Majeed	Survey Helper
48	Khairuddin	Qayamuddin	Survey Helper
49	Asadullah	Abdul Khair	Survey Helper
50	Mubinurahman	Lal Mohammad	Survey helper
51	Rafiullah	Sultan Jan	Survey Helper
52	Mir Abass	Mirzak	Paver Operator
53	Mohammad Amin	Mohammad Afsar	Paver Operator

54	Awal Khan	Merzak	Sincere man
55	Shamsuddin	Abdul Ghafaar	Sincere man
56	Abdul Rahim	Igan Qulay	Asphalt Foreman
57	Mohammad Zarif	Peer Nazar	Asphalt Joint Worker
58	Dawood Sultani	Mohammad Suliman	Plants Superintendent
59	Noorullah	Paighambar Qul	Concrete Plant Helper
60	Zuhrullah	Mohammad Nadir	Puncture Man
61	Sheer Ahmad	Nazar Mohammad	Puncture Man
62	Mohammad Arif	Mohammad Abid	Puncture Man's Helper
63	Karim	Gulabudin	Shakram Mechanic
64	Eid Mohammad	Abdul Ahad	Mechanic
65	Safar	Yar Mohammad	Mechanic
66	Mohammad Ghani	Mohammad Sakhi	Mechanic (Hydroleak Pipe Kar)
67	Jawad	Mohammad Zakir	Mechanic Helper
68	Mohammad Naem	Abdullah	Light Vehicles Mechanic
69	Hashmatullah	Mohammad Shah	Light Vehicles Mechanic
70	Sayed Hussain	Sayed Asadullah	Mechanic Helper
71	Almas Khan	Janat Gul	Mechanic Helper
72	Iqbal Ahmad	Atta Mohammad	Mechanic Helper
73	Ali Mohammad	Khair Mohammad	Mechanic Helper
74	Samiullah	Abdul Khalil	Mechanic Helper
75	Zuboor	Mohammad Hussain	Mechanic Helper
76	Abu Muslim	Amanullah	Mechanic Helper
77	Nasrullah	Izatullah	Mechanic Helper
78	Mohammad Hussain	Hassan	Mechanic Helper
79	Abdul Khaliq	Mohammad Omer	Mechanic (Water Pump)
80	Bahruddin	Khwaja Gul	Machinary Washer
81	Hasibullah	Shamsullah	Passenger Car Mechanic
82	Mohammad Monir	Mohammad Noor	Benz & Hino Machines Mechanic
83	Mahiuddin	Niamatullah	Welding Man
84	Mohammad Zakir	Ghulam Hassan	Welding Man
85	Mohammad Nazir	Mohammad Zakir	Welding Man

86	Abdul Wodood	Abdul Mohammad	Welding Man
87	Mohsin	Tila Mohammad	Welding Man
88	Mohammad Azam	Mohammad Rasool	Welding Man
89	Ibrahim	Abdul Malak	Site Fuel Controller/Distributer
90	Ahmad Zia	Abdul Aziz	Site Fuel Controller/Distributer
91	Nasir Ahmad	Mohammad Farooq	Fuel Distributer
92	Mohammad Nadir	Abdul Ghair	Concrete Plant Gress Kar
93	Niaz Mohammad	Dad Mohammad	Excavator Driver
94	Abdul Raziq	Abdul Aziz	Excavator Driver
95	Habibullah	Haji Sakhi	Excavator Driver
96	Abdul Malik	Mamoz	Excavator Driver
97	Mohammad Nabi	Mohammad Karim	Excavator Driver
98	Abdurahman	Tora Baz	Excavator Driver
99	Hijabatullah	Mohammad Amir	Excavator Driver
100	Kalamuddin	Alauddin	Excavator Driver
101	Abul Latif	Abdul Aziz	Excavator Driver
102	Hakum Khan	Bahadar Khan	Excavator Driver
103	Satar	Rajo	Excavator Driver
104	Abdul Karim	Noorullah Jan	Excavator Driver
105	Zundi Gul	Shargul	Excavator Driver
106	Gulab	Sheer Ahmad Khan	Excavator Driver
107	Asadullah	Mirza Khan	Excavator Driver
108	Naqibullah	Mirza	Excavator Driver
109	Bayanullah	Sayed Nabi	Excavator Driver
110	Mohammadullah	Sheer Mohammad	Excavator Driver
111	Samaruddin	Nazar By	Excavator Driver
112	Abdul Hameed	Haji Nadir	Excavator Driver
113	Hamidullah	Haji Waliullah	Dump Truck Driver
114	Allah Nazar	Shah Mohammad	Dump Truck Driver
115	Raz Mohammad	Badrang	Dump Truck Driver
116	Khial Mohammad	Noor Mohammad	Dump Truck Driver
117	Ahmad Javed	Sarfaraz	Dump Truck Driver
118	Ahmad Wali	Abdul Hadi	Dump Truck Driver
119	Peer Mohammad	Sheer Mohammad	Dump Truck Driver
120	Abdul Basir Agha	Sayed Anwar Agha	Dump Truck Driver
121	Fazal Ahmad	Adina Mohammad	Loader Driver

122	Abdurahman	Mir Akbar	Loader Driver
123	Akbar Jan	Ahmadzai	Loader Driver
124	Nik Mohammad	Akhter Mohammad	Loader Driver
125	Nasrullah	Mohammad Aseel	Loader Driver
126	Saifullah	Amir Mohammad	Loader Driver
127	Najeebullah	Mohammad Nazim	Loader Driver
128	Zia-Ul-Haq	Sham-Ul-Haq	Loader Driver
129	Said Wali	Gul Said	Loader Driver
130	Taj Mohammad	Saida Jan	Loader Driver
131	Abdul Haq	Sakhi Jan	Gradder Driver
132	Mirajan	Amin Jan	Gradder Driver
133	Amanullah	Gul Rahman	Gradder Driver
134	Saifullah	Shadi Khan	Gradder Driver
135	Mohammad Nabi	Ali Mohammad	Roller Driver
136	Mohammad Nasim	Shah Wali	Roller Driver
137	Asadullah	Allah Mir	Roller Driver
138	Abdul Satar	Haji Lalik	Roller Driver
139	Peer Mohammad	Haji Mir Ahmad	Roller Driver
140	Miawar	Noor Ahmad	Roller Driver
141	Riza Khan	Nadir Khan	Roller Driver
142	Ghazi Mohammad	Said Mohammad	Roller Driver
143	Bakhtullah	Dad Mohammad	Roller Driver
144	Essa Khan	Habib	Roller Driver

Annexure 5

Daily temperature ratio report of consultant and contractor

International & Local Experts Daily Temperature Ratio Report.

Date: 15/Apr/020

No:	Name	Designation	Temp/Ratio
1	Mr.Park	Team Leader	35.0°
2	Mr.Pushkar	SRE	36.3°
3	Mr.Rashid	P/ME	35.7°
4	Mr.Chudamani	C/S	35.6°
5	Mr. Lee	B/SE	35.5°
6	Mr.Zakir	RE	36.1°
7	Mr.Jafar	P/ME	34.8°
8	Mr.Aseel	S/O	-----°
9	Mr.Nangialai	B/SE	32.2°
10	Mr.Jamil	P/ME	35,8°
11	Mr.hashmat	S/I	36.2°
12	Mr.Noor	Interpreter	34.9°
13	Mr.Noorullah	E/S	36.0°
14	Mr.Zia	O/M	35.7°
15	Mr.Mtin	IT	-----°
16	Mr. Mansoor	D/C	35.9°
17	Mr,Ziaullhaq	Q/S	36.5°
18	Mr.Arifulla	S/I	35.8°

Eshkashim staff Daily Temperature Ratio Report

19	Mr.Habiburhman	S/I	36.0°
20	Ishaq	S/I	36.1°
21	Mr.Ezatullah	B/SE	35.4°
22	Mr.Wafiullah	A/M	35.5°
23	Mr. Naweed	cook	35.6°
24	Mr,Sebghat	Guard	36.1°
25	Khalifa Nabi	Driver	35.3°

Park Jong Ha

Meeting for the precaution COVID-19 with contractor

Daily checking of the staff temperature

Daily checking temperature of the contractor incoming and outgoing people.

Annexure 6

photos of construction activites of the project during the reporting period

Subgrade preparation at km 4+600

Subgrade compaction at km36+900

Raitining wall at km 17+700

Sub base at km 77+900

Retining at site km 66+600

Construction at km 44+700

	
Flagman for control of traffic km 16+800	Welding work at workshop km 70+900
	
First aid box at each site camp and office	First aid box at each site camp and office

Water sprying for the control of dust at km 5+300

Water sprying for the control of dust at km 12+300

Compaction of the Subgrade at km 22+300

Compaction of the Subgrade at km 66+330

Hard cutting at km 33+400

Puring of the concrate of box culvert at km 16+500

Hard cutting at km 32+500

Binder work at km 7+600

Annexure 7

The Sensitive location identified close to the project

Sensitive Receptor	Description	Latitude (N)	Longitude (E)	District/Village	Approx. dist. Meter	Photo of Receptor
School	Mukhtalit High School	36.97191	70.91858	Yardar	90 M away from center line at Right Side	
School	Ahli mughul high school	36.95739	70.99652	Ahil mughul	90 M away from center line at Right Side	

School	Wardoj high school	36.91399	71.06067	Wardoj district	80 M away from center line at Right Side	
School	Bashin high school	36.83395	71.06447	Bashin	70 M away from center line at Right Side	
School	bazgir high school	36.6338	71.42596	Bazgir	70 M away from center line at Left Side	

School	Zerkhan high school	36.6338	71.42596	Zerkhan	130 M away from center line at left Side	
Mosque	Hazrat Omer bin faroq	36.9798	70.90071	Dasht e baharak	100 M away from center line at left Side	
Mosque	Qala masjid	36.96134	70.968	Qala	60 M away from center line at left Side	

Mosque	Ishta kan	36.95154	71.02633	Ishta kan village	100 M away from center line at left Side	
Canal	Pas e Bagh	36.95154	71.02633	Pas e Bagh	80 M away from center line at Right Side	
Canal	Rabat canal	36.59639	71.52218	Rabat village	70 M away from center line at Right Side	

Canal	Bazgir	36.64492	71.45965	Bazgir	90 M away from center line at Right Side	
Clinic	Bazgir	36.91733	71.0614	Bazgir	60 M away from center line at Right Side	
Clinic	Kazdi	36.63489	71.15634		60 M away from center line at Left Side	

Clinic	Eshkahim clinic	36.70345	71.56542	Eshkashim District	80 M away from center line at Left Side	
River	Kokch	36.94895	71.03957	From baharak to Zebak District	200 M away from center line at Left Side	
Crasher Plant	Sufyan crasher plant	36.76852	71.07609	Sufyan village	500 M away from center line at Left Side	

Crasher Plant	Sediq Section crasher plant	36.57919	71.27372		500 M away from center line at Left Side	
Crasher Plant	Crasher plant of haji ghazni	36.60901	71.38881	Bazgir	700 M away from center line at Left Side	
Asphalt plant	Haji Arif Asphalt Plant	36.84893	71.006613	Ghiniw village	600 M away from center line at Left Side	

Asphalt plant	Horon Section Asphalt plant	36.62781	71.1687	Kazdi	150 M away from center line at Right Side	
Asphalt plant	Ghazni gull asphalt plant	36.60894	71.39003	Robati chelistan village	300 M away from center line at Left Side	
City	Wardoj city	36.91816	71.06154	Wardoj District	50 M away from center line both side	

City	Zebak city	36.60252	71.38996	Zebak District	90 M away from center line at Left Side	
City	Eshkashim city	36.70502	71.57195	Eshkahim district	60 M away from center line both side	
Electrical Dam	Robat electrictal dam	36.59395	71.25189	Robat village	60 M away from center line at Right Side	

Site Camp	Wardoj camp	36.9436108	71.058874	Khesraw village	300 M away from center line at left Side	
Site Camp	Sufyan camp	36.68853	71.1333		200 M away from center line at left Side	
Site Camp	Sediq camp	36.59827	71.24387	Robat village	160 M away from center line at left Side	

Site Camp	Consultant camp	36.70593	71.56425		700 M away from center line at left Side	
Village	Adam Beki	36.96707	70.93649	Adam Beki	70 M away from center line at left Side	
Village	Qala	36.96113	70.96749	Qala village	50 M away from center line at left Side	

Village	Naw abad	36.67532	71.13301	Naw abad village	100 M away from center line at left Side	
Village	Teshken	36.70252	71.55319	Teshken village	80 M away from center line at left Side	
Village	Nechem	36.71298	71.57888	Nechem village	80 M away from center line at left Side