

Environmental Monitoring Report

Project Number: 44458-013

Reporting period: January-June 2021

#12 Semi-annual Report

October 2021

UZB: Amu Bukhara Irrigation System Rehabilitation Project

Loan No. 3025/3026 - UZB

(Financed by the Asian Development Bank)

Prepared by Project Implementation Unit of Amu Bukhara Irrigation System Rehabilitation Project for the Ministry of Water Resources of Uzbekistan Republic and Asian Development Bank

CURRENCY EQUIVALENTS

(as of 27/July/2021)

| | | |
|---------------|---|--------------|
| Currency unit | – | uzs (лв) |
| лв 1.00 | = | \$ 0.0000938 |
| \$1.00 | = | лв 10,657.35 |

ABBREVIATIONS

| | | |
|--------|---|--|
| ABIS | – | Amu Bukhara Irrigation System |
| ABISRP | – | Amu Bukhara Irrigation System Rehabilitation Project |
| ADB | – | Asian Development Bank |
| BISA | – | Basin Irrigation System Administration |
| CNTIC | – | China National Technical Import and Export Corporation |
| EEC | – | Environmental expert of consultant |
| EIA | – | Environmental impact assessment |
| EHS | – | Environmental health and safety |
| EMP | – | Environmental management plan |
| EMMP | – | Environmental management and monitoring plan |
| EMR | – | Environmental monitoring report |
| GTS | – | General Technical Specification of Contract |
| GoU | – | Government of Uzbekistan |
| HGME | – | Hydrogeological Meliorative Expedition |
| IA | – | Implementing agency |
| IEE | – | Initial environmental examination report |
| ISA | – | Irrigation System Administration |
| JICA | – | Japan International Cooperation Agency |
| MWR | – | Ministry of Water Resources of Uzbekistan Republic |
| M&ES | – | Monitoring and evaluation specialist |
| OHS | – | Occupational Health and Safety |
| PIU | – | Project implementation unit |
| SAEMR | – | Semi - annual environmental monitoring review |
| SC | – | Supervision consultant |
| SE | – | Site Engineer |
| SEMP | – | Site environmental management plan |
| SPS | – | Safeguard Policy Statement |
| PNPC | – | Provincial level of State Committee for Nature Protection (Oblkompriroda) |
| PPE | – | Personal protective equipment |
| PS(s) | – | Pump station(s) |
| WCA | – | Water Consumers' Association |

{WEIGHTS AND MEASURES}

| | | |
|----------------|---|-----------------|
| dB | – | Decibel |
| dB(A) | – | Decibel A Scale |
| ha | – | hectare |
| m ³ | – | cubic meter |

GLOSSARY

- | | |
|-------------------------------------|---|
| Emergency Response Plans | – Plan to address contingencies associated with process upset and accidental circumstances. They include clearly assigned responsibilities for the assessment of the degree of risk to life and property with procedures on whom to communicate different types of emergencies and how. |
| Environmental Assessment | – A generic term used to describe a process of environmental analysis and planning to address the environmental impacts and risks associated with a project. The assessment may take the form of an EIA, IEE, environmental audit, or Matrix of Environmental Impacts. |
| Environmental Audit | – An instrument to determine the nature and extent of all environmental areas of concern at an existing facility or a facility under construction. The audit identifies and justifies appropriate measures to mitigate the areas of concern, estimates the cost of the measures, and recommends a schedule of implementation. For certain projects, the environmental assessment report may consist of an environmental audit alone; in other cases, the audit is part of the environmental assessment documentation. |
| Environmental Management Plan (EMP) | – A plan that guides the implementation of environmental management and mitigation measures. It contains the following key elements: mitigation measures, implementation and monitoring program, cost estimates, resource requirements, budget, and institutional arrangements. |
| Environmental Monitoring Plan | – A plan that details environmental monitoring and reporting requirements, including parameters to be measured, methods, sampling locations, frequency of measurements, detection limits, and definition of thresholds that will signal the need for corrective actions; typically, a part of an EMP. |
| Hazardous Waste | – Substances classified as hazardous waste possess at least one of four characteristics - ignitability, corrosivity, reactivity, or toxicity - or appear on special lists. |

NOTE

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

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1 INTRODUCTION

1.1 Preamble

1. This report represents the Semi - Annual Environmental Monitoring Review (SAEMR) for AMU BUKHARA IRRIGATION SYSTEM REHABILITATION PROJECT.
2. This report is the 12th EMR for the project.

1.2 Headline Information

3. In order to realize a sustainable and reliable water supply in Amu Bukhara Irrigation System (ABIS), the Project is expected to achieve the following outputs:
 - a) Construction of one new pump station, and modernization and rehabilitation of four existing ones.
 - b) Increase in the conveyance efficiency of the main canal of ABIS.
 - c) Increase in the capacity of Basin Irrigation System Administration (BISA), Irrigation System Administrations (ISAs), water consumers' associations (WCAs), and farmers to adapt to climate change, and
 - d) Efficient management of project and ABIS.
4. The Ministry Water Resources of Uzbekistan Republic (MWR) has agreed to implement the Environmental Management Plan (EMP) and submit regular reports on its implementation. The Initial Environmental Examination Report (IEE), including the EMP, has been published on the Asian Development Bank (ADB) website.¹ During project implementation, ADB and Japan International Cooperation Agency (JICA) will each be responsible for safeguard compliance in their respective project activities. In addition, JICA will provide parallel financing of \$100.0 million equivalent for the costs of (i) two turnkey contracts (Modernization and Rehabilitation of New Amu Bukhara pump station and M&R of Kizil-Tepa auxiliary pump station) under output 1 of the project; and (ii) the consulting services required for the design and construction supervision of item (i) above. JICA will fully administer the scope of works of its parallel financing.

¹ [Amu Bukhara Irrigation System Rehabilitation Project: Initial Environmental Examination | Asian Development Bank \(adb.org\)](https://www.adb.org/projects/345211230000000000/operation-reports-and-documents/initial-environmental-examination)

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

5. The site of Amu Bukhara Irrigation System (ABIS) Rehabilitation Project (ABISRP) is in the central part of Uzbekistan on the right bank of Amu Darya River bordering to Turkmenistan. Bukhara is 563 km far from the capital Tashkent. The project covers lands of Bukhara and Navoi provinces. The ABIS is very important for the area and gives life as an oasis.
6. The ABIS supplies water to already irrigated lands, cities, settlements, and industries in Bukhara and Navoi provinces through a series of large cascading pump stations and thousands of kilometers of conveyance canals. It also drains the excess water through drainage system outside of the project area.
7. The ABIS, with a command area of 315,000 ha, serves the irrigated lands of the Bukhara Zarafshan and Karakul oases and the Karaul Bazar massif. The population in the ABIS command area is about 1,788,000 people, including 1,550,000 in Bukhara and 239,000 in two districts of Navoi, of which 68% live in rural areas and fully rely on irrigated agriculture. It is particularly important to supply reliable water to these people in the region. ABIS also supplies water for municipal and industrial purposes.
8. The aim of the Project is to improve the irrigated agriculture and water resources management in the ABIS, with the goal of promoting sustainable economic and social welfare of communities dependent upon ABIS. The Project objectives are:
 - a) modernization and rehabilitation of obsolete pump stations.
 - b) increase of conveyance efficiency in ABIS main canal.
 - c) increase climate change adaptation capacity; and
 - d) increase efficiency of project management and irrigation system management.

2.2 Project Contracts and Management

9. Summary of civil works contracts and works' progress is summarized in
10. Table 2-1. Supervision Consultant prepared IEE and updated on October 2015 in English and Russian. Russian version of IEE was used as environmental impact report and submitted to State Committee for Nature Protection of the Republic of the Uzbekistan in June 2016. State Ecological Expertise (SEE) was obtained in October 2016. All awarded contracts included EMPs cleared by ADB and any conditions of applicable national EIA (Environmental Impact assessment)/IEE clearance.

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Table 2-1 Summary of Civil Works Contracts and works' progress

| Contractor | Scope | Contract Signed | SEMP approved | COVID-19 HSMP | ERP | Environmental personnel | | Civil Work Start | Civil Work Ends | | Progress,% | |
|---|---|-----------------|---------------|-----------------|-----------------|--|--|------------------|-----------------|----------|-------------------|--------------------|
| | | | | | | Environmental officer | Health and safety officer | | as per contract | actual | As of 31 Dec 2020 | As of 30 June 2021 |
| China National Technical Import and Export Corporation (CNTIC) | Construction of Amu Bukhara 1 NEW Pump Station (ABISRP 01) | 02/08/2019 | 17/09/2021 | 30/11/20 | 30/11/20 | Egamov Murod | Egamov Murod | 16.11.19 | 04.09.23 | ongoing | 13.71 | 17.6 |
| Consortium LLC "Kogon Suv Qurilish" and JSC "Amubukhorokanalkurilish" | Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) | 18/03/2016 | 06/12/2016 | Not issued yet. | Not issued yet. | Izamov Amin Ashurovic hired at the project beginning period. Does not exist anymore. | Izamov Amin Ashurovic hired at the project beginning period. Does not exist anymore. | 30.11.16 | 12.04.22 | ongoing | 28.10 | 52.5 |
| Hebei Construction Group Co., Ltd, Hebei Province, China | Modernization & Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.01) | 21/12/2016 | 14/12/2017 | 09/12/20 | 09/12/20 | Miao Guowang | Miao Guowang | 01.09.18 | 15.04.21 | 22.04.21 | 100 | 100 |
| Hebei Construction Group Co., Ltd, Hebei Province, China | Modernization & Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.02) | 21/12/2016 | 14/12/2017 | 09/12/20 | 09/12/20 | Zhang Zehui (January - February 2021) / Miao Guowang (April - June 2021) | Zhang Zehui (January - February 2021/ Miao Guowang (April - June 2021) | 01.09.18 | 30.04.21 | ongoing | 93.26 | 98.1 |
| Consortium LLC "Kogon Suv Qurilish" and JSC "Amubukhorokanalkurilish" | Rehabilitation of inter-farm and on-farm pilot irrigation network (ABISRP/NCB/04) | 30/06/2016 | 06/12/2016 | Not issued. | Not issued. | Izamov Amin Ashurovic | Izamov Amin Ashurovic | 22.08.16 | 10.09.17 | 10/09/17 | 100 | 100 |

SSEMP = site-specific environmental management plan

HSMP = Health and Safety Management plan

ERP = Emergency Response Plan

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11. A list or table of main organizations involved in the project and relating to Environmental Safeguards is given at Table 2-2 below. It includes lender, borrower, PIU (Project implementation unit), Main Contractor/s and significant sub-contractors, environmental staff of various organizations with their names and contact details.

Table 2-2 Environmental Safeguards of ABISRP

| | |
|-------------------------------|---|
| Lender | Organization: Asian Development Bank Staff Name: Kyoko Uematsu Designation: Environment Specialist, CEF E-mail: kuematsu@adb.org Staff Name: Feruza Insavaliyeva Designation: Associate Safeguards Officer, URM Email: finsavaliyeva@adb.org Tel: + 998 78 1401920 Organization: ADB/RETA International Environmental Staff Name: Keti Dgebuadze Designation: Safeguards Consultant E-mail: kdgebuadze.consultant@adb.org Tel: +995 322 250619 |
| Borrower/PIU | Ministry of Water Resources of Uzbekistan Republic Organization: Project Implementation Unit Environmental Staff: Mr. Sardor Pulatov E-mail: abisr@mail.ru Tel: +998 99 895 82 31 |
| Supervision Consultant | Organization: JV Temelsu International Engineering Services Inc. Sheladia Associates Inc Environment Specialist (International): Mr. Saban Cimen Email: saban.cimen@temelsu.com.tr Tel: +998 90 317 36 11 Environment Specialist (local): Mr. Sherzod Sunatulin Email: shonic1987@mail.ru Tel: +998 90 966 59 54 |
| Contractors | Construction of Amu Bukhara 1 NEW Pump Station (ABISRP 01) China National Technical Import and Export Corporation (CNTIC) Environmental Staff: Egamov Murod Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Consortium LLC "Kogon Suv Qurilish" and JSC "Amubukhorokanalkurilish" Environmental Staff: - Modernization and Rehabilitation of Kuyu Mazar and Kizil Tapa Pump Stations (ABISRP 03) Modernization & Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.01) Hebei Construction Group Co., Ltd, Hebei Province, China Environmental Staff: Mr. Miao Guowang Email: 66326632@qq.com Tel: +998972812666 |

Modernization & Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.02)

Hebei Construction Group Co., Ltd, Hebei Province, China

Environmental Staff: Mr. Zhang Zehui (January -February 2021) / Mr.
Miao Guowang (April – June 2021)

Email: 505735114@qq.com

Tel: +998997568278

Rehabilitation of inter-farm and on-farm pilot irrigation network (ABISRP 04)

Kogon Suv Qurilish LLC

Environmental Staff: Mr. Izomov Amin Ashurovic

12. The following organizations and/or staff will be responsible for environmental monitoring:
- Basin Irrigation System Authority of Regions
 - Contractor of any Subcomponent
 - Civil Engineer of Consultant
 - Climate Change Mitigation Specialist
 - Environmental Expert of Consultant (EEC)
 - Electrical Engineer of Consultant
 - Ministry of Health
 - Project Manager of Consultant
 - Project Implementation Unit
 - Water Consumer Associations
13. The key staff for the environmental management and monitoring activities is Mr. Sardor Pulatov, as PIU's Monitoring and Evaluation Specialist (M&ES). He has all responsibilities and tasks related to environment, land, social (including involuntary resettlement and indigenous people), and poverty and gender aspects in accordance with the environment and social safeguard documents and Summary Poverty Reduction and Social Strategy, all of which are project linked documents. Specifically, PIU Monitoring and Evaluation Specialist:
- takes responsibility for monitoring and evaluating performance targets and indicators with baselines indicated in the Design and Monitoring Framework of the project document for all dimensions with support from the implementation consultant.
 - provides necessary guidance to the Poverty, Social and Gender Officer in the PIU of Bukhara to collect relevant information on poverty, gender, and social aspects in relation to the Design and Monitoring Framework of the project document and Summary Poverty Reduction and Social Strategy.
14. Additionally, in relation to the environmental aspects, with the support from the international consultant the PIU Environmental Monitoring and Evaluation Specialist will:

- ensure that Environmental Management Plan (EMP) is updated during detailed design completed,
 - ensure that bidding documents include all requirement to implement IEE and its EMP.
 - ensure that the bidder selected will have adequate resources to implement and update EMP.
 - undertake safeguards monitoring activities and prepare safeguard reports to be submitted to ADB.
 - ensure that all construction works will be taken place in the permanent land possession of BISA.
 - if additional land required for construction works, ensure that land acquisition and resettlement plan is prepared in accordance with ADB SPS (Safeguard Policy Statement) 2009 as well as the Government law and regulation related with land acquisition; and
 - ensure that other project-related tasks are complied with ADB SPS 2009 and Government requirement.
 - to review and approve Site-Specific and Topic Specific Management Plans prepared by Construction Contractor.
15. PIU as responsible IA (implementing agency) for the project recruited a Supervision Consultant (SC) – consortium: «Temelsu International Engineering Services Inc» and «Sheladia Associates Inc.». The International EEC (Mr. Saban Cimen) and national EEC (Mr. Sherzod Sanatulin assist M&ES of PIU in the supervision of the construction activities under the Project.
16. The part of the work of the Environmental Experts of the Consultant is to develop a capacity building training program for Contractor's Environmental Officers in order to increase the implementation efficiency of environmental monitoring. The timing of this program will be just before the commencement of civil works. Environmental Experts of the Consultant will develop the content of training.

2.3 Project Activities During Current Reporting Period

17. China National Technical Import and Export Corporation (CNTIC) Contractor of the Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) construction of living and office areas at construction camp has been completed. It has been reported by the Contractor that cumulatively 107 rooms of living and office areas have been completed. Construction of the building of the on-site steel bar processing plant has been completed in February 2021. The equipment installation of the on-site steel bar processing plant has been done in March 2021. The construction of the sand-gravel cushion of the plant foundation has been completed in May 2021. The foundation pit cushion concrete, waterproof layer construction and foundation pit mortar protective layer have been done in June 2021. The design of pumps, motors and main valves have been completed and manufacturing is in progress. Detailed design and review of the design of the pump station building, and auxiliary mechanical and electrical systems has continued during the reporting period.
18. Regarding to the Contract of the Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02), within the reporting period, the

Contractor has mainly engaged with: rehabilitation of the guide slots of gates, gratings, cable channel and the concrete walkway, and installation of the new gates and lifting mechanisms, removal of cofferdams at the upstream and downstream of Regulator ABMK- 2 on Hydrosystem Prokop, elimination of deficiencies on Hydrosystems Djilvan and Rostguy (installation of fences around transformers), and elimination of deficiencies on Hydrosystems Outflow-1 on ABMK-1 (replacement of handrails around the structure).

19. Under the Modernization and Rehabilitation of Kuyu Mazar and Kizil Tepa Pump Stations (PS(s)) (ABISRP 03) there are two contracts: Modernization & Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.01) and Kizil Tepa Pump Station (ABISRP 03.2). Contracts were signed and became effective by September 2017.
20. **Kuyu Mazar PS:** The works have been substantially completed including the completion of painting of interior walls of PS in March 2021, grouting of leaking walls of pump house and construction of the peripheral roads in April 2021. Besides that, collection of technical passport and quality certificates for all mechanical and electrical equipment, and preparation of O&M Manuals for all mechanical and electrical equipment have been completed in February 2021.
21. Contractor has declared that the construction works have been completed on 22/April/2021. A working commission from various local Government Organizations has been established. The working commission included the following local organizations of Bukhara Region:
 - Uzosavnadzora (Uzbekistan State Water Inspection and Amu-Bukhara Irrigation Systems Basin Department)
 - Bukhara territorial department Uzenergoinspektsiya (Uzbek Energy Inspection)
 - GASN (State Architectural and Construction Supervision)
 - State Committee of the Industrial Safety
 - Emergency Situations Administration
 - Administration of Sanitary and Epidemiological Safety and Public Health
 - Environment Administration
 - Employment Department on Labor Protection of the State Labor Inspectorate
22. After commissioning study in the field SC has issued the list of defects/deficiencies and incomplete items on 24/May/2021, including the comments of both SC and working commission of various local government organizations. The contractor has been informed mainly mechanical, electrical, civil deficiencies, incomplete spare parts, as well as general deficiencies and comments provided by various local government authorities. In general deficiencies are not major ones and will not constitute the hindrances to operation of the PS.
23. The defects/deficiencies and incomplete items listed by SC are shortly:
Mechanical works deficiencies:
 - Deficiencies related to some main pumps.

- Deficiencies related to technical water supply system associated with sediment basin and filter room.
- Deficiencies related to forebay, discharge and intake hydraulic steel structure equipment.
- Deficiencies related to heating, ventilation, and air conditioning systems
- Deficiencies related to equipment in mechanical workshop

Electrical works deficiencies:

- Deficiencies related to 6kV MV Cubicles.
- Deficiencies related to 0.4kV Main Distribution Boards
- Deficiencies related to instrumentation and control systems, control room – hardware and software
- Deficiencies related to equipment in electrical workshop

Civil works deficiencies:

- Deficiencies at the inside of the pumping station machine room
- Deficiencies at the underground part of the pump station
- Deficiencies at the room of duty operator of the pump station
- Clearance of site after completion according to the article 22.7.2 of General Conditions of Contract.
- Deficiencies at soil dump areas.
- Deficiencies at the pumping station territories.
- Deficiencies in the trash rack structure on the Kuyu-Mazar canal.
- Deficiencies in the filter room.
- Deficiencies at House No. 1 and 2 for service personnel and operation.
- Deficiencies related to vacuum break valve.
- Deficiencies related to horizontal drainage.

Deficiencies of mandatory Spare Parts:

- Spare part deficiencies at the intake structure and pump house intake stoplogs.
- Spare part deficiencies at the discharge pipeline.
- Spare part deficiencies at the main pumps.
- Spare part deficiencies diesel engine.
- Spare part deficiencies motors.

- Spare part deficiencies of uninterruptible power supply.
- Spare part deficiencies of intake trash rack cleaning machine.
- Spare part deficiencies at the pump maintenance cranes.
- Spare part deficiencies at the main pumps.

General deficiencies on completion of the Contract:

- All as-built drawings of the Project should be completed as per the Contract.
- All missing supportive documents for the executed works should be completed as per the Contract.
- General Spare Parts, as identified and classified on Clause 15.7 of Chapter 15- General E&M Design of General Technical Specification should be supplied.
- All recommended spare parts for three (3) years operation of the pump station should be supplied.
- O&M Manuals should be handed over to the Operator with an act.
- An act demonstrating satisfactorily conduction of trainings given to the pump station staff of OD ABMC should be prepared.
- Insurances should be extended in accordance with the Contract conditions

Comments of members of the working commission of various local government organizations on the Contract:

- Uzosavnadzora (Uzbekistan State Water Inspection and Amu-Bukhara Irrigation Systems Basin Department mainly give comments on the mechanical issues including water, oil leakages, replacement of some bolts and nuts with stainless steel types and inefficient drainage in the drainage room.
- Bukhara territorial department Uzenergoinspektsiya (Uzbek Energy Inspection) provided the comments about the electrical equipment and electrical works.
- GASN (State Architectural and Construction Supervision) administration provided comments about the entrance door to the Indoor Switchgear room on the main building, quality of improvement works is poor, warning barriers (signal posts) are not installed at various locations.
- State Committee of the Industrial Safety asked the contractor to provide documents about the overhead crane.
- Emergency Situations Administration requested to install fire alarm system in the indoor switchgear section, increase the capacity of concrete fence around the perimeter of oil storage tanks, and provision of the separate premises for the motor pump and the fire hoses with hose nozzles.
- Administration of Sanitary and Epidemiological Safety and Public Health requested the provision the pump station workers with the first aid kits, including 16 types of medicines in it, full completion of the installation works on plumbing devices for the living complex (toilet, shower room, etc.), carrying out of landscaping works around

living complex (planting ornamental and fruit trees), provision the area with the little bins.

- Environment Administration requested provision with the little bins, at least 6 numbers.
- Employment Department on Labor Protection of the State Labor Inspectorate requested that provide all electrical female sockets with safety signs, ensure that the electrical panels are always kept closed, provision of heater in the workers leisure room, provide the sanitary conditions in the telecommunication premises, development of instructions for the safe use of all devices working with electric current, provision of all axillary premises (hotels, workers' relaxing room) with first aid kits and fire extinguishers.

24. **Kizil Tepa PS:** The Contractor mainly engaged with the following works in the PS:

- Installation of the main pump units #6 and 7 has continued and the pump #7 has recently been put into operation,
- Coating defect on the impeller of the main pump unit #5 has been remedied by the manufacturer and the relevant impeller's reassembly has been completed,
- Finishing works on the facade and interior walls and ceilings of the pump station building have continued,
- Completion of the replacement works of the main pump units and putting into operation of all the pumps in the current irrigation season,
- Reconstruction of peripheral asphalt pavement around the PS (has been 50% completed),
- Construction of lodging buildings of the Operator's staff, domestic water supply tank and septic tank for the PS (has almost been 90% completed),
- Injection works to stop leakage on the underground walls of the PS building (has almost been 70% completed)

25. The main project activities carried out during the reporting period include the following:

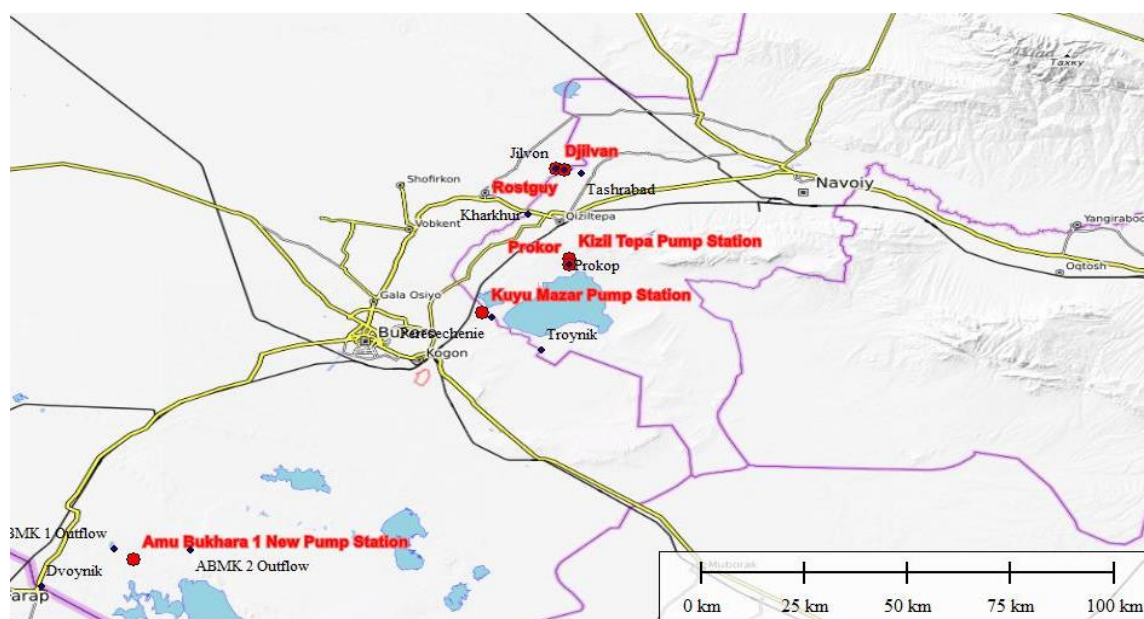
Table 2-3. Construction Activities Carried out During Reporting Period (January 2021- June 2021)

| Site | Construction Activity | Number of Workers | |
|--|--|-------------------|---------|
| | | Maximum | Minimum |
| Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) | | | |
| Bukhara-Olot | Construction of working camp, of building of the on-site steel bar processing plant, the sand-gravel cushion of the plant, installation of the equipment at the on-site steel bar processing plant, design of pumps, motors and main valves completed. Design of the pump station building, and auxiliary mechanical and electrical systems continues. | 119 | 21 |
| Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) | | | |

| Site | Construction Activity | Number of Workers | |
|--|--|-------------------|---------|
| | | Maximum | Minimum |
| Prokor | Construction of regulator on Prokop continues, installation of fences around transformers at Djilvan and Rostguy completed. | 15 | 5 |
| Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) | | | |
| Bukhara-Kuyu Mazar | Kuyu Mazar Pump Station works have been substantially completed, the contractor is requested to complete deficiencies and defects. | 29 | 18 |
| Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) | | | |
| Navoi-Kizil Tapa | Kizil Tapa Pump Station installation of main pump units completed, repairment of defects, finishing works and reconstruction works of peripheral asphalt pavement continues. | 32 | 25 |

26. The construction works at Amu Bukhara 1 New Pump Station has been started in February 2020 during the (10th) reporting period (January 2020 - June 2020), just after the mobilization of the Contractor. The construction works are still under progress.
27. The construction works within the scope of the Contract on ABISRP 02 was commenced on March 2016 by the consortium LLC “Kogon Suv Kurilish” / JSC “Amubukhorokanalkurilish”. The construction works are still under progress.
28. The construction works at Kuyu Mazar, and Kizil Tapa Pump stations have been started during the (6th) reporting period (January 2018 - June 2018) and has not been fully completed yet.
29. A map of construction sites during the reporting period is given at the Figure 2-1.

Figure 2-1 Map of Construction Sites Showing Construction Activities Carried out During Reporting Period (January 2021 -Jun 2021)



30. Photos of construction works are given in Annex II and below.

| | |
|--|---|
|  |  |
| <p>Construction of Amu Bukhara 1 NEW Pump Station (ABISRP 01) Dewatering works</p> | <p>Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Construction Works at Prokop Regulator</p> |
|  |  |
| <p>Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) Improvement of Slopes</p> | <p>Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2)</p> |

31. No changes happened during the reporting period of the project design from that which was assessed in the Impact Assessment phase of the project and is set out in the Initial Environmental Examination/Environmental Impact Assessment.

2.4 Description of Any Changes to Agreed Construction methods

32. No changes to any construction processes have been observed during the construction period.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

33. The activities carried out during the reporting period by the environmental staff who are related to the project activities have been summarized at the following Table 3-1.

Table 3-1: Environmental Safeguards Activities Carried out During Reporting Period (January 2021 - June 2021)

| Environmental Safeguard Activities |
|---|
| |
| <p>Associate Project Officer (Feruza Insavaliyeva) at Uzbekistan Resident Mission</p> <ul style="list-style-type: none"> - Site visit conducted in June 2021. |
| <p>The International environmental expert (Saban Cimen) of Supervision Consultant (EEC)</p> <ul style="list-style-type: none"> - No field activity of international expert has been recorded since January 2020 due to COVID-19 travel restriction. - Review of the SAEMR with the information provided by the local experts and supervision team and clear the report before submission to ADB. - Ensure the corrective actions are implemented by the deadline. |
| <p>Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) (Responsible Environmental Manager: Egamov Murod)</p> <ul style="list-style-type: none"> - Submitted EMP integrated to Monthly Progress Reports (January, February, March, April, May and June 2021) |
| <p>Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) (Responsible Environmental Manager: Not designated)</p> <ul style="list-style-type: none"> - During the reporting period the contractor has not submitted any environmental monitoring reports, conducted training or activity etc. Therefore, any Environmental Safeguard Activity has not been observed during reporting period. |
| <p>Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) (Responsible Environmental Manager: Miao Guowang)</p> <ul style="list-style-type: none"> - Preparation of environmental monitoring reports (January, February, March, and April 2021) - Training of Working Staff on Environmental Issues |
| <p>Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) (Responsible Environmental Manager: Zhang Zehui)</p> <ul style="list-style-type: none"> - Preparation of environmental monitoring reports (January, February, March, April, May and June 2021) - Training of Working Staff on Environmental Issues. |

34. Due to travel restrictions applied due to COVID-19 international expert was not able to visit site during the reporting period.

3.2 Site Inspections

35. The safeguards rating of 44458-013 (L3025/L3026) Amu Bukhara Irrigation System Rehabilitation Project is currently "At Risk" because Implementation of time-bound corrective action plan actions overdue for more than 3 months. According to the environmental monitoring report (EMR) for Jul-Dec 2020, some corrective actions proposed by the previous EMR for Jan-Jun 2020 (levelling and planting of soil areas and SSEMP preparation) were not implemented as of 31 December 2020. Based on the site visit conducted by Uzbekistan Resident Mission Mrs. Feruza Insavaliyeva) in June 2021, these corrective actions were not implemented. It has been reported by the e-mail date 12/July/2021 of ADB also COVID-19 Emergency Response Plan has not been prepared, despite ADB's request in 2020 Q3. The message instructed that; status of the progress will be informed by the EMR for Jan-Jun 2021.
36. A video conference has been conducted on 19/July/2021 about the findings and implementation of actions with the participation of ADB environmental safeguard specialists, PIU and SC, to discuss the implementation status of the corrective action plans and COVID-19 Emergency Response Plan. The following explanations have been made by SC during the video conference.
- Issuance of the Semi-Annual Environmental Monitoring Reports on regular basis by the Engineer's Environmental Specialist, both in English and Russian, so that the reports can be disclosed in the webpage of the Employer and accessible by the Contractors;
 - Periodical inspection of the sites by the Environmental Local Specialist;
 - Full time appointment of a Junior local Staff for monitoring of the environmental issues and the performance of the Contractors;
 - Issuance of the Engineer's Emergency Response Plan dated 19/May/2020;
 - Issuance of the Engineers Health and Safety Plan-Covid 19 dated 2/November/2020.
37. Engineer's Health and Safety Plan-Covid 19 dated 2/November/2020 was submitted to the Employer and officially introduced to the Contractors, requesting themselves through official letters to incorporate their Health and Safety Plan-Covid 19 into the Environmental Management Monitoring Plans.
38. Further to that, the following action plan is implemented diligently for improvement of the status of the environmental issues:
39. Meetings have been held with the Contractors to review the status of the environmental issues on 13/July/2021:
- CNTIC for ABISRP 01
 - Kogan Suv Kurulus for ABISRP 02 and
 - HEBEI for ABISRP 03. 1 and 03.2,
40. A further meeting was held on 14.07 2021 with Kogan Suv Kurulus.
- Update of Site-Specific Environmental Monitoring Plans with respect to the HS Plans COVID-19 pandemic preparedness have been requested and to submit regularly the periodical reports including the following key performance indicators:

- Induction and trainings
 - Exercises and drills,
 - Incidents,
 - Review and actions for closure the identified non-conformances,
 - Commitment of the Contractors for monitoring of environmental issues
41. The Contractors have been notified about non-conformances which are still open, and their urgent action has been requested. The actions as to the spoil disposal areas have been emphasized, as documented in the enclosures, and agreement is required on the actions by the Local Ecology and Environmental Protection Headquarter.
42. In case of non-conformances, the Contractors shall be deemed to be responsible for implementing the necessary actions within reasonable durations. Otherwise, actions shall be implemented to the Contractors such as suspension of the payment of the IPCS and acceptance procedures.

Regular site monitoring visits were carried out during the reporting period by PIU and Environmental Specialist of SC to check up realization of environmental protection measures parallel to civil works inspection as indicated below:

Table 3-2: Environmental Inspections Carried out During Reporting Period (January 2021 - June 2021)

| Date | Conducted by | Purpose | Findings | Corrective Actions |
|---------------------------|--|---|---|---|
| Daily Routine site visits | Supervision Consultant Site Engineers (SE) | General, Environmental and OHS (Occupational health and safety) | Usage of PPE (Personal protective equipment) has not been used in all | Daily check, and immediate cautions to the Contractors. |

43. The contractor of Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) has submitted third version of Site Specific Environmental Management Plan (SSEMP) on 28th January 2020 to PIU/SC. The comments given to SEMP by PIU/SC has been delivered to the contractor on 4th February 2020. Fourth, updated version of the SEMP has been received on 21st April 2020 and comments is given to the fourth version of the SEMP on 22nd April 2020. SEMP is expected to comply with the contract requirement during the reporting period. Since no progress have been observed related to the submission of the SEMP, the Contractor has been notified as indicated in the paragraph 36. Since no penalties applied to the Contractor related to the Contractor the Contractor does not comply with the requirements such as submission of SEMP.
44. It has been requested from the contractors to send monthly environmental monitoring activities which could be integrated into the monthly progress report. During the reporting period the environmental monitoring reports (EMR) which have been received from the contractors have been indicated in the Table 3-1.
45. Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) contractor has issued the EMR for January, February, March, April, May and June 2021 which have been integrated into the Monthly Progress Reports of the relevant months.

46. Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor has not submitted any EMR for months January, February, March, April, May and June 2021. Since no progress have been observed related to the submission of the SEMP, the Contractor has been notified as indicated in the paragraph 36. Since no penalties applied to the Contractor related to the Contractor the Contractor does not comply with the requirements such as submission of EMR.
47. Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) contractor has issued the EMR for January, February, March, and April on time.
48. Modernization and Rehabilitation of Kizil Tepa Pump Station (ABISRP 03.2) contractor has issued the EMR for January, February, March, April, May and June 2021 on time.
49. Mr. Miao Guowang is the Health, Safety and Environmental Manager of Kuyu Mazar Pump Station (ABISRP 03.1) contractor. The local Health, Safety and Environmental expert of the contactor is Mr. Aziz Juraev.
50. Mr. Zhang Zehui was the Health, Safety and Environmental Manager of Kizil Tepa Pump Station (ABISRP 03.2) contractor during January – February 2021, he has been replaced with Mr. Miao Guowang in April. Both Health, Safety and Environmental Managers cooperated with local Health, Safety and Environmental expert Mr. Aziz Juraev.
51. Mr. Yang Guo is the Health, Safety and Environmental Manager of Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) contractor in cooperation local Health, Safety and Environmental expert Mr. Egamov Murod Kuchkorovich.
52. Progress of Environmental performance of the Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor considered to be minor. See performance evaluation form at the Annex I. The construction activities in Agitma Regulator, Dvoynik Regulator, Rostguy, Djilvan, Peresechenie Regulator has been completed. Construction works in the Prokop regulator area is in progress. (Annex II).
53. Progress of Environmental performance of the Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) contractor is moderate. The Contractor's main construction and installation activities have been completed on 22/April/2021. Defects/deficiencies and incomplete items have been given to Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) contractor including environmental issues on 24/May/2021. Overall performance of the contractor is moderate. Its environmental record keeping system has been formed but day by day recording has not been applied efficiently for health and safety training records. Health and safety conditions, social leisure areas have been created for the workers. Environmental and health and safety labelling has been partly applied at the sites, nevertheless, needs observation. Hazardous waste management storage area developed, and separation of solid wastes applied after issuance of a few notifications during the project construction phase. Performance evaluation of the Kuyu Mazar Pump Station (ABISRP 03.1) contractor is given at the Annex I.
54. Progress of Environmental performance of the Modernization and Rehabilitation of Kizil Tepa Pump Station (ABISRP 03.2) contractor is under improvement. The environmental record keeping system has been established, daily recording has been applied for solid waste records. Health and safety conditions, social leisure areas have been created for the workers. Environmental and health and safety labelling has been improved at the sites, nevertheless, needs observation. Hazardous waste

management storage area developed. Performance evaluation of the Kizil Tapa Pump Station (ABISRP 03.2) contractor is given at the Annex I.

55. The dredged material excavated at the forebay area of the Kuyu Mazar Pump station has been disposed to a site. A permission from the Novai Ecology and Environmental Protection Headquarter obtained on 22/04/2019 by the Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) contractor for disposal of the dredged material. The spoil deposit area should be levelled according to Chapter 11 on Architecture and Landscaping, Article 11.12 of the General Technical Specification of Contract (GTS). Besides that, the conditions of depositing of dredged material have been explained on this permission as “the spoil area should be levelled and planted”. The contractor should settle the planting of the levelled spoil area with the Novai Ecology and Environmental Protection Headquarter. Contractors has not implemented this measure during the reporting period. Since no progress have been observed related to the submission of the SEMP, the Contractor has been notified as indicated in the paragraph 36. Since no penalties applied to the Contractor related to the Contractor the Contractor does not comply with the requirements such as submission of SEMP.
56. The dredged material excavated at the forebay area of the Kizil Tapa Pump station has been disposed to a site. A permission from the Bukhara Ecology and Environmental Protection Headquarter obtained on 21/02/2019 by the Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) contractor for disposal of the dredged material. The spoil deposit area should be levelled according to Chapter 11 on Architecture and Landscaping, Article 11.12 of the GTS. Besides that, the conditions of depositing of dredged material have been explained on the ecological report which is attached to this permission that “After levelling, perennial decorative trees, such as elm, mulberries and spruce shall be planted”. The contractor should settle the planting of the levelled spoil area with the Bukhara Ecology and Environmental Protection Headquarter. Contractors has not implemented this measure during the reporting period. Since no progress have been observed related to the submission of the SEMP, the Contractor has been notified as indicated in the paragraph 36. Since no penalties applied to the Contractor related to the Contractor the Contractor does not comply with the requirements such as submission of SEMP.
57. Status of non-compliances revealed for previous period are provided in the Table 3-3 below:

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Table 3-3 Statuses of non-compliances

| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|---------------------------------------|---------------|-------------|---|--|--------|----------|----------|----------|-----------------------|--------|-------------|
| 1 | ABISRP 02 Camp Site | 19/01/18 | Environment | Sewage not disposed properly | To comply with the national legislation and contract requirements | N1 | Major | 31/03/18 | Low | Izomov Amin Ashurovic | Closed | 22/06/19 |
| 2 | ABISRP 02 and ABISRP 04 Working Sites | 19/01/18 | Environment | Hazardous waste collection area doesn't exist | No need for corrective actions. Since the maintenance of equipment and vehicles are outsourced, waste collection area doesn't exist. | 1 | Minor | 26/01/18 | Low | ABISRP 02 Contractor | Closed | 26/01/18 |
| 3 | ABISRP 02 and Working Sites | 19/01/18 | Environment | Record of old tires and accumulators have not been kept | Provide the necessary data | N2 | Minor | 01/03/18 | Medium | Izomov Amin Ashurovic | Closed | 22/06/19 |
| 4 | ABISRP 02 Working Sites | 19/08/17 | Safety | Labeling doesn't exist for hazardous areas | To comply with the national legislation and contract requirements. | N3 | Major | 01/03/18 | High | Izomov Amin Ashurovic | Closed | 22/06/19 |
| 5 | ABISRP 02 Working Sites and Camps | 19/01/18 | Environment | Separation of hazardous and solid waste | Sort solid waste separately. | N4 | Minor | 12/02/18 | Low | Izomov Amin Ashurovic | Closed | 22/06/19 |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|-------------------------------|---------------|-------------|---|---|--------|----------|----------|----------|------------------------|--------|-------------|
| 6 | ABISRP 02 Working Sites | 19/01/18 | Environment | Soil contamination with oil leakage | Remove all waste and contaminated soil. Contaminated soil should be disposed in special drums and transferred to the licenced sub-contractor for further treatment, | 2 | Minor | 12/02/18 | Low | Izomov Amin Ashurovic | Closed | 19/01/18 |
| 7 | ABISRP 02 Working Sites | 19/01/18 | Health | Hygienic conditions, protection against climatological conditions and light conditions poor | comply with contract requirements | N5 | Minor | 12/02/18 | Low | ABISRP 02 Contractor | Closed | 22/06/19 |
| 8 | ABISRP 02 Camp Site | 19/01/18 | Safety | Firefighting equipment or fire extinguisher doesn't exist | comply with contract requirements | N6 | Major | 12/02/18 | High | ABISRP 02 Contractor | Closed | 22/06/19 |
| 9 | ABISRP 03.1 Kuyu Mazar Office | 26/11/17 | Environment | National environmental expert has not been hired | Hire the national environmental expert | N7 | Major | 01/03/18 | High | ABISRP 03.1 Contractor | Closed | 14/02/18 |
| 10 | ABISRP 03.2 Kizil Tapa Office | 26/11/17 | Environment | National Environmental expert has not been hired | Hire the national environmental expert | N8 | Major | 01/03/18 | High | ABISRP 03.2 Contractor | Closed | 14/02/18 |
| 11 | ABISRP 03.1 Kuyu Mazar | 26/11/17 | Environment | SEMP not prepared | Prepare SEMP | N9 | Major | 20/12/17 | High | ABISRP 03.1 Contractor | Closed | 14/12/17 |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|--|---------------|-------------|---|--|--------|----------|----------|----------|------------------------|--------|-------------|
| 12 | ABISRP 03.2 Kizil Tapa | 26/11/17 | Environment | SEMP not prepared | Prepare SEMP | N10 | Major | 20/12/17 | High | ABISRP 03.2 Contractor | Closed | 14/12/17 |
| 13 | ABISRP 03.1 Kuyu Mazar Office | 26/11/17 | Environment | Environmental Record System has not been established. | Establish the environmental recording system and record the environmental monitoring activities. | N11 | Major | 31/12/17 | High | ABISRP 03.1 Contractor | Closed | 14/05/18 |
| 14 | ABISRP 03.2 Kizil Tapa Office | 26/11/17 | Environment | Environmental Record System has not been established. | Establish the environmental recording system and record the environmental monitoring activities. | N12 | Major | 31/12/17 | High | ABISRP 03.2 Contractor | Closed | 14/05/18 |
| 15 | ABISRP 03.1 Kuyu Mazar Office | 26/11/17 | Social | Grievance Redress Mechanism is not established | Establish the GRM and logbooks | N13 | Major | 31/01/18 | High | ABISRP 03.1 Contractor | Closed | 14/05/18 |
| 16 | ABISRP 03.2 Kizil Tapa Office | 26/11/17 | Social | Grievance Redress Mechanism is not established | Establish the GRM and logbooks | N14 | Major | 31/01/18 | High | ABISRP 03.2 Contractor | Closed | 14/05/18 |
| 17 | ABISRP 02 Contractor | 18/07/18 | Environment | EMR prepared per two months | Prepare and submit EMR monthly | N15 | Minor | 10/08/18 | Medium | ABISRP 02 Contractor | Open | |
| 18 | ABISRP 03.1 Kuyu Mazar Construction Site | 17/12/18 | Environment | Hazardous wastes observed at site | Follow the rules stated in Hazardous Waste Management Plan, regularly check the site | N16 | Major | 30/06/19 | High | ABISRP 03.1 Contractor | Closed | 18/06/19 |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|--|---------------|-------------|--|---|--------|----------|----------|----------|------------------------|--------|-------------|
| 19 | ABISRP 03.2 Kizil Tapa Construction Site | 17/12/18 | Environment | Oil Spills observed at site | Clean and regularly check the site | N17 | Major | 30/06/19 | High | ABISRP 03.2 Contractor | Closed | 17/06/19 |
| 20 | ABISRP 03.2 Kizil Tapa Contractor | 17/12/18 | Environment | The dust formation has been observed at unpaved roads | Spray the unpaved roads with water and regularly check the site | N18 | Minor | 30/06/19 | High | ABISRP 03.2 Contractor | Closed | 17/06/19 |
| 21 | ABISRP 03.1 Kuyu Mazar Contractor | 18/12/18 | Environment | The replacement of Environmental Manager has not been declared | Inform PIU/SC | N19 | Minor | 01/02/19 | Low | ABISRP 03.1 Contractor | Closed | 04/02/19 |
| 22 | ABISRP 03.2 Kizil Tapa Contractor | 18/12/18 | Environment | The replacement of Environmental Manager has not been declared | Inform PIU/SC | N20 | Minor | 01/02/19 | Low | ABISRP 03.2 Contractor | Closed | 04/02/19 |
| 21 | ABISRP 03.1 Kuyu Mazar Contractor | 18/12/18 | Environment | The permission for the disposal site of the dredged material has not been obtained | Obtain the permission | N21 | Major | 01/02/19 | High | ABISRP 03.1 Contractor | Closed | 22/04/19 |
| 22 | ABISRP 03.2 Kizil Tapa Contractor | 18/12/18 | Environment | The permission for the disposal site of the dredged material has not been obtained | Obtain the permission | N22 | Major | 01/02/19 | High | ABISRP 03.2 Contractor | Closed | 21/02/19 |
| 23 | ABISRP 03.1 Kuyu Mazar Contractor | 31/12/18 | Environment | EMR has not been submitted regularly | All previous EMR's will be send | N23 | Major | 01/02/19 | High | ABISRP 03.1 Contractor | Closed | 15/01/19 |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|---|---------------|-------------|--|---|--------|----------|----------|----------|------------------------|--------|-------------|
| 24 | ABISRP 03.2 Kizil Tapa Contractor | 31/12/18 | Environment | EMR has not been submitted regularly | All previous EMR's will be send | N24 | Major | 01/02/19 | High | ABISRP 03.2 Contractor | Closed | 15/01/19 |
| 27 | ABISRP 03.2 Kizil Tapa Contractor | 17/06/19 | Environment | Hazardous waste storage area doesn't exist | Hazardous waste storage area shall be constructed | N25 | Major | 27/06/19 | High | ABISRP 03.2 Contractor | Closed | 28/09/19 |
| 28 | ABISRP 03.2 Kizil Tapa and ABISRP 03.1 Contractor | 17/06/19 | Safety | HSE training records couldn't be presented to ADB mission | Conduct training for Kuyu Mazar & Kizil Tapa Contractor's | N26 | Major | 30/06/19 | High | Supervision Consultant | Closed | 22/06/19 |
| 29 | ABISRP 03.1 Kuyu Mazar Contractor | 18/06/19 | Environment | Hazardous material/waste storage area hasn't been constructed according to standards | Hazardous material/waste storage shall be re-constructed according to the standards | N27 | Major | 30/07/19 | High | ABISRP 03.1 Contractor | Closed | 28/09/19 |
| 30 | ABISRP 03.1 Kuyu Mazar Contractor | 18/06/19 | Health | Smoke has been formed in the welding area | Ventilation shall be provided in welding area | N28 | Major | 30/07/19 | High | ABISRP 03.1 Contractor | Closed | 28/09/19 |
| 31 | ABISRP 02 Working Sites | 21/06/19 | Safety | PPE not used by the staff at Kharkhur Construction Site | Daily check, and immediate cautions to the Contractor | N29 | Major | 01/08/19 | High | Supervision Consultant | Closed | 28/12/19 |
| 32 | ABISRP 03.1 Kuyu Mazar Contractor | 18/06/19 | Environment | Dredged material storage area left without leveling (GTS of Contract Chapter 11 Article 11.12) and planting as defined in the Permission | Level the area and plant | N30 | Major | 19/10/20 | High | ABISRP 03.1 Contractor | Open | |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|--|---------------|-------------|--|---|--------|----------|----------|----------|---|--------|-------------|
| 33 | ABISRP 03.2 Kizil Tapa Contractor | 17/06/19 | Environment | Dredged material storage area left without leveling (GTS of Contract Chapter 11 Article 11.12) and planting as defined in the Permission | Level the area and plant | N31 | Major | 19/10/20 | High | ABISRP 03.2 Contractor | Open | |
| 34 | ABISRP 01 Contractor Amu Bukhara 1 Contractor | 26/12/19 | Environment | SEMP not completed | Finalize SEMP | N32 | Major | 31/01/20 | High | ABISRP 01 Contractor | Closed | 17/09/21 |
| 35 | ABISRP 03.2 Kizil Tapa Contractor | 27/12/19 | Safety | some fire extinguishers' expiration date passed | Replace the fire extinguishers which are expired | N33 | Major | 31/01/20 | High | ABISRP 03.2 Kizil Tapa Contractor | Closed | 10/01/20 |
| 36 | ABISRP 03.2 Kizil Tapa Contractor | 27/12/19 | Safety | Health and safety training records not kept regularly | Keep the record regularly | N34 | Minor | 04/01/20 | High | ABISRP 03.2 Kizil Tapa Contractor | Closed | 10/01/20 |
| 37 | ABISRP 03.2 Kizil Tapa Contractor | 27/12/19 | Environment | Demolished concrete left in site | Dispose the demolished waste to a site shown by the authorities | N35 | Major | 27/02/20 | High | ABISRP 03.2 Kizil Tapa Contractor | Closed | 10/01/20 |
| 38 | ABISRP 03.1 Kuyu Mazar Contractor | 28/12/19 | Environment | Solid waste disposal records not kept regularly | Keep the record regularly | N36 | Minor | 04/01/20 | High | ABISRP 03.1 Contractor | Closed | 10/01/20 |
| 39 | ABISRP 03.1 Kuyu Mazar Contractor | 28/12/19 | Environment | Hazardous solid waste collection and separation not active | Put in progress again hazardous solid waste | N37 | Major | 11/01/20 | High | ABISRP 03.1 Contractor | Closed | 06/01/20 |

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| No | Site/Location | Date Recorded | Category | Description of Issue | Corrective Action/s | NCN No | NC Level | Due Date | Priority | Person Responsible | Status | Date Closed |
|----|---|---------------|----------|--------------------------------------|---|--------|----------|----------|----------|---------------------------|--------|-------------|
| | | | | | collection and separation | | | | | | | |
| 40 | ABISRP 03.1 Kuyu Mazar Contractor | 28/12/19 | Safety | Safety measures properly not applied | Conduct additional health and safety training for the staff | N38 | Major | 31/01/20 | High | ABISRP 03.1 Contractor | Closed | 10/01/20 |

3.3 Issues Tracking (Based on Non-Conformance Notices)

58. During the reporting period (January 1st, 2020 - June 30th, 2020) the observed Non-Conformance issues have been recorded and are given below in the table related to the construction activities of project components which are not settled in the current reporting period (January 1st, 2021 - June 30th, 2021). The Table 3-3 gives the present situation on these tracked non-conformance notices.
59. ABISRP 01 Contractor has prepared and submitted SEMP for the fourth time on 21/April/2020. Required revisions that are given to the ABISRP 01 Contractor by SC about the SEMP are minor. Therefore, SEMP is expected to be approved at the next submission. Revised SEMP of the contractor has not been received within the current reporting period.
60. Despite of repetitive warnings, ABISRP 02 Contractor doesn't pay attention to correct actions related to reporting the activity therefore this non-conformance issue remains open, since 10/August/2020.
61. During the reporting period (January 1st, 2021 - June 30th, 2021) Non-Conformance issues of Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) and Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) have not been closed, related to the levelling and planting of the dredged material storage area which has still time till deadline agreed with the contractor as 30/September/2021.
62. During the current reporting period (January 1st, 2021 - June 30th, 2021) no new non-conformance issues have been recorded, but there are non-conformance issues which are lasting from the previous reporting periods (See table below). The Contractors have been notified about non-conformances which are still open on 13/July/2021 and 14/July/2021 through consecutive meetings, their urgent action has been requested, in particular:
- Either levelling and planting as to the spoil disposal areas or the submission of the agreement is required on the actions from the Local Ecology and Environmental Protection Headquarter for Kizil Tapa and Kuyu Mazar PS.
 - Submission of SEMP by the ABISRP 01 Contractor.
 - Submission of environmental monitoring reports by the ABISRP 02 Contractor. emphasized.
63. In case failure of implementation of corrective action plans for non-conformances, the Contractors shall be deemed to be responsible for implementing the necessary actions within reasonable durations. Otherwise, actions shall be implemented to the Contractors such as suspension of the payment of the IPCS and acceptance procedures.

Table 3-3. Implementation Status of Corrective Actions proposed in the last environmental monitoring report (July-December 2020)

| | Issue | Required Action | Responsibility | Timing (Target Dates) | Description of Resolution and Timing (Actual) | If not yet resolved, indicate the reason why and specify further required action and timeframe. |
|-----------|--|---------------------------|-------------------------|-----------------------|--|---|
| 1 | Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) | | | | | |
| 1.1 | SEMP not completed | Finalize SEMP | Construction Contractor | 31/01/20 (Open) | Until the 30/06/21 remained open. A meeting hold with the Contractor on 13/07/21 and deadline is given to finalize SEMP until 30/10/2021 | Since penalties has not been applied to the Contractor, it does not fit to the requirements. Finalize SEMP 30/10/21 |
| 2 | Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) | | | | | |
| 2.1 | EMR of the Contractor not prepared | Prepare EMR | Construction Contractor | 10/08/18 (Open) | Until the 30/06/21 remained open. Meetings hold with the Contractor on 13/07/2021 and on 14/07/2021 deadline is given to prepare a general EMR until 30/10/2021 for past activities and submit next EMR's regularly | Since penalties has not been applied to the Contractor, it does not fit to the requirements Prepare a general EMR for past activities and submit next EMR's regularly 30/10/21 |
| 3. | Modernization and Rehabilitation of Kuyu Mazar and Kizil Tapa Pump Stations (ABISRP 03) | | | | | |
| 3.1 | Semi-annual EMR R.08.P. 39 at ABISRP 03.01 Kuyu Mazar Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and planting as defined in the and Environmental Permission. | Level the area and plant. | Construction Contractor | 19/10/20 (Open) | Until the 30/06/21 remained open. A meeting hold with the Contractor on 13/07/2021 and deadline is given Level the area and plant or obtain approval from Local Ecological Authority plantation is not suitable until 30/10/2021 | Since penalties has not been applied to the Contractor, it does not fit to the requirements Level the area and plant or obtain approval from Local Ecological Authority plantation is not suitable 30/10/2021 |
| 3.2 | Semi-annual EMR R.08.P. 40 at ABISRP 03.02 Kizil Tapa Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and Environmental Permission. | Level the area and plant. | Construction Contractor | 19/10/20 (Open) | Until the 30/06/21 remained open. A meeting hold with the Contractor on 13/07/2021 and deadline is given Level the area and plant or obtain approval from Local Ecological Authority plantation is not suitable until 30/10/2021 | Since penalties has not been applied to the Contractor, it does not fit to the requirements Level the area and plant or obtain approval from Local Ecological Authority plantation is not suitable 30/10/2021 |

64. During the current reporting period (January 1st, 2021- June 30th, 2021) no new Non-Conformance issues have been recorded. There are not any issues have closed from the previous reporting period. Total number of Non-Conformance issues observed during January-June 2021 for Project is 40, out of which 90% has been closed (Table 3-4).

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

| | |
|--|-----|
| Total Number of Issues for Project | 40 |
| Number of Open Issues | 4 |
| Number of Closed Issues | 36 |
| Percentage Closed | 90% |
| Issues Opened This Reporting Period | 0 |
| Issues Closed This Reporting Period | 0 |

65. The distribution of Non-Conformance issues based on priority is shown at the Figure 3-1 and non-conformance level - at the Figure 3-2.

Figure 3-1: Summary of Issues by Priority

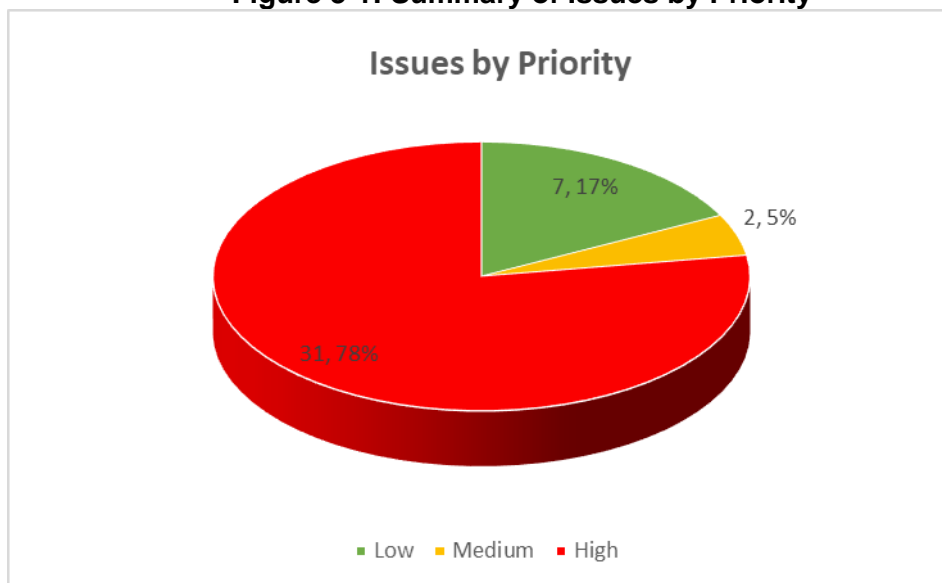
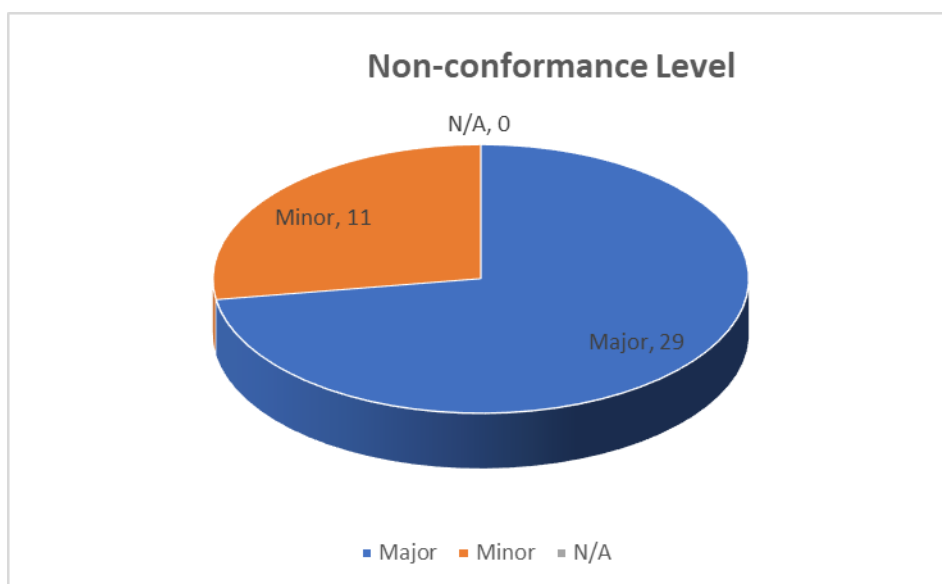
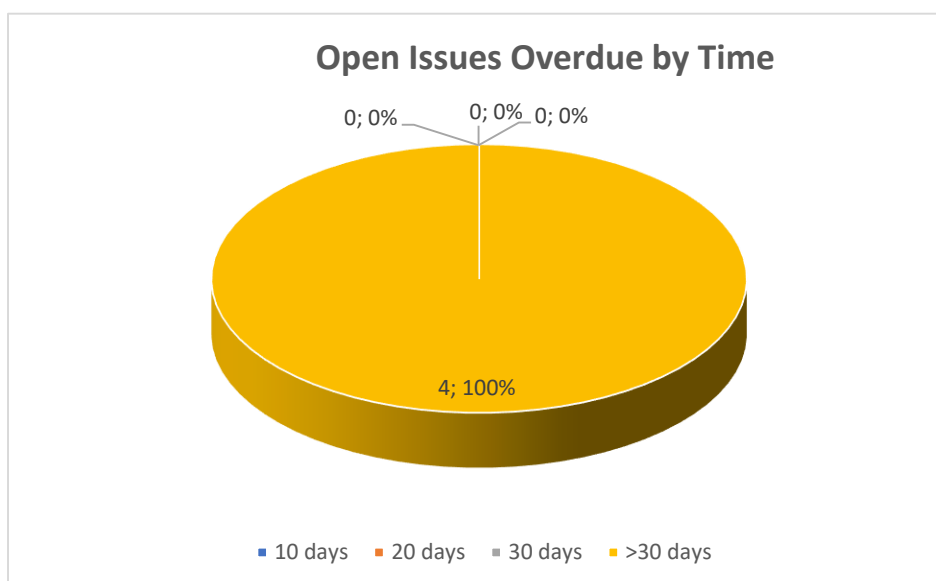


Figure 3-2: Summary of Issues by Non-Conformance



66. Duration to close any issue takes approximately 5.2 months. The distribution of days required to close any issue has been shown in Figure 3-3.

Figure 3-3: Open Issues Overdue by Time



3.4 Trends

67. Based on the record time, the trends of issues closed has been given at the following.

| Semi-annual Report No | Total Number of Issues opened at Reporting Period | % Of issues closed on time | % Of issues closed late |
|-----------------------|---|----------------------------|-------------------------|
| 6 | 6 | 60% | 40% |
| 7 | 6 | 60% | 40% |
| 8 | 7 | 15% | 15% |

| | | | |
|----|---|-----|-----|
| 9 | 7 | 40% | 60% |
| 10 | 0 | 44% | 56% |
| 11 | 0 | 44% | 56% |
| 12 | 0 | 44% | 56% |

68. According to the previous reporting period no new non-conformance issues have been opened since the 10th reporting period. However, the open issues at this reporting period could not be settled during the 10th, 11th and 12th reporting period. The main reason that this non-conformance issues not completed is that the penalties to the contractors not applied to settle these issues.

3.5 Unanticipated Environmental Impacts or Risks

69. During the current reporting period COVID- 19 epidemic has not affected working conditions. Environmental impact and health and safety plans of the all-main contractors have been issued by the Construction Contractors incorporating the Emergency Response Plans for the COVID- 19 epidemic, except Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) contractor.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

70. Contractor of Construction of Amu Bukhara 1 NEW Pump Station (ABISRP 01) has regularly monitored workplace and workers to assess effectiveness of health and safety management plans, including COVID-19 measures. Results of monitoring is given at Section 4.6.2. No COVID-19 positive case has been observed at the site.
71. The Contractor of Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) has no monitoring activity of workplace and workers to assess effectiveness of health and safety management plans, including COVID-19 measures.
72. Contractor of modernization and Rehabilitation Kuyu Mazar PS (ABISRP 03.01), has regularly monitored workplace and workers to assess effectiveness of health and safety management plans, including COVID-19 measures. Results of monitoring is given at Section 4.6.2. No COVID-19 positive case has been observed at the site.
73. Contractor of modernization and Rehabilitation Kizil Tapa PS (ABISRP 03.02), has regularly monitored workplace and workers to assess effectiveness of health and safety management plans, including COVID-19 measures. Results of monitoring is given at Section 4.6.2. No COVID-19 positive case has been observed at the site.
74. According to EMP, Contractors are responsible for conduction of environmental monitoring activities for environmental impacts caused during the construction. These monitoring activities are based on visual observations. There are no more requirements on environmental monitoring included in EMP and as following in SEMP's submitted by the Contractors. Submitted EMR of each contractor includes the monitoring results of environmental and health and safety activities. Contractor of Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) has submitted EMR which are included in Monthly progress reports. The Contractor of Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) does not submit any EMR. The Contractor of modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.01) submitted EMR regularly until the completion of works on April 2021. The Contractor of modernization and Rehabilitation Kizil Tapa Pump Station (ABISRP 03.02) submitted the EMR regularly.
75. During the reporting period no complaints were received from people living in nearby residential areas for any construction site. In case of receiving such complains, further elaboration in environmental monitoring activities and solving and or settling the problematic issues needed.

4.1.1 Air Emissions and Ambient Air Quality

76. At all the construction sites appropriate measures were taken to prevent the pollution of atmospheric air, to limit the dust level from working vehicles and enforce strict observance of safety rules at main road crossing, along main roads, the mahalla streets and near sub-project construction sites.
77. While excavation and transportation of excavating materials, additional environmental requirements were followed: Schedule transportation activities by avoiding peak traffic periods; Use tarpaulins to cover loose material that is transported to and from the site by truck.

78. Inspection of exhaust emissions of vehicles and machinery used has been controlled in Uzbekistan with a regulation named “Implementation of Mandatory Technical Inspection of Vehicles the Machinery” and numbered 54 which is in force since January 31st, 2003. Each Contractor should hold a valid permission for the vehicles and machineries used in the construction activities. Therefore, the vehicles and machineries used in construction activities do not exceed limits as far as they hold a valid permission from relevant Government authorities.
79. According to the IEE the nature of the project activities, will not generate significant quantities of emissions, therefore visual monitoring of dust has been envisaged at the Environmental Management Plan of the project. Since there is no any change in the main project activities, no need for monitoring of air quality except the method stated in Environmental Management Plan given at IEE:

4.1.2 Wastewater and Ambient Water Quality

80. The Contractor of Construction of Amu Bukhara 1 New Pump Station (ABISRP 01) is constructing the working camp area with septic tanks and toilet facilities. Temporary toilets exist in the field.
81. The toilet facilities for Contract ABISRP 02 exist in the Prokor regulator area. But their conditions are poor. Since the number of workers are less in number, the wastewater produced during the daily activities have been directly filtered to the ground. The contamination risk of these effluents to the canals are low.
82. Closed septic tanks exist both for Kuyu Mazar Pump Station (ABISRP 03.1) and Modernization and Rehabilitation of Kizil Tepa Pump Station (ABISRP 03.2) camp sites. The collected sewage has been transferred by septic tank trucks to disposal site. In the working field workers use toilets located at the existing pump stations.

83. During the canal cleaning works it is unavoidable to form temporary turbidity and sediment problems. Existing water quality of the irrigation water turbid and high in sediment amount, therefore this temporary effect could not be differentiated, unless the sediment amount is measured before and during the cleaning activity.

4.1.3 Noise

84. The contractors have fit the daily regular working hours. It has been reported in EMR of Contractors to use new equipment and vehicle which is appropriate for the Occupational Health and Safety Noise levels. Since no grievance has been received from the public it has been considered that noise level does not have any effect on public.

85. The Uzbek national construction noise norms that are relevant to all stages of the construction phase are provided by law KMK 2.01.08-96 —Protection from noise detailed in Table 4-1.

Table 4-1. Uzbek construction noise norms (KMK 2.01.08 96 —Protection from noise)

| Premises and territories | Equivalent sound pressure levels, L_{eq} (dB) | | | | | | | | | Level of Sound, (dBA) |
|---|---|----|-----|-----|-----|------|------|------|------|-----------------------|
| | 31,5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 1. Hospital and sanatorium wards, operating hospitals | 68 | 51 | 39 | 31 | 24 | 20 | 17 | 14 | 13 | 25 |
| 2. Living rooms in apartments, living premises in rest/care homes, sleeping rooms in children boarding schools | 72 | 55 | 44 | 35 | 29 | 25 | 22 | 20 | 18 | 30 |
| 3. Doctor's offices in hospitals, sanatoriums, polyclinics, audience halls of concert-halls, rooms in hotel, living rooms in campus | 78 | 59 | 48 | 40 | 34 | 30 | 27 | 25 | 23 | 35 |
| 4. Hospital and sanatorium territories adjacent to the buildings | 78 | 59 | 48 | 40 | 34 | 30 | 27 | 25 | 23 | 35 |
| 5. Territories adjacent to living houses (in 2 m from cladding structures), residential areas of neighborhoods and housing estates, grounds of schools and preschool institutions, school territories | 84 | 67 | 57 | 49 | 44 | 40 | 37 | 35 | 33 | 45 |

| Premises and territories | Equivalent sound pressure levels, L_{eq} (dB) | | | | | | | | | Level of Sound, (dBA) |
|--|---|----|-----|-----|-----|------|------|------|------|-----------------------|
| | 31,5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 6. Class premises, exercise rooms, auditoriums of schools and other educational facilities, conference halls, audience halls of theatres, clubs, cinemas, halls for court sessions and meetings. | 82 | 63 | 52 | 45 | 39 | 35 | 32 | 30 | 28 | 40 |
| 7. Administration working premises, working premises of design and engineering organizations, scientific and research institutes | 86 | 71 | 61 | 54 | 49 | 45 | 42 | 40 | 38 | 50 |
| 8. Café, restaurant, canteen halls, lobby of theatres and cinemas | 89 | 75 | 66 | 59 | 54 | 50 | 47 | 45 | 43 | 55 |
| 9. Trading halls of shops, sport halls, waiting halls of airports and transport stations, reception centers of housekeeping/ municipal services | 93 | 79 | 70 | 63 | 58 | 55 | 52 | 50 | 49 | 60 |

86. The Sanitarian Rules and Norms on providing allowed noise level into the living building, public building, and territory of living area (SanR&N No.0267-09) establish the maximum admissible noise level into the living areas, both inside and outside buildings, given in the Table 4-2.

Table 4-2. Admissible noise level into the living area, both inside and outside the buildings (SanR&N No.0267-09)

| Name of Location | | Level of sound pressure, octave bands with average geometric mean frequencies (dB) | | | | | | | | Level of Sound, (dBA) |
|--|------------------------|--|-----|-----|-----|------|------|------|------|-----------------------|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| Living room of flats, bedrooms of resorts (inside) | Daytime 07:00-23:00 | 63 | 52 | 45 | 39 | 35 | 32 | 30 | 28 | 40 |
| | Night-time 23:00-07:00 | 55 | 44 | 35 | 29 | 25 | 22 | 20 | 18 | 30 |
| Territories adjacent to living houses (outside) | Daytime 07:00-23:00 | 75 | 66 | 59 | 54 | 50 | 47 | 45 | 43 | 55 |
| | Night-time 23:00-07:00 | 67 | 57 | 49 | 44 | 40 | 37 | 35 | 33 | 45 |

87. The World Bank’s “Environmental, Health and Safety General Directives, 2007 (EHS)” is functional instead of PPAH. EHS stipulates that noise at any activity shall not exceed the levels given in the Table 4-3 for given receptors, nor shall they result in a greater increase of ambient noise than 3 dB at the nearest receiving area outside the site.

Table 4-3. Noise Level Guideline (EHS)

| Receptor | One Hour L_{Aeq} , (dBA) | |
|---|----------------------------|--------------------------|
| | Daytime 07:00-22:00 | Nighttime 22:00-07:00 |
| Residential; institutional; educational | 55 | 45 |
| Industrial; commercial | 70 | 70 |

88. Nearest Receptor to the Working Areas are listed below:
- The nearest receptor to the Amu Bukhara 1 New Pump Station (ABISRP 01) construction site is the settlement area (houses) which has been located approximately 250 m northwest.
 - The nearest receptor to the Kuyu Mazar Pump Station (ABISRP 03.1) construction site is settlement area (houses), which has been located approximately 750 m southwest.
 - The nearest receptor to the Kizil Tapa Pump Station (ABISRP 03.2) construction site is settlement area (houses), which has been located approximately 500 m west.
89. Amu Bukhara 1 New Pump Station (ABISRP 01) construction site contractor has monitored the noise levels, the contractor has monitored the noise levels at the nearest receptors defined at paragraph88. The noise levels in the location are given at the **Table 4-4. Table 4-4 Noise Level Measurements at Amu Bukhara 1 New Pump Station (ABISRP 01) Construction Area**

| Date | Noise Level, dB(A) |
|---------------|--------------------|
| January 2021 | 68.0 |
| February 2021 | 66.1 |
| March 2021 | 66.4 |
| April 2021 | 66.3 |
| May 2021 | 66.3 |
| June 2021 | 66.7 |

90. Kuyu Mazar Pump Station (ABISRP 03.1) construction site Modernization contractor has monitored the noise levels in the locations given at the Table 4-5. The measurements have been realized by Mr. Miao Guowang with a Digital sound level meter (model no: AR824/SL4001A). The level of the measurements has not exceeded the Daytime Industrial; commercial noise guideline values described in paragraph87. The contractor has not monitored the noise levels at the nearest receptors defined at paragraph 88, since no complains have been received from the relevant settlement areas.

Table 4-5. Noise Level Measurements at Kuyu Mazar Pump Station (ABISRP 03.1) Construction Area

| Date | Noise Level, dB(A) |
|------|--------------------|
|------|--------------------|

| | Location | | |
|---------------|-----------|-----------|-----------------|
| | Auto Park | Heat Room | Pumping Station |
| January 2021 | 51 | 52 | 56 |
| February 2021 | 52 | 49 | 58 |
| March 2021 | 48 | 51 | 52 |
| April 2021 | 51 | 49 | 56 |
| May 2021 | 54 | 51 | 59 |
| June 2021 | 54 | 51 | 59 |

91. Kizil Tapa Pump Station (ABISRP 03.2) construction site Modernization contractor has monitored the noise levels in the locations given at the Table 4-6. The measurements have been realized by Mr. Zhang Zehuiwith (Until April 2021) and Mr. Miao Guowang (After April 2021) a Digital sound level meter (model no: AR824/SL4001A. The level of the measurements has not exceeded the Daytime Industrial; commercial noise guideline values described paragraph 87. The contractor has not monitored the noise levels at the nearest receptors defined at paragraph 88, since no complains have been received from the relevant settlement areas.

Table 4-6. Noise Level Measurements at Kizil Tapa Pump Station (ABISRP 03.1) Construction Area

| Date | Noise Level, dB(A) | | |
|---------------|--------------------|-----------|-----------------|
| | Location | | |
| | Auto Park | Heat Room | Pumping Station |
| January 2021 | 49 | 50 | 55 |
| February 2021 | 51 | 51 | 57 |
| March 2021 | 50 | 51 | 56 |
| April 2021 | 51 | 52 | 58 |
| May 2021 | 52 | 54 | 61 |
| June 2021 | 52 | 54 | 59 |

4.2 Trends

92. Based on the visual inspection and EMR reports the air, noise and water quality conditions has not considerably changed during the project construction span. The existing performance of the Contractors has been evaluated based on the EMP of the overall project and attached to Annex I.

4.3 Summary of Monitoring Outcomes

93. The instrumental and visual monitoring activities have been applied by the Contactors and SC field experts regularly. Only the Contractor of Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) does not provide information related to the monitoring activities with EMR.

4.4 Material Resources Utilization

4.4.1 Current Period

94. The utilization of electricity, water and other materials for Amu Bukhara 1 New Pump Station (ABISRP 03.1) construction site during the reporting period is given below table.

Table 4-7 Material Resources Utilization at Amu Bukhara 1 New Pump Station Construction Site

| Resources | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Total |
|-------------------------|--------|--------|--------|--------|--------|--------|---------|
| Water (m ³) | 356 | 450 | 482 | 488 | 502 | 572 | 2,850 |
| Cement (tons) | 12 | - | - | 120 | 298 | 940 | 1,370 |
| Iron (tons) | - | - | 25 | 75 | 100 | 120 | 320 |
| Fuel (m ³) | 45 | 40 | 38 | 46 | 35 | 45 | 249 |
| Electricity (Mwh) | 72.5 | 70.3 | 71.5 | 68.3 | 854.2 | 86.5 | 1,223.3 |
| Sand (m ³) | 20 | 12 | 4 | 360 | 985 | 2,748 | 4,129 |

95. The utilization of electricity, water and other materials for Amu Bukhara Main Canal Regulating Structure (ABISRP 02) construction site during the reporting period is given Table 4-8.

Table 4-8 Material Resources Utilization at Amu Bukhara Main Canal Regulating Structure Construction Sites

| Resources | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Total |
|-------------------------|--------|--------|--------|--------|--------|--------|-------|
| Water (m ³) | - | - | - | - | - | - | - |
| Cement (tons) | - | - | - | - | - | - | - |
| Iron (tons) | - | - | - | - | - | - | - |
| Fuel (m ³) | - | - | 1 | 1 | 1 | 2 | 5 |
| Electricity (kwh) | - | - | - | - | - | - | - |
| Sand (m ³) | - | - | - | - | - | - | - |

96. The utilization of electricity, water and other materials for Kuyu Mazar Pump Station (ABISRP 03.1) and Kizil Tapa Pump Station (ABISRP 03.2) construction sites are given below tables.

Table 4-9 Material Resources Utilization at Kuyu Mazar Pump Station Construction Site

| Resources | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Total |
|-------------------------|--------|--------|--------|--------|--------|--------|-------|
| Water (m ³) | 32 | 29 | 26 | 24 | 25 | 22 | 158 |
| Cement (tons) | 45 | 48 | 36 | 25 | 46 | 35 | 235 |
| Iron (tons) | 11 | 13 | 10 | 26 | 13 | 13 | 86 |
| Fuel (m ³) | 53 | 34 | 31 | 27 | 28 | 22 | 195 |
| Electricity (kwh) | 55 | 42 | 43 | 33 | 62 | 66 | 301 |
| Sand (m ³) | 12 | 23 | 16 | 13 | 15 | 12 | 91 |

Table 4-10 Material Resources Utilization at Kizil Tapa Pump Station Construction Site

| Resources | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Total |
|-------------------------|--------|--------|--------|--------|--------|--------|-------|
| Water (m ³) | 60 | 57 | 55 | 49 | 27 | 56 | 304 |
| Cement (tons) | 65 | 61 | 59 | 32 | 32 | 45 | 294 |
| Iron (tons) | 15 | 13 | 13 | 11 | 11 | 12 | 75 |
| Fuel (m ³) | 72 | 61 | 70 | 42 | 42 | 53 | 340 |
| Electricity (kwh) | 57 | 68 | 54 | 52 | 21 | 72 | 324 |

| | | | | | | | |
|------------------------|----|----|----|----|----|----|-----|
| Sand (m ³) | 31 | 21 | 22 | 20 | 20 | 21 | 135 |
|------------------------|----|----|----|----|----|----|-----|

4.4.2 Cumulative Resource Utilization

97. In previous reporting period the resource utilization records have not been kept. The following data given at below table covers cumulative material resource utilization at Amu Bukhara 1 New Pump Station (ABISRP 03.1) construction sites for available reporting periods.

Table 4-11 Cumulative Material Resources Utilization at Amu Bukhara 1 New Pump Station Construction Site

| Resources | Reporting Period | | | Total |
|-------------------------|------------------|-------|---------|----------------|
| | 10 | 11 | 12 | |
| Water (m ³) | 20 | 1596 | 2,850 | 4,466 |
| Cement (tons) | 40 | 42 | 1,370 | 1,452 |
| Iron (tons) | 0 | 0 | 320 | 320 |
| Fuel (m ³) | 15 | 247 | 249 | 511 |
| Electricity (Mwh) | 7.0 | 951.0 | 1,223.3 | 2,181.3 |
| Sand (m ³) | 65 | 57 | | 122 |

98. In previous reporting period the resource utilization records have not been kept. The following data given at Table 4-12 covers cumulative material resource utilization at Amu Bukhara Main Canal Regulating Structure (ABISRP 02) construction sites for available reporting periods.

Table 4-12 Cumulative Material Resources Utilization at Amu Bukhara Main Canal Regulating Structure Construction Sites

| Resources | Reporting Period | | | Total |
|-------------------------|------------------|----|----|------------|
| | 10 | 11 | 12 | |
| Water (m ³) | 13 | 0 | - | 13 |
| Cement (tons) | 840 | 0 | - | 840 |
| Iron (tons) | 6.4 | 0 | - | 6 |
| Fuel (m ³) | 12 | 5 | 5 | 22 |
| Electricity (Kwh) | 1.7 | - | - | 1.7 |
| Sand (m ³) | 912 | 0 | | 912 |

99. The following data given at Table 4-13 and Table 4-14 covers cumulative material resource utilization at Kuyu Mazar Pump Station (ABISRP 03.1) and in Kizil Tapa Pump Station (ABISRP 03.2) construction sites for available reporting periods.

Table 4-13 Cumulative Material Resources Utilization at Kuyu Mazar Pump Station Construction Site

| Resources | Reporting Period | | | Total |
|-------------------------|------------------|-----|-----|------------|
| | 10 | 11 | 12 | |
| Water (m ³) | 334 | 158 | 158 | 650 |
| Cement (tons) | 372 | 235 | 235 | 842 |
| Iron (tons) | 89 | 86 | 86 | 261 |

| | | | | |
|------------------------|-----|-----|-----|------------|
| Fuel (m ³) | 355 | 195 | 195 | 745 |
| Electricity (Mwh) | 2.4 | 0.3 | 0.3 | 3.0 |
| Sand (m ³) | 155 | 91 | | 246 |

Table 4-14 Cumulative Material Resources Utilization at Kizil Tepa Pump Station Construction Site

| Resources | Reporting Period | | | Total |
|-------------------------|------------------|-----|-----|--------------|
| | 10 | 11 | 12 | |
| Water (m ³) | 549 | 304 | 304 | 1,157 |
| Cement (tons) | 73 | 294 | 294 | 661 |
| Iron (tons) | 12 | 75 | 75 | 162 |
| Fuel (m ³) | 19 | 340 | 340 | 699 |
| Electricity (Mwh) | 3.1 | 0.3 | 0.3 | 3.8 |
| Sand (m ³) | 129 | 135 | | 264 |

4.5 Waste Management

100. The Contractor of Amu Bukhara 1 New Pump Station (ABISRP 01) has submitted a Waste Management Plan and Hazardous Waste Management Plan which has been integrated into the SEMP. The final version of the Waste Management Plan and the Hazardous Waste Management Plan are given at the SEMP dated on 21/04/2020. Since SEMP has not been approved, hence these plans have not been approved too.
101. The solid waste disposal area of Contractor of Amu Bukhara 1 New Pump Station (ABISRP 01) has been declared at Monthly Progress Reports that the solid waste has been collected by Alat Local Authority (Olot Obod LLC) and disposed to Alat Solid Waste Disposal area.
102. Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor has not signed any contract related to the waste disposal. The waste originated from their construction and worker's daily activities disposed to the municipal solid waste disposal areas by their own trucks/tractors. Waste sorting activities were carried out, an agreement was signed with Olot Obod LLC for garbage disposal. According to the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 787, rubbish bins have been installed. All security measures have been taken.
103. The Contractor of Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) has submitted a Waste Management Plan on 11th May 2018 and Hazardous Materials Management Plan on 10th May 2018 (Semi-annual EMR R.06).
104. The solid waste disposal area of Contractor of Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) has been declared as Kuyu Mazar Solid Waste Disposal area which is approximately 3 km away from the Kuyu Mazar Pumping Station.
105. The Contractor of Modernization and Rehabilitation of Kizil Tepa Pump Station (ABISRP 03.2) has submitted a Waste Management Plan on 11th May 2018 and Hazardous Materials Management Plan on 10th May 2018 (Semi-annual EMR R.06).
106. The solid waste disposal area of Contractor of Modernization and Rehabilitation of Kizil Tepa Pump Station (ABISRP 03.2) has been declared a local Solid Waste Disposal area which is approximately 6 km away from the Kizil Tepa Pumping Station.

4.5.1 Current Period

107. During the current reporting period (1st January 2021 – 30th June 2021) the Contractor of Amu Bukhara 1 New Pump Station (ABISRP 01) has dumped domestic solid waste to the site defined by Olot Obod LLC. The disposals records of garbage have been kept by the contractor. The recorded disposals are given in the following table below. The transfer and disposal of domestic solid waste has been realized by Olot Obod LLC firm.

| Date of Solid Waste Transfer | Volume of Solid Waste (m ³) | | | | | Storage Area |
|------------------------------|---|----------------------|---------------------------|----------------------------------|----------------------------|---------------|
| | Type I Very Hazardous | Type II Hazardous | Type III Medium Hazard | Type IV Slightly Hazardous | Type V Nearly No Hazard | |
| January 2021 | | | | | 16 | Olot Obod LLC |
| February 2021 | | | | | 20 | Olot Obod LLC |
| March 2021 | | | | | 30 | Olot Obod LLC |
| April 2021 | | | | | 32 | Olot Obod LLC |
| May 2021 | | | | | 33 | Olot Obod LLC |
| June 2021 | | | | | 50 | Olot Obod LLC |
| EMR-12 TOTAL | 0 | 0 | 0 | 0 | 181 | |

108. During the current reporting period (1st January 2021 – 30th June 2021) Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor has no record about the type, quantity of waste produced and disposed. Any domestic solid waste has not been observed at the construction and or camping sites.
109. During the current reporting period (1st January 2021 – 30th June 2021) the Contractor of Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) has dumped one times domestic solid waste to the site defined at Paragraph 106. The recorded disposals are given in the following table below. The transfer and disposal of domestic solid waste has been realized by Toza-Khudud firm.

| Date of Solid Waste Transfer | Volume of Solid Waste (m ³) | | | | | Storage Area |
|------------------------------|---|----------------------|---------------------------|----------------------------------|----------------------------|--------------|
| | Type I Very Hazardous | Type II Hazardous | Type III Medium Hazard | Type IV Slightly Hazardous | Type V Nearly No Hazard | |
| January/2021 | | | | | 1.5 | Toza-Khudud |
| February/2021 | | | | | 2 | Toza-Khudud |
| March/2021 | | | | | 3 | Toza-Khudud |
| April/2021 | | | | | 3 | Toza-Khudud |
| EMR-12 TOTAL | 0 | 0 | 0 | 0 | 9.5 | |

110. During the current reporting period (1st January 2021 – 30th June 2021) the Contractor of Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) has dumped two times domestic solid waste to the site defined at Paragraph 106. The recorded disposals are given in the following table below. The transfer and disposal of domestic solid waste has been realized by Toza-Khudud firm.

| Date of Solid Waste Transfer | Volume of Solid Waste (m ³) | | | | | Storage Area |
|------------------------------|---|----------------------|---------------------------|-------------------------------|----------------------------|--------------|
| | Type I Very Hazardous | Type II Hazardous | Type III Medium Hazard | Type IV Slightly Hazardous | Type V Nearly No Hazard | |
| 22,January,21 | | | | | 3 | Toza-Khudud |
| 2,February,2021 | | | | | 3 | Toza-Khudud |
| 11,February,2021 | | | | | 3 | Toza-Khudud |
| 19,February,2021 | | | | | 4 | Toza-Khudud |
| 25,February,2021 | | | | | 6 | Toza-Khudud |
| 4,March,2021 | | | | | 4 | Toza-Khudud |
| 11,March,2021 | | | | | 3 | Toza-Khudud |
| 19,March,2021 | | | | | 3 | Toza-Khudud |
| 22,March,2021 | | | | | 14 | Toza-Khudud |
| 27,March,2021 | | | | | 6 | Toza-Khudud |
| 3,April,2021 | | | | | 4 | Toza-Khudud |
| 11,April,2021 | | | | | 6 | Toza-Khudud |
| 22,April,2021 | | | | | 6 | Toza-Khudud |
| 1,May,2021 | | | | | 4 | Toza-Khudud |
| 8,May,2021 | | | | | 4 | Toza-Khudud |
| 15,May,2021 | | | | | 5 | Toza-Khudud |
| 22,May,2021 | | | | | 4 | Toza-Khudud |
| 28,May,2021 | | | | | 14 | Toza-Khudud |
| 31,May,2021 | | | | | 4 | Toza-Khudud |
| 5,June,2021 | | | | | 4 | Toza-Khudud |
| 11,June,2021 | | | | | 5 | Toza-Khudud |
| 17,June,2021 | | | | | 3 | Toza-Khudud |
| 28,June,2021 | | | | | 3 | Toza-Khudud |
| EMR-12 TOTAL | 0 | 0 | 0 | 0 | 115 | |

4.5.2 Cumulative Waste Generation

111. During the current reporting period (1st January 2021 – 30th June 2021) totally 305.5 m³ of solid waste has been originated within the scope of Amu Bukhara Irrigation System Rehabilitation Project by all contractors. The cumulative solid waste generation volume reached to 791.40 m³ during the current reporting period (1st January 2021 – 30th June 2021), including 42.00 m³ of recycled or reused solid waste. Approximately 5% of this cumulative waste volume has been restored for reuse and recycling purposes. The progress in solid waste disposal has been shown in the below table.

| EMR Report Number | Total Volume (m ³) | |
|-------------------|--------------------------------|--------------------|
| | Disposed | Recycled or reused |
| 6 | 6,90 | 0 |
| 7 | 54,62 | 42.00 |
| 8 | 29,88 | 0 |
| 9 | 123.00 | 0 |
| 10 | 201.50 | 0 |
| 11 | 28 | 0 |
| 12 | 20 | 0 |
| Total | 749.40 | 42.00 |

112. During the current reporting period (1st January 2021 – 30th June 2021) 181 m³ of solid waste has been originated from the Contractor of Amu Bukhara 1 New Pump Station (ABISRP 01), 9.5 m³ of solid waste has been originated from the Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1), and 20 m³ of solid waste has been originated from Modernization and Rehabilitation of Kizil tepa Pump Station (ABISRP 03.2) construction sites. The cumulative solid waste generation volume for these components has reached to 654.40 m³ during the current reporting period (1st January 2021 – 30th June 2021).

| EMR Report Number | Amu Bukhara 01 | | Kuyu Mazar | | Kizil Tepa | | Total | |
|-------------------|----------------|--------------------|------------|--------------------|------------|--------------------|----------|--------------------|
| | Disposed | Recycled or reused | Disposed | Recycled or reused | Disposed | Recycled or reused | Disposed | Recycled or reused |
| 6 | | | 3.00 | 0 | 3.90 | 0 | 6.90 | 0 |
| 7 | | | 42.62 | 0 | 12.00 | 42.0 | 54.62 | 42.00 |
| 8 | | | 11.88 | 0 | 18.00 | 0 | 29.88 | 0 |
| 9 | | | 53.00 | 0 | 70.00 | 0 | 123.00 | 0 |
| 10 | | | 53.50 | 0 | 148.00 | 0 | 201.50 | 0 |
| 11 | | | 16.00 | 0 | 12.00 | 0 | 28.00 | 0 |
| 12 | 181 | 0 | 9.50 | 0 | 115.00 | 0 | 210.50 | 0 |
| Total | 181.00 | 0.00 | 189.50 | 0.00 | 378.90 | 42.00 | 749.40 | 42.00 |

113. During the 6th reporting period the Modernization and Rehabilitation of Kizil tepa Pump Station (ABISRP 03.2) contractor has reported that 9 m³ of "Type III Medium Hazard" and 20.5 m³ of "Type IV Slightly Hazardous" waste has been produced at the site.

4.6 Health and Safety

4.6.1 Community Health and Safety

114. During the current reporting period there were no incidents occurred within the scope of Community Health and Safety issues, including the traffic accidents, except COVID-19 cases explained below.

4.6.2 Worker Health and Safety

115. Health and Safety Plan, including emergency response plan has been issued by contractors with COVID-19 risk assessment during the previous reporting period except Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor. The measures have been successfully applied by the Contractors. Besides that, when Uzbek authorities declared the measures to control COVID-19 the Chinese contactors have started to apply the training, health and safety procedures and disinfection at the working camp, vehicles, construction area within the scope of COVID-19 protection measures.
116. Contractor of the Construction of Amu Bukhara 1 New Pump Station (ABISRP 01), CNTIC has issued Health and Safety Plan considering the risk assessment and measures related to COVID-19 on 30/November/2020. Based on Health and Safety Plan and control measures, the following information has been reported by CNTIC, about the measures related to COVID-19 pandemic. The plan includes Emergency Response Plan, too. Total volume of the disinfectant used by all site employees, supervision staff and visitors during that time is 30 l/month. No positive cases have been observed at the construction camp and site during the reporting period.

Table 4-15. Personal Protective Equipment (PPE) Usage and Nucleic Acid Test Numbers (ABISRP 01)

| PPE type / Test | Unit | Used by (pcs) | | | | | |
|---------------------|---------|---------------|--------|--------|--------|--------|--------|
| | | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| Medical Mask | pcs | 1900 | 1900 | 5900 | 5900 | 8020 | 9460 |
| FFPZ-FFP3- N95 Mask | pcs | | | | | | |
| Face Shield | pcs | | | | | | |
| Glove | pcs | 630 | 630 | 2480 | 2480 | 3000 | 3500 |
| Disinfectant | liter | 30 | 30 | 30 | 30 | 45 | 50 |
| Nucleic acid test | 1/month | 21 | 21 | 79 | 79 | 99 | 119 |
| | 2/month | 20 | 20 | 36 | 36 | 33 | 38 |

117. Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor have carried out the construction activities in the Hydraulic structure "Prokor". Working staff use PPE due to, daily check, and immediate cautions to the Contractor of the SC team.
118. Contractor of the Contractor of modernization and Rehabilitation Kuyu Mazar Pump Station (ABISRP 03.01) has issued Health and Safety Plan considering the risk assessment and measures related to COVID-19 on 9/December/2020. The plan includes Emergency Response Plan, too. Based on Health and Safety Plan and control measures, the following information has been reported by the Contractor, about the measures related to COVID-19. No positive cases have been observed at the construction camp and site during the reporting period.

Table 4-16. Personal Protective Equipment (PPE) Usage and Nucleic Acid Test Numbers (ABISRP 03.01)

| PPE type / Test | Unit | Used by (pcs) | | | |
|-------------------|---------|---------------|--------|--------|--------|
| | | Jan-21 | Feb-21 | Mar-21 | Apr-21 |
| Nucleic acid test | 1/month | 22 | 26 | 28 | 27 |
| | 2/month | 7 | 6 | 6 | 2 |

119. Contractor of the Contractor of modernization and Rehabilitation Kizil Tepa Pump Station (ABISRP 03.02) has issued Health and Safety Plan considering the risk assessment and measures related to COVID-19 on 9/December/2020. The plan includes Emergency Response Plan, too. Based on Health and Safety Plan and control measures, the following information has been reported by the Contractor, about the measures related to COVID-19. No positive cases have been observed at the construction camp and site during the reporting period.

Table 4-17. Personal Protective Equipment (PPE) Usage and Nucleic Acid Test Numbers (ABISRP 03.02)

| PPE type / Test | Unit | Used by (pcs) | | | | | |
|-------------------|---------|---------------|--------|--------|--------|--------|--------|
| | | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| Nucleic acid test | 1/month | 28 | 20 | 23 | 23 | 20 | 30 |
| | 2/month | 9 | 7 | 8 | 8 | 7 | 11 |

4.7 Training

120. Mr. Miao Guowang as the Health and Safety Specialist of Kuyu Mazar Pump Station (ABISRP 03.1) contract has conducted regular health, safety and environmental, site access and COVID-19 protection trainings for the Chinese staff working at the Kuyu Mazar construction site between the 1/January/2021 and 30/April/2021 (photo documentation and attendance lists with signatures are provided in Annex II).
121. Mr. Zhang Zehui as the Health and Safety Specialist of Kizil Tepa Pump Station (ABISRP 03.2) contract has conducted regular health, safety and environmental, site access and COVID-19 protection trainings for the Chinese staff working at the Kizil Tepa construction site during the current reporting period 1/January/2021 and 30/April/2021. Mr. Miao Guowang as the replaced Health and Safety Specialist of Kizil Tepa Station (ABISRP 03.1) has conducted regular health, safety and environmental, site access and COVID-19 protection trainings for the Chinese staff working at the Kizil Tepa construction site during the current reporting period 1/May/2021 and 30/June/2021. (photo documentation and attendance lists with signatures are provided in Annex II). Mr. Aziz Juraev as local HSE administrator of Kuyu Mazar Pump Station (ABISRP 03.1) contract and Kizil Tepa Pump Station (ABISRP 03.2) contract has conducted regular HSE, environmental, site access and COVID-19 protection trainings for the local staff working at both sites during the reporting period (1st January 2021 – 30th June 2020)(photo documentation and attendance lists with signatures are provided in Annex II).

4.8 Summary of Monitoring Outcomes

122. Status of compliance with environmental safeguards related covenants in the Project's Loan Agreement signed between Republic of Uzbekistan and ADB on 21 November 2013² is summarized in Table 4-18.

Table 4-18. Loan Agreement Compliance Status

| Schedule | Paragraph | Covenant | Compliance Status |
|----------|-----------|--|--|
| 5 | 9 (a) | <u>Environment</u> The Borrower shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with all applicable laws and regulations of the Borrower relating to environment, health and safety. | Being complied with all applicable laws and regulations of the Uzbekistan Republic is applied. |
| 5 | 9 (b) | <u>Environment</u> The Borrower shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with the Environmental Safeguards. | Being complied with Environmental Safeguard Policy Statement (June 2009) |
| 5 | 9 (c) | <u>Environment</u> The Borrower shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with all measures and requirements set forth in the IEE and the EMP and any corrective or preventative actions set forth in a Safeguards Monitoring Report or which are subsequently agreed between ADB and the Borrower. | Being complied with IEE and EMP. Semiannual Environmental Monitoring Reports have been prepared and disclosed at ADB's website regularly. |
| 5 | 12 | <u>Human and Financial Resources to Implement Safeguards Requirements</u> The Borrower shall make available necessary budgetary and human resources to fully implement the EMP. | Being complied with. The borrower makes available the budgetary and human resources to fully implement the EMP whenever required. |

² ADB. Loan Agreement (Special Operations [Concessional]) for Loan Amu Bukhara Irrigation System Rehabilitation Project (21 Nov. 2013). <https://www.adb.org/sites/default/files/project-document/79440/44458-013-sfj.pdf>

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| Schedule | Paragraph | Covenant | Compliance Status |
|----------|-----------|---|---|
| 5 | 13 (a) | <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to comply with the measures relevant to the contractor set forth in the IEE and the EMP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;</p> | <p>Being complied with.</p> <p>Bidding documents and contracts for various works under the project have been prepared include the necessary provisions envisaged in the IEE and EMP.</p> <p>During the construction whenever required necessary corrective or preventive actions have been applied.</p> |
| 5 | 13 (b) | <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to make available a budget for all such environmental measures.</p> | <p>Being complied with.</p> <p>The borrower makes available the budget for environmental measures whenever required.</p> |
| 5 | 13 (c) | <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to provide the Borrower and MOTC with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE and the EMP.</p> | <p>Being complied with.</p> <p>No environmental, resettlement or indigenous peoples risks or impacts issues have been arisen during the implementation of the Project including Jan-Jun 2021 reporting period..</p> |
| 5 | 13 (d) | <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction;</p> | <p>Complied</p> <p>Bidding and contract documents contain provisions that require contractors to adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction.</p> |

| Schedule | Paragraph | Covenant | Compliance Status |
|----------|-----------|---|---|
| 5 | 13 (e) | <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p> | <p>Being complied with.</p> <p>For the completed project components pathways, other local infrastructure, and agricultural land to at least their pre-project condition has been restored.</p> |
| 5 | 14 (a) | <p><u>Safeguards Monitoring and Reporting</u></p> <p>The Borrower shall submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p> | <p>Not complied with.</p> <p>Semiannual Environmental Monitoring Report has been prepared and disclosed at ADB's website regularly. However, the relevant information has never been disclosed to affected persons. A complete Russian Version of SAEMR and a brief SAEMR will be disclosed in Uzbek Language in IAs/EA's website,</p> |
| 5 | 14 (b) | <p><u>Safeguards Monitoring and Reporting</u></p> <p>The Borrower shall if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE and the EMP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan;</p> | <p>Not complied with.</p> <p>To address unanticipated impact (COVID-19 pandemic), COVID-19 health and safety management plans were prepared by each contractor and approved by the PMU and the supervision consultant. However, Contractor (ABISRP 02) has not prepared such plans as of 30 June 2021. Control measures including the training and regular tests have been applied for protection COVID-19. The results of activities have been reported regularly.</p> |
| 5 | 14 (c) | <p><u>Safeguards Monitoring and Reporting</u></p> <p>The Borrower shall report any actual or potential breach of compliance with the measures and requirements set forth in the EMP promptly after becoming aware of the breach.</p> | <p>During the project implementation period no actual or potential breach of that compliance with the measures and requirements set forth in the EMP has been observed.</p> |

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Table 4-19. Implementation Status of EMP during the pre-construction period (Packages ABISRP-01, ABISRP-02, ABISRP- 03.1, ABISRP-03.2 and ABISRP-04)

| Subject | EMP Requirement | Compliance Attained | | | | | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|----------------------------------|--|---------------------|-----------|-------------|-------------|-----------|--|--|
| | | ABISRP-01 | ABISRP-02 | ABISRP-03.1 | ABISRP-03.2 | ABISRP-04 | | |
| Health & safety | • Provide portable toilets; | Y | Y | Y | Y | Y | | |
| | • Provide safety guards on exposed machinery; | Y | Y | Y | Y | Y | | |
| | • Provide safety awareness training | Y | Y | Y | Y | Y | | |
| Loss of biodiversity | • Determine critical diurnal and seasonal times. | Y | Y | Y | Y | Y | | |
| | • Prepare and adhere to avoidance plan | Y | Y | Y | Y | Y | | |
| Inaccurate survey maps | • Purchase and use of only new equipment; | Y | Y | Y | Y | Y | | |
| | • Contractor to provide Professional Survey Engineer to manage survey works | Y | Y | Y | Y | Y | | |
| Damage to facilities and workers | • Building design with a second category of fire resistance where all elements are made of fireproof or not-easy-to- burn materials; | Y | Y | Y | Y | Y | | |
| | • Ensure free access to the facilities and availability of roads to them for O&M; | Y | Y | Y | Y | Y | | |
| | • Placement of building and facilities considering fire breaks | Y | Y | Y | Y | Y | | |

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| Subject | EMP Requirement | Compliance Attained | | | | | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|--|--|---------------------|-----------|-------------|-------------|-----------|--|--|
| | | ABISRP-01 | ABISRP-02 | ABISRP-03.1 | ABISRP-03.2 | ABISRP-04 | | |
| | <ul style="list-style-type: none"> Design according to CNR 2.01.03-96 and 3.04.02-97 "Corrosion Protection of buildings" to prevent effects on the quality of ground water | Y | Y | Y | Y | Y | | |
| Siltation at the pump inlet canals | <ul style="list-style-type: none"> At pump station Inlet canal design/silt basins to be checked for adequacy of silt removal. | Y | Y | Y | Y | Y | | |
| Decrease in water quality at downstream | <ul style="list-style-type: none"> At Pump house- drainage inlet Oil and water separators to be provided on internal drainage systems in the pump station if canal water carries >0.3 mg/l oil below drainage outlets. | Y | Y | Y | Y | Y | | |
| Possible serious accidents | <ul style="list-style-type: none"> At Pump station, Develop Worker Safety Plan that is compliant with Uzbekistan Labor Code | Y | Y | Y | Y | Y | | |
| Possible excessive corrosion of steel manifold and rising main | <ul style="list-style-type: none"> At Rising Mains, Evaluate relaying new manifold and rising main sections as above ground structures in salinized areas / Use of protective coating | Y | Y | Y | Y | Y | | |
| Enhanced accessibility to irrigation areas | <ul style="list-style-type: none"> Along ABMK and other channels upgrade existing crossings and provide additional crossings as required to meet user needs | - | Y | - | - | Y | | |
| Minimized potential risk of soil erosion, reduced ambient dust levels, | <ul style="list-style-type: none"> At Pump house surroundings, identification of locations which require landscaping, tree planting, formation of pavements and include them in the design. | Y | Y | Y | Y | Y | | |

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| Subject | EMP Requirement | Compliance Attained | | | | | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|---|---|---------------------|-----------|-------------|-------------|-----------|--|--|
| | | ABISRP-01 | ABISRP-02 | ABISRP-03.1 | ABISRP-03.2 | ABISRP-04 | | |
| impairment of aesthetics | <ul style="list-style-type: none"> Provisions for painting and upgrading of existing buildings wherever | | | | | | | |
| Poor maintenance of mechanical and electrical equipment | <ul style="list-style-type: none"> At pump house new equipment, training to be provided as a supporting item at the time of procuring the mechanical and electrical equipment. | Y | Y | Y | Y | Y | | |
| Supply of POPs | <ul style="list-style-type: none"> No electrical equipment can (transformers) be supplied with PCB insulation. | Y | - | Y | Y | - | | |
| Lack of application of the EMP | <ul style="list-style-type: none"> EMMP (Environmental management and monitoring plan) to be included as a Special Conditions in the Bid Document' | Y | Y | Y | Y | Y | | |
| | <ul style="list-style-type: none"> EMMP to be attached to contract to form part of the contract requirements. | Y | Y | Y | Y | Y | | |
| Inability to meet full irrigation demand and operation | <ul style="list-style-type: none"> At Pumps, canals, drains, and demonstration farms design considering full irrigation water demand and drainage requirements and adhering to the construction regulations of International Best Practices and of GOU (Government of Uzbekistan). | Y | Y | Y | Y | Y | | |
| Selection of inappropriate contractors | <ul style="list-style-type: none"> During bid evaluation Prepare evaluation checklist to compare contractors. Use this to select the best contractor | Y | Y | Y | Y | Y | | |

Y: Yes; N: No; P: Partial

Table 4-20. Implementation Status of EMP during the construction period (Packages ABISRP-01, ABISRP-02, ABISRP- 03.1, ABISRP-03.2 and ABISRP-04)

| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|--|---|----------------------------|---|---|
| ABISRP-01 | | | | |
| Awareness campaign | <ul style="list-style-type: none"> Undertake a public awareness campaign to create awareness among farmers of the construction work plan and possible impacts on irrigation delivery. | Yes | | |
| Introduction of contractor to the site. | <ul style="list-style-type: none"> EMP explained to contractor on-site before any work commences. | Yes | | |
| | <ul style="list-style-type: none"> Approve the commencement of work only after the contractor understands the EMP | Partial | SEMP not completed since (26/12/2019 - Open) | Finalize SEMP 30/10/2021 |
| Removal of trees in construction sites | <ul style="list-style-type: none"> Any trees that need to be removed can only be removed after the PNPC/ Hokimiyat has approved their removal. | Yes | | |
| Site preparation | <ul style="list-style-type: none"> Minimize land clearing and excavation areas, preserving existing ground cover wherever possible, and providing approved ground cover where necessary; plant trees, bushes/grass to minimize rainwater runoff; appropriate stabilizing techniques to prevent cave-ins or earth-slips in excavated areas. | Yes | | |
| | <ul style="list-style-type: none"> Constructing buildings and facilities following the land protection activities stipulated in Construction Norms and Regulations (CNR) 3.01.01-97 and CNR 3.05.03-97. | Yes | | |
| Excavation of sites and opening of borrow pits | <ul style="list-style-type: none"> Use borrow material from sides of canals that has been dumped after excavation/ de-silting. | Yes | | |
| | <ul style="list-style-type: none"> If borrow pits essential. to be approved by PNPC and Ministry of Geology | Yes | | |
| | <ul style="list-style-type: none"> Borrow pits to be closed and landscaped. | - | | |
| | <ul style="list-style-type: none"> Stockpile excavated materials alongside open trench for backfilling; use for road formation | Yes | | |
| | <ul style="list-style-type: none"> Replace excavated material and landscape the area. | Yes | | |
| | <ul style="list-style-type: none"> Remove all waste and unused pipes. | Yes | | |
| Rehabilitation activities during cropping season | <ul style="list-style-type: none"> Undertake pump station construction, rehabilitation planning and arranging to supply the minimum water requirements. | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|---|---|
| | <ul style="list-style-type: none"> Provide water by-pass structures along canal wherever feasible, e.g., provide a detour channel connecting the intake canal to the existing intake chamber behind the rehabilitation site during installation of new pumps (proposed site) to continue uninterrupted supply of irrigation | Yes | | |
| Removal and disposal of debris | <ul style="list-style-type: none"> Debris to be dumped in land fill sites approved by Oblast Gospropridom & Hokimiyat | - | No debris produced | |
| | <ul style="list-style-type: none"> Sell metal-based scrap and equipment to scrap dealers in Alat and Bukhara; | - | No metal waste produced. | |
| | <ul style="list-style-type: none"> Land fill sites to be closed and rehabilitated | - | Works not completed yet | |
| | <ul style="list-style-type: none"> Old rising main pipes to be removed and disposed or recycled | - | No rising mains | |
| | <ul style="list-style-type: none"> Any electrical equipment found to contain PCBs is to be disposed of in accordance with Gozecoexpertisa requirements: | - | No electrical equipment | |
| Storage and Handling of construction materials, fuel and lubricants | <ul style="list-style-type: none"> Prepare material/equipment storage areas with facilities not to impair air quality nor contaminate soil or water and placed about 20 m away from water sources at elevated areas without interfering with drainage pattern | Yes | | |
| | <ul style="list-style-type: none"> Bund fuel tank storages to 110% of tank capacity. Refuel vehicles and equipment 20 m away from water courses | Yes | | |
| | <ul style="list-style-type: none"> Dispose of used oil and oil filters to meet accepted industry procedures | Yes | | |
| | <ul style="list-style-type: none"> Accidental spill handling action (contingency) plan | Yes | | |
| Noise from construction equipment; e.g. jack hammers, air compressors | <ul style="list-style-type: none"> Equipment fitted with approved sound suppression equipment and maintained | Yes | | |
| | <ul style="list-style-type: none"> Operators provided with ear protection | Yes | | |
| | <ul style="list-style-type: none"> Limit activities to daylight hours | Yes | | |
| Dust | <ul style="list-style-type: none"> contractor to provide water tanker or necessary provisions | Yes | | |
| | <ul style="list-style-type: none"> contractor to spray water on work areas and roads as required | Yes | | |
| Worker Health and Safety | <ul style="list-style-type: none"> Contractor to implement workplace safety awareness program. | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|---|---|
| | <ul style="list-style-type: none"> Workers to be provided with safety equipment and instructed in its use. | Yes | | |
| | <ul style="list-style-type: none"> Emergency accident -contingency plan | Yes | | |
| Solid and liquid waste management | <ul style="list-style-type: none"> All solid waste collected in containers for safe temporary storage and weekly dispose to safe dumping areas approved by the PE and PNPC | Yes | | |
| Transport of equipment and material in existing roads | <ul style="list-style-type: none"> If local roads are used, select routes based on the truck load; divide the load to prevent damages to local roads and bridges; observe speed limits and maintain in the good condition; transport material under cover; avoid peak hours in roads with moderate to high traffic. | Yes | | |
| | <ul style="list-style-type: none"> Contractor attends to repair all damaged infrastructure/ roads, if needed. with relevant authorities (Hokimiyat); | Yes | | |
| Rehabilitation and closing of construction sites | <ul style="list-style-type: none"> Remove all waste and contaminated soil | - | Works not completed yet | |
| | <ul style="list-style-type: none"> Restore sites by replacing topsoil and re-vegetating area | - | Works not completed yet | |
| | <ul style="list-style-type: none"> Final payment may be withheld until work is completed | - | Works not completed yet | |
| Inspection and acceptance of construction works before handing over | <ul style="list-style-type: none"> Inspection and signed acceptance by Operating Personnel | - | Works not completed yet | |
| ABISRP-02 | | | | |
| Awareness campaign | <ul style="list-style-type: none"> Undertake a public awareness campaign to create awareness among farmers of the construction work plan and possible impacts on irrigation delivery. | Yes | | |
| Introduction of contractor to the site. | <ul style="list-style-type: none"> EMP explained to contractor on-site before any work commences. | Yes | | |
| | <ul style="list-style-type: none"> Approve the commencement of work only after the contractor understands the EMP | Partial | EMR prepared per two months (18/07/18 – Open) | Prepare and submit EMR monthly |
| Removal of trees in construction sites | <ul style="list-style-type: none"> Any trees that need to be removed can only be removed after the PNPC/ Hokimiyat has approved their removal. | Yes | | |
| Site preparation | <ul style="list-style-type: none"> Minimize land clearing and excavation areas, preserving existing ground cover wherever possible, and providing approved ground cover where necessary; plant trees, bushes/grass to minimize rainwater runoff; appropriate | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|--|--|----------------------------|---|---|
| | stabilizing techniques to prevent cave-ins or earth-slips in excavated areas. | | | |
| | • Constructing buildings and facilities following the land protection activities stipulated in Construction Norms and Regulations (CNR) 3.01.01-97 and CNR 3.05.03-97. | Yes | | |
| Excavation of sites and opening of borrow pits | • Use borrow material from sides of canals that has been dumped after excavation/ de-silting. | Yes | | |
| | • If borrow pits essential. to be approved by PNPC and Ministry of Geology | Yes | | |
| | • Borrow pits to be closed and landscaped. | - | | |
| | • Stockpile excavated materials alongside open trench for backfilling; use for road formation | Yes | | |
| | • Replace excavated material and landscape the area. | Yes | | |
| | • Remove all waste and unused pipes. | Yes | | |
| Rehabilitation activities during cropping season | • Undertake pump station construction, rehabilitation planning and arranging to supply the minimum water requirements. | - | | |
| | • Provide water by-pass structures along canal wherever feasible, e.g., provide a detour channel connecting the intake canal to the existing intake chamber behind the rehabilitation site during installation of new pumps (proposed site) to continue uninterrupted supply of irrigation | Yes | | |
| Removal and disposal of debris | • Debris to be dumped in land fill sites approved by Oblast Gospropridom & Hokimiyat | Yes | | |
| | • Sell metal-based scrap and equipment to scrap dealers in Alat and Bukhara; | Yes | Reused or sold by BISA | |
| | • Land fill sites to be closed and rehabilitated | Yes | | |
| | • Old rising main pipes to be removed and disposed or recycled | - | | |
| | • Any electrical equipment found to contain PCBs is to be disposed of in accordance with Gozeoexpertisa requirements: | - | | |
| Storage and Handling of | • Prepare material/equipment storage areas with facilities not to impair air quality nor contaminate soil or water and | Yes | | |

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| Subject | EMP Requirement | Compliance Attained | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|---|--|----------------------------|---|--|
| construction materials, fuel and lubricants | placed about 20 m away from water sources at elevated areas without interfering with drainage pattern | | | |
| | • Bund fuel tank storages to 110% of tank capacity. Refuel vehicles and equipment 20 m away from water courses | Yes | | |
| | • Dispose of used oil and oil filters to meet accepted industry procedures | No | Record of old tires and accumulators have not been kept. (19/01/18 – 22/06/19) | 22/06/19 |
| | • Accidental spill handling action (contingency) plan | Yes | | |
| Noise from construction equipment; e.g. jack hammers, air compressors | • Equipment fitted with approved sound suppression equipment and maintained | No | Not required | |
| | • Operators provided with ear protection | Yes | | |
| | • Limit activities to daylight hours | Yes | | |
| Dust | • contractor to provide water tanker or necessary provisions | Yes | | |
| | • contractor to spray water on work areas and roads as required | Yes | | |
| Worker Health and Safety | • Contractor to implement workplace safety awareness program. | Yes | | |
| | • Workers to be provided with safety equipment and instructed in its use. | No | Labeling doesn't exist for hazardous areas (19/08/17 – 22/06/19) | Apply labelling. |
| | | | Hygienic conditions, protection against climatological conditions and light conditions poor (19/01/18 – 22/06/19) | Comply with contract requirements for working accommodation and working sites. |
| | | | Firefighting equipment or fire extinguisher doesn't exist (19/01/18 – 22/06/19) | Comply with contract requirements for safety. |
| | | | PPE not used by the staff at Kharkhur Construction Site (21/06/19 – 28/12/19) | Daily check, and immediate cautions to the Contractor by the Supervisor. |
| • Emergency accident -contingency plan | Yes | | | |

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| Subject | EMP Requirement | Compliance Attained | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|---|--|----------------------------|---|--|
| Solid and liquid waste management | <ul style="list-style-type: none"> All solid waste collected in containers for safe temporary storage and weekly dispose to safe dumping areas approved by the PE and PNPC | No | Sewage not disposed properly (19/01/18 – 22/06/19) | To comply with the national legislation and contract requirements for sewage disposal. |
| | | | Hazardous waste collection area doesn't exist (19/01/18 – 26/01/18) | Provide the hazardous waste collection spot. |
| | | | Separation of hazardous and solid waste not applied (19/01/18 – 22/06/19) | Sort solid waste separately. |
| Transport of equipment and material in existing roads | <ul style="list-style-type: none"> If local roads are used, select routes based on the truck load; divide the load to prevent damages to local roads and bridges; observe speed limits and maintain in the good condition; transport material under cover; avoid peak hours in roads with moderate to high traffic. | Yes | | |
| | <ul style="list-style-type: none"> Contractor attends to repair all damaged infrastructure/ roads, if needed. with relevant authorities (Hokimiyat); | Yes | | |
| Rehabilitation and closing of construction sites | <ul style="list-style-type: none"> Remove all waste and contaminated soil | Partial | Soil contamination with oil leakage (19/01/18 – 22/06/19) | 22/06/19 |
| | <ul style="list-style-type: none"> Restore sites by replacing topsoil and re-vegetating area | Partial | For the sites completed topsoil laid and vegetated. | |
| | <ul style="list-style-type: none"> Final payment may be withheld until work is completed | Yes | | |
| Inspection and acceptance of construction works before handing over | <ul style="list-style-type: none"> Inspection and signed acceptance by Operating Personnel | - | Works have not been completed yet. | |
| ABISRP-03.1 | | | | |
| Awareness campaign | <ul style="list-style-type: none"> Undertake a public awareness campaign to create awareness among farmers of the construction work plan and possible impacts on irrigation delivery. | Yes | | |
| | <ul style="list-style-type: none"> EMP explained to contractor on-site before any work commences. | Yes | | |

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| Subject | EMP Requirement | Compliance Attained | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|---|---|----------------------------|--|--|
| Introduction of contractor to the site. | <ul style="list-style-type: none"> Approve the commencement of work only after the contractor understands the EMP | Partial | Environmental expert has not been hired (26/11/17 – 14/02/18) | Hire the national environmental expert |
| | | | SEMP has not been prepared (26/11/17 – 14/12/17) | Prepare and submit SEMP |
| | | | Environmental Record System has not been established. (26/11/2017 – 14/05/18) | Establish the environmental recording system and record the environmental monitoring activities. |
| | | | Grievance Redress Mechanism is not established (26/11/17 – 14/05/18) | Establish the GRM and log books |
| | | | The replacement of Environmental Manager has not been declared (18/12/18 – 04/02/19) | Inform PIU/SC for replacement |
| | | | EMR has not been submitted regularly (31/12/18 – 15/01/19) | 15/01/19. |
| Removal of trees in construction sites | <ul style="list-style-type: none"> Any trees that need to be removed can only be removed after the PNPC/ Hokimiyat has approved their removal. | Yes | | |
| Site preparation | <ul style="list-style-type: none"> Minimize land clearing and excavation areas, preserving existing ground cover wherever possible, and providing approved ground cover where necessary; plant trees, bushes/grass to minimize rainwater runoff; appropriate stabilizing techniques to prevent cave-ins or earth-slips in excavated areas. | Yes | | |
| | <ul style="list-style-type: none"> Constructing buildings and facilities following the land protection activities stipulated in Construction Norms and Regulations (CNR) 3.01.01-97 and CNR 3.05.03-97. | Yes | | |
| | <ul style="list-style-type: none"> Use borrow material from sides of canals that has been dumped after excavation/ de-silting. | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|--|--|----------------------------|--|---|
| Excavation of sites and opening of borrow pits | • If borrow pits essential. to be approved by PNPC and Ministry of Geology | Yes | | |
| | • Borrow pits to be closed and landscaped. | - | | |
| | • Stockpile excavated materials alongside open trench for backfilling; use for road formation | Yes | | |
| | • Replace excavated material and landscape the area. | Yes | | |
| | • Remove all waste and unused pipes. | Yes | | |
| Rehabilitation activities during cropping season | • Undertake pump station construction, rehabilitation planning and arranging to supply the minimum water requirements. | - | | |
| | • Provide water by-pass structures along canal wherever feasible, e.g., provide a detour channel connecting the intake canal to the existing intake chamber behind the rehabilitation site during installation of new pumps (proposed site) to continue uninterrupted supply of irrigation | Yes | | |
| Removal and disposal of debris | • Debris to be dumped in land fill sites approved by Oblast Gosproidom & Hokimiyat | Yes | | |
| | • Sell metal-based scrap and equipment to scrap dealers in Alat and Bukhara; | Yes | Reused or sold by BISA | |
| | • Land fill sites to be closed and rehabilitated | No | Dredged material storage area left without leveling (GTS of Contract Chapter 11 Article 11.12) and planting as defined in the Permission (18/06/19 – Open) | Level and plant the disposal site 30/09/21 |
| | • Old rising main pipes to be removed and disposed or recycled | - | | |
| | • Any electrical equipment found to contain PCBs is to be disposed of in accordance with Gozeoexpertisa requirements: | - | | |
| Storage and Handling of construction | • Prepare material/equipment storage areas with facilities not to impair air quality nor contaminate soil or water and placed about 20 m away from water sources at elevated areas without interfering with drainage pattern | Partial | Hazardous material/waste storage area are not constructed according to | 28/09/19 |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|---|----------------------------|--|---|
| materials, fuel and lubricants | | | standards (18/06/19 – 28/09/19) | |
| | • Bund fuel tank storages to 110% of tank capacity. Refuel vehicles and equipment 20 m away from water courses | Yes | | |
| | • Dispose of used oil and oil filters to meet accepted industry procedures | Yes | | |
| | • Accidental spill handling action (contingency) plan | Yes | | |
| Noise from construction equipment; e.g. jack hammers, air compressors | • Equipment fitted with approved sound suppression equipment and maintained | Yes | | |
| | • Operators provided with ear protection | Yes | | |
| | • Limit activities to daylight hours | Yes | | |
| Dust | • Contractor to provide water tanker or necessary provisions | Yes | | |
| | • contractor to spray water on work areas and roads as required | Yes | | |
| Worker Health and Safety | • Contractor to implement workplace safety awareness program. | Partial | Smoke has been formed in the welding area (18/06/19 – 28/09/19) | 28/09/19 |
| | • Workers to be provided with safety equipment and instructed in its use. | Yes | | |
| | • Emergency accident -contingency plan | Yes | Safety measures properly not applied (28/12/19 – 10/01/20) | 10/01/20 |
| Solid and liquid waste management | • All solid waste collected in containers for safe temporary storage and weekly dispose to safe dumping areas approved by the PE and PNPC | Partial | Hazardous wastes observed at site (17/12/18 – 18/06/19) | 18/06/19 |
| | | | The permission for the disposal site of the dredged material has not been obtained (18/12/18 – 22/04/19) | Obtain the permission |
| | | | Solid waste disposal records not kept regularly (28/12/19 – 10/01/20) | 10/01/20 |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|--|---|
| | | | Hazardous solid waste collection and separation not active (28/12/19 – 10/01/20) | Put in progress again hazardous solid waste collection and separation |
| Transport of equipment and material in existing roads | • If local roads are used, select routes based on the truck load; divide the load to prevent damages to local roads and bridges; observe speed limits and maintain in the good condition; transport material under cover; avoid peak hours in roads with moderate to high traffic. | Yes | | |
| | • Contractor attends to repair all damaged infrastructure/ roads, if needed. with relevant authorities (Hokimiyat); | Yes | | |
| Rehabilitation and closing of construction sites | • Remove all waste and contaminated soil | Yes | | |
| | • Restore sites by replacing topsoil and re-vegetating area | Yes | | |
| | • Final payment may be withheld until work is completed | Yes | | |
| Inspection and acceptance of construction works before handing over | • Inspection and signed acceptance by Operating Personnel | Yes | | |
| ABISRP-03.2 | | | | |
| Awareness campaign | • Undertake a public awareness campaign to create awareness among farmers of the construction work plan and possible impacts on irrigation delivery. | Yes | | |
| Introduction of contractor to the site. | • EMP explained to contractor on-site before any work commences. | Yes | | |
| | • Approve the commencement of work only after the contractor understands the EMP | Yes | Environmental expert has not been hired (26/11/17 – 14/02/18) | 14/02/18 |
| | | | SEMP has not been prepared (26/11/17 – 14/12/17) | 14/12/17 |
| | | | Environmental Record System has not been established. (26/11/2017 – 14/05/18) | 14/05/18 |

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|--|---|----------------------------|--|---|
| | | | Grievance Redress Mechanism is not established (26/11/17 – 14/05/18) | Establish the GRM and log books |
| | | | The replacement of Environmental Manager has not been declared (18/12/18 – 04/02/19) | Inform PIU/SC for replacement |
| | | | EMR has not been submitted regularly (31/12/18 – 15/01/19) | Submit all previous EMR's and next EMRs regularly. |
| Removal of trees in construction sites | <ul style="list-style-type: none"> Any trees that need to be removed can only be removed after the PNPC/ Hokimiyat has approved their removal. | Yes | | |
| Site preparation | <ul style="list-style-type: none"> Minimize land clearing and excavation areas, preserving existing ground cover wherever possible, and providing approved ground cover where necessary; plant trees, bushes/grass to minimize rainwater runoff; appropriate stabilizing techniques to prevent cave-ins or earth-slips in excavated areas. | Yes | | |
| | <ul style="list-style-type: none"> Constructing buildings and facilities following the land protection activities stipulated in Construction Norms and Regulations (CNR) 3.01.01-97 and CNR 3.05.03-97. | Yes | | |
| Excavation of sites and opening of borrow pits | <ul style="list-style-type: none"> Use borrow material from sides of canals that has been dumped after excavation/ de-silting. | Yes | | |
| | <ul style="list-style-type: none"> If borrow pits essential. to be approved by PNPC and Ministry of Geology | Yes | | |
| | <ul style="list-style-type: none"> Borrow pits to be closed and landscaped. | - | | |
| | <ul style="list-style-type: none"> Stockpile excavated materials alongside open trench for backfilling; use for road formation | Yes | | |
| | <ul style="list-style-type: none"> Replace excavated material and landscape the area. | Yes | | |
| | <ul style="list-style-type: none"> Remove all waste and unused pipes. | Yes | | |
| Rehabilitation activities during cropping season | <ul style="list-style-type: none"> Undertake pump station construction, rehabilitation planning and arranging to supply the minimum water requirements. | - | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|--|---|
| | <ul style="list-style-type: none"> Provide water by-pass structures along canal wherever feasible, e.g., provide a detour channel connecting the intake canal to the existing intake chamber behind the rehabilitation site during installation of new pumps (proposed site) to continue uninterrupted supply of irrigation | Yes | | |
| Removal and disposal of debris | <ul style="list-style-type: none"> Debris to be dumped in land fill sites approved by Oblast Gospropridom & Hokimiyat | Partial | Demolished concrete left in site (27/12/19 – 10/01/20) | 10/01/20 |
| | <ul style="list-style-type: none"> Sell metal-based scrap and equipment to scrap dealers in Alat and Bukhara; | Yes | Reused or sold by BISA | |
| | <ul style="list-style-type: none"> Land fill sites to be closed and rehabilitated | Yes | Dredged material storage area left without leveling (GTS of Contract Chapter 11 Article 11.12) and planting as defined in the Permission (17/06/19 – Open) | Level and plant the disposal site 30/09/21 |
| | <ul style="list-style-type: none"> Old rising main pipes to be removed and disposed or recycled | - | | |
| | <ul style="list-style-type: none"> Any electrical equipment found to contain PCBs is to be disposed of in accordance with Gozeoexpertisa requirements: | - | | |
| Storage and Handling of construction materials, fuel and lubricants | <ul style="list-style-type: none"> Prepare material/equipment storage areas with facilities not to impair air quality nor contaminate soil or water and placed about 20 m away from water sources at elevated areas without interfering with drainage pattern | Yes | | |
| | <ul style="list-style-type: none"> Bund fuel tank storages to 110% of tank capacity. Refuel vehicles and equipment 20 m away from water courses | Yes | | |
| | <ul style="list-style-type: none"> Dispose of used oil and oil filters to meet accepted industry procedures | Yes | | |
| | <ul style="list-style-type: none"> Accidental spill handling action (contingency) plan | Yes | | |
| Noise from construction equipment; e.g. jack hammers, air compressors | <ul style="list-style-type: none"> Equipment fitted with approved sound suppression equipment and maintained | Yes | | |
| | <ul style="list-style-type: none"> Operators provided with ear protection | Yes | | |
| | <ul style="list-style-type: none"> Limit activities to daylight hours | Yes | | |

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| Subject | EMP Requirement | Compliance Attained | Comment on Reasons for Partial or Non-Compliance | Required Action and Target Dates to Achieve Compliance |
|---|--|----------------------------|--|---|
| Dust | • contractor to provide water tanker or necessary provisions | Yes | | |
| | • contractor to spray water on work areas and roads as required | Partial | The dust formation has been observed at unpaved roads (17/12/18 – 17/06/19) | 17/06/19 |
| Worker Health and Safety | • Contractor to implement workplace safety awareness program. | Partial | Health and safety training records not kept regularly (27/12/19 – 10/01/20) | Keep the record regularly |
| | • Workers to be provided with safety equipment and instructed in its use. | Yes | Some fire extinguishers' expiration date passed (27/12/19 – 10/01/20) | Replace the fire extinguishers which are expired |
| | • Emergency accident -contingency plan | Yes | | |
| Solid and liquid waste management | • All solid waste collected in containers for safe temporary storage and weekly dispose to safe dumping areas approved by the PE and PNPC | Yes | The permission for the disposal site of the dredged material has not been obtained (18/12/18 – 21/02/19) | Obtain the permission |
| | | | Hazardous waste storage area doesn't exist (17/06/19 – 28/09/19) | Hazardous waste storage area shall be constructed |
| Transport of equipment and material in existing roads | • If local roads are used, select routes based on the truck load; divide the load to prevent damages to local roads and bridges; observe speed limits and maintain in the good condition; transport material under cover; avoid peak hours in roads with moderate to high traffic. | Yes | | |
| | • Contractor attends to repair all damaged infrastructure/ roads, if needed. with relevant authorities (Hokimiyat); | Yes | | |
| Rehabilitation and closing of construction sites | • Remove all waste and contaminated soil | Partial | Oil Spills observed at site (17/12/18 – 17/06/19) | Clean and regularly check the site |
| | • Restore sites by replacing topsoil and re-vegetating area | Yes | | |
| | • Final payment may be withheld until work is completed | Yes | | |
| Inspection and acceptance of construction works | • Inspection and signed acceptance by Operating Personnel | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|--|---|----------------------------|---|---|
| before handing over | | | | |
| ABISRP-04 | | | | |
| Awareness campaign | <ul style="list-style-type: none"> Undertake a public awareness campaign to create awareness among farmers of the construction work plan and possible impacts on irrigation delivery. | Yes | | |
| Introduction of contractor to the site. | <ul style="list-style-type: none"> EMP explained to contractor on-site before any work commences. | Yes | | |
| | <ul style="list-style-type: none"> Approve the commencement of work only after the contractor understands the EMP | Yes | | |
| Removal of trees in construction sites | <ul style="list-style-type: none"> Any trees that need to be removed can only be removed after the PNPC/ Hokimiyat has approved their removal. | Yes | | |
| Site preparation | <ul style="list-style-type: none"> Minimize land clearing and excavation areas, preserving existing ground cover wherever possible, and providing approved ground cover where necessary; plant trees, bushes/grass to minimize rainwater runoff; appropriate stabilizing techniques to prevent cave-ins or earth-slips in excavated areas. | Yes | | |
| | <ul style="list-style-type: none"> Constructing buildings and facilities following the land protection activities stipulated in Construction Norms and Regulations (CNR) 3.01.01-97 and CNR 3.05.03-97. | Yes | | |
| Excavation of sites and opening of borrow pits | <ul style="list-style-type: none"> Use borrow material from sides of canals that has been dumped after excavation/ de-silting. | Yes | | |
| | <ul style="list-style-type: none"> If borrow pits essential. to be approved by PNPC and Ministry of Geology | Yes | | |
| | <ul style="list-style-type: none"> Borrow pits to be closed and landscaped. | - | | |
| | <ul style="list-style-type: none"> Stockpile excavated materials alongside open trench for backfilling; use for road formation | Yes | | |
| | <ul style="list-style-type: none"> Replace excavated material and landscape the area. | Yes | | |
| | <ul style="list-style-type: none"> Remove all waste and unused pipes. | Yes | | |
| Rehabilitation activities during cropping season | <ul style="list-style-type: none"> Undertake pump station construction, rehabilitation planning and arranging to supply the minimum water requirements. | - | | |
| | <ul style="list-style-type: none"> Provide water by-pass structures along canal wherever feasible, e.g., provide a detour channel connecting the | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|---|---|
| | intake canal to the existing intake chamber behind the rehabilitation site during installation of new pumps (proposed site) to continue uninterrupted supply of irrigation | | | |
| Removal and disposal of debris | • Debris to be dumped in land fill sites approved by Oblast Gospropridom & Hokimiyat | Yes | | |
| | • Sell metal-based scrap and equipment to scrap dealers in Alat and Bukhara; | Yes | Reused or sold by BISA | |
| | • Land fill sites to be closed and rehabilitated | Yes | | |
| | • Old rising main pipes to be removed and disposed or recycled | - | | |
| | • Any electrical equipment found to contain PCBs is to be disposed of in accordance with Gozecoexpertisa requirements: | - | | |
| Storage and Handling of construction materials, fuel and lubricants | • Prepare material/equipment storage areas with facilities not to impair air quality nor contaminate soil or water and placed about 20 m away from water sources at elevated areas without interfering with drainage pattern | Yes | | |
| | • Bund fuel tank storages to 110% of tank capacity. Refuel vehicles and equipment 20 m away from water courses | Yes | | |
| | • Dispose of used oil and oil filters to meet accepted industry procedures | Yes | | |
| | • Accidental spill handling action (contingency) plan | Yes | | |
| Noise from construction equipment, e.g. jack hammers, air compressors | • Equipment fitted with approved sound suppression equipment and maintained | No | Not required | |
| | • Operators provided with ear protection | Yes | | |
| | • Limit activities to daylight hours | Yes | | |
| Dust | • contractor to provide water tanker or necessary provisions | Yes | | |
| | • contractor to spray water on work areas and roads as required | Yes | | |
| Worker Health and Safety | • Contractor to implement workplace safety awareness program. | Yes | | |
| | • Workers to be provided with safety equipment and instructed in its use. | Yes | | |

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| <i>Subject</i> | <i>EMP Requirement</i> | <i>Compliance Attained</i> | <i>Comment on Reasons for Partial or Non-Compliance</i> | <i>Required Action and Target Dates to Achieve Compliance</i> |
|---|--|----------------------------|---|---|
| | • Emergency accident -contingency plan | Yes | | |
| Solid and liquid waste management | • All solid waste collected in containers for safe temporary storage and weekly dispose to safe dumping areas approved by the PE and PNPC | Yes | | |
| Transport of equipment and material in existing roads | • If local roads are used, select routes based on the truck load; divide the load to prevent damages to local roads and bridges; observe speed limits and maintain in the good condition; transport material under cover; avoid peak hours in roads with moderate to high traffic. | Yes | | |
| | • Contractor attends to repair all damaged infrastructure/ roads, if needed. with relevant authorities (Hokimiyat); | Yes | | |
| Rehabilitation and closing of construction sites | • Remove all waste and contaminated soil | Yes | | |
| | • Restore sites by replacing topsoil and re-vegetating area | Yes | | |
| | • Final payment may be withheld until work is completed | Yes | | |
| Inspection and acceptance of construction works before handing over | • Inspection and signed acceptance by Operating Personnel | Yes | | |

5 FUNCTIONING OF THE SEMP

5.1 EMP Review

123. The fourth revision of SEMP about the Amu Bukhara 1 New Pump Station (ABISRP 01) have been submitted on 21/April/2020. The comments have been provided to the contractor to revise and submit the final SEMP as soon as possible on 22/April/2020. But at the reporting period no reply has been received from the contractor. The contractor does not pay any attention to the Engineers repetitive requests. The final notification to the Amu Bukhara 1 New Pump Station (ABISRP 01) has been done as indicated at 62 on 13/July/2021 through a meeting, their urgent action has been requested to finalize SEMP. During the preparation of SAEMR, SEMP has not been finalized.
124. Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor has submitted the SEMP just to fulfil its administrative obligations. However, the contractor acts as unaware of existence of SEMP which has been submitted third revision on 24th January 2017 and has received conditionally no objection on date 20th December 2016) and does not submit EMR accordingly. Unfortunately, repetitive cautions have not cared by the Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor. The final notification to the Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor has been done as indicated at 62 on 13/July/2021 and 14/July/2021 through consecutive meetings, their urgent action has been requested to prepare a summary EMR for the past activities and submit EMR regularly for the future activities. During the preparation of SAEMR, a summarized EMR for past activities has not been received.
125. Currently SEMP of Modernization and Rehabilitation of Kuyu Mazar Pump Station (ABISRP 03.1) (14th February 2018 is submission date of third revision and 20th February 2018 no objection date) and Modernization and Rehabilitation of Kizil Tapa Pump Station (ABISRP 03.2) (14th February 2018 is submission date of third revision and 20th February 2018 no objection date) considered to fit the environmental requirements of the construction activities. No revisions required on the existing SEMP of Kuyu Mazar Pump Station (ABISRP 03.1) and SEMP of Kizil Tapa Pump Station (ABISRP 03.2) due to construction activities.
126. As indicated at paragraph 116, 118, and 119 Health and Safety Plans and ERPs have been issued considering COVID-19 risk assessment and control measures by Amu Bukhara 1 New Pump Station (ABISRP 01); Kuyu Mazar Pump Station (ABISRP 03.1); and Kizil Tapa Pump Station (ABISRP 03.2) contractors, respectively.

5.2 Grievance Redress Mechanism

127. No complaints received during the reporting period.

6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

128. There is not any issue to be reported as good practice note.

6.2 Opportunities for Improvement

129. After the designation of the environmental staff by the Amu Bukhara 1 New Pump Station (ABISRP 01) Contractor a training program is proposed to be conducted by SC. The subject of the training program will cover environmental, occupational health and safety trainings of the contractor's staff, monitoring, recording, and reporting responsibilities of the contractor. The training for this issue, which was planned for second quarter of 2021, has been postponed to the fourth quarter of 2021, due to COVID-19 pandemic.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

130. During the current reporting period (1st January 2021- 30th June 2021) the following environmental safeguard activities have been performed:
- Organization of health and safety measures related to COVID-19 by PIU supervision team and contractors.
 - Routine daily site visits by Site Engineers of Supervision Consultant including environmental, occupational health and safety issues.
131. ABISRP 02 Contractor to update H&S Plans including EMR with COVID-19 risk assessment and relevant mitigation measures.
132. The issues identified during this monitoring period is summarized in Table 7-1.
- .

Table 7-1. Issues Identified During the Monitoring Period and their corrective actions

| Issue | Required Action | Responsibility | Timing (Target Dates) | Status |
|---|---|--|-----------------------------------|---|
| 1. Information from the SAEMRs has never been disclosed to affected persons since the project became effective. (Pending since monitoring period of July 2020 - December 2020) | PMU should disclose the SAEMR in local language (Uzbek and Russian) on MWR's, and local government's web site. | PIU | 31/03/21 ³ 30/10/21 | SAEMR for Jul-Dec 2020, and Jan-Jun 2021 will be disclosed on MWR's website by 30 Oct 2021. |
| 2. PMU and the supervision consultant allowed the contractor (ABISPR 01) to commence the civil works without approving the SEMP. (Pending since monitoring period of July 2020 - December 2020) | The contractor should submit the SEMP for review and approval by the supervision consultant. | Contractor (ABISPR 01), PIU and Supervision Consultant | 31/03/21 ⁴ 30/10/21 | RESOLVED. The SEMP has been prepared and approved on 17 Sep 2021. |
| 3. EMR of the Contractor not prepared (Pending since monitoring period of July 2020 - December 2020) | Prepare EMR | Contractor (ABISRP 02) ⁵ | 31/03/21 30/11/21 | The procedures of preparing the EMR is suspended due to absence of environmental specialist. The procedure will be completed by 30 Nov 2021 by [the Environmental Officer and Safety Officer who will be mobilized by 31 Oct 2021. |
| 4. Kuyu Mazar Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and planting as defined in the and Environmental Permission. (Pending since monitoring period of July 2020 - December 2020) | - Level the area - Obtain permission from local environmental authorities on tree planting ⁶ - Plant trees | Contractor (ABISRP 03) ⁷ | 31/03/21 05/11/21 ⁸ | ADB review mission met with contractor on 6 Oct 2021. The contractor committed to complete all leveling works by [5 Nov 2021], get positive clearance from the local environment agency by 5 Nov 2021, and plant trees as advised by the environment agency. The PIU and Operator will help in getting clearance from environment agency. |

³ The target date has been set during the preparation period of the report based on comments.

⁴ The target date has been readjusted with interview of Construction of Amu Bukhara 1 New Pump Station Contractor which was previously set as 31 Jan 020.

⁵ Modernization and Rehabilitation of Amu Bukhara Main Canal Regulating Structure

⁶ Since the plantation will not be successful according to Contractor, the Contractor has been requested to obtain permission from local environmental authorities.

⁷ Rehabilitation of Kuyu Mazar and Kizil Tepa Pump Stations

⁸ This activity has been envisaged to be completed at the end of construction works. Since the construction works delayed, the leveling works has been postponed. The target date has been readjusted with interview of Modernization and Rehabilitation of Kuyu Mazar Pump Station Contractor which was previously set as 19 Oct 2020. The target date was further extended during the ADB Mission on 6-7 Oct 2021

Amu Bukhara Irrigation System Rehabilitation Project
Environmental Monitoring Report (January 2021 - June 2021)

| Issue | Required Action | Responsibility | Timing (Target Dates) | Status |
|--|--|--------------------------------------|-----------------------|---|
| 5. Tapa Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and Environmental Permission. (Pending since monitoring period of July 2020 - December 2020) | <ul style="list-style-type: none"> - Level the area - Obtain permission from local environmental authorities on tree planting (see footnote 6) - Plant trees | Contractor (ABISRP 03) | 10/11/21 ⁹ | ADB review mission met with contractor on 6 Oct 2021. The contractor committed to complete all leveling works by [10 Nov 2021], get positive clearance from the local environment agency by 10 Nov 2021, and plant trees as advised by the environment agency. The PIU and Operator will help in getting clearance from environment agency. |
| 6. The contractor (ABISRP 02) has been conducting civil works without preparing COVID-19 Health and Safety Management plan and emergency response plan. (Pending since monitoring period of July 2020 - December 2020) | <ul style="list-style-type: none"> - Prepare COVID-19 Health and Safety Management plan and emergency response plan | Contractor (ABISRP 02) ¹⁰ | 31/03/21 30/11/21 | COVID-19 Health and Safety Management plan and emergency response plan will be prepared with assistance of Consultant after appointment of Environmental Specialist of the Contractor. The Contractor will mobilize Environmental Officer and Safety Officer by 31 Oct 2021. ABISRP 02 contractor will provide health records, COVID-19 vaccination certificates or PCR test result of the working staff until 23 Oct 2021. |
| 7. ABISRP. 02 Contractor did not define Environmental Officer and Safety Officer. Penalties not applied to the Contractor. | The Contractor shall define Environmental Officer and Safety Officer. | Contractor (ABISRP 02) | 30/10/21 | There was an internal congregation hold by PIU staff, in which the issue of this topic was sharply raised. All necessary safety measures were agreed with representatives of this contractor. The Contractor will mobilize Environmental Officer and Safety Officer by 31 Oct 2021. |
| 8. ABISRP. 02 Contractor does not provide noise prevention measures for staff using noisy equipment, vehicles. Penalties not applied to the Contractor. | The contractor shall provide noise prevention measures. | Contractor (ABISRP 02) | 30/10/21 | RESOLVED. During supervision performed on 7 Oct 2021, it was noted that PPE were used by the staff of construction contractor. |
| 9. ABISRP. 02 Contractor does not check the health of the staff regularly and keep health record. COVID-19 measures are not implemented efficiently. | <ul style="list-style-type: none"> - Conduct daily inspections and testing of workers' temperature - Provide the regular health check of the staff and keep their records. | Contractor (ABISRP 02) | 30/11/21 | Partly implemented. During the supervision performed on 7 Oct 2021, it was noted that COVID measures were applied. After appointment of the health and safety |

⁹ Same as footnote 8.

Amu Bukhara Irrigation System Rehabilitation Project
 Environmental Monitoring Report (January 2021 - June 2021)

| Issue | Required Action | Responsibility | Timing (Target Dates) | Status |
|--|--|---|-----------------------|--|
| | - Conduct trainings and reporting | | | representative of the contractor this information will be provided by the contractor. The contractor will provide records of COVID-19 training of workers including COVID-19 vaccination certificates or PCR test result of the working staff until 23 Oct 2021. |
| 10. Flow amount of water in channels, Irrigated Area (ha) Amount of water used for irrigation purposes, water quality of irrigation water (pH, salinity, hardness, BOD, COD, Nitrate, Nitrite, Ammonium, Phosphate, Pesticides, Oil products, phenol) in the project area, Soil quality/pollution (SOM) (humus), soil carbon, mobile and gross NPK, nitrates, nitrites, ammonium, phosphate, pesticides)Water levels of wells in the irrigated areas, , Amount of water used for irrigation purposes, Electricity Consumed before the project by pumping, Electricity Consumed after the project by pumping, Water quantity pumped before rehabilitation/reconstruction, Water quantity pumped after rehabilitation/reconstruction has not been monitored. | Monitor all parameters. Required data has been requested by PIU from the relevant government agencies on 7 Oct 2021. | BISA/WCA, PIU, Hydrogeological Meliorative Expedition (HGME)s, Uzhydromet | 31/12/21 | Required data has been requested from the relevant government agencies, namely to Amu-Bukhara Machine Channel Administration, Amu-Bukhara reclamation expedition, Zarafshan reclamation expedition, Zarafshan Basin Irrigation System Administration, Amu-Bukhara Basin Irrigation System Administration on 12 October 2021. |

EMR = environmental monitoring report, SEMP = site environmentaml management plan

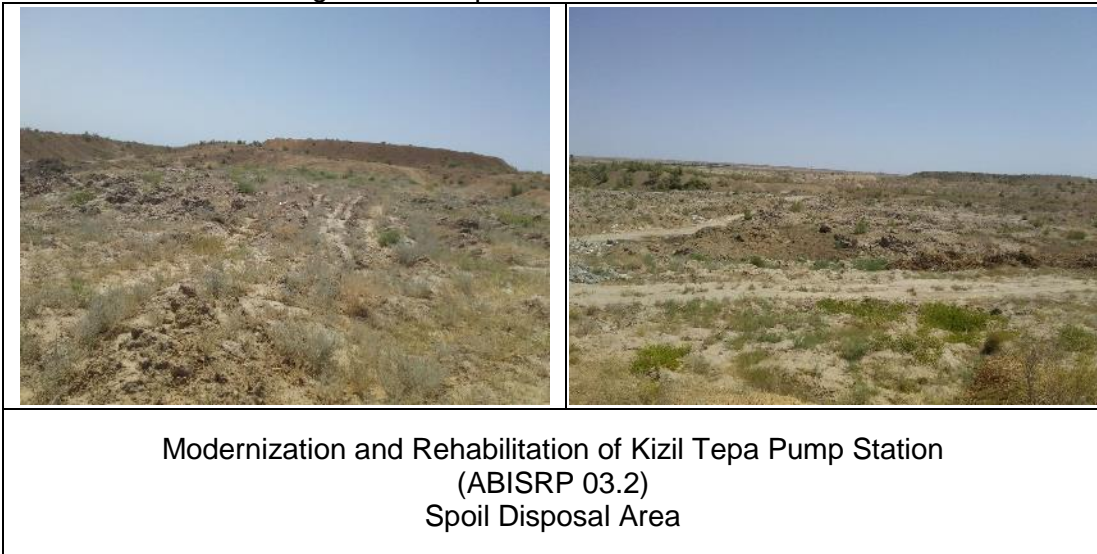
133. Information from the SAEMRs has never been disclosed to affected persons since the project became effective. PMU is requested to disclose Russian version of SAEMR and an Uzbek summary version of SAEMR at the web sites of executive agency, Bukhara Buxoro and Navoi province administrations.
134. PMU and the SC allowed the contractor (ABISPR 01) to commence the civil works without approving the SEMP. To finalize and submit SEMP to the PMU SC ABISPR 01 contractor has been informed on 13/July/2021 through a meeting. During the finalization of report has not been received.
135. Semi-annual EMR R.08.P. 39 at ABISRP 03.01 Kuyu Mazar Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and planting as defined in the and Environmental Permission. Modernization and Rehabilitation of Kuyu Mazar Pumping Station (ABISRP 03.1) has been informed on 24/May/2021 through defects/deficiencies and incomplete items report and on 13/July/2021 through a meeting. An explanation note dated 29/July/2021 has been received from the ABISRP 03.01 contractor that the construction waste at Kuyu Mazar PS has been recycled and cleared while the treatment of dump area for sediment sludge (spoil) was in underway. The note also included explanation about the planting as *“it is self-evident that the dump area for spoils at Kuyu Mazar PS is in the dry wilderness where plants cannot survive at the natural weather conditions. We had spread the seeds of the plan at the dump areas in the past and found that they could not survive. Having exchanged our views with local environmental authorities in Bukhara, we are waiting for their inspection upon the completion over the construction waste.”*. The pictures from the spoil area related to the current activities is given below photos.



Modernization and Rehabilitation of Kuyu Mazar Pump Station
(ABISRP 03.1)
Spoil Disposal Area

136. Semi-annual EMR R.08.P. 39 at ABISRP 03.02 Kizil Tepa Construction Site dredged material storage area left without levelling (GTS Chapter 11 Article 11.12) and planting as defined in the and Environmental Permission. Modernization and Rehabilitation of Kizil Tepa Pumping Station (ABISRP 03.2) has been informed on 13/July/2021 through a meeting. An explanation note dated 29/July/2021 has been received from the ABISRP 03.02 contractor that the construction waste at Kizil Tepa PS has been recycled and cleared while rest would be done after the lately completion of bituminous pavement extending from the entrance of PS to the sediment basin is cured. The note also included explanation about the planting as *“it is self-evident that the dump area for spoils at Kizil Tepa PS is in the dry wilderness where plants cannot survive at the natural weather conditions. We had spread the seeds of the plan at the dump areas in the past and found that they could not survive. Having exchanged our views with local*

environmental authorities in Navoi, we are waiting for their inspection upon the completion over the construction waste.”. The pictures from the spoil area related to the current activities is given below photos.



7.2 Recommendations

137. It has been requested from China National Technical Import & Export Corporation (CNTIC) to finalize the SEMP of Amu Bukhara 1 New Pump Station (ABISRP 01) until 31/January/2020, which could not be realized. Finalization of SEMP becomes an urgent issue.
138. Conduct environmental audit by SC on Site environmental and health and safety conditions of the Contractor ABISRP 01, ABISRP 02, ABISRP 03.01 and 02 sites till the end of next reporting period.
139. The Contractor of Modernization and Rehabilitation of Kuyu Mazar Pumping Station (ABISRP 03.1) shall leave the disposal site of the dredged material as “levelled and planted” which is defined in the permission obtained from the Bukhara Ecology and Environmental Protection Headquarter on 21/February/2019. The levelling of the disposal site is part of the contract which is defined at Article 11.12 of Chapter 11 on Architecture and Landscaping. Planting of this site is an issue to be resettled with the Bukhara Ecology and Environmental Protection Headquarter. After the levelling of the spoil area the Contractor will get written approval of Bukhara Ecology and Environmental Protection Headquarter that the plantation is not possible in the area.
140. The Contractor of Modernization and Rehabilitation of Kizil Tapa Pumping Station (ABISRP 03.2) shall leave the disposal site of the dredged material as “levelled and planted” which is defined in the permission obtained from the Navoi Ecology and Environmental Protection Headquarter on 22/April/2019. After completion of bituminous pavement extending from the entrance of PS to the sediment basin and levelling of the disposal site is part of the contract which is defined at Article 11.12 of Chapter 11 on Architecture and Landscaping has been performed by the contractor. After the levelling of the spoil area the Contractor will get written approval of Navoi Ecology and Environmental Protection Headquarter that the plantation is not possible in the area.

141. The status of levelling and planting of soil areas and SEMP preparation will be informed by the next EMR for July-December 2021.
142. PPE usage at the all-construction sites of Amu Bukhara Main Canal Regulating Structure (ABISRP 02) Contractor is an issue to be monitored regularly by SC and reported in next EMR report. This will be continuous monitoring activity.

ANNEX I - PERFORMANCE EVALUATION OF ENVIRONMENTAL MONITORING OF ABISRP

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|--|--|--|----------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| PRE-CONSTRUCTION PHASE | | | | | | | | |
| Has the Consultant reviewed IEE? | By the activities of PIU Technical Assistance Team | Once in the initial phase of project. | EEC | Y | N/A | N/A | N/A | N/A |
| If the IEE has been updated has it been sent to the ADB for approval? | By the activities of PIU Technical Assistance Team | Once in the initial phase of project. | EEC | Y | N/A | N/A | N/A | N/A |
| Has the PIU submitted IEE assessment report for approval to the National Authorities? | By the activities of PIU Technical Assistance Team | Once in the initial phase of project. | PIU | Y | N/A | N/A | N/A | N/A |
| Has the Consultant included the EMP as a special Condition in the Bid Document? | By the activities of PIU Technical Assistance Team | Once in the initial phase of project. | PEC | Y | N/A | N/A | N/A | N/A |
| Has the Contractor designed adequate staff facilities in the pump house redesigns (water-seal toilets, furnished rest rooms, dining rooms, etc.) | By technical review | Once in the review of design documents | CEC | N/A | N/A | N/A | Y | Y |
| Does the Contractor's design include raised walking ways? | By technical review | Once in the review of design documents | CEC | N/A | N/A | N/A | Y | Y |
| Does the Contractor's design provide safety guards on the areas exposed to the machinery? | By technical review | Once in the review of design documents | MEC | N/A | N/A | N/A | Y | Y |
| Does the Contractor's design have any drainage facility to lower ground water? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |
| Does the design meet the internationally acceptable safety standards of electricity for wet working areas? | By technical review | Once in the review of design documents | EIEC | N/A | N/A | Y | Y | Y |
| Does the design consider critical periods for biological life and adhere any avoidance plan? | By technical review | Once in the review of design documents | EEC | N/A | N/A | N/A | N/A | N/A |
| Does the Contractor have proper survey equipment? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |
| Does the design ensure free access to the facilities and availability of roads to them for O&M? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|--------------------------|--|----------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Does the design take care the placement of building and facilities considering fire breaks? | By technical review | Once in the review of design documents | MEC | N/A | N/A | N/A | Y | Y |
| Does the design consider Corrosion protection of buildings by ground water? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |
| Does the design care the fireproof materials where necessary? | By technical review | Once in the review of design documents | CEC | N/A | N/A | N/A | Y | Y |
| Has the Contractor checked the desilting efficiency of inlet canal design and desilting basins? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |
| Has the Contractor developed inlet having sand trap and/or other alternative devices? | By technical review | Once in the review of design documents | CEC/MEC | N/A | N/A | Y | Y | Y |
| Does the design consider oil separators to have oil concentration less than 0.3 mg/l? | By technical review | Once in the review of design documents | CEC/MEC | N/A | N/A | N/A | Y | Y |
| Does the Contractor develop a Worker Safety Plan in compliance with Uzbekistan Labor Code? | By technical review | Once in the review of design documents | EEC | N/A | N/A | Y | Y | Y |
| Does the design consider protection measures for pipes laid in saline areas? | By technical review | Once in the review of design documents | MEC | N/A | N/A | N/A | N/A | N/A |
| Does the design consider safety conditions of crossing, bridges that will be used for transportation of vehicles, equipment, and staff? | By technical review | Once in the review of design documents | CEC | N/A | N/A | Y | Y | Y |
| Does the design consider landscaping convenient to the prevailing natural conditions? | By technical review | Once in the review of design documents | EEC | N/A | N/A | Y | N/A | N/A |
| Does the design consider training of O&M staff on mechanical and electrical equipment? | By technical review | Once in the review of design documents | EEC | N/A | N/A | N/A | Y | Y |
| Does the design consider supplying transformers free of PCB? | By technical review | Once in the review of design documents | EIEC | N/A | N/A | N/A | Y | Y |
| Is the EMP attached to the Contract to form a part of Contract Documents? | By technical review | Once in the review of design documents | PEC | Y | Y | Y | Y | Y |
| Does the design consider the irrigational and drinking water requirements? | By technical review | Once in the review of design documents | MEC | N/A | N/A | Y | Y | Y |
| Has PIU evaluated the bidder by checking EMP requirements? | By technical review | Once in the review of design documents | PEC | N/A | Y | Y | Y | Y |
| Has the Contractor prepared an acceptable EMP based on the Approved IEE? | By technical review | Once in the review of design documents | CEC | Y | N | Y | Y | Y |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|--|---|----------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Has the Contractor developed Contingency Plan for accidents including spill of fuel? | By technical review | Once in the review of design documents | EEC | N/A | N | Y | Y | Y |
| Has the Contractor submitted the Site Environmental Management Plan? | By technical review | Once in the review of design documents | EEC | N/A | Y | Y | Y | Y |
| Does the Contractor publish a public notice regarding the nature and location of the project? | Questionnaires | Once in the initial phase of construction project. | C | N/A | N/A | N | N/A | N/A |
| Has the Consultant conducted training program for WCA? | By the activities of PIU Technical Assistance Team | Once according to the time schedule of the training program | EEC | Y | N/A | N/A | N/A | N/A |
| Has the Consultant conducted training program for BISA? | By the activities of PIU Technical Assistance Team | Once according to the time schedule of the training program | EEC/MEC | N/A | N/A | N/A | N/A | N/A |
| Has the EMP been explained to the Contractor before the commencement of works? | By the activities of PIU Technical Assistance Team | Once before the commencement of construction project. | PMC/EEC/PIU | N/A | Y | Y | Y | Y |
| Has the Contractor defined Environmental Management Officer? | Biding Documents | Once in bid evaluation phase | C | N/A | Y | Y | Y | Y |
| Has the Contractor defined Safety Officer? | Biding Documents | Once in bid evaluation phase | C | N/A | Y | N | Y | Y |
| CONSTRUCTION PHASE | | | | | | | | |
| Does the Contractor handle the protected plant species, trees taking care of environmental concerns and/or permissions? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor excavate and preserve the topsoil? | Questionnaires | monthly | C | N/A | Y | Y | N/A | N/A |
| Does the Contractor maximize the use of excavated material for construction works? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor defined the licensed or got permissions borrow area for usage of construction material? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor caused any landslide or erosion? | Questionnaires | monthly | C | N/A | N/A | N | N | N |
| Has the Contractor stockpiles of excavated material for backfilling? | Questionnaires | monthly | C | N/A | N/A | Y | N | N |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|--------------------------|--------------------------------|----------------------|--|-----------|-----------|-----------|----------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Has the Contractor realized the work activities during non-cropping periods? | Questionnaires | monthly | C | N/A | N/A | Y | N/A | N/A |
| Has the Contractor take measures for providing water continuously during construction work? | Questionnaires | monthly | C | N/A | N/A | Y | N/A | N/A |
| Has the Contractor defined spoil disposal site with the local authorities? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor disposed/recycled the waste material from the construction area? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has PCB containing electrical equipment disposed according to the requirements of Gozecoexpertisa? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Has the Contractor defined material storage area? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Has the Contractor defined fuel storage area 20 m away from water course? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Is the noise level in working area below the defined limit 80 dB(A)? | Questionnaires | monthly | C | N/A | Y | Y | Y | Y |
| Has the Contractor taken noise prevention measures for staff using noisy equipment, vehicles? | Questionnaires | monthly | C | N/A | Y | N | Y | Y |
| Is the nearest residential area affected by the noise level? | Questionnaires | monthly | C | N/A | Y | N | N | N |
| Has the working activities limited by daylight hours? | Questionnaires | monthly | C | N/A | N | Y | N | N |
| Does the Contractor have a water tanker for spraying water to roads? | Questionnaires | monthly | C | N/A | Y | Y | Y | Y |
| Does the Contractor suppress the dust by watering? | Questionnaires | monthly | C | N/A | Y | Y | Y | Y |
| Has the Contractor trained the staff on personnel health and sanitation procedures at the working camp, how to interact with the host communities, subprojects environmental protection measures? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor trained the staff on contingency plan? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|--|--------------------------|--------------------------------|----------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Has the Contractor trained the personnel for fuel handling procedure? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor train any person for the first aid? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Does the Contractor apply any simple training measure for the visitors? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor keep the records for all kind of training? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Number of accidents occurred during report period? | Questionnaires | monthly | C | N/A | N/A | 0 | 0 | 0 |
| Does the Contractor supply clean drinking water to the staff? | Questionnaires | monthly | C | N/A | Y | Y | Y | Y |
| Does the Contractor provide the staff hygienic living and working conditions? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor have toilets, baths, sleeping quarter, dining hall for the staff? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor have any social facilities like sporting area, canteen, shuttle vehicles to the local centers, etc.? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor check the health of the staff regularly? | Questionnaires | monthly | C | N/A | Y | N | Y | Y |
| Does the Contractor keep the health record of the staff? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Does the Contractor have adequate fire protection measures? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Has the Contractor made available the first aid kit to the staff? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Has the Contractor provided safe floor and handrails, stairs, lifts where necessary? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor provided the enough ventilation and lightening in the specific areas? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor provided the safety equipment, material to the staff? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |
| Does security staff exist in the working area? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the working area have fencing in order to protect intrusion? | Questionnaires | monthly | C | N/A | N/A | N | Y | Y |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|--------------------------|--------------------------------|----------------------|--|-----------|-----------------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Has the Contractor defined solid waste storage area? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor defined the area for used material storage? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor apply solid waste separation for recyclable solid waste? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor keep any record for the waste recycled? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor keep any record for the solid waste disposed? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor keep any record for the hazardous waste disposed? | Questionnaires | monthly | C | N/A | N/A | N/A | Y | Y |
| Does the Contractor use the local public roads even the avoidance from these road(s) possible? | Questionnaires | monthly | C | N/A | N/A | Y | Y | N/A |
| Has the Contractor collected and disposed the solid waste regularly? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor discharge the sewerage after treatment? | Questionnaires | monthly | C | N/A | N/A | N/A | N/A | N/A |
| Does the Contractor avoid the peak hours of local traffic in case of use of local public roads? | Questionnaires | monthly | C | N/A | N/A | Y | N/A | N/A |
| Does the material carried on public roads covered? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor use the vehicles having the controlled exhaust emissions? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Roads selected by the Contractor effect the protected areas? | Questionnaires | monthly | C | N/A | N/A | N ¹¹ | N | N |

¹¹ This question refers whenever access road to the construction site or camping site passes through a naturally or culturally protected area. If the access road passes from such a protection area it will have a negative environmental impact and in this case answer to this question would be "YES". If the access road does not pass through a naturally or culturally protected area then it has no affect on such kind of area and in this case the answer to this question would be "No". ABISRP -02 Construction Area which are widespread around the protected area named Ecological Center Jeyran. Ecological Center Jeyran has been located also 12 km south of the ABISRP-03-01 Contractor's construction area. In the vicinity of ABISRP-03-02 construction area Nurabad State Reserve is located approximately 25 km. The possibility of interference of these protected areas with the access roads have been checked during the site visits conducted at the early phase of the project. Since there is not any protected area near the ABISRP-01 Construction Area therefore it has been stated as N/A. Also, General situation is related to overall project implementation therefore it has been also stated as N/A.

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|---|--|----------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Does the public informed with adequate signs about the working area and vehicles? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Do the Vehicles of the Contractor fit in to the speed limits? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Does the Contractor repair all infrastructure/roads when damage given by them? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor removed the soil if they contaminated? | Questionnaires | monthly | C | N/A | N/A | Y | Y | Y |
| Has the Contractor left the working area as defined in Landscape section of the Bidding Documents? | Questionnaires | monthly | C | N/A | N/A | Y | N/A | N/A |
| Has the Operating Personnel signed and accepted all work sites, labor camps, storage areas and temporary dumping areas? | Questionnaires | monthly | C | N/A | N/A | N/A | N/A | N/A |
| Number of grievances about the Contractor? | Interview with the relevant authorities | monthly | BISA | N/A | N/A | 0 | 0 | 0 |
| Number of grievances solved by the Contractor? | Interview with the relevant authorities | monthly | BISA | N/A | N/A | 0 | 0 | 0 |
| Has the Contractor provided the training on the safe use of electricity and pumps for operational staff? | Questionnaires | Once when the project activities completed | EIEC | N/A | N/A | N/A | Y | Y |
| Has the Contractor evaluated the trained O&M staff? | Questionnaires | Once when the project activities completed | MEC/EIEC | N/A | N/A | N/A | N/A | N/A |
| Has the Consultant trained the WCA, BISA staff for irrigation canal and drainage canal management? | Questionnaires | Once when the project activities completed | EEC | Y | N/A | N/A | N/A | N/A |
| Has the Consultant evaluated the trained WCA, BISA staff? | Questionnaires | Once when the project activities completed | EEC | Y | N/A | N/A | N/A | N/A |
| Has the Oil Separator regularly checked and properly maintained? | Questionnaires | Once when the project activities completed | EEC | N/A | N/A | N/A | N/A | N/A |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|--|--------------------------|--|------------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Has the relevant organizations observed the irrigation water quality? | Questionnaires | Once when the project activities completed | EEC | N | N/A | N/A | N/A | N/A |
| Has the relevant organizations observed the ground water level in the irrigation area? | Questionnaires | Once when the project activities completed | EEC | N | N/A | N/A | N/A | N/A |
| Have the farmers applied crop rotation? | Questionnaires | Once when the project activities completed | BISA | N | N/A | N/A | N/A | N/A |
| Have the farmers applied environmentally friendly agricultural production techniques? | Questionnaires | Once when the project activities completed | BISA | N | N/A | N/A | N/A | N/A |
| Has the fertility and productivity been enhanced? | Questionnaires | Once when the project activities completed | BISA | N | N/A | N/A | N/A | N/A |
| Has the O&M staff applies the national Worker Safety Plan? | Questionnaires | Once when the project activities completed | C | N/A | N/A | N/A | Y | Y |
| Has the Contractor made facilities available in the operational building with the clean drinking water? | Questionnaires | Once when the project activities completed | C | N/A | N/A | Y | Y | Y |
| Has the Contractor made facilities available in the operational building with sewerage disposal/handling? | Questionnaires | Once when the project activities completed | C | N/A | N/A | N/A | Y | Y |
| Has the international agreements about the water abstraction been fitted? | Questionnaires | Once when the project activities completed | EEC | N/A | N/A | N/A | N/A | N/A |
| GENERAL ENVIRONMENTAL IMPACTS OF THE PROJECT ON THE ENVIRONMENT | | | | | | | | |
| Flow amount of water in channels? | Measurement | Monthly | BISA/WCA | N | N/A | N/A | N/A | N/A |
| Irrigated Area (ha) | Measurement | Monthly | BISA/WCA | N | N/A | N/A | N/A | N/A |
| Amount of water used for irrigation purposes. | Measurement | Monthly | BISA/WCA | N | N/A | N/A | N/A | N/A |
| Water quality of irrigation water (pH, salinity, hardness, BOD, COD, Nitrate, Nitrite, Ammonium, Phosphate, Pesticides, Oil products, phenol) in the project area. | Measurement | Bi-annual | PIU, HGMEs, Uzhydromet | N | N/A | N/A | N/A | N/A |

| INDICATORS | Data Source | Frequency | Responsibility | Achievement from Commencement of Project Till end of Reporting Period (Yes(Y)/No(N)/Not Applicable(N/A)) | | | | |
|---|--|---|----------------------------|--|-----------|-----------|-----------|-------|
| | How it will be measured? | How often it will be measured? | Who will measure it? | General | ABISRP 01 | ABISRP 02 | ABISRP 03 | |
| | | | | | | | Lot 1 | Lot 2 |
| Soil quality/pollution (SOM) (humus), soil carbon, mobile and gross NPK, nitrates, nitrites, ammonium, phosphate, pesticides) | Measurement | Bi-annual | PIU, BISA, HGMEs, and WCAs | N | N/A | N/A | N/A | N/A |
| Water levels of wells in the irrigated areas? (specify wells) | Measurement | Monthly | BISA/WCA | N | N/A | N/A | N/A | N/A |
| Amount of water used for irrigation purposes. | Health Statistics of Local Authorities | Yearly | PIU from local MoH | N | N/A | N/A | N/A | N/A |
| Electricity Consumed before the project by pumping? | Electricity Meter Records | Monthly Consumed, yearly total | BISA | N | N/A | N/A | N/A | N/A |
| Electricity Consumed after the project by pumping? | Electricity Meter Records | Monthly Consumed, yearly total | BISA | N | N/A | N/A | N/A | N/A |
| Water quantity pumped before rehabilitation/reconstruction? | Flow Measurement | Monthly, average flow | BISA | N | N/A | N/A | N/A | N/A |
| Water quantity pumped after rehabilitation/reconstruction? | Flow Measurement | Monthly, average flow | BISA | N | N/A | N/A | N/A | N/A |
| Reduction in % of GHG by implementation of project? | Calculations | Once based on yearly energy consumption amounts | Calculated by PIU CCMS | N/A | N/A | N/A | N/A | N/A |

BISA : Basin Irrigation System Authority of Regions, C: Contractor of any Subcomponent, CEC: Civil Engineer of Consultant, CCMS: Climate Change Mitigation Specialist, EEC: Environmental Expert of Consultant, EIEC: Electrical Engineer of Consultant, EMR: Environmental Monitoring Report, MEC: Mechanical Engineer of Consultant, MoH : Ministry of Health, MRoC: Monthly Report of the Contractor about the Implementation of EMP, PEC: Procurement Expert of Consultant, PMC: Project Manager of Consultant, PIU: Project Implementation Unit, WCA: Water Consumer Associations

ANNEX II- PHOTOS

Construction of Amu Bukhara 1 NEW Pump Station (ABISRP 01)

Contractor's Site Establishment (Concrete Batching Plant and Warehouse) (ABISRP 01)



Standard Penetration Test (SPT) to Identify Strength Parameters of Soil under Foundation (ABISRP 01)





Mock-up for C25/30 Structural Concrete (ABISRP 01)





Crushed Stone-Sand Bedding, Concrete Bedding (Lean Concrete) and Waterproofing under the Foundation of the Pump Station Building (ABISRP 01)



Contractor's Site Establishment (Construction of Aggregate Storage Bin) (ABISRP 01)



Concrete Bedding (Lean Concrete) and Waterproofing under the Foundation of the Pump Station Building (ABISRP 01)



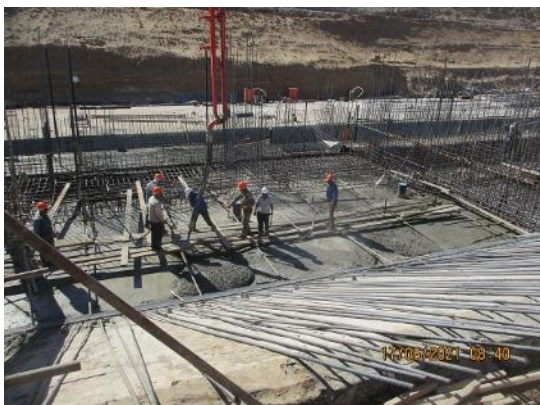


Structural Concrete Works for the Underground Part (Substructure) of the Pump Station Building (ABISRP 01)





Structural Concrete Works for the Underground Part (Substructure) of the Pump Station Building (ABISRP 01)





Structural Concrete Works for the Underground Part (Substructure) of the Pump Station Building (ABISRP 01)

COVID -19 Training



Training of COVID-19
April 2020 Amu Bukhara Main Canal Regulating Structure (ABISRP 01)

List of Participants to the anti-COVID19 training

Date: March 15, 2021

| No. | Name | Occupation | Time |
|-----|------------------------|---------------------|-----------|
| 1 | Jabborov Akmal | Electrical worker | Morning |
| 2 | Qo'ldoshev Muslim | Construction worker | |
| 3 | Shoyev Feruqon | Construction worker | |
| 4 | Xatamov Haydar | Construction worker | |
| 5 | Safarov Shuxrat | Construction worker | |
| 6 | Xasanov Azim | Construction worker | |
| 7 | Qurbonov Nodir | Construction worker | |
| 8 | Xamrayev Axmed | Construction worker | |
| 9 | Xolliyev Yodgor | Construction worker | |
| 10 | Fayziyev Sanjar | Construction worker | |
| 11 | Botirov Otod | Vehicle operator | |
| 12 | Bozorov Amriddin | Vehicle operator | |
| 13 | Kimov Abosir | Vehicle operator | |
| 14 | Achilov Abosir | Vehicle operator | |
| 15 | Umarov Xamro | Vehicle operator | |
| 16 | Bobomurodov G'arifshir | Vehicle operator | |
| 17 | Ochilov Odil | Construction worker | |
| 18 | Avezov Jasur | Construction worker | |
| 19 | Galdiyev Nodir | Construction worker | |
| 20 | Sadullayev Abbas | Construction worker | |
| 21 | Narrot'ov Sandor | Construction worker | |
| 22 | Shukurov Elbek | Construction worker | |
| 23 | Norboshev Sherzod | Construction worker | |
| 24 | Izmatullayev Muhriddin | Construction worker | Afternoon |
| 25 | Shukrullayev Zavqiy | Construction worker | |
| 26 | Qorayev Azizbek | Construction worker | |
| 27 | To'yei Komiljon | Construction worker | |
| 28 | Imonov Hazodir | Construction worker | |
| 29 | O'rinov Nabi | Construction worker | |
| 30 | Xo'jayiyozov Farmon | Construction worker | |
| 31 | Sharopov Zauriddin | Construction worker | |
| 32 | Umirov Azizjon | Construction worker | |
| 33 | Mavlonov Mansur | Construction worker | |
| 34 | Fayziyev Shamshod | Construction worker | |
| 35 | Ko'ziyev Otabek | Construction worker | |
| 36 | Ravshanov Oybek | Construction worker | |
| 37 | Shukrullayev Ko'klam | Construction worker | |
| 38 | Polatov Shamshod | Construction worker | |

| | | |
|----|------------------------|---------------------|
| 39 | Sayliyev Sapar | Construction worker |
| 40 | O'rayev O'ofar | Construction worker |
| 41 | Sultonov Nabi | Construction worker |
| 42 | Rasimov Sherson | Construction worker |
| 43 | Jahonov Shaxboz | Construction worker |
| 44 | Sayfullayev Ro'zimurod | Construction worker |
| 45 | Basimov Akmal | Construction worker |
| 46 | Xandamov Erkin | Construction worker |
| 47 | Begciyev Soyibjon | Construction worker |
| 48 | Mamurov Zafar | Construction worker |

List of Participants to the anti-COVID19 training

Date: April 8, 2021

| No. | Name | Occupation | Time |
|-----|-----------------------|---------------------|-----------|
| 1 | Ergashov Diyorbek | Construction worker | Morning |
| 2 | To'ymurodov Kamtar | Construction worker | |
| 3 | Ostonov Ikrom | Construction worker | |
| 4 | O'rinov Deston | Construction worker | |
| 5 | Izratov Surob | Construction worker | |
| 6 | Ro'ziyev Aziz | Construction worker | |
| 7 | Narzullayev Husniddin | Construction worker | |
| 8 | G'aybullayev Fayoz | Vehicle operator | |
| 9 | Hozratqulov Sharof | Vehicle operator | |
| 10 | Davlatov Hayot | Vehicle operator | |
| 11 | Hamroyev Temur | Construction worker | |
| 12 | Musayev Boboson | Construction worker | |
| 13 | Qosimov Durdinur | Construction worker | |
| 14 | Saidov Qurvonchbek | Construction worker | |
| 15 | Qosimov Sodiq | Construction worker | |
| 16 | Odilov Mahmud | Construction worker | |
| 17 | Tolibov Jasur | Construction worker | |
| 18 | Marotov Ilyos | Construction worker | |
| 19 | Umarov Sayid | Construction worker | |
| 20 | O'rtaev Yusuf | Construction worker | |
| 21 | Sayfullayev Surob | Construction worker | |
| 22 | To'rayev Nurbek | Construction worker | Afternoon |
| 23 | Sobirov Shuhrat | Construction worker | |
| 24 | Rajabov Sherali | Construction worker | |
| 25 | Jo'rayev Botir | Construction worker | |
| 26 | Boboyev Shukurullo | Construction worker | |
| 27 | Boltayev Jahongir | Construction worker | |
| 28 | Hojiyev Sardor | Construction worker | |
| 29 | Qaribonov Ruslan | Construction worker | |
| 30 | Chofliyev Otajon | Construction worker | |
| 31 | Odilov Yodgor | Construction worker | |
| 32 | Shoyev Miraxmid | Construction worker | |
| 33 | Sadullayev Asror | Construction worker | |
| 34 | Ro'ziyoyev Otajon | Construction worker | |
| 35 | Niyozov G'anisher | Construction worker | |
| 36 | Boltayev Farrux | Construction worker | |
| 37 | Bekkiyev Otun | Construction worker | |
| 38 | Mattiyev Abdunazir | Construction worker | |

| | | | |
|----|-----------------------|---------------------|--|
| 39 | Qarbonov Vahob | Construction worker | |
| 40 | Qasratov Zafar | Construction worker | |
| 41 | Ro'zumurodov Mirjalol | Construction worker | |
| 42 | Eshonov Xanxa | Construction worker | |
| 43 | Xandamov Zubiddin | Construction worker | |
| 44 | Behutov Umar | Construction worker | |

List of Participants to the anti-COVID19 training

Date: May 12, 2021

| No. | Name | Occupation | Time |
|-----|----------------------|---------------------|-----------|
| 1 | Nurmurodov Dilshod | Vehicle operator | Morning |
| 2 | Fayziyev Ma'ruf | Welder | |
| 3 | Sayidov Mardon | Construction worker | |
| 4 | Xandamov Jamshid | Construction worker | |
| 5 | Jo'raqulov Bobomurod | Construction worker | |
| 6 | Xamroyev Elbek | Construction worker | |
| 7 | To'rayev Javlon | Construction worker | |
| 8 | Murodov Abbas | Construction worker | |
| 9 | Xudoyev Erkin | Construction worker | |
| 10 | Bobomurodov Xurshid | Construction worker | |
| 11 | Narova'ov Sa'ud | Construction worker | |
| 12 | Ro'ziyev Vehidjon | Construction worker | |
| 13 | Xoliqov Oqsd | Construction worker | |
| 14 | Olimov Shaxboz | Construction worker | |
| 15 | Xamroyev Fayzullo | Construction worker | |
| 16 | Ganiyev Farhod | Construction worker | |
| 17 | Roziqulov Sayyidbek | Construction worker | |
| 18 | Rasimov Salim | Construction worker | |
| 19 | Bozomov Nabi | Construction worker | |
| 20 | Sadullayev Narbek | Construction worker | |
| 21 | Baqoyev Feroz | Construction worker | |
| 22 | Axmedov Murod | Construction worker | |
| 23 | Jumanazarov Ulugbek | Construction worker | Afternoon |
| 24 | Roziyev Elbek | Construction worker | |
| 25 | Jonayev To'ymurod | Construction worker | |
| 26 | Bozomov Izzatillo | Construction worker | |
| 27 | Jonayev Sheorux | Construction worker | |
| 28 | Goybullayev Maqsud | Construction worker | |
| 29 | Udiyev Zafar | Construction worker | |
| 30 | Asadullayev Ulug'bek | Construction worker | |
| 31 | Davlatov Sobir | Construction worker | |
| 32 | Qurbanov Feroz | Construction worker | |
| 33 | Tursunov Farrux | Construction worker | |
| 34 | Jabborov Firdavs | Construction worker | |
| 35 | Sharipov Sherali | Construction worker | |
| 36 | Imomov Ne'matullo | Construction worker | |
| 37 | Kamolov Oqsd | Construction worker | |
| 38 | Avetov Avazbek | Construction worker | |

| | | | |
|----|------------------|---------------------|--|
| 39 | Jumayev Eldor | Construction worker | |
| 40 | Ra'ziyev Olim | Construction worker | |
| 41 | Oqiyev Nazir | Construction worker | |
| 42 | Choriyev Shokir | Construction worker | |
| 43 | Fayziyev Rizamat | Construction worker | |

List of Participants to the anti-COVID19 training

Date: June 9, 2021

| No. | Name | Occupation | Time |
|-----|------------------------|---------------------|-----------|
| 1 | Cholliyev Asliyoqul | Vehicle operator | Morning |
| 2 | Bobomurodov Dilmarod | Vehicle operator | |
| 3 | Choriyev Ozod | Construction worker | |
| 4 | Turobov Elmurot | Construction worker | |
| 5 | Qarbonov Firdavs | Construction worker | |
| 6 | Polatov Muxriddin | Construction worker | |
| 7 | Sayliyev Zafar | Construction worker | |
| 8 | Ikromov Yangiboy | Construction worker | |
| 9 | Xamdaniyev To'xtamurot | Construction worker | |
| 10 | Yamatov Mexriddin | Construction worker | |
| 11 | Yamatov Komil | Construction worker | |
| 12 | Yamatov Benorn | Construction worker | |
| 13 | Achilov Mirshod | Construction worker | |
| 14 | Azizov Muhammad | Construction worker | |
| 15 | Xakimov Azizbek | Construction worker | |
| 16 | Choriyev Samat | Construction worker | |
| 17 | Oltiboyev Doston | Construction worker | |
| 18 | Rajabov Optik | Construction worker | |
| 19 | Rasmatov Fazliddin | Construction worker | |
| 20 | Haqjiyev Xusriddin | Construction worker | |
| 21 | Xatamov Abdug'affor | Construction worker | |
| 22 | G'aybullayev Umidjon | Construction worker | |
| 23 | Jo'rayev Farus | Construction worker | |
| 24 | Ikromov Hayot | Construction worker | |
| 25 | Azamatov Azizbek | Construction worker | |
| 26 | Haqoyev Feroz | Construction worker | Afternoon |
| 27 | Xamroyev Mirkomil | Construction worker | |
| 28 | Boyliyev Alijon | Construction worker | |
| 29 | Yorov Nayot | Construction worker | |
| 30 | Nurullayev Umidjon | Construction worker | |
| 31 | Kamolov Bastiyor | Construction worker | |
| 32 | Xamidov Azizbek | Construction worker | |
| 33 | Tog'ayev Obid | Construction worker | |
| 34 | Suvonov Sodiq | Construction worker | |
| 35 | G'aniyev Umid | Construction worker | |
| 36 | Jumayev Ziyodullo | Construction worker | |
| 37 | Jumaqulov Subonbek | Construction worker | |
| 38 | Yangjiyev Ahmet | Construction worker | |

| | | | |
|----|--------------------|---------------------|--|
| 39 | Xamdamov Xasan | Construction worker | |
| 40 | Axmedov O'ktam | Construction worker | |
| 41 | Quvondiqov Bekzod | Construction worker | |
| 42 | Ro'ziyev Sunnat | Construction worker | |
| 43 | Ergashev Olim | Construction worker | |
| 44 | Yormatov Rizamat | Construction worker | |
| 45 | Azimov Muhammadjon | Construction worker | |
| 46 | Qodirov Sardar | Construction worker | |
| 47 | Aqpiyev Murod | Construction worker | |
| 48 | Parlayev Axmed | Construction worker | |

List of Participants to the anti-COVID19 training

Date: August 12, 2021

| No. | Name | Occupation | Time |
|-----|----------------------|---------------------|-----------|
| 1 | Cho'liyev Furqat | Vehicle operator | Morning |
| 2 | Sayfullayev Abbas | Electrical worker | |
| 3 | Norbayev Sherzamon | Construction worker | |
| 4 | Elmurodov Oqiljon | Construction worker | |
| 5 | Hirzatorov Ulug'bek | Construction worker | |
| 6 | Jo'rayev Javohir | Construction worker | |
| 7 | Rayimov Jamshid | Construction worker | |
| 8 | Jo'rayev Bahridin | Construction worker | |
| 9 | Bozorov Salim | Construction worker | |
| 10 | Bo'ronov Shuhrat | Construction worker | |
| 11 | Shokirov Botirjon | Construction worker | |
| 12 | Xuddiyev Rafiq | Construction worker | |
| 13 | Jammiyev Ozod | Construction worker | |
| 14 | Axmedov Sherbek | Construction worker | |
| 15 | Bo'ronov O'lmasbek | Construction worker | |
| 16 | Ye'ldoshov Zafar | Construction worker | |
| 17 | O'vezov Akmal | Construction worker | |
| 18 | Ro'ziyev Jasur | Construction worker | |
| 19 | Jo'rayev Manir | Construction worker | |
| 20 | Ye'ldoshov Larizbek | Construction worker | |
| 21 | Qurbanov Zafar | Construction worker | |
| 22 | Boboyev Dilmurod | Construction worker | |
| 23 | Rasmatov G'ayrat | Construction worker | |
| 24 | Ro'zimurodov Bekzod | Construction worker | |
| 25 | Ibodullayev Elbek | Construction worker | |
| 26 | Bobomurodov Izzatbek | Construction worker | |
| 27 | Hayitov Ozod | Construction worker | |
| 28 | Xojiyev Maruf | Construction worker | |
| 29 | Jumsoqov G'iyos | Construction worker | |
| 30 | Ergashev Farid | Construction worker | |
| 31 | Mamurov Mansur | Construction worker | |
| 32 | Inoyatov Akbar | Construction worker | |
| 33 | Bobomurodov Faxridin | Construction worker | |
| 34 | Ergashev Abdumazar | Construction worker | |
| 35 | Avezov Bahrom | Construction worker | |
| 36 | Jumsoqov Dilmurod | Construction worker | |
| 37 | Behudov Umidjon | Construction worker | |
| 38 | Sattorov Siroj | Construction worker | |
| | | | Afternoon |

| | | | |
|----|-----------------------|---------------------|--|
| 39 | Nuriddinov N. | Construction worker | |
| 40 | Ergashev Madrahim | Construction worker | |
| 41 | Aslyosqulov Intizor | Construction worker | |
| 42 | Bo'ronov Tavakkal | Construction worker | |
| 43 | Xotamov Abdulg'aflov | Construction worker | |
| 44 | Xaqqiyev Xasan | Construction worker | |
| 45 | Oqqiyev Jamshid | Construction worker | |
| 46 | Karimov Shuhrat | Construction worker | |
| 47 | Abdurahmonov Abdunabi | Construction worker | |

Amu Bukhara Main Canal Regulating Structure
(ABISRP 02)

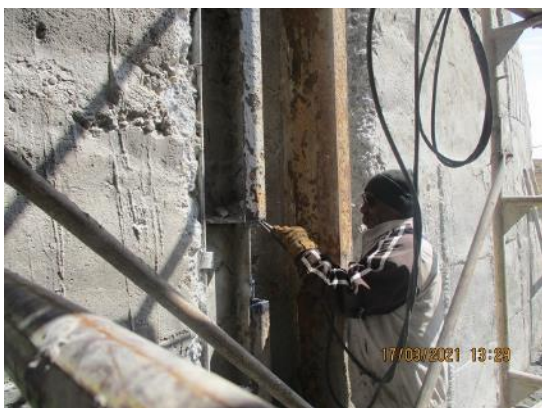
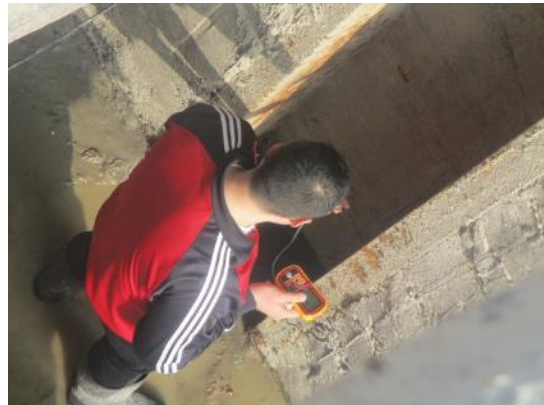


Installation of Fences around the Transformers of Hydrosystems Djilvan and Rostguy
(ABISRP 02)





Replacement of Handrails on Hydrosystem Outflow-1 on ABMK-1 (ABISRP 02)





Thickness Check of Existing Metal, Repair of Guide Slots, and Stone Pitching on Regulator ABMK-2 on Hydrosystem Prokop (ABISRP 02)



Installation of Gates and Repair Works on Regulator ABMK-2 at Hydrosystem Prokop (ABISRP 02)



Removal of Cofferdams upon Completion of Rehabilitation Works on Regulator ABMK-2 at Hydrosystem Prokop (ABISRP 02)

**Modernization and Rehabilitation of Kuyu Mazar Pump Station
(ABISRP 03.1)**

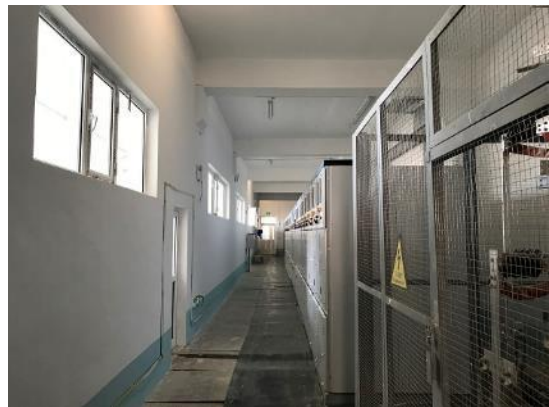


Lodging Buildings of the Operating Personnel in Kuyu Mazar Pump Station (ABISRP 03 Lot 1)



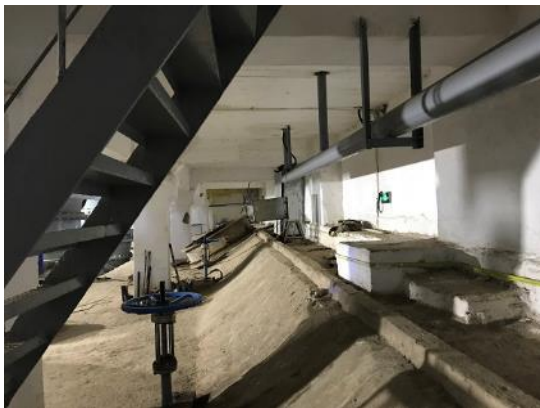


Façade Views of Kuyu Mazar Pump Station (ABISRP 03 Lot 1)





Interior Views of Kuyu Mazar Pump Station (ABISRP 03 Lot 1)



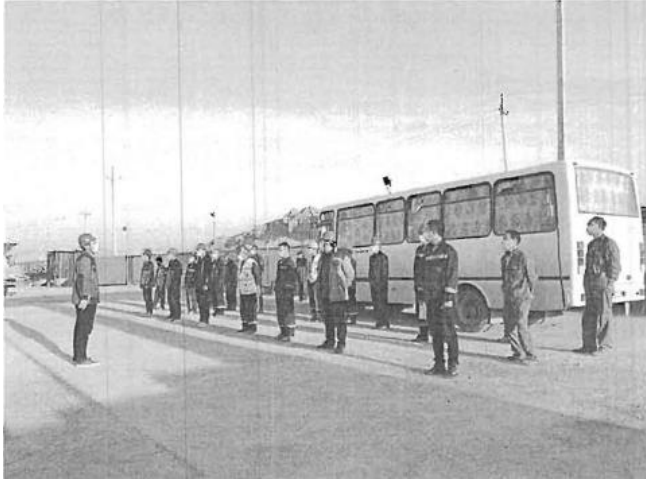
Interior Views of Kuyu Mazar Pump Station (ABISRP 03 Lot 1)



Reconstruction of Damaged Slope Protection Concrete at the Upstream of Trashrack Structure on Canal KM of Kuyu Mazar Pump Station (ABISRP 03 Lot 1)



Working Commission Established to Check the Works and to Identify the Deficiencies Prior to Issuance of Completion Certificate for Kuyu Mazar Pump Station (ABISRP 03 Lot 1)









Training of COVID-19
April 2020 Kuyu Mazar Pump Station (ABISRP 03 Lot 1)

OHS and COVID 9 training record at ABISRP 03 Lot 1

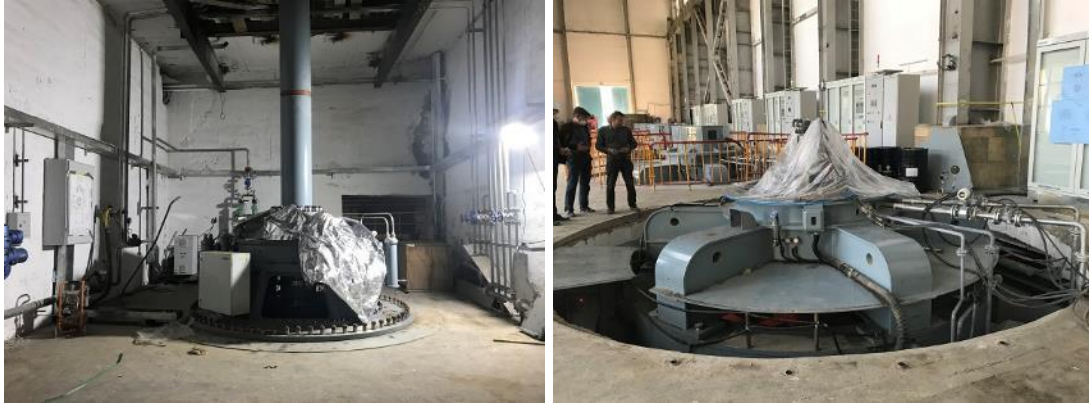
ЛИЧНАЯ КАРТА ИНСТРУКТАЖА табл.№ _____

И.Ф.О Рамазанов Сирож Рахмоод угли

Профессия Рамазобаччи паспорт.№ _____

| n/p | Наименование инструктажа и содержание | Дата | Подпись инструктирующего | Подпись работника |
|-----|--|----------|---|---|
| 1 | Проведен Вводный инструктаж, согласно утвержденной программы, Вводного инструктажа. | 08.08.21 |  |  |
| 2 | Проведен первичный инструктаж на рабочем месте, согласно утвержденной программы | 08.08.21 |  |  |
| 3 | Проведен периодический инструктаж по ОТ, ТБ ППБ ПЭ, ПБ для рабач рабочих согласно инструкциям № 107- 27- 019 | 02.08.21 |  |  |
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**Modernization and Rehabilitation of Kizil Tapa Pump Station
(ABISRP 03.2)**



Reinstallation of the Pump Unit #5 after Coating Repair of Its Impeller in Kizil Tapa Pump Station (ABISRP 03 Lot 2)



Installation Works of the Pump Units #6 and 7 in Kizil Tapa Pump Station (ABISRP 03 Lot 2)



Construction of Lodging Buildings for the Operating Personnel in Kizil Tepa Pump Station (ABISRP 03 Lot 2)



Road Reconstrction Works in Kizil Tepa Pump Station (ABISRP 03 Lot 2)



Interior Finishing Works in Kizil Tepa Pump Station (ABISRP 03 Lot 2)



Interior Finishing Works in Kizil Tepa Pump Station (ABISRP 03 Lot 2)





Completion of Replacement of Main Pump Units and Operation of All Pumps in the Current Irrigation Season at Kizil Tapa Pump Station (ABISRP 03 Lot 2)





Reconstruction of Asphalt Pavement Around Kizil Tapa Pump Station (ABISRP 03 Lot 2)





Reconstruction of Asphalt Pavement Around Kizil Tapa Pump Station (ABISRP 03 Lot 2)





Construction of Lodging Buildings, Domestic Water Supply Tank and Septic Tank at Kizil Tepa Pump Station (ABISRP 03 Lot 2)



Training of COVID-19
April 2020 (ABISRP 03 Lot 2)



Disinfection due to COVID-19
April 2020 (ABISRP 03 Lot 2)

OHS and COVID 9 training record at ABISRP 03 Lot 2

Фамилия, имя, отчество/ Full name Chen Tie Liang

Профессия (должность)/ Trade (position) _____

| Дата проведения, или причина инструктажа/ Conduction date, reason definition of instruction | Тема инструктажа (вопросы, по которым проводится Инструктаж/ Instruction topic (questions, on which instruction is conducting) | Подпись/ Signatures | |
|---|--|---------------------------------------|--------------------------------|
| | | Инструктируемый/ Instructed person | Инструктирующий/ Instructor |
| 08/03/2019 Бирландия | Согласно программе | | |
| Первоначальный | Первоначальное инструктаж | 陈铁亮 | 苟国旺 |
| 08/06/2019 Бирландия | Согласно программе | | |
| Периодический | инструктаж на месте | 陈铁亮 | 苟国旺 |
| 10/09/2019 Бирландия | Согласно программе | | |
| Периодический | на территории участка | 陈铁亮 | 苟国旺 |
| 30/12/2019 Бирландия | Согласно программе | | |
| Периодический | на территории участка | 陈铁亮 | 苟国旺 |
| 30.03.2020 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | 陈铁亮 | 苟国旺 |
| 30.06.2020 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | ✓ | ✓ |
| 30.09.2020 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | ✓ | ✓ |
| 30.12.2020 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | ✓ | ✓ |
| 08.03.2021 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | 陈铁亮 | 苟国旺 |
| 13.06.2021 | Согласно программе | | |
| Периодический | УОТ - КАМ - 019 | 陈铁亮 | 苟国旺 |