Semi-Annual Report: January - June 2023

Semi Annual Report
(Reporting period: January-June 2023)
Project Number: 53109-001

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Tajikistan: Climate- and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project

Prepared by Project Implementation Group under the State institution "Capital and Land Reclamation Construction" for the Agency of Land Reclamation and Irrigation under the Government of the Republic of Tajikistan for the Asian Development Bank

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GLOSSARY

Dehkan farm - A small family entity that produces and sells agricultural products using the labor of family members on a land plot transferred to the head of the family as hereditary property throughout life, officially registered or not as a legal entity.

Hukumat (Administration) - State administration at the regional and district levels.

Jamoat- State administrative union at the village level. A small piece of land next to the house used for agriculture / gardening.

Mahalla - Traditional community structure, local district council.

Province - Administrative division or region within the republics of the former Soviet Union (e.g. Tajikistan).

Village - Rural populated area, settlement.

District - District (in Russian its rayon).

Plot - Household plot of land for agricultural activities.

Salinity - High salinity in soil and/or water that threatens plant growth and is also called mineralization.

WEIGHTS AND MEASURES

ha	-	Hectare	m/s	-	meter per second
l/s/ha	-	liter per second per hectare	km	-	kilometer
m	-	Meter	km^2	-	square kilometer
m^3	-	cubic meter			

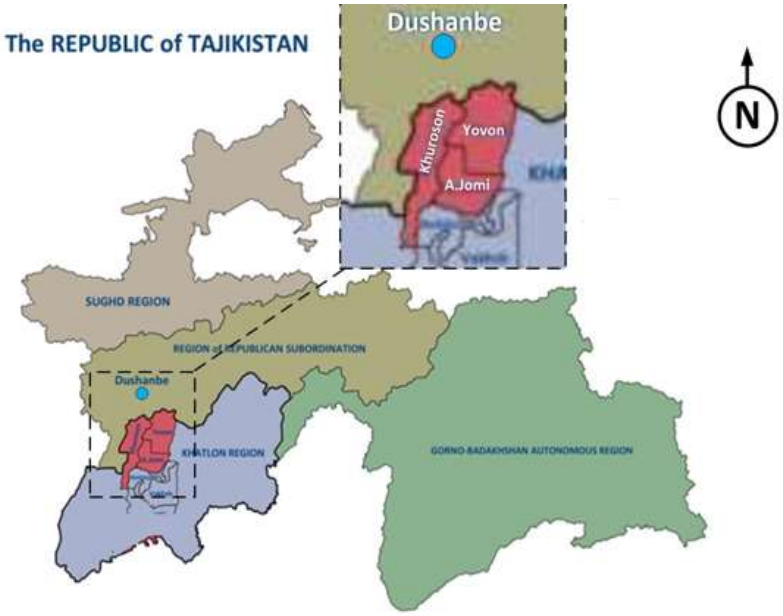
I. INTRODUCTION

1. The Project titled "Climate and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project" is the first gender equity-based Irrigation and Drainage (I&D) investment of the Asian Development Bank (ADB) in the Republic of Tajikistan. The Project will enhance climate resilience and water productivity and improve the income of female and male farmers by modernizing the selected areas of the Yovon I&D system located in the Khatlon Province of the lower Vakhsh River basin;
2. The Yovon scheme's I&D facilities were built in stages, from the mid-1960s to the early 1980s and have been badly deteriorated over the 50 years of service. Some parts of the I&D systems have reached the end of their design life, and some sections have been abandoned. Due to the modernisation of prioritized components of the Yovon I&D system, it is expected that some 9,600 farmers, of whom 20% are female, will benefit from improved water service delivery, energy savings and application of climate-smart technologies.;
3. The Project is also aligned with the Tajikistan National Development Strategy 2030, which emphasises on improving food security and people's access to good quality nutrition, the detail of Project is summarized Table 1;

Table 1: Project Details

Name of Project	• Climate-and-Disaster Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin
Project category	• The Project is classified as Environmental Category B under ADB's Safeguards Policy (SPS-2009)
Total project coverage	• The Project area covers 40,355 ha, of which 23,626 ha (59%) is gravity supplied, and 16,729 ha (41%) is supplied with cascades of pump systems lifting water.
Project beneficiaries	• WUAs and communities living in the project area
Cost of the Project	• ADB Grant No 0810-TAJ(SF) - 30 000 000 USD • GoT Contribution- 5 172 004 USD
Project duration	• January 2022 - June 2027
Project executing agency	• Agency for Land Reclamation and Irrigation under the GoT
Project implementing agency	• PIG under the SI "Capital and Land Reclamation Construction" of the Agency for Land Reclamation and Irrigation under the GoT
Project coverage	• The selected sections of Yovon I&D system, extend over two valleys, namely the Yovon and Khuroson valley. The project will benefits three districts (a) Yovon (b) A. Jomi and (c) Khuroson in Khatlon province, *See Figure 1 and 2*
Project Implementation Consultant (PIC)	• SMEC International Pty Ltd in a joint venture with BARS Consulting Ltd
Involuntary displacement (if any)	• No
Project Impact	• Food security and improve people's access to good quality nutrition," aligned with the Tajikistan National Development Strategy 2030.
Project Outputs	• Strengthen water productivity and farmer's incomes • Strengthen capacity of the Agency for Land Reclamation and Irrigation (ALRI) • Strengthen the capacity of Water Users Associations (WUAs) on infrastructure management and water use efficiency. • Inclusion of women's farmers in all activities. • Improve climate and disaster resilience,

Figure 1: Project Location



1.1 Preamble

4. This report is the Second Semi-Annual Environmental Monitoring Report (SAEMR) for the project tilted ***"Climate-and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin"***. It covers the reporting period from January to June 2023;

5. SAEMR highlights the works undertaken during the reporting period;

6. SAEMR highlights the status of Environmental Safeguard during the reporting period such as;
   a) Environment and social safeguards mandate of PIC and PIG
   b) Site inspection and compliance status
   c) Package CW4 completion status and restoration of temporary areas
   d) Safeguard activities undertaken in different package during the reporting period
   e) Lesson learned from Package CW4
   f) Status of compliance with project loan covenants with respect Environmental Safeguards

1.2 Heading Information

7. The Initial Environmental Examination (IEE) was conducted in August 2021. The project is classified as category B project as per ADB's Safeguards Policy (SPS-2009);
8. The Committee for Environmental Protection (CEP) of the Republic of Tajikistan approved the application and granted Environmental Clearance on 28 January 2022 (Letter No. 118-15), *for detail, refer to Annexure 1;*
9. Based on investigations, detailed feasibility studies and safeguard study (IEE), the potential environmental impacts of project activities are less adverse and are not likely to cause long term significant adverse

environmental. The short-term impacts will be short-lived, mostly site-specific and reversible, that can be mitigated by adopting appropriate structural and non-structural mitigation measures. The project area is not adjacent to or within any environmentally sensitive area. Physical impacts are limited and recoverable;

10. The project is climate resilient and improve water and food security in the Vaksh Basin in Tajikistan. At the same time, the project expected to bring several positive environmental and social impacts, such as (i) reduction in water logging, (ii) reduction in salinization and water losses; (iii) improved irrigation distribution; (iv) reduction in seepage losses from main canal; (v) reduction in loss of lands; (vi) reduction in erosion of soil and so on;
11. According to the Grant Agreement, the ALRI ensure that the preparation, design, construction, implementation and operation of project facilities shall comply with:
    a) All applicable laws and regulations related to environment, health, and safety.
    b) The Environmental Safeguards.
    c) Environmental Assessment and Review Framework
    d) All measures and requirements as outlined EMP, and or any corrective or preventative actions outlined in a Safeguards Monitoring Report.
12. The Initial Environmental Examination (IEE) established that no significant environmental issues are expected to occur and can be fully prevented or adequately mitigated to acceptable levels. There will be no significant residual impacts if all mitigation measures are taken and management plans are implemented
13. The Project Administration Manual mandate to submit the Semi-Annual Environmental Monitoring Report in align with ADB's SPS requirements by the PIG, including compliance status of implementation of environmental management plans/ site-specific environmental management plan, health and safety-related issues and corrective actions identified during the reporting period.
14. Since 2022, both PIG and PIC have appointed environment safeguard specialists to ensure Safeguards compliance requirements as stipulated in National laws and ADB Safeguard Policy Statement (SPS 2009), for *detail, refer to Table 3: Environment Professional for Safeguard Compliances*
15. For modernization and reconstruction of structures of Yovon I&D system, the project has been divided into 5 civil works packages, each package is divided into lots and will be taken up in phase wise, for completion of Package CW4, the contract was awarded on October 18, 2022, to JSC “Tojmeckanizm”, *see Table 2: Status of Contracts Awarded for different Packages*

Table 2: Status of Contracts Awarded for different Packages

Package	Scope	Contractor	Signed Date	Approval Date			Name of personnel		Civil Work			Progress as of	
				SSEMP	HSMP	ERP	Environmental officer	HS Officer	Start Date	End Date	DLP	Jan 2023	Jun 2023
CW1	Lot1: Upgrading and modernization of Main (0.6km) and Right Branch canal 85 km, inspection roads, and Secondary Canal, PL4, 4.5 km; Lot2: Construction of two bypass channels and Sturchasoi siphon; and Lot-3 Buffer strip and riverine area development and Precision land levelling	Tender not advertised											
CW2	Modernization of Pumping Stations and renovation of mechanical workshop in Khuroson district Lot 1: Modernization of pumping station Rassvet no. 6 Lot 2: Modernization of pumping station no. 26 Lot 3: Renovation of mechanical workshop with installation of equipment	Tender not advertised											
CW3	Modernization Tertiary Irrigation & Drainage Systems (buried pipes)	Tender not advertised											
CW-	Rehabilitation of Office	JSC	18.10.22	30/10/2022	30/10/2022	30/10/202	Saidov L	Saidov	02/11/	30.04.22		58,65%	100%

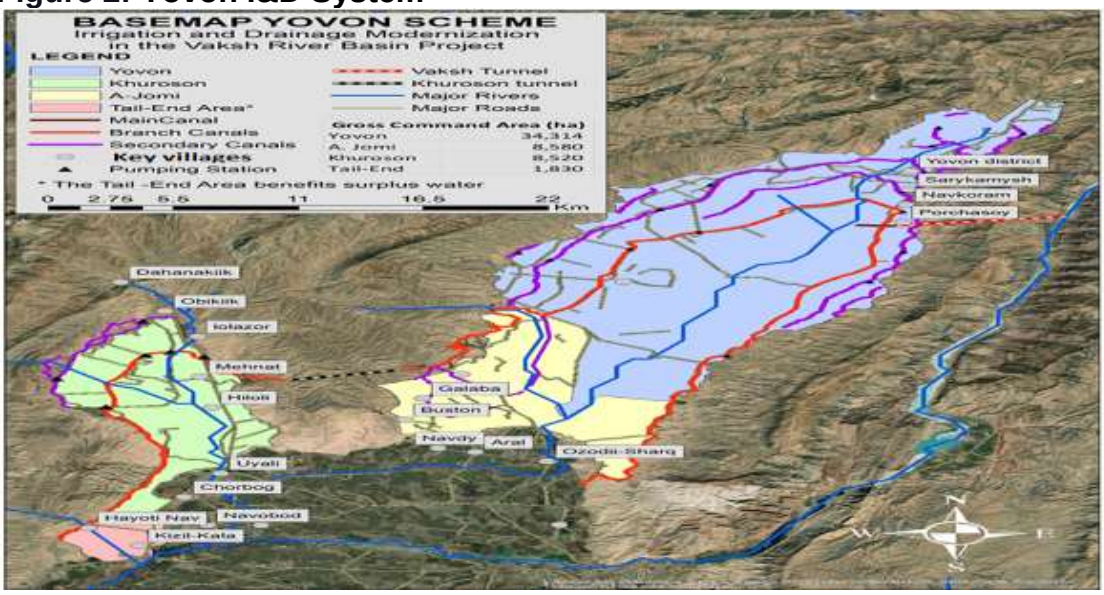
4	Buildings of two PIOs	«Tojmekhanizm»				2		L	2022				
CW5	Lot 1: Construction of new Office UWUA building with training zone. Lot 2: Rehabilitation of Bahoriston canal single agency Office	Tender not advertised											

II. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

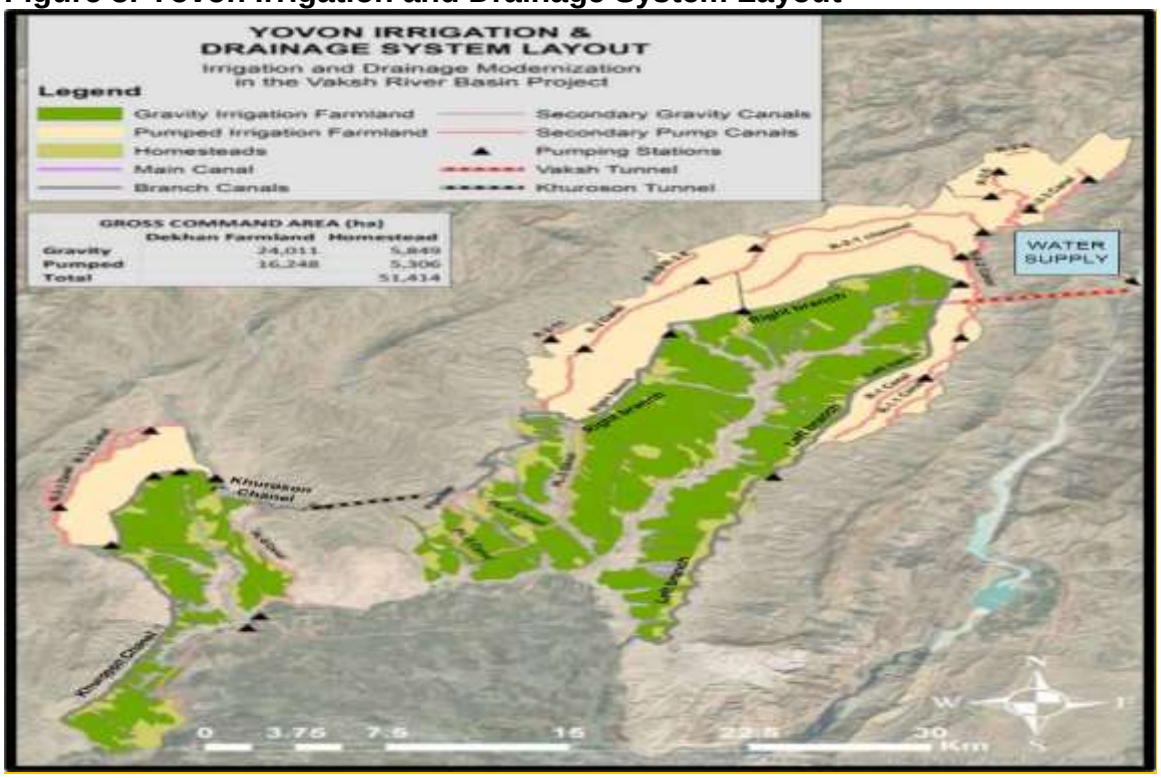
16. In order to strengthen food and water security, including improving the socio-economic status of beneficiaries, on 31st December 2021, the Government of Tajikistan signed a Grant Agreement with the Asian Development Bank (ADB) to implement the **Climate and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project.**
17. The Yovon I&D system is highly exposed to climate and earthquake hazards and characterized by highly erodible fine grained (loess) soils on sloping terraces. Key challenges include rising water tables and salinity, aging infrastructure which is vulnerable to earthquakes, and inflexible and unreliable irrigation which locks farmers into rigid (mostly cotton-wheat) cropping with low yields. Climate change disproportionally affects women as they do not have equal access to knowledge, inputs for improved agricultural productivity. They also have limited roles in decision making on water management despite being pivotal in ensuring nutritional and food security and making up the main agriculture labor force.
18. The Yovon I&D system extends over parts of three districts, Yovon, A Jomi, and Khuroson in Khatlon Province, and across two river valleys, Yovon and Khuroson. The net irrigable command area is 40,355 hectares (ha), of which 23,626 ha (59%) is gravity supplied and 16,729 ha (41%) pumped with cascades of pumping systems lifting water, *for detail, see Figure 2*.
19. The project will modernize prioritized components of the Yovon I&D system. The Project is located in the Khatlon Province of the lower Vakhsh river basin. Some parts of I&D systems have reached the end of their design life. Further, the existing infrastructure in many irrigation systems is old and deteriorated due to lack of funds for maintenance, repair and reconstruction. As a result, the water control is significantly reduced, and water wastage increased significantly.

Figure 2: Yovon I&D System



20. The Yovon scheme engineering infrastructure comprises: (i) Main-Branch Canals and associated structures, (ii) Pumping Systems, (iii) Secondary-Tertiary Distribution Systems, (iv) Drainage Systems, (v) Escape/ spill mudflow channels, (vi) Inspection and Farm Roads, and (vii) Field systems *for detail, see Figure 3*

Figure 3: Yovon Irrigation and Drainage System Layout



21. ALRI manages, operates and maintains the main system of branch canals, spill/escape channels, pumping stations and collector drains. Seventeen water user associations (WUAs) are responsible for management, operation, and maintenance (MOM) of secondary and tertiary systems, including the buried (asbestos) pipe systems, in their respective areas

22. The strengthening of I&D system will be carried out by introducing (i) climate- and disaster-resilient modernization of prioritized I&D infrastructure (ii) streamlined institutions and systems for effective planning, operation and maintenance (O&M); and (iii) strengthening policies and strategies to address gender equality and enhance women's participation in land and water management.

23. There is no forest, critical or natural habitats in the areas to be impacted by the project. Based on the observation, the air quality in the project area appears to be generally acceptable due to the rural situation, low traffic movement and lack of industries.

2.2 Project Contracts and Management

24. Agency for Land Reclamation and Irrigation (ALRI) is an executing agency (EA) and are accountable for;

(a) Ensuring sufficient funds to implement all agreed environmental mitigation measures
(b) Ensure that necessary environmental clearances are obtained from CEP prior to award of civil works contracts
(c) Establish a GRM-grievance redress mechanism at the local and national level, as described in the IEE and LARF (Land Acquisition and Resettlement Framework)
(d) Disclose relevant information from safeguards documents (including the IEE and SAEMR Semi-Annual Environmental Monitoring Reports for environment and relevant social safeguards documents (LARF, LARP-Land Acquisition and Resettlement Plan, DDR-Due Diligence Report and SASMR-Semi-Annual Social Monitoring Reports (in both Tajik and Russian languages) to affected persons.

25. PIG under State Institute of Capital Land Reclamation Construction (SICLRC) is an implementation Agency and focal point for communication with ADB on project-related matters and accountable for ensuring environment safeguards compliance such as compliance with environmental safeguards established in EARF- Environmental Assessment and Review Framework, review and clear contractor's SSEMPs; arranging necessary training programs for staff; supervise and monitor environmental and social safeguards compliance conducting meaningful consultation etc. *See Figure 4: Project Implementation Organization Structure*

26. The contract for the Project Implementation Consultant (PIC) was awarded by the State Institute of Capital Land Reclamation Construction (SICLRC) on 15 July 2022 to SMEC International Pty Ltd in a joint venture with BARS Consulting Ltd.

27. The role of the Project Implementation Consultant (PIC) is to assist, support, review, coordinate, assess, supervise, recommend, and monitor the compliance requirement related to E&S safeguards, including monitoring and compliance with site-specific occupational health and safety. Further, the PIC in consultation with PIU will ensure E&S aspects and climate resilience features are incorporated into the project planning and design, including procurement/bid documents as stipulated. The scope of the PIC is summarized below

a) Assist and provide technical support to PIG in obtaining Environmental clearance before the civil works' bidding process.
b) Assist PIG in updating Environment Management Plan & Asbestos Management Plan (AMP) included in the IEE.
c) Assist PIG in updating the proposed budget for safeguard measures as included in IEE, including cost of implementation of AMP

d) Provide training and capacity building on EMP and AMP to ALRI and PIG staff (including management) and provide training to engineers and contractors before the submission of contractor's SSEMP
e) Assist PIG in reviewing Site Specific Environment Management Plan (SSEMP) prepared by the contractor.
f) Ensure that environmental & social safeguard measures identified in the EMP must be integrated and addressed during the design stage, including Asbestos Management Plan (AMP) included in the IEE.
g) Assist and facilitate in the preparation of the bidding documents and any additional environmental assessment before project construction
h) The AMP will be incorporated in bid and contract documents based on the detailed design.
i) Assist PIG to undertake monitoring of the implementation of the EMP, AMP and SSEMP
j) Supervise and monitor the contractor's monitoring and implementation of mitigation measures during the construction stage and compliance with the SSEMP.
k) Based on EMP and SSEMP monitoring results - identify environmental corrective actions and prepare a corrective action plan, as necessary, for submission to Asian Development Bank.

Figure 4: Project Organization Structure



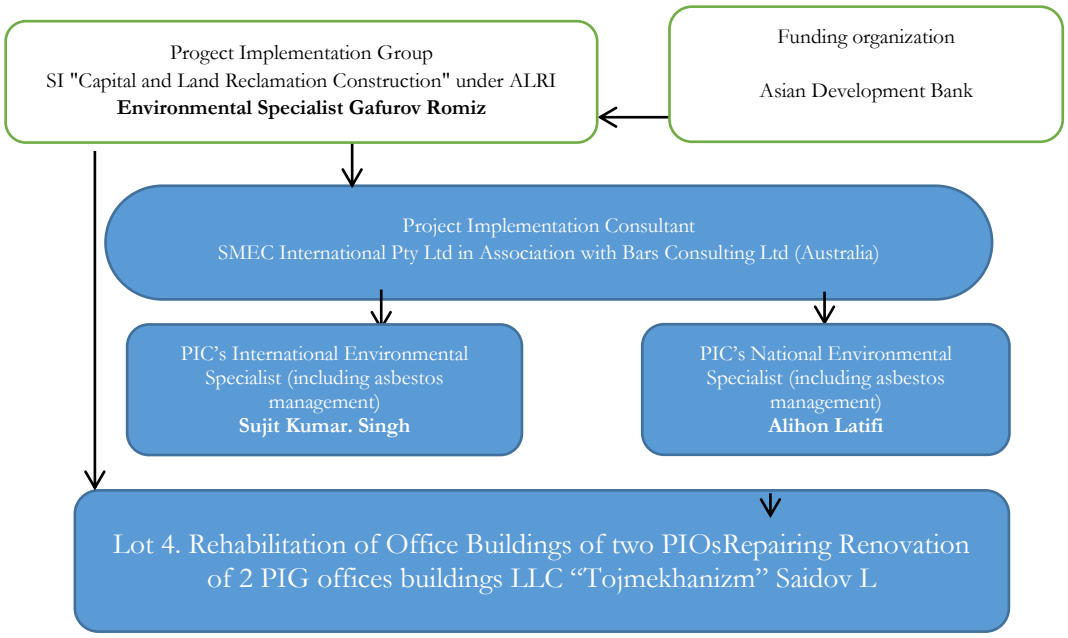
28. The project environmental, health and safety personnel from PIG and the PIC is summarized in Table 3, Figure 5 enumerate the framework for Environment Safeguards reporting

.

Table 3: Environment Professional for Safeguard Compliances

Environmentally Sensitive Personnel	Allocated man month	Date of assignment	Name
PIG Environmental Safety Specialist	Full time	August 1, 2022	Romiz Gafurov
International PIC environmental specialist (including asbestos management)	4 months	December 1, 2022	Sujit Kumar Singh
National PIC environmental specialist (including asbestos management)	30 months	October 1, 2022	Alikhon Latifi

Figure 5: Framework for Reporting Environment Safeguard



29. As per the PAM, the project consists of 5 civil works packages:

a) Each Package is divided into lots, for detail, *refer to Table 4*
b) Based on the scale of physical intervention under each lots, and potential environmental risks, Package 1 & 3 may have high impact (Red highlight), Yellow (Medium impact), Green (Low impact)
c) Each package will be taken in phase wise
d) Out of five Package, works at package CW4 was stated during the reporting period between May to December 2022. Construction of Package CW4 involves the construction of two PIG offices (a) Rehabilitation of the existing building in Yovon district (b) A new PIG office construction in Khuroson district.

Table 4: Details of Packages, Lots and Anticipated Risks

Name of package	Lots	Anticipated Environmental & Social Impacts*
CW1	Lot1: Upgrading and modernization of	Anticipated impacts - expected to be

	Main (0.6km)and Right Branch canal 85 km, inspection roads, and Secondary Canal, PL4, 4.5 km; Lot 2: Construction of two bypass channels and Sturchasoi siphon; and Lot-3 Buffer strip and riverine area development and Precision land levelling	HIGH due to large-scale civil works, pressure on local resource, road safety due to increase in transportation, trigger community health safety issues, labour intensive, high waste generation, public inconvenience, and high labour occupational health and safety concern.
CW2	Modernization of Pumping Stations and renovation of mechanical workshop in Khuroson District Lot 1: Modernization of pumping station Rassvet no. 6 Lot 2: Modernization of pumping station Rassvet no. 6 Lot 3: Renovation of mechanical workshop with installation of equipment	Anticipated impacts - expected to be MODERATE due to limited civil work, slight increase in transportation, generation of ACM materials, some interference or inconvenience to local community.
CW3	Modernization Tertiary Irrigation & Drainage Systems (buried pipes)	Anticipated impacts - expected to be HIGH due to large scale civil works, pressure on local resources, generation of ACM materials, high occupational health and safety issues etc.
CW4	Rehabilitation of Office Buildings of two PIOs	Low impact Package - site is small, limited civil work, impacts are limited to workplace (noise, dust and occupational health & safety issues), no land requirement, no impact on immediate neighbourhood, no ACM generation.
CW5	Lot 1: Construction of new Office UWUA building with training zone. Lot 2: Rehabilitation of Bahoriston canal single	Low impact, justification same as mentioned in Package CW4

** Magnitude of Environment and social impacts are anticipated based on (a) scale of operation (b) requirement of auxiliary activities (d) Asbestos containing material (e) labour workforce (f) extend of civil interventions*

30. The construction of both office buildings (Package CW4) has been a part of the implementation of the Project titled "Climate and Disaster Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin".

2.3 Project Activities during Current Reporting Period

31. Project status during the reporting period under different package is summarised in Table 5.

Table 5: Status of different Packages during reporting period (January to June 2023)

Name of package	Lot	Current status during reporting period (January to June 2023)
CW1	**Lot1:** Upgrading and modernization of Main (0.6km) and Right Branch canal 85 km, inspection roads, and Secondary Canal, PL4, 4.5 km; **Lot 2:** Construction of two bypass channels and Sturchasoi siphon; and **Lot-3** Buffer strip and riverine area development and Precision land levelling	• Topographical survey of the main canal of 85 km – Done • Detailed survey completed. As a result of the survey, a defective act was drawn up that was agreed upon with the local people of the district. • Technical drawing partially completed for the Yovon and Jomi areas. • As agreed with PIG and ADB, the design of 85 km main canal will be carried out by the State design institute "Tajikgiprovodkhoz". In this regard, PIC made an amendment and sent it to client and ADB. Awaiting to receive NoL from ADB • Buffer zone risk analysis report has been prepared and shared with PIG for further action. • Bidding/tendering/work allotment – Not initiated • Physical intervention (civil work) – Not started
CW2	Modernization of Pumping Stations and renovation of mechanical workshop in Khuroson District Lot 1: Modernization of pumping station Rassvet no. 6 Lot 2: Modernization of pumping station Rassvet no. 6 Lot 3: Renovation of mechanical workshop with installation of equipment	• Topographical survey – Done • Detailed survey and design – Report submitted to PIG/ADB • Technical drawing submitted to state expertise and obtained approval for tendering • Bidding/tendering/for civil work - Tender announced for construction will be soon. • Physical intervention (civil work) – Not started
CW3	Modernization Tertiary Irrigation & Drainage Systems (buried pipes)	• Reconnaissance survey – Done • Detailed survey & design – Not initiated • Bidding/tendering/allotment of work order – Not initiated • Physical intervention (civil work) – Not started
CW4	Rehabilitation of Office Buildings of two PIOs	• The final completion has already submitted to PIG of the construction of two offices is attached to the PIU
CW5	Lot 1: Construction of new Office UWUA building with training zone. Lot 2: Rehabilitation of Bahoriston canal single	• Reconnaissance survey – Done • Detailed survey & design – Not initiated • Bidding/tendering/allotment of work order – Not initiated • Physical intervention (civil work) – Not started

32. **Prepared Environment Safeguards Bid Document for Civil Contractor for Package CW2**. The conditions for bid document for environmental safeguards have been developed based on preliminary site investigation, and conditions

as stipulated in (a) Project Administration Manual (PAM), (b) Initial Environmental Examination (IEE) Report (c) grant agreement, *for detail refer to Annexure 8.*

33. **Asbestos Inventory** - On 24th April 2023, International Environment Specialist (IES finalised the inventory of Asbestos Containing Material (ACM) for Package CW2 in consultation with PIG environment specialist and PIC design team *for detail refer to Table 11 and also refer Annexure 8, Part (B)* Contractor responsibility in managing Asbestos Containing Material (ACM).
34. On 22nd March 2023, a safeguard meeting was organised by ABD to discuss the Environment Safeguards Issues and the way forward. Ms. Ninette, Senior Environment Specialist, ADB, chaired the meeting. The other experts who participated in the meeting were Carmen and Mr. Ajmera from ADB, Mr. Sujit Kumar Singh, Mr. Dinesh and Mr. Madhusudan from PIC. During the meeting, ADB discussed the concerns and action points to ensure compliance and stressed on strengthening reporting. After discussion, IES prepared the meeting minutes and shared with ADB.
35. During the reporting period, PIG and PIC jointly conducted four site inspection of Package CW4 (January, April, May and June 2023). *For detail refer to Table 8 and Table 12: Summary of Monitoring Outcome*
36. On World Environment Day (June 5 2023), International Environment Specialist organized training cum discussion at the PIG office pin Dushanbe on the following thematic areas.
    (a) Environment Safeguard Compliance
    (b) Open discussion on "Management of Canal De-silting Material"
    Around 23 PIG and PIC officials participated and were trained on ADB safeguard compliance requirements, including provisions stipulated in PAM and IEE. The objective of conducting open, participatory discussion was to seek opinions on how best the project could manage the canal's de-silted material from safeguard perspective. The participants came out with good ideas, such as options of filling low-lying areas close to a canal or potentially using them for filling gullies locally etc. *For participant's details, refer to Annexure 5.*
37. On May 20, 2023, an exclusive training was organized for Jamoats of three districts in which project to be implement. The topic of training was **"Grievance redress mechanism"**. The 9 heads of Jamoats participated in the training from three districts. The objectives of the GRM consultation was to inform Jamoats about GRM and, secondly, to outreach and aware general mass on GRM through Jamoats. After an introductory session, detailed training was given, such as the importance of GRM, how it will benefit the people and government, a book of complaints and suggestions etc. *For detail, refer to Annexure 4. List of GRM training participants*.
38. On May 16-17, 2023, a working group meeting was conducted with the District Government Agencies representatives of Yovon, A. Chomi and Khuroson District. Mr. Romiz Gafurov, Environment Specialist of PIG and Mr. Alihon Latifi, Environment Specialist of PIC participated in the working group. Within the framework of the meeting, a training program was organised on "Importance of Environmental and Social Aspects". This training was attended by representatives of state bodies (15 participants from Yovon, 18 participants

in Jomi district & 5 participants in Khuroson). *For detail on list of participants, refer to Annexure 3.*

Picture: explaining GRM to head of Jamoats






39. During the reporting period, a Completion Report of Package CW4 has been prepared and submitted to PIG.
40. During the reporting period, PIC in consultation PIG prepared a Semi-Annual Environment Monitoring report from January to June 2023. Further, PIG in consultation with PIC prepared EHS Travel Plan for undertaking surveys and field Investigations, for detail, refer to Annexure 7.

2.4 Description of Any Changes to Project Design

41. No changes have been made to the design of the project during the reporting period

III. ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

42. Of the total five packages, **package CW4 has been completed during the reporting period from January to June 2023**. The implementation of Package CW4 involves the rehabilitation and construction of two offices of PIG;
    (a) Reconstruction of the existing building in Yovon district
    (b) Construction of New PIG office in Khuroson district.

43. The construction of both office buildings has been a part of the implementation of the Project titled "Climate and Disaster Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin". The CW4 package is located in two districts, as follows;

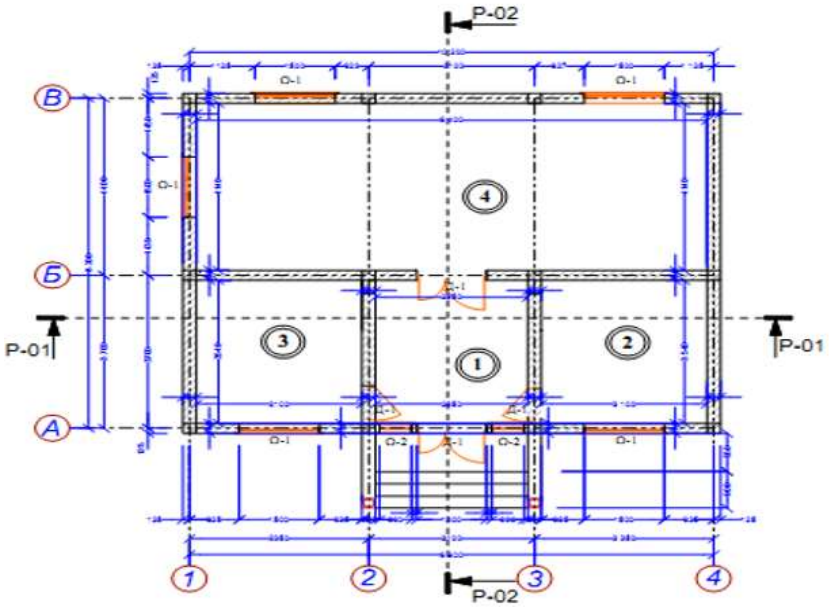
(a) **Construction of a new building for PIG office** – situated in Khatlon region, Khuroson district, v/s Galaabad , Sabzazor village, Rassvet pumping station 6. (38.057196 latitude; 68.641016 longitude), See Figure 6, Comparative view of the PIG office building before and after construction.

Figure 6. Comparative view of the PIG office building before and after construction in the Khuroson district



2022 2023

Figure 7: Drawing of construction of PIO office building in Khuroson district



(b) Reconstruction of the existing building for the PIG office – situated in Khatlon region, Yovon district, Yovon city, Mirzoev street . 4/1, the building of the State Department of Land Reclamation and Irrigation (latitude 38.294984;

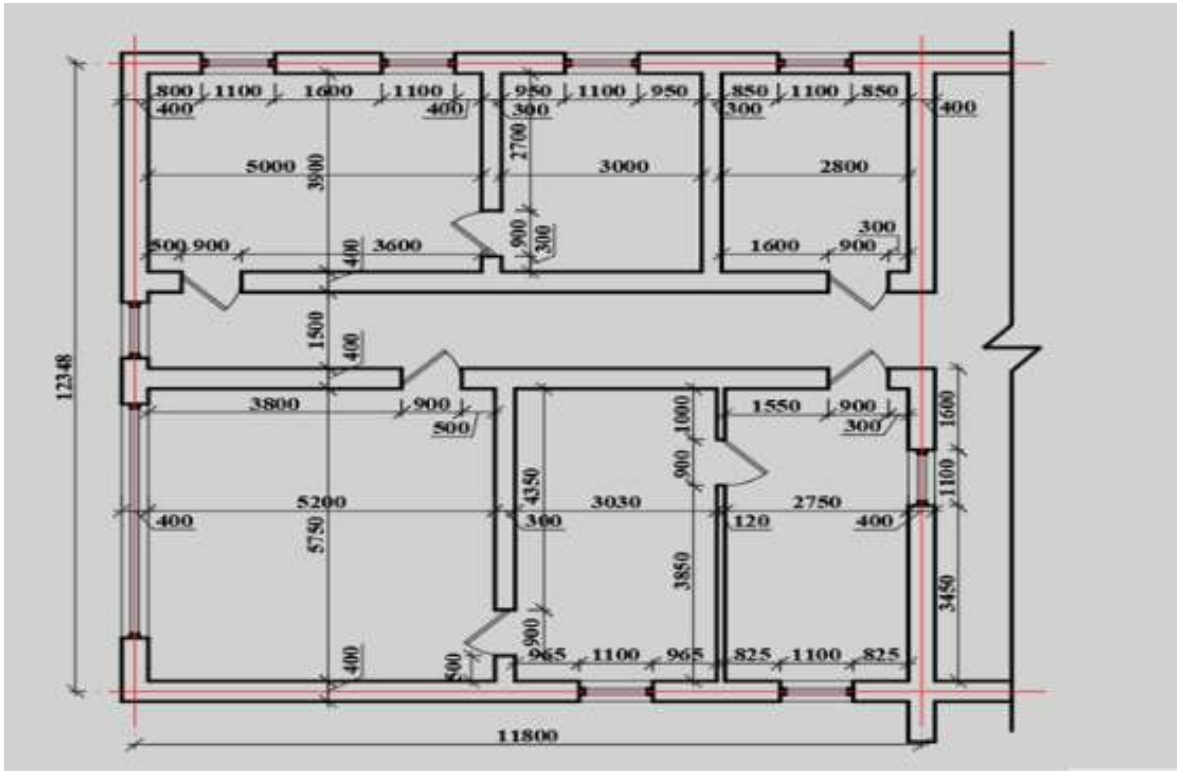
longitude 69.045294), see Figure 8, Comparative view of the PIG office building before and after construction.

Figure 8: Comparative view of the PIG office building before and after construction in Yovon district



2022 2023

Figure 9: Drawing of PIO office in Yovon to be rehabilitated



44. At both project sites, there were no forests, critical or natural habitats, and indigenous people were present. Based on the observation, the air quality in the project area was generally acceptable due to the rural situation, minimal traffic and lack of industrial sources of pollutants

45. **Environmental and Social Impacts of Package CW4-** The environmental impacts of construction of office buildings in Package CW4 were small, very limited and temporary in nature. For detail, refer to Table 3

Table 6: Summary of Environmental impacts due to Physical intervention in Package CW4

Title	Lot	Physical intervention	Environmental and social impacts
CW4	Rehabilitation of PIG office buildings in the Yovon district	Rehabilitation of office buildings includes construction works such as renovation of existing premises, plastering, tiling, woodwork, interior painting, electrical wiring, etc.	• Small site, localised environmental and social impacts • No land acquisition and no impacts on the immediate surroundings due to construction activities; • Health and safety impacts were confined and restricted to the work site. • No requirement for labour camps during construction, • Limited construction material requirement, hence, a need for heavy transportation was limited and caused minimal public inconvenience. • Limited solid waste generation, such as construction and demolition waste, empty cement bags, wood scraps and tiles. • No Asbestos containing materials were found.
	Construction of the new office building of PIG in the Khuroson district	Construction of office buildings includes civil works like concreting, laying, plastering, tiling, wood works, exterior and interior painting, electrical wiring, etc. Drawing of the Khuroson PIG office See. Figure 3,4.	-do-

46. The table below enumerates a detailed chronology of Package CW4. During the construction of CW4, there was no change in the design and agreed construction methods.

Table 7: Chronology of Package CW4

Activities	Date	
	Rehabilitation of the PIG office in Yovon	Construction of PIG office in Khuroson
ADB grant signed	31.12.2021	
IEE reported prepared	August 2021	
Environment approval	Committee for Environmental Protection (CEP) of the Republic of Tajikistan. (Letter No. 118-15, dated 28 January 2022) approved the application and granted Environmental Clearance for the entire Project	
PIG submitted design	1.09.2022	1.09.2022
PIG approved	5.09.2022	5.09.2022

Approval from the design centre	N/A	N/A
Tender for the Project	16.09.2022	16.09.2022
Contractor signed the contract	18.10.2022	18.10.2022
SSEMP submitted	25.10.2022	15.11.2022
SSEMP approved	30.10.2022	30.10.2022
Name of contractor	JSC «Tojmekhanizm»	JSC «Tojmekhanizm»
Construction started	15.11.2022	15.11.2022
Number of site inspections conducted during the construction period	6 (this also includes reconnaissance survey and completion audit)	6
Requirement of labour camp	No.The number of workers was usually 6 to 9, and were local.	No.The number of workers was usually 6 to 9, and were local.
Number of training conducted	1 comprehensive training in December 2022 + 3 site induction/safety discussion in each site visit)	1 comprehensive training in December 2022 + 3 site induction/safety discussion in each site visit)
Restoration of site	Done	Done
Completion certificate issued	In process	In process

3.2 Site Audit

47. **Package CW4 - Status of Routine Site Inspections -** The national and international environmental specialists conducted six site inspections during construction of Package CW4; during the reporting period from January to June, total four inspections were carried out *see table 8*. The objective of SSEMP was to ensure (a) compliance with environmental laws and regulations (b) monitor the effectiveness of implemented mitigation measures (d) ensure safe and accident-free working conditions (e) taking necessary measures when unforeseen impacts occur**,**

Table 8: Status of Site Inspection

Inspections	**Date of inspection**	**Team composition**	**Remarks**
Reconnaissance Survey	30th November 2022	Sujit Kumar Singh Romiz Gafurov Alikhon Latifi	To understand potential Environmental and Social issues and get familiarity with the project site
Site inspection	14th December 2022	Sujit Kumar Singh Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	24th January 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	6th April 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	4th May 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	6th June 2023	Sujit Kumar Singh Romiz Gafurov	Verification of completion of both PIC

48. **Site Inspection Summary -** The summary of the site inspections is described under three headings

(a) Good practice noted during the inspection

(b) Impacts of Site Inspection
(c) Lesson learned from Package CW4, *for detail, refer to section 4.4*;

(A) Good practice noted during the inspection at PIG office in Yovon

(a) Practice kitchen waste segregation during the construction of PIG office in Yovon – use two dustbins to segregate dry and wet waste. The wet waste was used for cattle feed, and dry waste was sold to a recycler.
(b) Designated place for construction materials, and stored outside the building,
(c) Site has a bathroom facility for bathing, both hot and cold available for workers.
(d) Installed two fire extinguishers.
(e) Onsite handwashing facility for worker for hand hygiene
(f) Site has a separate kitchen with dining space for workers.
(g) Overall, housekeeping was satisfactory
(h) Provision for septic tanks for wastewater treatment

49. **Impacts of Site Inspection at PIG office in Yovon**

(a) A separate toilet facility was available for men and women, but no signage; further, hygiene was also below satisfactory. After intervention by safeguard specialists, sanitation improved, and male & female signage was put on both toilets (see picture)

(b) During a site inspection, the inspecting team noted that the plywood/tiles cutting was noisy and dusty, and none of the workers wore masks and using earplugs. After intervention by safeguard specialists, in a follow-up inspection, workers shifted the entire cutting operation to the open and started using masks to avoid inhaling cutting dust;

(c) Initially, the First aid box was absent; after intervention by safeguard specialists, the contractor arranged a first aid box

(d) During the initial stage of project construction, it was noted that most workers were not wearing helmets. Considering the seriousness of the issue, a safety talk was conducted onsite for the worker, since then, workers have started wearing helmets and using body harnesses while working at height;

(e) Initially, workers were not provided with standard safety shoes and appropriate helmets (helmets without head strips). After intervention by safeguard specialists, the contractor replaced the boots and helmet;

(f) For working at height, safety belts were available for workers; however, workers were not in the habit of wearing a safety belt; after our onsite safety talk, workers started wearing safety belts;

(i) Initially safety manual was unavailable at the site; after intervention by safeguard specialists, the contractor put a safety manual.
(j) Initially, the site did not maintain a labour grievance register; after intervention by safeguard specialists, the contractor put a GRM register

(h) Except for minor cuts or injuries, no life-threatening injuries happened, such as falls from height, severe cuts, fractures, head injuries, lacerations, and electrical shock

50. **Summary of Non-compliance and rectification during PIG office construction at Khuroson district -** The summary of site inspection as well as corrective action taken by contractor, are summarised below;

(a) Some delay was noted in SSEMP implementation at PIG office in the Khuroson district

(b) Initially, no resting room was available at the site; after intervention by safeguard specialists, resting space was created for workers, including arrangement of hot plate for heating food and tea making.

(c) After intervention by safeguard specialists, contractor provided (i) first aid box (ii) Fire extinguisher (iii) Gumboot to a worker engaged in concrete work.

(d) An onsite toilet was unavailable throughout the construction period; workers were using a toilet constructed by the brick industry situated 20 meters away from the site.

51. During each site inspection, a regular short safety instructions training /safeguards talks were conducted by PIG/PIC safeguard specialist in Yovon and Khuroson districts. The primary purpose of the short training was to improve site safety and create awareness among workers on (a) Environmental good practices (b) Reduce workplace hazards

52. **Impact of training**

(a) Contractor replaced non-striped helmet with a standard helmet

(b) Standard hard safety shoes were provided to the workers

(c) Workers agreed to use safety belts while working height; the same has been confirmed in follow up inspection.

(d) Housekeeping was improved at both site

International & PIG Environmental Specialist imparting training to workers





3.3 Issues Tracking (Based on Non-Conformance Notices)

53. During reporting period from January to June 2023, PMC and PIG could not find any major non-compliance which includes (a) violation of law of the land (b) people protest on of environmental and social performance (d) accident or fatality. Nevertheless, some minor non-compliance were noted during site

inspections and time bound corrective actions were recommended to the contractor, *for detail, refer to section 3.2 Site Audit and also refer Table 13: Summary of Monitoring Outcome*

3.4. Trends

54. Regarding environmental performance at Package CW4, the trends has been rather positive both in environmental and safety performance. *for detail, refer to section 3.2 Site Audit and also refer Table 13: Summary of Monitoring Outcome*

3.5. Unanticipated Environmental Impacts or Risks

55. As mentioned above, till reporting period (January to June 2023), only Package CW4 has been completed, the Package CW2 likely to tendered soon, whereas Package CW1, CW3, and CW5 are in different stage of development, for detail, refer to section 3.2 Site Audit and also refer Table 13: Summary of Monitoring Outcome. Hence, it is difficult to highlight unanticipated environmental impacts or risks at this stage. However, based on experience from similar projects in Central Asia, there may be a possibility of encountering few risks in future related to environmental safeguards, such as (a) trees cutting, (b) people's annoyance due to improper disposal of canal de-silted material (c) public protect on account of environmental and social issues (d) Increase in traffic may trigger road safety concerns and air pollution and so on;

56. The activities during the pre-construction stage play an important role to avoid and minimize unanticipated environmental risks during the modernisation/upgradation/ construction of irrigation and drainage system. In this regard, PIG/PIC, constantly taking safeguard measures to avoid such unanticipated risks by (a) incorporating EMP conditions in the design/bid document, (b) time to time informing contractor to obtain necessary statutory permission and clearance under different statutes including monthly site inspections feedbacks; (c) evaluating potential climate change impacts and inclusion of adaptation measures in the design; (d) ensuring smooth function of grievance redress mechanism; (e) timely conducting stakeholder consultations and improving Information Dissemination (ID) plan. Further, PIG also considering and making sure that the required costs for safeguards are properly addressed in each Package bid document; for instance, while preparing safeguard bid documents for Package CW2, the PIG/PIC considers all measures, right from embedding safeguard cost to providing instruction guidelines for preparing effective SSEMP in the bid document.

3.6. Status of Compliance with Covenants

57. The status of compliance with environmental safeguards related to Project's Covenants signed between Republic of Tajikistan and ADB on 31 December 2021 , Table 9 enumerates compliance status with grant covenants.

Table: 9 Status of Compliance with Covenants

Schedule	Paragraph	Covenant	Compliance Status
3	3	The Recipient shall not, and shall ensure that the Project Executing Agency and Project Implementing Agency do not award any Works contract which involves environmental impacts until: a) the relevant environment authority of the Recipient has granted the final approval of the IEE;	[**Complied]** The Committee for Environmental Protection approved and granted Environmental clearance on 28th January 2021 (letter No. 118-15), refer to Annexure 1
3	3	a) ACM in the existing irrigation and drainage system are identified and recorded in an asbestos investigation report, the exact ACM volume is determined, and the AMP is updated; and	**[Not applicable in Package CW4]** No Asbestos Containing Material (ACM) was found in Package CW4
3	3	a) The relevant provisions from the EMP and the AMP have been incorporated into the Works contract.	**[Complied]** In align with EMP, the contractor has prepared Site Specific Environment Management Plan (SSMP) for Package CW4.
3	5	5. The Recipient will ensure or oblige the Project Executing Agency and the Project Implementing Agency to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Recipient relating to the environment, health and safety; (b) environmental safeguards; and (c) all measures and requirements set out in the IEE, including the EMP and ACMMP that have been prepared in accordance with the SPS and any corrective or preventive actions set out in the Safeguard Monitoring Report	**[Complied]** During the reporting period from January to June 2023, construction of PIG office under Package CW4 was in progress. Package CW4 has complied with all applicable laws related to environment, health and safety of the Republic of Tajikistan.
3	9	9. The Recipient will provide or oblige the Project Executing Agency and the Project Implementing Agency to provide the necessary budgetary and human resources for the full implementation of the EMP, ACMMP and RP	**[Being Complied]** During the reporting period, except for Package CW4, civil intervention in the other four Packages is yet to initiate. Package CW4 has complied with all applicable laws related to environment, health and safety of the Republic of Tajikistan. Further, three Environment safeguards experts have been appointed by the

Schedule	Paragraph	Covenant	Compliance Status
			Project Executing Agency, including one International Environment Specialist to ensure compliance. A recent safeguard bid document prepared for Package CW2 had addressed the budget for human resource and cost of implementation of environmental and social safeguards measures including ACMMP as specified in EMP. Will ensure compliance and do regulator reporting in Semi-Annual Environmental Monitoring Report (SAEMR).
3	10	a) comply with the measures and requirements related to the contractor set out in the IEE, EMP, ACMMP and RP (to the extent that they relate to the impact on the affected population during construction), as well as any corrective or preventive actions set out in the report on monitoring of protective measures; b) allocate a budget for all such environmental and social measures; c) provide the Project Executing Agency and the Project Implementing Agency with written notice of any unforeseen risks or impacts on the environment, resettlement or Indigenous Peoples arising from the construction, implementation or operation of the project that have not been addressed in the IEE, EMP, ACMMP or RP; d) adequately record the condition of roads, farmland and other infrastructure prior to material transport and construction; And (e) fully restore roads, other local infrastructure and agricultural land to at least pre-Project condition after construction is completed.	**[Being Complied]** For this reporting period; requirements for environmental safeguards are being met in accordance with the IEE, and EMP; however, ACMMP and RP have not been triggered in Package CW4; A recent safeguard bid document prepared for Package CW2 had addressed the budget for human resource and cost of implementing environmental and social safeguards measures including ACMMP as specified in EMP. In Package CW4, no unforeseen risks or impacts on the environment, resettlement, or Indigenous Peoples have been triggered during reporting period.
3	11	(a) submit to ADB semi-annual safeguard monitoring reports prior to the publication of ADB's project completion report and disclose relevant information from such reports to affected persons promptly upon	**[Complied]** This report is the second semi-annual Environment monitoring is being submitted to

Schedule	Paragraph	Covenant	Compliance Status
		receipt; b) if any unforeseen environmental and/or social risks and impacts arise during the construction, implementation or operation of the Project that have not been taken into account in the IEE, EMP, ACMMP or RP, immediately inform ADB of the occurrence of such risks or impacts with a detailed description of the cases and a proposed corrective action plan; And c) Report any actual or potential breach of compliance with the measures and requirements set out in the EMP, ACMMP or RP promptly upon becoming aware of the breach.	ADB In Package CW4, no unforeseen risks or impacts on the environment, or presence of Asbestos containing material resettlement, or Indigenous peoples have been triggered during the reporting period. Except for some minor site issues such as helmet quality, housekeeping, and use of PPEs by the worker. The contractor has taken corrective action to ensure compliance. Both sites that fall in Package CW4 were compliant during the reporting period. In Package CW4, there was no reporting of potential breach of laws or ADB SPS safeguard conditions.
3	12	The Recipient will cause or cause the Project Executing Agency and the Project Implementing Agency to ensure that no proceeds from the Grant are used to finance any activity included in the list of prohibited investment activities contained in Appendix 5 to the SPS.	**[Complied]** All grant funds are used for their intended purpose
3	13	The Recipient shall ensure or oblige the Project Executing Agency and the Project Implementing Agency to ensure that basic labor standards and applicable laws and regulations of the Recipient are observed during project implementation. The Recipient shall include or cause the Project Executing Agency and the Project Implementing Agency to include specific provisions in bidding documents and contracts financed by ADB under the Project requiring contractors, among other things: (a) to comply with applicable labor laws and regulations of the Recipient and take into account the current safety standards in the workplace; (b) did not use child labor; (c) do not discriminate against workers in respect of employment and occupation; (d) did not use forced labor; (e) allow freedom of speech and effectively recognize the right to collective bargaining; [and (f) disseminate or	**[Being Complied]** During the reporting period, ALRI and PIG have not received any complaints or breach of national laws and violation of ADB SPS safeguard conditions

Schedule	Paragraph	Covenant	Compliance Status
		engage appropriate service providers to disseminate information about the risks of sexually transmitted diseases, including HIV/AIDS, to contractor workers employed by the Project and members of local communities living around the Project area, especially women.	

Status of compliance with the Project EMP for pre-construction and construction (CW4) periods attached to IEE is summarized in Tables 10 and 11.

Tables 10. Status of compliance with the Project EMP

Subject	EMP Requirement	Compliance Attained	Comment on Reasons for Partial or Non-Compliance	Required Action and Target Dates to Achieve Compliance
Climate change adaptation	1. Ensure all sand stabilization and erosion protection measures such as bunds, planting, watering, establishing and maintaining vegetation are incorporated in design and are implemented. 2. Ensure ancillary structures are built to withstand additional snow loads and drains can accommodate additional rainfall.	EMP requirements 1and 2 are not applicable in Package CW4	Not applicable	Not applicable
Detailed Design	3. Ensure nature-based solution is reflected on the detailed design, to stabilize and reclaim major gullies and buffer area.	EMP requirement 3 is not applicable in Package CW4	Not applicable	Not applicable
Asbestos Investigation Report (AIR)	4. Conduct asbestos investigation and prepare an AIR. 5. Analysis of samples by accredited laboratory. 6. Include findings in updated AMP.	EMP requirements 4, 5 and 6 are not applicable in Package CW4	Not applicable	Not applicable
Asbestos Management Plan (AMP)	7. Identify a suitable waste management facility for asbestos disposal in consultation with the CEP. 8. Conduct asbestos awareness for ALRI / PIG / PIC by reputable IES	EMP requirements 7, 8, 9 and 10 are not applicable in Package CW4	Not applicable	Not applicable

	9. Promulgate updated AMP 10. Incorporate AMP in EMP in contract specification			
Bidding, contracting	11. In the event that any design details change the locations or scope of the proposed Project works, and unanticipated environmental impacts become apparent, this IEE and EMP will be reviewed, revised/updated accordingly. The revised/updated IEE/EMP will be cleared by ADB prior to the civil works commencement. 12. Include EMP (including updated AMP) in bidding document and contracts with, PIC, contractors, engineering supervisors and environmental monitoring consultant. 13. Include EMMP in contracts.	No change in design and scope of work, no unanticipated environmental impacts in CW4, hence, no need for EMP update EMP was included in the bidding document of CW4.	Complied	No action required
Staffing and budgeting for EMP	14. At least one month before construction commences the contractors and operators will demonstrate to the PIG, they are properly resourced and a qualified/experienced ESO, HSO, TAS, TAWs and CLO with appropriate experience will be identified by the contractors in bid.	Among five Packages (CW2, CW3, CW1 and CW5), the CW4 is the smallest one. The implementation of Package CW4 involves the rehabilitation and construction of two offices of PIG; (a) Reconstruction of the existing building in Yovon district (b) Construction of New PIG office in Khuroson district. Both sites in Package CW4 were small, and the nature of construction was not air and water polluting or triggered public inconveniences, such as road safety, traffic congestion, etc. Among their staff, the contractor had appointed experienced EHS personnel to oversee both	Complied	No action required

		sites.		
EMP training of contractors, engineers, workers and foremen on EMP	15. Contractors informed of all environmental safeguard requirements in EMP at bid stage and trained how to implement mitigation measures (in EMP and AMP) and monitor and use of checklists as part of awareness and mobilization training; and assistance with SSEMP. 16. The contractor will identify a CLO to be the liaison with the local village authority and PIG as well as between the contractor and PIG; 17. At all times workers will respect landowner's boundaries; 18. Contractor informed to ensure that workers' actions outside work site are controlled and local village codes and rules of conduct are observed at all times; 19. Worker camp (if required) operations not to cause nuisances to local village and facilities will be located at least 500m (as far as possible) from settlements and agreed with local communities and approved by PIG and managed to minimize impacts; 20. Contractor informed to hire and train as many local workers as possible by using labor from each village as the work proceeds. 21. Adequate signage and security provided at the site offices and works yard and prevention of unauthorized people (especially children) entering the working areas; 22. Hire and train as many local workers as possible by using local labor;	Considering the contractor's capacity, PIG/PIC jointly conducted several training programs on environment, health and safety during the reporting period; refer to table for details. Further, to motivate workers on PPEs usage - PIG/PIC conducted short safety talks during each site inspection. EMP requirements no 17, 18, and 19 are not applicable in Package CW4 Workers engaged by the contractor were locals. They come in the morning and go back home in the evening. Hence, the requirement of labour camp was not applicable. At both project sites**,** unauthorized entry was prohibited.	Complied	No action required
Contractor's SSEMP prepared Awareness and orientation of	23. Following induction training provided by the IES, NES, PIG-ES and PIC, the construction contractor will prepare SSEMP detailing how they propose to implement the	Contractor submitted the SSEMP on 25th October 2022, which was reviewed and	Complied	No action required

Contractor	construction works and operations and comply with the EMP. The SSEMP will include the contractors proposed actions to cover: (i) summary of construction impacts and mitigation; (ii) water supply for construction; (iii) connections to drainage, waste water arising (if any) and recycling and reuse of wastewater; (iv) inclusion of the requirements of the updated AMP stating the proposals for removal, handling, transportation and disposal of ACM as a minimum in line with this IEE; (v) solid waste management and disposal – including ACM and hazardous waste; (vi) noise, dust and odor suppression; (vii) utilities, power and telecommunications reprovisioning and commissioning (if necessary); (viii) temporary and permanent surface drainage; (ix) construction materials management; (x) excavation and rehabilitation of land including shoring plan; (xi) traffic management; (xii) worker and public safety including coronavirus diseases (COVID-19) health and safety management plan and emergency response plan; (xiii) vegetation removal, site cleanup and revegetation / amenity planting for amenity and bioengineering for erosion control; (xiv) construction camp management plan; and (xv) communications plan. The communications plan will indicate how the Contractor will interact and inform the community in advance of planned works and mitigation measures specified in the EMP (such as using a Community Liaison Officer.	approved by PIG Environmental Specialist on 30 October 2022. As the project site was small and impacts were minimal, the scope of SSEMP primarily covers safe working conditions, aspects of occupational health and safety, control of air and noise, constructions and other wastes and grievance redressal.		
PIG Check on legitimacy of material sources	24. PIG checks legitimacy of material supplies proposed by Contractor in the SSEMP	As the site was small, the contractor sourced raw material such as cement,	Complied	No action required

		sand, tiles, plywood, electrical appliances from the authorised local vendor		
Surveying and demarcation	25. Vegetation clearance will be minimized and replanting for erosion control will be encouraged / required; 26. The contractor /operator will be responsible for providing adequate knowledge to construction /operations workers in relation to existing laws and regulations regarding environmental requirements. 27. Construction / operations workers will be informed about general environmental protection and the need to avoid un-necessary environmental pollution and how to follow the environmental requirements.	During the construction of both building, no tress cutting was involved. The contractor has not informed workers about general environmental protection and the need to avoid un-necessary environmental pollution and how to follow the environmental requirements	Initially, both sites were partly complied. After intervention during follow-up inspection**,** the sites were found compliant.	Considering the contractor capacity, PIG/PIC conducted several short training and safety talks on environment and safety during follow-up inspections
Site clearance an excavations	28. Site agents will be instructed to keep a watching brief for relics / physical cultural resources in excavations. 29. Should any potential items be located, the PIG will immediately be contacted, and work will be temporarily stopped in that area. 30. The PIG / ALRI will determine if that item is of potential significance with the assistance of the local authorities and to pass the information to the relevant department in GOT who will be invited to inspect the site and work will be stopped to allow time for inspection.	No such archaeological or historical or cultural resources identified during the construction of Package CW4	Complied	No action required
Preparation for good health and safety procedures	31. Predictable wastewater effluent discharges from construction and operational activities will have the necessary permits from PIG, CEP and local authorities before the works commence; 32. Provision of adequate protection to the general public in the vicinity of the site, including advance notice of commencement	Except for domestic sewage, no other source of wastewater. At both sites, toilets have septic tanks. No information dissemination to the general public in the vicinity of the site or advance notice of commencement of	Complied Initially both site was partly complied. After intervention by safeguard specialist	For public outreach, PIG in consultation with PIC decided to conduct a meeting with Jamoats of three district and inform about the project, GRM and also organized training program to Jamoats of

	of works, installing safety barriers and signage or marking of the work areas;	works, installing safety barriers and signage or marking of the work areas. In Package CW4, both sites did not require significant construction material, including deployment of heavy construction equipment. Transportation of materials was less; therefore, there were no considerable dust emissions during the civil work, hence, public inconvenience, road safety, and traffic congestion were not a concern	during the follow-up inspection**,** the sites were found compliant.	three districts in which construction work being carried out. For more detail, refer to Semi-Annual Environment Monitoring report
Preparations to protect health of community	33. Construction camp(s) will be established in areas with adequate drainage in order to prevent formation of breeding sites for mosquitoes; 34. Implement HIV/AIDS/STIs awareness and prevention for the contractor's workers and adjacent communities; 35. Construction camp(s) will be established in areas with adequate drainage in order to prevent water logging at the camp and formation of breeding sites for mosquitoes in order to facilitate flow of the treated effluents; 36. Implementation of HIV/AIDS awareness and prevention program – community (villages).	EMP requirements 33, 35 and 36 are not applicable in Package CW4 The requirement of labour camp was not required. The contractor engaged 7 to 9 local workers at the respective site. During training session on 14th December 2022, the site workers were sensitised on HIV/AIDS.	Complied	HIV/AIDS awareness and prevention program at community level was not conducted in Package CW4; this is among the smallest package with respect to CW2, CW3, CW5 and CW1. Further, the Community interface was minimal in Package CW4.
Preparations for COVID-19 protocol to protect workers and health of community	37. Prepare and implement COVID-19 health and safety management plan and emergency response plan as part of the SSEMP. 38. The Client, engineers and contractor are required to form a covid-19 prevention task force.	Restriction on COVID -19 was lifted by Government of Tajikistan during the reporting period	Complied	In spite of lifting COVID -19 guideline by the government, PIG/PIC environment specialist conducted training on COVID-19 prevention measures during training

	39. Covid-19 prevention task force is responsible for socialization, education and COVID-19 prevention during the project implementation. 40. Install posters about the appeal or advice to prevent COVID-19, such as washing hands, wearing mask, installed in strategic places on the project site. 41. The task force together with medical staff must discuss, advise, campaign on COVID-19 prevention techniques in every socialization activity and morning counselling activity. 42. Medical personnel check every worker's temperature morning and evening. Prohibits someone who is sick with a temperature indication of ≥38 degrees Celsius came to the project site. 43. Assess workforce characteristics by identify the vulnerable group of COVID-19 including elderly people and those with underlying health issues. 44. Conducting virtual meeting if necessary and implementing physical distancing for direct meetings and field works. 45. Provision of PPE to prevent COVID-19, Make wearing a mask a normal part of being around other people. 46. Maintain physical distancing at least a 1-metre distance from each other to reduce risk of infection when cough, sneeze or speak. Maintain social distancing by decreasing the size of work teams and limiting the number of workers not more than 10 persons on site at any one time. 47. Continuing with the usual environmental and social management trainings, adding self-hygiene and COVID-19 related training as appropriate.			conducted on 14th December 2022.

	48. Assess the extent to which work schedule needs to be adjusted (or stopped) to reflect prudent work practices, potential exposure of both workers and the community and availability of supplies, taking into account Government advice and instruction. 49. If found workers or employees in the project field who are exposed to COVID-19, the task force will immediately contact the GOT covid-19 prevention task force to carry out emergency evacuation to the exposed worker and the group s/he was working with for further treatment. The task force is then conduct spraying disinfectants on sites, facilities, handles, work equipment in the exposure location. The listed workers will not be allowed to remobilize to the site without proven free Covid-19 health certificate. 50. The community will make aware of all measure being implemented to limit contact between workers and the community, procedure for entry/exit to the site, the training being given to workers and the procedures that will be followed by the project if a worker become sick.			

Table 11. Status of compliance with EMP during Construction of Package CW4

Subject	EMP Requirement	Compliance Attained	Comment on Reasons for Partial or Non-Compliance	Required Action and Target Dates to Achieve Compliance
Establishment of construction camp, mobilization of contractor, presence of construction workers, associations with local people	51. Covered under Preconstruction Phase above. 52. Construction camp management plan will be prepared in reference to World Bank Group's Workers' Accommodation: Processes and	EMP requirements no 52, 53, 54, 55, 56, and 57, are not applicable in Package CW4	Not applicable	Not applicable

	Standards,[1] as part of SSEMP and implemented. 53. Village protocols discussed with workers as part of awareness and mobilization training; 54. The contractor / operator is to ensure that workers' actions outside the Project site are controlled and Village codes and rules of conduct are observed at all times; 55. The contractor will identify a CLO; 56. Worker camp location and facilities will be located as far as possible and at least 500m from settlements and agreed with local communities and facilities approved by PIG / PIC and managed to minimize impacts; 57. Adequate signage and security provided at the site offices and works yard and prevention of unauthorized people (especially children) entering the working areas; 58. Hire and train as many local workers as possible by using labor from local village as the work proceeds;	Note: The contractor has hired local trained workers from the local villages. **At both project site,** unauthorized entry was prohibited including children	Compiled	No action required
	59. Provide adequate housing for all workers at the construction camps and operator factories and establish clean canteen/eating and cooking areas; 60. Construction camp(s) will be established in areas with adequate drainage and be connected to the local foul water disposal system or, if	EMP requirements 59, 60, 61, 62, 67,68, and 69, are not applicable in Package CW4 Yovon site - A separate toilet facility was available for men and women, but no signage board; further,	Not applicable	Not applicable Improve toilet hygiene at Yovon site and put

[1] A guidance note by IFC and the EBRD Workers' Accommodation: Processes and Standards (ifc.org) (August 2009)

	such system is not available, septic tank (to be provided by the contractor) to facilitate disposal of effluents; 61. Wastewater effluent from contractors' workshops and equipment washing yards will be passed through gravel/sand beds and all oil/grease contaminants will be removed before discharging it into the environment. Oil and grease residues will be stored in drums awaiting disposal in line with the agreed waste management section of the EMP; 62. Predictable wastewater effluent discharges from construction and operational activities will have the necessary permits from PIG, CEP and local authorities before the works commence; 63. Potable water, clean water for showers, hygienic sanitation facilities/toilets with sufficient water supply, worker canteen/rest area and first aid facilities will be provided. Separate toilets will be provided for male and female workers; 64. Drinking water and clean water for showers, hygienic sanitation facilities/toilets with sufficient water supply, worker canteen/rest area and first aid facilities will be provided. Separate toilets and washrooms will be provided for male and female workers; 65. Portable lavatories (or at least pit latrines in remote areas) will be installed as temporary measure	hygiene was also below satisfactory initially. However, after intervention during follow-up inspection**, the sites were found compliant.** PIG office in Khuroson district. - An onsite toilet was not available; however, workers were using a toilet constructed by the brick industry situated 20 meters away from the site. The contractor reported that he has made an arranged to use the brick industry toilet for its worker.	Complied	signage on male and female toilets

	where necessary and open defecation will be prohibited and use of lavatories encouraged by cleaning lavatories daily and by keeping lavatory facilities clean at all times; 66. Solid and liquid wastes will be managed in line with the provisions of the waste management section of the EMP and subsequently SSEMP; 67. Provision of safe access across the works site (particularly during any excavations) to people whose village and access are temporarily affected during construction works; 68. Land used for campsites will be restored to the original condition as far as practicable and the area will be planted with appropriate grasses / shrubs as soon as practicable after it is vacated and cleaned; and 69. Work and camp sites will be cleaned up to the satisfaction of and PIG / PIC and local authority after use. 70. At all times workers will respect village and landowner's boundaries and recognize and follow village rules and terms of conduct, including those addressing women and elders.			

Construction plant and vehicles generating emissions	71. Construction and operational equipment being maintained to a good standard. The equipment will be checked at regular intervals to ensure they are maintained in working order and the checks will be recorded by the contractor / operator as part of environmental monitoring; 72. Prohibition of use of equipment and machinery that causes excessive pollution (i.e. visible smoke) at the project site; 73. Ensuring that all vehicles transporting potentially dust-producing material through built up areas are not overloaded, are provided with adequate tailboards and sideboards, and are adequately covered with a tarpaulin (covering the entire load and secured at the front, sides and tail of the vehicle) during transportation. This is especially important if the transportation will travel through adjacent villages nearby; and 74. Qualitative air quality monitoring by observation and quantitative air quality monitoring (PM10 and PM2.5) in response to complaints or as required by environmental authorities.[2]	As both sites were small, contractor was using basic construction equipment, it was found properly maintained in each site inspection EMP requirements no 72, and 73, are not applicable in Package CW4 In Package CW4, both sites did not require significant construction material, including deployment of heavy construction equipment. Transportation of materials was less; therefore, there were no considerable dust emissions during the civil work. Further, during each site inspections, air quality at workplace and surrounding areas was found compliant (visual inspection) Note: Instrumental measurements such as monitoring of water quality, air quality, and noise parameters were not included in the SSEMP for the construction of PIG office building in the Yavan and Khuroson district	Complied Not applicable Complied	No action required No action required No action required
Operation of construction plant and equipment creating noise	75. The EMP and contract documents will require that all vehicle exhaust systems and noise generating equipment be acoustically insulated and maintained in good	EMP requirement no 75 was not considered in contract document because the site was small and transportation of construction		Not applicable

[2] Monitoring required by environmental authorities will be determined through the SEE procedure (Chapter **Error! Reference source not found.**.4.b).

	working order and that regular equipment maintenance will be undertaken to minimize noise emissions; 76. Aggregate processing, if necessary, will be undertaken at a designated site located at least 500m away from the nearest sensitive receptors. 77. The works will be scheduled to minimize the disturbance on agricultural activities as much as possible. The contractor will prepare a schedule of operations that will be approved by village chiefs and PIG / PIC. The schedule will establish the days, including identifying days on which there should be no work, and hours of work for each construction activity and identify the types of equipment to be used; 78. Workers will be provided with ear defenders as may be required; and 79. Any complaints regarding noise will be dealt with by the contractor in the first instance through the communications plan and if unresolved they will refer through the grievance redress mechanism (GRM). 80. Any complaints regarding noise will be dealt with by the contractor in the first instance and through the GRM. 81. Background and impact noise will be measured in response to	materials was very limited; therefore, PIG has not included provisions of vehicle exhaust systems and noise generating equipment be acoustically insulated and maintained in contract documents. Further, both site had no provision for power back up such as DG set. EMP requirements 76, 77, and 81 are not applicable in Package CW4 Both sites were small, nature of construction was not air, water and noise polluting or cause public nuisance, inconvenience, road safety, and traffic congestion. Further, no complaint was reported from immediate neighbourhood and workers related to noise. Noise pollution - Not significant, confined within the workplace and temporary in nature, tiles/plywood cutting was only source of noise pollution.	Not Applicable Initially site was not compliant, after intervention of PIG/PIC safeguard team, the site was found compliant in follow-up inspection	Site was found compliant in follow-up inspection

	complaints or as required by environmental authorities3 in dB(A) over 24 hours covering the relevant periods (i.e., 6h to 18h, 18h to 22h and 2h to 6h). Measurement will also be taken to establish if EHS guidelines[4] are exceeded.			
Excavations for installation of I&D facilities or foundations for installations and building works.	82. Prior to excavations, the necessary information and interaction with the local community will take place. Compensation will be paid before the works commence. 83. Prior to excavations, prepare all materials on site to complete the shoring of excavations; 84. Follow the principles for trench safety developed by the PIC for work in difficult soils and implement the shoring plan approved by the PIC and included in the SSEMP; 85. Provide shoring for deep trenches (>1.2m or greater unless the excavation is made entirely in stable rock); 86. Provide safe means of access and egress from trench excavations; 87. A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are 4 feet (1.2m) or more in depth so as to require no more than 25 feet (8m) of lateral travel for employees [If possible, the grade should be away from the excavation]; 88. PIG-ES to inspect and approve the shoring (in writing) if it is properly	EMP requirements 82 to 94 are not applicable in Package CW4	Not applicable	No action required

[3] Monitoring required by environmental authorities will be determined through the SEE procedure (Chapter **Error! Reference source not found.**.4.b).
[4] See footnote **Error! Bookmark not defined.**.

	constructed; 89. Carefully stockpile excavated materials in a location where they cannot slip or be washed back into the trench; 90. Carefully stockpile and reuse of any surplus soil or subsoil as covering or fill for other project works and planting; 91. Reuse excavated materials for backfill as far as practicable; 92. Level and compact fill materials. Prevent erosion / slippage; 93. Material stockpiles to be located in sheltered areas and to be covered with tarpaulins or other such suitable covering to prevent material becoming airborne and runoff of fine particles.			
Construction work requiring water supply	94. Prior to construction the SSEMP will include a water use and conservation plan identifying and quantifying planned water use, water reuse options and possible end uses for watering vegetation etc.; 95. Abstraction from water resources will be permitted after prior approval from PIG in consultation with local village leaders and local water authorities. 96. Contractors instructed not to waste water and PIG / PIC watch contractors ensure they do not waste water and water conservation measures are followed. 97. Design and construct to reduce the use of water flow and reduce the flow as far as practicable; 98. Create a workplace culture	EMP requirements no 95, and 97 are not applicable in Package CW4. The site at Yovon was using supply water for construction, whereas *PIG office building in Khuroson district* using canal water. At both site, contractor was instructed to consume less water, further even during training conducted on 14th December, workers were instructed to avoid water wastage and provided short training on significance of water conservation.	Not applicable Compiled	No action required No action

	(including water patrols) that focuses and takes pride in water efficiency to add a beneficial component to water conservation plan;			
Solid waste, all general activities requiring disposal of solid waste construction debris and spoil	99. Solid Waste Management Plan as part of the SSEMP to include as follows: 100. Segregation of wastes will be observed. Cleared shrubs and grasses may be composted or used as mulch. Organics (biodegradables) will be collected and disposed-off on-site by composting; 101. Reuse and recycle on site as much as possible: so that the balance needing disposal be minimized; 102. For temporary storage/piling: specify requirements e.g. distance from water bodies or settlements or other sensitive receptors, compacting ground with bund around to prevent/restrict spillage to water/farmland, etc. 103. Construction debris: is inert thus easiest to handle, can dispose of in properly selected wasteland approved by local authority or currently designated landfill site in Yovon; 104. residual general wastes or garbage will be disposed of in the local landfill disposal sites currently used for municipal wastes, approved by local authorities and PIG / PIC; 105. Burning of waste will not be allowed; 106. All areas of the Project will be provided with garbage bins which will	EMP requirements no 103 and 107 are not applicable in Package CW4 PIG office in Yovon district - Segregate kitchen waste, dry waste sold to recycler and wet waste was taken by workers for cattle feed. The construction wastes were used within the premises for ground levelling. PIG office building in Khuroson district – Initially site was not compliant in waste management, after intervention of PIG/PIC safeguard team, the site was found compliant in follow-up inspection. Construction wastes was limited and used as a fill material for ground labelling. Same verified during the site inspection. As reported, no burning of waste was allowed at the site	Complied Complied	No action

	be emptied regularly, and recyclables' extracted recovered and / passed to recyclers; 107. Disposal of solid wastes into canals, drains, streams, river habitats, places of worship or other culturally sensitive areas or areas where a livelihood is derived such as public areas will be strictly prohibited;			
Use of hazardous substances such as oils and lubricants and any toxic chemicals	108. Ensure that safe storage of fuel, other hazardous substances and bulk materials are away from water bodies agreed by PIG / PIC, follow GOST regulations and have necessary approval/permit from CEP and local authorities. 109. Fuel and other hazardous substances will be stored in areas as a minimum provided with roof, sealed flooring and bund/containment wall to protect these from the extremes of weather and to readily contain spilled fuel/lubricant; 110. Hydrocarbon and toxic material will be stored in adequately protected sites consistent with national GOST and any local regulations to prevent soil and water contamination; 111. Equipment/vehicle maintenance and refueling areas will be confined to areas in construction and the Project sites designed to contain spilled lubricants and fuels. Such areas will be provided with drainage leading to an oil-water separator that will be regularly skimmed of oil (slimmings to be disposed of as hazardous waste) and maintained to ensure efficiency;	EMP requirements no 108, 109,110,111, 112, 113, 114, 115,116,117, 118, 119, 120, 121, 122, 123, 124, 125 and 126 are not applicable in Package CW4	Not applicable	No action required

	112. Hazardous wastes (oily wastes, used batteries, fuel drums) will be segregated and ensure that storage, transport, and disposal will not cause pollution and will be undertaken consistent with national and local regulations; 113. Ensure all storage containers are in good condition with proper labelling in English and Russian/Tajik; 114. Regularly check containers for leakage and undertake necessary repair or replacement; 115. Store hazardous materials above ground level away from water bodies in areas where melting snow or unseasonal heavy rain may cause flooding; 116. Discharge of oil contaminated water will be prohibited, and separated oil will be disposed of at designated oil disposal site or oil recycler; 117. Used oil and other residual toxic and hazardous materials will not be poured on the ground; 118. Used oil and other residual toxic and hazardous materials will be disposed of in a location / facility authorized by the CEP; 119. Adequate precautions will be taken to prevent oil / lubricant / hydrocarbon contamination from maintenance of mobile heavy and other mechanical equipment affecting soil such as by using drip trays; 120. Washing of project vehicles in next to storm drains and sewers or			

	other field drains and canals is strictly prohibited; 121. Ensure availability of spill clean-up materials (e.g., absorbent pads, etc.) specifically designed for petroleum products and other hazardous substances, near where such materials are being stored; 122. Spillage, if any, will be immediately cleared with utmost caution using absorptive clean up materials to leave no traces; 123. Spillage waste will be disposed at disposal sites in a location / facility authorized by the CEP; 124. All areas intended for storage of hazardous materials will be segregated with appropriate signage and provided with adequate facilities to combat emergency situations complying with all the applicable statutory requirements and GASI regulations; 125. The contractors will identify named personnel in their SSEMP in-charge of storage sites for hazardous materials and ensure they are properly trained to control access to these areas and entry will be allowed only under authorization.			
Asbestos Management and Containing Material (ACM) Waste	126. Undertake representative sampling from typical cement sections and other typical locations for ACM such as (i) water pumps; (ii) cement pipes serving inspection chambers and off-take gates; (iii) curved cement flumes and concrete channels. 127. Sign off that the Contractor and	EMP requirements no 126 to 144 are not applicable in Package CW4	Not applicable	Not applicable

	the requisite capable staff have read the AMP, understand the risks and will be able to follow all aspects of the AMP for the duration of the project. 128. Provide asbestos awareness training 129. Conduct refresher asbestos awareness training for all staff and include TAS and TAWs in any follow up training			
	130. Use of power tools to cut asbestos pipes must be prohibited. 131. Identify suitably capable staff to be TAS and TAWs to be exclusively trained employed for the specialist asbestos abatement work. 132. Ensure (the requisite capable staff) read the AMP and understand the risks. 133. Provide all necessary equipment in material in the AMP sufficient for removal of all ACM and provide inventory to PIG / PIC before works commence, as required. 134. Follow all instructions and methods from asbestos awareness training by reputable qualified IES and follow all supplementary instruction from ALRI / PIG / PIC / PIC in line with the updated AMP. 135. Incorporate all AMP and updated AMP requirements in the SSEMP as per in contract specification 136. (All staff and include TAS and TAWs) to participate in refresher asbestos awareness training 137. Follow all requirements of the updated AMP and follow all	EMP requirements no 131 to 136 are not applicable in Package CW4	Not applicable	Not applicable

	supplementary instruction on locations and Methods of removal, handling, wrapping, transportation and disposal of ACM from CEP, ALRI / PIG / PIC in line with the updated AMP. 138. Follow all requirements of the updated AMP and follow all supplementary instruction on locations and Methods of removal, handling, wrapping, transportation and disposal of ACM from CEP, ALRI / PIG / PIC in line with the updated AMP.			
	139. Ensure that safe storage of all wrapped packages of ACM waste 140. Obtain necessary approval/permit for disposal from CEP and local authorities. 141. Follow directions in the AMP for identification, work with asbestos, labeling, removal, handling, transportation and disposal of ACM waste. 142. Monitor all wrapped ACM waste packages from source to disposal (cradle to grave) following directions in AMP. 143. If unexpected ACM is identified, inform PIG / PIC. 144. No reuse of ACM pipework or other ACM to be permitted.			
Construction activities causing accidental damage to existing services	145. Consult with service providers to minimize physical impacts on public infrastructure and disruption to services; 146. Reconfirm power, water supply, telecommunications and irrigation systems likely to be interrupted by	EMP requirements no 145 to 151 are not applicable in Package CW4	Not applicable	Not applicable

	the works; 147. Inform affected communities well in advance; 148. Contact all relevant local authorities for utilities and local village groups to plan re-provisioning of power, water supply, telecommunications and irrigation systems; 149. Relocate and reconnect utilities well ahead of commencement of construction works and coordinate with the relevant utility company at the district and district levels for relocation and reconnection well before works commence; 150. Arrange reconnection of utilities and irrigation channels in the shortest practicable time before construction commences; and 151. If utilities are accidentally damaged during construction, it will be reported to the PIG / PIC, ALRI and utility authority and repairs arranged immediately at the contractor's expense.			
Borrow and quarry, sourcing of construction materials	152. Use quarry sites approved by the local authorities with highest ratio between extractive capacity (both in terms of quality) and loss of natural state. 153. Refill borrow pits as required by CEP using inert surplus spoil material. 154. Ensure borrow pits are left in a tidy state with stable side slopes and proper drainage to avoid creation of water bodies favorable for mosquito breeding.	EMP requirements no 152 to 156 are not applicable in Package CW4	Not applicable	Not applicable

	155. The excavation and restoration of sites and borrow areas, as well as their immediate surroundings, will be undertaken in an environmentally sound manner to the satisfaction of the PIG / PIC. 156. Upon completion of construction, borrow areas will be backfilled or temporarily fenced, awaiting backfilling, to prevent and reduce wind and water erosion, and generation of dust.			
Chance finds and Accidental encroachment into historical / cultural sites	157. Procedure for "chance finds" of physical cultural resources included in SSEMP; 158. Site agents will be instructed to keep a watching brief for relics in excavations and be aware of the procedure for chance finds; 159. Should any potential items be located, the PIG / PIC will immediately be contacted, and contractor will voluntarily and temporarily stop work in that area; 160. Stop civil work and protect / fence the site from disturbance; 161. Contractor with the assistance of the PIG / PIC will determine if that possible physical cultural resources item is of potential significance and contact ALRI to pass the information to MOC (the relevant authority in GOT) who will be invited to inspect the site and work will be stopped to allow time for inspection. 162. Activities will not re-commence until the MOC has signed-off that the site/resources have been dealt with appropriately and that work may	EMP requirements no 157 to 164 are not applicable because Yovan PIG office is a rehabilitation of existing building, whereas plot area for construction of new PIG office in Khuroson is very small and situated within premise of Rassvet pumping stations No. 6.	Not applicable	Not applicable

	continue. 163. The Contractor will be responsible for complying with the requirements of MOC and the PIG / PIC will monitor the same. 164. If any cemeteries or religious sites are unearthed, the site will be fenced and segregated so as not to disturb it during construction and to preserve access for devotees.			
Encroachment into terrestrial habitats, effects on flora and fauna	165. Contractor's site office, work yard and material storage, will all be located as approved by PIG / PIC in consultation with local authorities; 166. Invasive species will not be introduced. 167. Vegetation clearance during construction activities will be minimized and no greater than the absolute minimum to minimize chances of soil and surface destabilization in line with the detailed designs; 168. All replanting and compensatory tree planting (if necessary)[5] will be planned in full agreement with the local forest authority. Pistachio trees may offer a favorable plant for reestablishment due to their wide spreading root system. 169. Construction workers will be informed about general environmental protection and the need to avoid un-necessary disturbance of the environment outside the construction area unless	EMP requirements no 165, 166, 167, 168 and 170 are not applicable in Package CW4 EMP requirement no 169 is applicable in Package CW4 - During the reporting period apart from general EHS discussion with workers in each site inspection two training was conducted one at Yovon and second one in **Khuroson District** districts exclusive for workers working at site. Thematic areas for training were (a) General site specific environmental and safety issues and its management (b) Personal	Not applicable Compliant	Not applicable No action required

[5] There are no gardens, plantations and no individual trees that might require removal although gardens, homesteads and plantations are a feature of the surrounding area.

	justified on engineering grounds and approved by PIG / PIC. 170. Use of guns and hunting equipment by workers will be banned and workers will be dismissed for hunting or being in possession of wildlife.	protective equipment (PPEs) (c) COVID-19, HIV/AIDS (d) Working at height, welding, and electrical safety (e) Complaint procedure		
Operation of construction plant and equipment creating fumes, smoke and dust	171. Maintain all engines, compressors and powered mechanical equipment to minimize emission of fumes and smoke. 172. Plan an effective schedule of water spraying. 173. Increase the watering if there are grievance and evidence of respiratory illness. 174. Provide used drums filled with water for active working areas for the workers to bale water locally on to the work areas to reduce dust nuisances / hazards. 175. Provide orinasal (3MType) dust masks for workers at the active dusty working areas to reduce risks from inhaling dust and issue orinasal masks with other safety gear at the beginning of each shift as required.	EMP requirements no 171, and 173 are not applicable in CW4 package Complied .	Not applicable Not action required	Not applicable In Package CW4, both sites did not require significant construction material, including the deployment of heavy construction equipment. Transportation of construction materials was limited; therefore, dust emissions was not observed during each site inspections,
Presence of vehicles and equipment in villages, use of people's land for access to construction site, traffic and safety issues	176. Contractor will prepare a traffic management plan as part of the SSEMP detailing diversions and other measures; 177. Strict speed limits (20 kmph) to be observed in villages; 178. Local village made aware of proposals and to publicize; 179. Signs and other appropriate safety features will be used to indicate routes for construction traffic and construction works are being	Not applicable in Package CW4	Not applicable	Not applicable

	undertaken; 180. Contract clause to be included specifying that care must be taken during the construction period to ensure that disruptions to access and traffic are minimized and that access to important local facilities is always maintained; provincial and local officials will be consulted in the event that access to important local facilities has to be disrupted for any time and temporary access arrangements will be made; 181. Construction vehicles will use local access roads, or negotiate access with landowners, rather than drive across locally owned land, to obtain access. Where local roads are used, they will be reinstated to their original condition after the completion of construction work; 182. The access road(s) will be kept free of debris, spoil, and any other material at all times; 183. Disposal sites and haul routes will be identified and coordinated with local officials; No fly-tipping (illegal waste disposal) will be permitted. 184. Provision of adequate protection to the public in the vicinity of the construction work sites, including advance notice of commencement of works, installing safety barriers if required and signage or marking of the work areas; and 185. Provision of safe access across the work site to people whose work and access are temporarily affected during construction activities.			

Presence of construction workers from outside the project area.	186. The contractor will make provision to ensure the construction workforce attends STI and HIV/AIDS prevention workshops provided through an approved service provider. The workshops will be delivered to the contractor's workforce prior to commencement of any civil works; and 187. Village based community awareness raising about transmission of STIs and HIV, reproductive health and safe sex. The program will be implemented after contractor mobilization when training staff are in post and prior to construction works commencing.	EMP requirements no 187 is not applicable in Package CW4 Considering the contractor's capacity, PIG/PIC during the training session on 14th December **2022 conducted a small session on HIV/AIDS prevention**	Not applicable Complied	Not applicable No action required
General work tasks entail hazards and risks due to working methods and location	188. At least one month before construction commences the contractors will demonstrate to the PIG they are properly resourced and a qualified/experienced Environmental Safeguards Officer (ESO) Health and Safety Officer (HSO) and Community Liaison Officer (CLO) will be identified by the contractors. 189. The contractors will demonstrate in the bid that they have prepared to engage a Trained Asbestos Supervisor (TAS) and Trained Asbestos Workers (TAW, at least five workers) to be instructed during the preconstruction phase during AMP training by the IES and NES; 190. The contractor will identify named staff in the preconstruction phase for training by the IES and NES as TAS	EMP requirements no 189, 190, 196, 198, 199, 200, 201, 202, 203 are not applicable in Package CW4 Initially both sites were not compliant, however, after intervention of PIG/PIC safeguard specialist. The site was found complaint with the national laws and ADB requirement Some of important finding during first site inspection – (a) on the day of first site inspection, most of the workers were not wearing helmets (b) Workers were not provided with standard safety shoes and appropriate helmet,	Not applicable In a follow-up inspection, both sites were found compliant.	Not applicable No further action required

	and TAWs to be instructed and inducted in the implementation of the Asbestos Management Plan with follow up with toolbox talks on a daily basis for work with ACM; 191. The contractor will establish safety measures as required by law and by good engineering practice and provide first aid facilities at work sites, in vehicles and establishment of a first aid/health post at the contractor camp; 192. Workforce training for all workers starting on site will include safety and environmental hygiene. The contractor will ensure to conduct induction training (assisted by PIC) for all workers on safety and environmental hygiene at no cost to the employees. 193. The contractor will instruct workers in health and safety matters before they start work as required by law and by good engineering practice including first aid facilities. This will include instruction and induction of all workers in health and safety matters (induction course) including construction camp rules and site agents will follow up with toolbox talks on a weekly basis. 194. The contractor will schedule regular (e.g. weekly tool box talks) to orientate the workers on any changes or updates in health and safety issues related to their activities as well as on proper use of PPE; 195. Workers will be provided with appropriate personal protective	during verification it was noted that most of helmets were without head strip (c) first aid was not available at both sites (e) Adequate drinking water available for workers (f) toilets were available (g) GRM was not functional during initial stage of construction (h) workers were not imparted training on Environment/health and safety issues .	Complied	

	equipment (PPE) such as safety boots, helmets, reflector vest, gloves, protective clothes, dust mask, goggles, and ear protection at no cost to the workers; 196. Reversing signals (visual and audible) will be installed on all construction vehicles and plant. 197. Potable water will be provided and sufficient water of will be maintained at all times in all work locations; 198. Where worker exposure to traffic cannot be completely eliminated, protective barriers and warning sighs will be provided to shield workers from passing vehicles; 199. Construction camps will be provided with toilets/sanitation facilities in accordance with local regulations to prevent any hazard to public health or contamination of land, surface or groundwater. These facilities will be well maintained and cleaned regularly to encourage use and allow effective operation and emptied regularly so as never to overflow. 200. Workers having to work near canals or other deep water courses will be instructed in safe procedures for work near water. 201. Fencing and physical barriers will be installed at the edge of all deep excavations greater than 1m deep, sides of temporary bridges and on all areas and sides of temporary works; 202. Where workers must perform removal and construction activities			

	and exposure to water hazards cannot be completely eliminated, protective barriers and warning sighs will be provided to inform and shield workers from the hazards. Flotation devices will be available at the worksites near canals with water deeper than 50cm. 203. Work in deep trenches (>1m deep) will only be carried out when the water source in the irrigation system to the relevant area has been turned off and isolated. During flushing of water through drainage and irrigation pipes workers will exit the trenches during times when the drainpipe flushing water will flow.			
Interaction with local community	204. Ensure site security and guards keep the public out of dangerous areas; 205. Provide warning signs at the periphery of the site warning the public not to enter. 206. Restrict the speed of Project vehicles and also control traffic by contra-flow and provide flag men and warning signs near the works if the traveling lanes must be temporarily reduced. Impose speed restrictions on Project vehicles and equipment traveling within 100m of sensitive receptors (e.g. residential, schools, places of worship, etc.); 207. Educate drivers on safe speeds and other safe driving practices to minimize accidents and prevent spill of spoil, hazardous substances (fuel and oil) and other construction materials during transport;	EMP requirements no, 204, 206, 207, 208, 209 and 210, 211, 213,	Not applicable	Not Applicable

	208. Provide trench barriers and covers to other holes and any other safety measures to keep the public out of the works; 209. Within 100m of settlements and towns fencing will be installed prior to excavation work commencing on all sides of temporary excavations. 210. Provide information boards near the work sites to inform and instruct the public on how to conduct themselves and to be aware of their surroundings if they must approach the works. 211. Refresh information boards as necessary and also show the name and telephone contacts in PIG / PIC and contractors offices for complaints about the works. Information boards will also state that the PIG / PIC and contractor have an open-door policy as regards complaints. 212. Appoint ESO, HSO and CLO for environmental, health and safety and community concerns and to liaise with the PIG; 213. Install barriers (e.g., temporary fence) and signs warning the public not to enter construction areas to deter pedestrian access; 214. Provide adequate signs and security at the contractor base camp and prevent unauthorized persons (including children) entering work areas and camp. 215. Backfill trenches immediately upon completion of construction works or temporarily fence them, awaiting backfilling;	215, 216, 217, 218 and 219 are not applicable in Package CW4 Both site was compliant with EMP requirement 205, 219,		

	216. Prevent proliferation of mosquitoes by installation of effective drainage to avoid formation of stagnant water; 217. Liaise and inform the Hukamat to ensure community awareness raising about public interaction with the works and health and safety, transmission of STIs and HIV, reproductive health and safe sex. The program will be implemented after contractor mobilization when training staff are in post and prior to construction. 218. Ensure no child labour will be used;			
COVID-19 Prevention and task force	219. ALRI, PIC and contractor will form a COVID-19 prevention task force. 220. COVID-19 prevention task force is responsible for socialization, education and COVID-19 prevention during the project implementation. 221. The task force and medical staff discuss, advise and campaign on COVID-19 prevention techniques.	During the reporting period restriction on COVID -19 was lifted by the Government of Tajikistan. In spite of lifting COVID -19 ban, PIG/PIC environment specialist conducted a training on COVID-19 prevention measures during training conducted on 14th December 2022.	Complied	No action required
	222. Prepare COVID-19 health and safety management plan and emergency response plan as part of the SSEMP and implement. 223. Install posters about the appeal or advice to prevent COVID-19 (washing hands, wearing mask) at strategic places on the project site. 224. Medical personnel check every worker's temperature morning and evening. Sick persons (temp. ≥38℃ prohibited from project site. 225. Identify COVID-19 vulnerable in work force including elderly people			

	and those with underlying health issues. 226. Conduct virtual meetings if necessary and implement physical distancing for direct meetings/ field work. 227. Provide PPE Make wearing a mask a normal part of being around other people. 228. Continue with the usual environmental and social management training, adding self-hygiene and COVID-19 related training as appropriate. 229. Assess the extent to which work schedule needs to be adjusted (or stopped) to reflect prudent work practices. taking into account Government advice and instruction. 230. The community will be made aware of all measure being implemented to limit contact between workers and the community, procedure for entry/exit to the site, the training being given to workers and the procedures that will be followed by the project if a worker become sick.			

3.7. Compliance with SDGs commitments

58. The table 12, enumerates how the project's outputs and outcomes are aligning with Sustainable Development Goals (SDGs) commitment.

Table 12: SDGs and Project's Outputs

Project outcome and outputs	SDG alignment
Improve agriculture	
Food production and security	
Water security	
Climate resilience	
Gender participation and women empowerment	
Prevent land degradation	

IV. RESULT OF ENVIRONMENTAL MONITORING

4.1. Overview of Monitoring Conducted during Current Period

59. During the reporting period, except for Package CW4, civil intervention in other four Packages are yet to initiate. The project falls in Package CW4 were small, cause limited and temporary impacts *(see Table 6: Summary of Environmental impacts due to Physical intervention in Package CW4)* on environment and immediate neighbourhood. During the reporting period, environment safeguard team conducted four site inspection to ensure compliance with SSEMP.

60. As the site was small, only physical verification and checking of record were carried out. The instrumentational monitoring such as air, water and noise were not carried out during the reporting period

61. During the reporting period a “Completion Report” of Package CW4 was prepared based on (a) site inspection conducted on 6th June 2023 (b) review of performance of previous inspections;

62. Inventory of Asbestos Containing Material (ACM) for Package CW2 was carried out.

4.2. Summary of Monitoring Outcome

63. Except, under Package CW4, the civil work has not begun in Package CW2, CW3, CW4 and CW5. Hence monitoring outcome are limited during the reporting period. Some of the key monitoring outcomes includes;
    a) Monthly site inspection undertaken to ensure progress in safeguard compliance in Package CW4, *see Table 12: Summary of Monitoring Outcome*
    b) Provided regular hand holding support to contractors in SSEMP implementation including GRM implementation, in this regard, safeguard’s team conducted an exclusive training for Jamoats of three districts in which project to be implement. The topic of training was **"Grievance redress mechanism"**. The 9 heads of Jamoats participated in the training from three districts.
    c) Provided guidance to contractor on applicable legal compliance they need to adhere under different national statutes.
    d) Estimated ACM for Package CW2, for detail refer to Table 11: Inventory of Asbestos Containing Material (ACM) in Package CW2
    e) Provided guidance to contractor on - Information Dissemination (ID), complain register, environment safeguard including site safety issues,
    f) During the reporting period from January to June 2023, there were no accidents and complaints registered pertaining to environmental safeguard reported in Package CW4
64. During site inspections, PIG/PIC safeguard team conducted site inspection and physical compliance monitoring in connection to the PAM, ADB SPS requirements and relevant laws of Tajikistan pertaining to environment, social, health and safety. The monitoring results are summarized in Table 13

Table 13: Inventory of Asbestos Containing Material (ACM) in Package CW2

Package	Lots	Quantity of Asbestos containing Material (ACM)	
CW2	**Modernization of the pumping stations and renovation of the mechanical workshop in Khuroson district**		
	Lot 1: Modernization of the pumping station Rassvet 6	60 pipes, 2meter each, diameter 100mm (weight 1pipe/meter 24kg). 120 m X 24 = **2,880 kg**	Asbestos-cement board (duty lodge roofing) 36 m2. 15kg per 1m2. 36 x 15 = **540kg**
	Lot 2: Modernization of the pumping station No. 26	2 pipes 4 m each, diameter 300 mm (weight 1 p/m 125 kg) 8 m X 125 = **1000 kg**	Asbestos-cement board (duty lodge roofing) 133.4 m2 133,4 x 15 = **2,001 kg** Asbestos-cement board (pump station roofing) 270 m2 270 x 15 = **4,050kg** Asbestos-cement board (asbestos wall) 374 m2 20 kg/m2 374 x 20 = **7,480kg**
	Renovation of the mechanical workshop with installation of equipment	No ACM	
		3880 kg	14071 kg
Total ACM in tonne		**17.951 kg=17.9 tonne**	

Table 14: Summary of Monitoring Outcome

	Rehabilitation of the PIG office in Yovon	Construction of PIG office in Khuroson	Compliance Attained	Comment on Reasons for Partial or Non-Compliance	Monitoring/ Verification method	Required Action and Target Dates to Achieve Compliance	Remarks	Monitoring/ Verification method
Site sensitivity								
Land acquisition and involuntary resettlement	Not applicable	Not applicable	Yes	Complied	Identified during the IEE stage Reconfirmed during site visit and discussion with PIG officer	No action required	PIG office in the Yovon district is rehabilitation of building within the existing building. Whereas the construction of PIG office building in Khuroson district is within the premise of Rassvet pumping station 6	Identified during the IEE stage
Indigenous people	Not triggered	Not triggered	Yes	Complied	Identified during the IEE stage Reconfirmed after site visit and discussion with PIG officer	No action required	--	Identified during the IEE stage
Located inside a legally protected area	Not applicable	Not applicable	Yes	Complied	Identified during the IEE stage Reconfirmed during site visit and discussion with PIG	No action required	PIG office in the Yovon district is located in an urban setting, whereas PIG office building	Identified during the IEE stage

					officer		in the Khuroson district is situated in a rural setting	
Adjacent to or within critical/natural habitat	Not applicable	Not applicable	Yes	Complied	Identified during the IEE stage Reconfirmed after site visit and discussion with PIG officer	No action required	PIG office in the Yovon district is located in an urban setting, whereas PIG office building in the Khuroson district is situated in a rural setting	Identified during the IEE stage
Tree cutting	No trees cutting involved	No trees cutting involved	Yes	Complied	Reconfirmed during the site visit	No action required	No action	During the initial survey and design layout
During project Construction								
Air pollution	Not significant, confined within the workplace and temporary	Not substantial, confined within the workplace and temporary	Yes	Complied	Monthly site inspection	No action required	In Package CW4, both sites did not require significant construction material, including deployment of heavy construction equipment. Transportation of materials	Monthly site inspection

							was less; therefore, there were no considerable dust emissions during the civil work, hence, public inconvenience, road safety, and traffic congestion.	
Noise pollution	Not significant, confined within the workplace and temporary	Not significant, confined within the workplace and temporary	Yes	Complied	Physical verification (During Monthly inspection)	Required Action – Perform cutting (tiles/plywood) in the open rather than indoors. Use an Ear Plug while cutting. Target Dates to Achieve Compliance – February 2023	Not significant, confined within the workplace and temporary, mainly caused due to tiles/plywood cutting. Since 2nd inspection, workers started using ear plug.	Monthly inspection
Human settlement	No impact	No impact	Yes	Complied	Physical verification (During Monthly inspection)	No action required	Both sites were small, nature of construction is not air polluting, water polluting or causing public inconvenience,	Monthly inspection

							road safety, and traffic congestion.	
Accident	No accident reported	No accident reported	Yes	Complied	Record checking and interaction with workers regarding occupational accidents/from local regarding road accidents/public inconvenience	In each site inspection, safeguards team used to give safety tips to the worker	Except for minor cuts, no accidents or fatalities were reported from both sites during the reporting period.	Record checking and interaction with the worker
Waste	Segregate kitchen waste, dry waste sold to recycler and wet waste was taken by workers for cattle feed. The construction wastes were used within the premises for ground levelling.	Initially, no provision for waste segregation. The construction wastes were used as fill material to level ground.	Yes	Complied	Physical verification (During Monthly inspection)	Action point – Use old plastic buckets for waste segregation Target Dates to Achieve Compliance – 10th January 2023. In the follow-up inspection, noted partial compliance At a later stage, both sites become compliant.	Except municipal waste and construction waste, both sites did not use or generate any other types of waste which was hazardous or generate hazardous waste.	Monthly site inspection
Construction material handling/storage	Average	Initially, construction materials were stored haphazardly; after safeguard specialists' intervention,	Yes	Complied	Physical verification (During Monthly inspection)	Action point – store construction material in a designated area Target Dates to Achieve		Monthly site inspection

		the contractor kept construction materials in a designated area.				Compliance – January 2023. In the follow-up inspection, noted partial compliance. At a later stage, both sites become compliant.		
Asbestos-containing material (ACM)	Not Found	Not Found	Not Found	Not Found	Not Found	No action required	No ACM containing were found during the inspections	Verified during initial survey
Grievance	No complaints were received from the population, workers and interested parties.	No complaints were received from the population, workers and interested parties.	Yes	Complied	Checking complaint register and interaction with workers/local	Initially, the site did not maintain a grievance register; after intervention by safeguard specialists, the contractor puts a GRM register	No complaints were received from the population and interested parties during the reporting period.	Monthly site inspection
Labour camp	Engaged local labours, not applicable	Engaged local labours, not applicable	Not applicable	Not applicable	Not applicable	No action required	Contractor engaged 6 to 9 local workers at the respective site; hence, the labour camp was not established.	Not applicable

Use of PPEs	Good	Average	Yes	Complied	Physical verification (During Monthly inspection)	Required Action – Replace existing helmet with standard helmet, arrange gumboots for a worker working in concrete work, provide safety belt for working at height, and provide standard safety boots Target Dates to Achieve Compliance – January 2023 In the follow-up inspection, noted partial compliance. At a later stage, both sites become compliant.	Initially, workers were reluctant to use PPEs. Training, consultation and induction training during site inspection has motivated workers. As a result, usage of PPEs, such as safety belts, helmets, shoes and gloves, has improved significantly.	Monthly site inspection

Drinking Water supply	Municipal supply	Bottled water (no municipal supply, groundwater is saline and not for drinking. The contractor had arranged 20-litre bottled water for 6 to 8 workers	Yes	Complied	Physical verification (During Monthly inspection)	No action required	Contractor ensures regulator supply of drinking water	Monthly site inspection
Toilet and sanitation	A separate toilet facility was available for men and women, but no signage board; further, hygiene was also below satisfactory. After intervention by safeguard specialists, sanitation improved, and male & female signage was put on both toilets	An onsite toilet was unavailable throughout the construction; workers were using a toilet constructed by the brick industry situated 20 meters away from the site.	Yes	Complied	Physical verification (During Monthly inspection)	Action points – Identification marking on male & female toilets and improve toilet hygiene Target Dates to Achieve Compliance – January 2023 In the follow-up inspection, site in Yovan district was found to be compliant with the action point.	At Khuroson District, the contractor reported that they have made an arranged to use the brick industry toilet for its worker.	Monthly site inspection

Resting areas	In Yovon district, the site has a separate kitchen with dining space for workers. As reported, the workers take lunch and spend time during lunchtime.	Initially, no resting room was available at the PIG office building in the Khuroson district; after intervention by safeguard specialists, resting space was created for workers, including an electric heater for heating food and tea making.	Yes	Complied	Physical verification (During Monthly inspection)	No action required	Resting space was noted at both sites.	Monthly site inspection
First aid box	Available	Available	Yes	Complied	Physical verification (During Monthly inspection)	Action points – Immediately arrange first aid box (December 2022) Target Dates to Achieve Compliance – Immediately In the follow-up inspection, both sites were found to be compliant with the action	After intervention by safeguard specialists, the contractor arranged a first aid box.	Monthly site inspection

						point.		
Singe board	Not encouraging	Not encouraging	No	Partly complied	Physical verification (During Monthly inspection)	Action points – Puts signage related to environment, health and safety Target Dates to Achieve Compliance – By January 2023 In the follow-up inspection, both sites were found to be partly compliant with the action point	After intervention by safeguard specialists, contractor provided some signage at the site located in Yovon district.	Monthly site inspection
Housekeeping	Initially, housekeeping was not satisfactory, but after consultation with contractor, it was improved and started storing	Not satisfactory, later on, it improved slightly after the intervention of safeguard specialist.	Yes	Partly complied Partly complied during the construction period, after civil work was over at both sites, the site was	Physical verification (During Monthly inspection)	Action points – store construction materials at a designated place, maintain cleanness at the site, improve toilet hygiene Target Dates	Partly complied	Monthly site inspection

	construction materials at designated palace and focused on cleanliness to some extend.			compliant.		to Achieve Compliance – By February 2023 In the follow-up inspection, both sites were found to be partly compliant with the action point		
Wastewater management	Septic tank for the newly constructed toilet	Septic tank for the newly constructed toilet	Yes	Complied	Physical verification (During Monthly inspection)	No action required	Both sites has installed septic tank for wastewater treatment	Verified during inspection conducted in June 2023

4.3. Restoration of disturbed areas in Package CW4

65. At both project sites in Package CW4, the temporary areas were restored at least to their pre-project condition after completion of civil construction. The project construction debris was removed, the ground was levelled, and new samplings were planted.

PIG office building during initial stage of construction in Khuroson district





Complete restoration of areas



No plantation during construction phase



Construction material storage area

New sapling planted – after construction



Entire areas restored after construction



During construction stage – materials stored in the corridor



Restored areas after construction





66. **Package CW4 – Completion status of Construction Works -** Few observations noted during the last site inspection (6th June 2023) at PIG offices situated in Yovon and Khuroson district area;

(a) All temporary areas were restored
(b) Improved housekeeping
(c) Water connection taken
(d) New toilets were constructed with a septic tank
(e) Initiated planation

Figure: Photograph of completed PIG offices situated in Yovon and Khuroson district

Front view of PIG office building at Yovon district

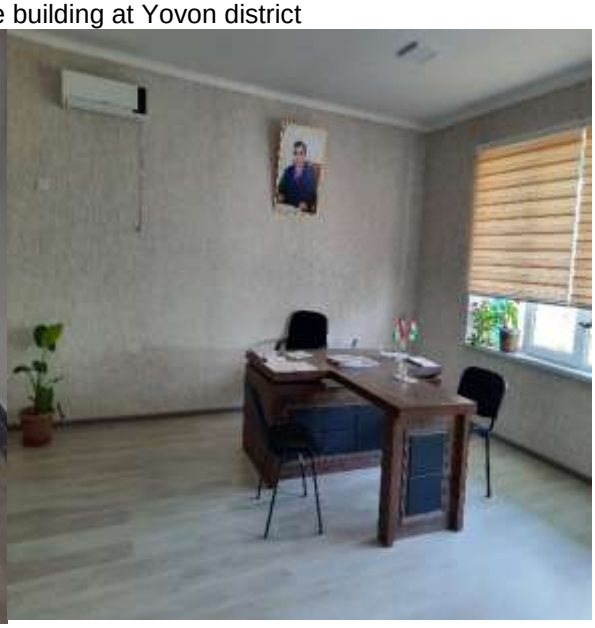


Plantation at entrance of PIG office building



Inside view of PIG office building at Yovon district





Separate bathroom with toilet facility



Toilet with separate septic tank



View of Septic tank for treating wastewater from toilet





Front view of PIG office building at Khuroson district



Inside view of PIG office building at Khuroson district



Newly constructed toilet in PIG office building



View of septic tank (under construction)







4.4. Lesson learned from Package CW4

(a) In future, if a local contractor is engaged, then bid/contract document must provide a detailed framework for preparation of SSEMP.

(b) Contractor must prepare a legal register, which contains a summary of all Acts/Rules/guidelines, including donor safeguard commitment applicable to subprojects and auxiliary activities.

(c) **In a monthly report**, the contractor must provide

(i) Safeguard compliance status on clearance/permit/ No-objection certificate obtained under different statutes of Tajikistan. If there is a delay, the reasons for the delay to be specified.
(ii) In a monthly report, the contactor must provide information on (a) local employment created (b) about GRM dissemination mechanism, the number of people they have informed, the number of grievances registered and cases resolved
(iii) In-house training detail such as number of people trained, training topic, and duration of training.
(iv) Status of corrective actions for minor and major non-compliance

(d) Frequency of site inspection should be more frequent during the initial period of civil intervention in each package.

(e) In case of non-compliance, the contractor must submit a time-bound corrective action plan.
(f) Contractor must maintain a record of inventory of PPEs and share detail with PIG/PIC on a monthly basis
(g) Both PIC/PIG, including contractor, must record and document the condition of roads, agricultural land, temporary land and other infrastructure so that site restoration is planned once the work is over.
(h) In SSEMP, PIG/PIC must ensure that contractor submit plan for Information Dissemination (ID) for creating awareness amongst the workers and local community.
(i) Based on CW4 experience, during initial phase, the contractor is required more training and handholding particularly on Environment safeguards, occupational health and safety, SSEMP implementation etc.
(j) For safeguard compliance, the contractor must appoint qualified personnel for implementing Site-Specific Environmental Management Plan. The contractor must estimate and include all necessary costs into their financial proposal at the time of bidding (a) for human resources, (b) cost required to implement the safeguards measures in line with the national and the donor compliance requirements.
(k) Both PIG/PIC staff must follow Environment, Health and Safety (EHS) Travel Plan for undertaking surveys, field Investigations and site inspections. *PIC/PIG* experts are constantly being exposed to physical, environmental, health and safety risks, such as (a) travel/road risks (b) theft (c) extreme weather (d) stomach upset/vomiting, (d) Insects bite including the risk of downing and so on. In this regards, PIG in consultation with PIC prepared EHS Travel Plan for undertaking surveys and field Investigations, for detail, refer to Annexure 7.

4.5. Health and Safety

67. During each site inspection, PIG/PIC holds a short safety meeting /discussions with the contractor's officers including contractor workers. They also discuss the solutions to address minor and major non-compliances; for detail refer to table **Summary of Monitoring Outcome**. During site visits, PIC/PIG also physically oversee and verifies the health and safety aspects, *for detail, refer to section 3.2 Site Audit and also refer Table 13: Summary of Monitoring Outcome*

4.6. Community Health and Safety

68. **Community Health and Safety Management Plan** aims to ensure that health and safety impacts on the local community are managed adequately throughout project construction. Community health and safety were not a concern in Package CW4. Both sites were small, the nature of civil intervention was not air and water polluting, and the construction material requirement was less; hence public inconvenience, road safety, and traffic congestion were not a concern.

69. **Community Health and Safety issues** will likely be an issue of concern in future, particularly in Package CW1 and CW3, due to traffic volume and scale of civil intervention. Hence, the contractor needs to prepare the community health and safety plan based on mapping hotspot areas.

4.7. Training

70. On World Environment Day (5th June 2023), International Environment Specialist along with PIG Environment Specialist conducted;
    (a) A training on Environment Safeguard Compliance
    (b) Open discussion on topic “Management of Canal De-silting Material”
    The training was organised for PIG and PIC officers engaged in this project. Both these events were attended by 23 officers. During open discussion, officer gave several ideas for management of canal de-silted material such as filling low lining areas close to canal, can be used for filling gully in the areas etc.
71. On May 20, 2023, an exclusive training was organized for Jamoats of three districts in which construction work being carried out to implement the project. The topic of training was “Grievance redress mechanism”. The 9 head of Jamoats participated in the training from three districts. After an introductory session, detailed training was given, such as the importance of GRM, how it will benefit the people and government, a book of complaints and suggestions etc. For detail, refer to Appendix 5. List of GRM training participants (Photo 30-31)
72. On May 16-17, 2023, a working group meeting was conducted with the Yovon, A. Chomi and Khuroson District Government Agencies representatives. Mr. Romiz Gafurov, Environment Specialist of PIG and Mr. Alihon Latifi, Environment Specialist of PIC participated in this event from the environmental working group. Within the framework of the meeting, a training program was organised on "The Importance of Environmental and Social Aspects". This training was attended by representatives of state bodies and interested people (15 participants from Yovon, 18 participants in Jomi district & 5 participiants in Khuroson. For detail on list of participants, refer to Appendix 3 List of participants of the meeting with Khukumats of districts, (Photo 25-29)

Table 15: Summary of the Training Details

Date of training	Thematic area	Stakeholder	No of participants	Trainers	Remarks	Reference
5th June 2023	Environment Safeguard Compliance	PIG/PIC staffs	23 officers	Sujit Kumar Singh (IES)	Participants were trained on ADB safeguard compliance requirement including provisions stipulated in PAM and IEE	
5th June 2023	Open discussion "Management of Canal De-silting Material	PIG/PIC staffs	23 officers	Sujit Kumar Singh (IES)	It was an open, participatory discussion to seek opinions on how best the project could manage the canal's de-silted material. The participants came out with good ideas, such as options of filling low-lying areas close to a canal or potentially using them for filling gullies locally etc.	
20th May 2023	GRM	Jamoats of three districts	9 head of Jamoats participated in the training	Mr. Romiz Gafurov, Environment Specialist of PIG Mr. Alihon Latifi, Environment Specialist of PIC	The objectives of training was (a) aware Jamoats regarding GRM and its significance (b) community outreach in three districts	
16 & 17th May 2023	Environmental and Social aspects and its management		Representatives of state bodies - 15 participants from Yovon, 18 participants from Jomi district & 5 participiants from Khuroson district	Mr. Romiz Gafurov, Environment Specialist of PIG Mr. Alihon Latifi, Environment Specialist of PIC	Objectives was to create awareness on environment and social issues	

V. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

5.1. Good Practice

73. It has almost been a year since the project has started, and major civil intervention in the project is yet to begin; followings are some general good practices noted during the reporting period.
(a) PIC/PIG environmental and social team, including international environmental specialist, are on board
(b) Inclusion of SSEMP in Package CW4 civil works
(c) Trainings and constant consultation with contractor in Package CW4 resulted in several improvements in environment, sanitation, and safety.
(d) Noted adequate PPEs for workers at both project site
(e) GRM program initiated at the project and districts level
(f) Trainings were conducted regularly to create awareness on environment compliance and GRM
(j) After completion of Package CW4, all temporary areas were restored
(k) Continuous improvement in housekeeping noted during each site inspection
(l) Continuous training/short safety talks by PIG/PIC during each site inspection have created a positive impact among workers and improved onsite safety; as a result, workers started using PPEs
(m)New toilets were constructed with a septic tank
(n) Initiated planation in Package CW4

5.2. Opportunities for Improvement

74. Few recommendations are as follows;
(a) Need to strengthen coordination between the PIG, Contractor, PMC and other project stakeholders to avoid non-conformances in future.
(b) A few recommendations from International environmental specialist (IES)

- PIG staff including contractor requires strong handholding support on environmental safeguard, grant agreement conditions and PAM requirement. Hence, IES suggests more training on regular basis on Environment and Social safeguard issues. This will strengthen (a) site compliance, (b) safeguard monitoring and reporting
- Safeguard Standardization **-** For timely deliverables and quality assurance, there is a need to prepare more site specific checklists & forms and reporting structure. For mainstreaming, the team also requires handholding support (e.g GRM forms for a worker, community, Standard Operating procedure for information dissemination, and so on).
- Need Standard Procedure for Information dissemination on environmental & social Safeguard including monitoring, documentation and reporting in SAEMR
- In SAEMR, initiate reporting on "how this project" aligns with SDGs and NDC commitment. Based on project's outputs and outcomes, the international environmental specialist attempted and showcased how the project outcomes align with SDG's commitment, *for detail, refer to Table 10: SDG & Project's Outputs*

- Environment and safety signage need to be promptly displayed to create awareness

VI. SUMMARY AND RECOMMENDATIONS

6.1. Summary

75. Brief summary status of projects during the reporting period are as follows:
    (a) Completion of construction in Package CW4
    (b) Bid document for Environment Safeguard for Package CW2 completed*, for detail refer to Annexure 7*
    (c) CW4 Completion Report was prepared and shared with PIG
    (d) Completed Asbestos inventory for Package CW2
    (e) Conducted four site inspections during the reporting period
    (f) Conducted four training programs during the reporting period
    (g) Prepared draft Environment, health and Safety Travel Plan for Survey and Field Investigation and shared with PIG, *for detail refer to Annexure 7*
    (h) Except few minor non-compliance, both PIG office under Package CW4 was found to be compliant
    (i) Except civil interventions, summary of completed tasks in each Package are summarized in *Table 5: Status of different Packages during reporting period (January to June 2023)*

6.2. Recommendations

76. Few recommendations include;
    (a) The Contractor shall monitor air, noise and water quality before starting civil work.
    (b) Contractor must develop and strengthen procedure for information dissemination related to GRM, environment safeguard, local employment opportunity
    (c) In case, if the contractor hires workers from a third party, the sub-contractor must comply with national labour standards and provide same amenities, security and working conditions as specified in the contractor bid document.
    (d) Standardization of Environmental & social site inspection**.** It will have dual impacts (a) improve compliance, documentation and reporting, (b) data from site inspection reports can be directly imported for making SAEMR and quarterly progress reports.
    (e) In case, increase in COVID case or alert issued by the government, contractor must take following preventive measures immediately
    - Ensure mandatory thermal scanning of worker and use of face mask.
    - Identify hospitals/clinics in the nearby area, which are authorized to treat COVID-19 patients, and a list should be available on-site
    - Provision for hand wash & sanitizer (touch-free) shall be made at all entry and exit points and common areas. Everyone shall be required to wash & sanitize their hands before entering the site

- Conduct a random sampling once a week and maintain a record

(f) To see more recommendation, refer to section 4.4 lesson learned from Package CW4

VII. ANNEXURES

Annexure 1: Approval for Environment Clearance from CEP

КУМИТАИ ҲИФЗИ МУҲИТИ ЗИСТИ
НАЗДИ ҲУКУМАТИ ҶУМҲУРИИ ТОҶИКИСТОН
РАЁСАТИ ЭКСПЕРТИЗАИ ДАВЛАТИИ ЭКОЛОГӢ

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№ 118-15
«28» 01 с.2022.

Тасдиқ мекунам:
и. в. Сардори Раёсати экспертизаи
давлатии экологӣ
Д. Камолов

ХУЛОСАИ
Экспертизаи давлатии экологӣ
Маълумоти умумӣ:

1. *Номи иншоот:* Лоиҳаи навсозии системаҳои ирригатсионӣ ва дренаж ва устувории он ба тағирёбии иқлим ва ҳолати фавқулодда дар ҳавзаи дарёи Вахш.
2. *Мавқеъи ҷойгиршавии иншоот:* вилояти Хатлон
3. *Номгӯи ҳуҷҷатҳои пешниҳодшуда:* Дархост барои гирифтани хулосаи экспертизаи экологӣ, Маводҳо оид ба арзёбии аввалияи экологии лоиҳаи навсозии системаҳои ирригатсионӣ ва дренаж ва устувории он ба тағирёбии иқлим ва ҳолати фавқулодда дар ҳавзаи дарёи Вахш ба муҳити зист.
4. *Дархост ва пешниходкунандаи ҳуҷҷат, лоиҳа:* МД сохтмони асосӣ ва мелиоративии Агенти беҳдошти замин ва обёрии назди Ҳукумати Ҷумҳурии Тоҷикистон.
5. *Санаи қабули ҳуҷҷат:* 20.01.2022.

Раёсати экспертизаи давлатии экологии Кумитаи ҳифзи муҳити зисти назди Ҳукумати Ҷумҳурии Тоҷикистон маводҳои пешниҳоднамудаи МД сохтмони асосӣ ва мелиоративии Агенти беҳдошти замин ва обёрии назди Ҳукумати Ҷумҳурии Тоҷикистонро оид ба лоиҳаи навсозии системаҳои ирригатсионӣ ва дренаж ва устувории он ба тағирёбии иқлим ва ҳолати фавқулодда дар ҳавзаи дарёи Вахш, чиҳати гирифтани хулосаи экспертизаи давлатии экологӣ баррасӣ намуд.

Ҳисобот оид ба арзёбии аввалияи экологии таъсиррасонии навсозии системаҳои ирригатсия ва дренаж ва устувории он ба тағирёбии иқлим ва ҳолати фавқулода дар ҳавзаи дарёи Вахш ба муҳити зист бо мақсади баҳодиҳии таъсири эҳтимолӣ ба муҳити зист аз барқарорсозӣ ва фаъолияти самараноки системаи обёрии ҳавзаи дарёи Вахш дар се ноҳияи вилояти Хатлон – Ёвон, Хуросон ва А. Ҷомиро, ки бо оби полезӣ таъмин менамояд, таҳия гардидааст. Татбиқи лоиҳаи мазкур барои баланд шудани даромади фермерҳо, ки дар ҳавзаи дарёи Вахш зиндагӣ мекунанд, мусоидат намуда,

Annexur 2: List of approved officials for GRM for registering complaints

РЕСПУБЛИКА ТАДЖИКИСТАН

Агентство мелиорации и ирригации при Правительстве Республики Таджикистан

«Согласовано»
Директор Группы реализации проекта «Модернизация систем ирригации и дренажа устойчивых к изменению климата и стихийным бедствиям в бассейне реки Вахш»

Хушахтов У.Х
«__» _____ 2023 г

«Утверждаю»
Директор Агентства мелиорации и ирригации при Правительстве Республики Таджикистан

З. Давлатзода
«__» _____ 2023 г

Комиссия по рассмотрению жалоб
Проекта «Модернизация систем ирригации и дренажа устойчивых к изменению климата и стихийным бедствиям в бассейне реки Вахш»

Представитель АМИ	
Представитель АМИ в районе Ёвон	
Представитель АМИ в районе Хуросон	
Представитель АМИ в районе А. Джоми («Каналы Бахористон»)	
Представитель консалтинговой группы «БАРС»	
Представитель ГРП	
Менеджер ГРП районов Ёвон и А. Джоми	
Менеджер ГРП района Хуросон	
Представитель АВП «Чоргуд»	
Представитель АВП «Истиклол»	
Представитель АВП «Обигарм»	
Представитель АВП «Ширкат»	
Специалист ГРП по гендерным и социальным вопросам	
Специалист ГРП по ООС	
Подрядчик: ООО «Тоғмеконгузи»	

Annexure 3: Training Participant list from Yovon, A. Chomi and Khuroson District (training was attended by representatives of state bodies and interested people (15 participants from Yovon, 18 participants in Jomi district & 5 participiants in Khuroson

16.05.2023

Лоиҳаи "Баланд бардоштани омодагӣ ва устуворӣ ба офатҳои табиӣ дар Ҷумҳурии Тоҷикистон"

Рӯйхати иштироккунандагони муаррифии ҳуҷҷатҳои лоиҳа

Вилоят_____ Шаҳр/ноҳия Ёвон Ҷамоат_____

№	Ному насаб	Вазифа	Телефон/ почт. элект.	Имзо
1.				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13.				
14.				
15.				
16.				
17.				
18				
19				
20				

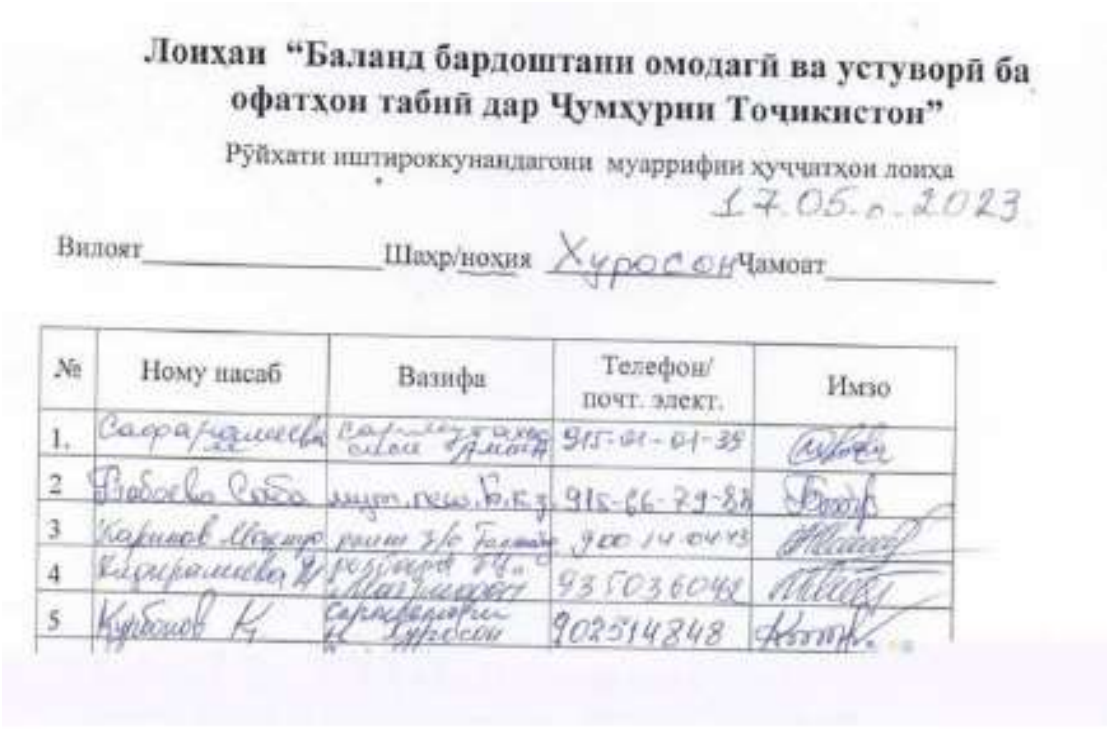
16.05.2023

Лоиҳаи "Баланд бардоштани омодагӣ ва устуворӣ ба офатҳои табиӣ дар Ҷумҳурии Тоҷикистон"

Рӯйхати иштироккунандагони муаррифии ҳуҷҷатҳои лоиҳа

Вилоят_____ Шаҳр/ноҳия А. Ҷомӣ Ҷамоат_____

№	Ному насаб	Вазифа	Телефон/ почт. элект.	Имзо
1.				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12.				
13.				
14.				
15.				
16.				
17.				
18				
19				
20				



Лоиҳаи "Баланд бардоштани омодагӣ ва устуворӣ ба офатҳои табиӣ дар Ҷумҳурии Тоҷикистон"

Рӯйхати иштирокунандагони муаррифии ҳуҷҷатҳои лоиҳа

17.05.г.2023

Вилоят _____ Шаҳр/ноҳия Хуросон Ҷамоат _____

№	Ному насаб	Вазифа	Телефон/ почт. электр.	Имзо
1.	Сафарназарова		915-01-01-35	
2	Раҳмонова Сабо		915-66-79-88	
3	Каримов Ҳожи		900 14 0443	
4	Қурбонова		935036048	
5	Қурбонов К		902514848	

Annexure 4: List of GRM Training Participants

Проект модернизации ирригации и дренажа в бассейне реки Вахш

Список участников

Тренинга Механизмы рассмотрения жалоб

№	Ф. И. О	Должность	тел	Подпись
		Ебол		
1	Юсуфи Рахбин	Раис ЗО Чорку	935694423	
2	Хасанзода С	ЗО Дарми	935116766	
3	Каримов Ганджи	ЗО Вахдат	934485702	
4	Назаров Шариф	ЗО Сабзкой	935024747	
		Ғ Фирюза		
5	Раҳимова Ф	ЗО Ҳусти	923078777	
		ғ Сурхоб		
6	Каримов М	ЗО Ғалаба	935444044	
7	Саидов Шарбат	Раис	980666191	
8	Табаров Ғайр	ЗО Ҳилол	937011122	
9	Ҷонмуҳаммадов С	ҷ/з Кирил Кол	919422200	

Тренер Специалист по экологическим вопросам Таджикистан РТ

Annexure 5: List of PIG and PIC staff attended training on World Environment day and also participated in open discussion



Список участников тренинга "Экологическая безопасность"

5 июня 2023 г

№	Ф. И. О	Должность	Подпись
1	Амуров Карим	Менеджер п. Хуросон	
2	Гафоров Шохидхон	Менеджер п. Ёдгор	
3	Исмоилов Вали	инженер п. Ёдгор	
4	Раупов Рахмонкул	инженер Канибадам	
5	Мирзакимов Тохир	инженер ГРП	
6	Абдукаюмов Алишер	работник ГРП	
7	Обидов Юлдашей	менеджер ур. филиала	
8	Литфулло А.	администратор	
9	Назмиддинов Нуриддин	специалист М.О.	
10	Макарова Любовь	фин. инспектор	
11	Асаева Сайгай	Спец. по закупк.	
12	Александров Дмитрий	гл. инженер.	
13	Бобунов Фарход	нач. отдела ГРП	
14	Кадыр Умед	администратор	
15	Shah Agha Hashimi	Projects Coordinator	
16	Sujit Kumar	IEs	
17	Бахтиёров А.	Дехканабад М.О спец.	
18	Писарукова Наталья	Душанбе Горводоканал	
19	Каримов Фирдавс	зам. нач. отд. ГРП	
20	Vardges Kurkchiyan	Consultant PIC	
21	Мухиддинова Гавхарсултон	Спецназ по гендеру и его развитию	
22	Dinesh Kumar Shrestha	Team Leader, PIC	
23	Rahi Ratan Upadhyaya Khanal	D...	

Annexure 6: [Sample] Questionnaire used for Site Inspection for Package CW4

1. Name of Package and lots: …….
2. Name of lot …….
3. Name of contractor ……
4. Starting month……. Expected completion month……
5. No of workers, Male……. And female……
6. Date of inspection…… Name of inspecting person……
7. Has safeguard inspection conducted in the past Yes……. No…….
   If yes, when ……, was it internal/external ……
8. Do site has responsible person to take care of environment safeguard/O&H
   Yes……., No ……., if answer is yes, then providing following
   Name……., Position: ……
9. Environment Safeguards

Table1: Evaluation of Environmental safeguard

	Mitigation measures in align with SSMP	Are those initiatives adequate	Corrective action
Air pollution			
Water pollution (septic tank for site toilet)			
Garbage (source segregation and disposal)			
Construction and demolition (C&D) waste			
Raw material handling (cement, steel, brick and stone chips)			
Excavation work			
Painting			
Inspector's remark			

Health and Safety

10. **Do contractor provide Personal Protective Equipment's (PPEs) to workers**

Yes……., No ……

If answer is yes, inspector should fill below table based on site inspection and interaction with the workers

Table2: Personal Protective Equipment's

PPEs type	Are workers wearing PPEs (Yes/No)	Supported by photograph	Future Corrective actions
• Helmet			
• Gloves			
• Boot			
• Gumboot for concreate work			
• Special suits			
• Others (specify)			

11. Is there any height work? Yes……., No……

If answer is yes, do they use safety belt (Yes/No) ……Do they use ladder (Yes/No) …….
Are they in good condition? Inspector's remark

12. Is there any hot job or wielding job? Yes/No……..., if yes, do they use following:

Table3: Welding - Personal Protective Equipment's

PPEs type	Are workers wearing PPEs (Yes/No)	Supported by photograph	Future Corrective actions
Face shield			
Leather gloves			
Special clothing			
Fire extinguisher			

13. What are measures taken for electrical safety? Inspector should based on site inspection provide overall remarks and corrective action

Remark:

14. Does the site have Standard Operating Procedures (SOPs) for followings?

Table 4: Evaluation of Standard Operating Procedures

SOPs for	Yes/No	If answer is yes, do they follow work permits	Corrective action
• Electric and installation works			
• Wielding			
• Working at height			

15. Was there any accident in the past? Yes/No……...
    If yes, provide following;
    Type of Injury ……..
16. First aid

Does site have the first aid facility? Yes/No……, if Yes, inspector should visit and inspect the first aid and check it whether it comply with government requirement

Remark:

17. Signage- Based on site survey, inspector should provide information as below given table

Table5: Evaluation of Signage

Signage	Yes/No, if yes, type of signage	Take photograph	Corrective action
Environment			

Safety			
COVID			

Labour welfare/hygiene

Table 6: Evaluation of labour's amenities

	Yes/No	Corrective action
Resting/eating area for workers		
Drinking water		
Toilet/urinal		
Other(specify)		

18. Does site have grievance redressal system? Yes/No…….

If yes, note down few common grievances, if any. Are it working effectively (talk with workers) and also check documents and thereafter inspecting officer provide overall remark

Remark:

Annexure 7: Framework for Environment, Health and Safety (EHS) for Survey and Field Investigation.

Environmental, Health and Safety Plan for Site visits and Field studies

Content

1. Introduction
2. Preamble
3. Objectives of Making Environment, Health and Safety Management (EHS) Plan
4. Scope and Applicability of Travel Plan
5. Anticipated Physical, Environmental, Health and Safety Risks
6. What to do to Avoid Risks during Survey and Field Investigation?

    (A) Before You Leave for Survey & Field investigation - Prepare a written Safety Travel Plan for your trip

    (B) Assemble Your protective equipment

    (C) While you are working (survey/field investigation)

    (D) Medical Care and First Aid

    (E) Preventive Approach - To Avoid Physical, Environmental, Health and Safety Risks during survey and field investigation.

1. Introduction

The “Climate- and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin” Project is the first gender equity irrigation and drainage (I&D) investment of the Asian Development Bank (ADB) in the Republic of Tajikistan. The Project will enhance climate resilience and water productivity and improve the income of female and male farmers by modernizing selected areas of Yovon I&D system located in the Khatlon Province of the lower Vakhsh River basin. The Project is also aligned with the Tajikistan National Development Strategy 2030, which emphasises improving food security and people's access to good quality nutrition.

The project is classified as a category B project as per ADB's Safeguards Policy (SPS-2009) and consists of 5 civil works packages;

- Each Package is divided into lots,
- Based on the **scale of physical intervention** under each lot, the potential environmental risks in Packages 1 & 3 may be higher than other Packages.
- Each package will be taken in phase wise.

Table 1: Details of Lots under each Package

Name of package	Lot	Environmental & Social Impacts**
CW1	Lot1: Reconstruction and modernization of Main (0.6km) and Right Branch canal 85 km, inspection roads, and Secondary Canal, PL4, 4.5 km; Lot 2: Construction of two bypass canals and Shurchasoy siphon; and Lot-3 Buffer strip and riverine area development and Precision land levelling.	Anticipated impacts - expected to be HIGH due to large-scale civil works, pressure on local resources, road safety due to increase in transportation, trigger community health safety issues, labour intensive, high waste generation, public inconvenience, and high labour occupational health and safety concern.
CW2	Modernization of Pumping Stations and renovation of the Mechanical workshop in Khuroson District Lot 1: Modernization of the Pumping station “Rassvet no. 6”. Lot 2: Modernization of the Pumping station “Rassvet no. 6”. Lot 3: Renovation of Mechanical workshop with installation of equipment	Anticipated impacts - expected to be MODERATE due to limited civil works, a slight increase in transportation, generation of ACM materials, and some interference or inconvenience to the local community.
CW3	Modernization of Tertiary Irrigation & Drainage Systems (buried pipes)	Anticipated impacts - expected to be HIGH due to large-scale civil works, pressure on local resources, generation of ACM materials, high occupational health and safety issues etc.
CW4	Rehabilitation of two PIO Office Buildings	Low impact Package - the site is small, with limited civil works; impacts are limited to workplace (noise, dust and occupational health & safety issues), no land requirement, no impact on immediate neighbourhood, and no ACM generation.
CW5	Lot 1: Construction of the new Office building of WUA with the training zone. Lot 2: Rehabilitation of Bahoriston Canal	Low impact, justification same as mentioned in Package CW4

2. Preamble

The said report herein referred as “Environment, Health and Safety (EHS) Plan”, will trigger while undertaking a survey and field investigation of Package CW1 for the “Climate- and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin” Project.

Environment, Health and Safety (EHS) Plan highlights the procedures to be carried by individual or team members during survey, field investigation or site inspection;

As per ADB requirement, it is compulsory to comply with and reported in Semi-Annual Environmental Monitoring Report (SAEMR).

3. Objectives of Making Environment, Health and Safety Management (EHS) Plan

Followings are the objectives;

- To avoid accidents or any unforeseen incidents during the survey and field investigation.
  Ensure a safe and accident-free working environment.
- Set systems and procedures in place so that even during the emergency, field investigating experts or teams are able to manage the emergency situation with minimum impacts on their health and lives.

4. Scope and Applicability of Travel Plan

- The abovementioned Travel plan applies when experts conduct field investigations and surveys of Package CW1.
- Applicable to PIC/PIG experts, whosoever, irrespective of designation while undertaking site survey, field investigation or routine inspection.
- As a good practices, throughout construction period, PIC/PIG must adhere to the Travel plan.

5. Anticipated physical, Environmental, Health and Safety Risks

Based on preliminary survey of the Project area, followings are the potential physical, environmental, health and safety risks associated with package CW1; the list is not exhaustive, and the team may increase the risk list as they experienced during the survey and filed investigation.

- Travel/road risks
- Drowning,
- Extreme weather (heat stroke cause dehydration)
- Frostbite
- Stomach upset/vomiting
- Insects bite (e.g bees, wasps, etc.)
- High Altitude Illness
- Theft
- Injury due to falls or slips*

*The list is not exhaustive and the team may increase the list of risks they have encountered during the visit, interview and investigation.

6. What to do to Avoid Risks during Survey and Field Investigation?

During the inspection, visit and/or study, PIG/PIC experts, including donor groups, are required to comply with the requirements:

(A) Before leaving for Survey & Field investigation - Prepare a written Safety Travel Plan for your trip

Provide a filled copy and get it approved by a Team Leader, Deputy Team Leader or designated authorised person.

Include the following in your Safety Travel Plan

(a) **Yours and your team member's itinerary**

- Locations where you are travelling
- Arrival and departure dates,
- Names & addresses, and phone numbers of all fieldwork participants.

(b) **Contact person:** Name and phone number of a person to contact in case of emergency- a spouse, parent or friend, as well as a hotel contact where you are staying.

(c) **Activities:** General nature of activities being conducted during survey and field investigation

(d) **Local contacts**: Names of people at or near your fieldwork site who can reach you, as well as your check-in/check-out arrangements.

(e) **Possible Risks**: Potentially hazardous plants, animals, terrain and weather conditions of the location.

Complete a “Safety Travel Plan" and submit it for approval.

(B) Assemble Your Protective equipment

- First aid kit
- Don't forget the medications you regularly take
- Don't forget your mobile phone, charger or mobile power bank
- Carry extra-long sleeves cloth and pants or jeans
- Take prescribed allergy medicine, if you have allergies
- Sunscreen and caps/hat/ sun protection glass
- Flashlight/Lead safety light
- Personal protective equipment for fieldwork activities (high visibility vests, safety glasses/goggles, gloves, sturdy work boots, etc.).

(C) While you are Working (survey/field investigation)

- Whenever possible, **fieldwork activities should be done in teams of at least two people (buddy approach).** This system is the safest way to work. Always make sure your supervisor knows where you will be and when you will return.
- Inform your office daily about your fieldwork location and the approximate return time (through whatup, email or phone).
- After each day’s work, the fieldworkers should notify the contact when they return.
- Local contact should be provided with the telephone numbers of people to call if the field staff do not return or report within a predetermined interval.

(D) Medical Care and First Aid

- A first aid kit should be maintained at all times during survey or field investigation.
- National and international experts should be given first aid training or possible health and climatic risks they may encounter during surveys or field investigations. In PIG/PIC, it is mandatory to have at least one staff who is trained and certified in first aid and cardio-pulmonary resuscitation (CPR).
- A certified first aid trainer provides training to PIG/PIC experts from time to time.
- Before a field survey or field investigation, keep the emergency number of the nearest hospital or health care unit approached in case of a medical emergency.

(E) Preventive Approach - To Avoid Physical, Environmental, Health and Safety Risks during survey and field investigation.

The table below enumerates suggestions to reduce potential Physical, Environmental, Social, Health and Safety risks during surveys, inspections or field investigations undertaken by PIG/ PIC experts.

Table 2: Tips to reduce Physical, Environmental, Social, Health and Safety risks

Risks during survey/field study	Prevention
Road travel by car	**Using office vehicles** • Obey traffic laws • Fasten your seatbelt • Don't drink alcohol and drive • Don't exceed the speed or drive recklessly • Don't take phone calls while driving **Using rented taxi** • Take a rented car from the authorised agency and explain your travel requirement to the agency beforehand. • When you are using a rented taxi, ensure (a) that the driver is not drunk, (b) safety belt is available, (c) tell the driver not do over speeding (e) tell the driver not receive calls while driving.
Extreme Weather conditions	• Plan your survey or field investigation based on metrological input. Nowadays, local metrological information is available online region-wise; use it for your travel plan, otherwise severe weather can result in physical injury and/or death. • Carry appropriate equipment to deal with severe weather (e.g. raincoat, umbrella)
Frostbite	• Dress in layers • Cover your extremities with warm clothing, e.g., hats, facemasks, gloves, socks, and shoes.
Dehydration	• Drink plenty of water, • Filling your diet with fruits and vegetables that have a high water content • Avoid or limit drinks with caffeine, like coffee, tea and soda.

	• Avoid or limit drinks with alcohol. • Working strenuously or in a warm climate, always carry Oral Rehydration Solution (ORS) and take frequent rest breaks
Stomach upset/vomiting	• Wash hands with soap before you eat/use hand sanitiser • Don't eat raw food • Never drink water from an impure source/ always take bottled water • Wash fruits and vegetables before consuming • Always keep medicine in first aid kit for vomiting/stomach upset/fever etc
High Altitude Illness (applicable for international experts)	• Impact your health due to oxygen deficit in body intake and increased breathing rate • Allow your body to acclimatize by gaining elevation slowly
Insects bite (Bees, Wasps, etc.)	• Wear long sleeves and pants. • Wear special shoes • Carry insect repellent cream, if possible • Avoid areas of standing water where mosquitoes breed
Theft	• Keep valuables in the front pocket • Carry the shoulder bag diagonally and keep the bag in front under your arm • If theft happens, inform and register your complaint to the nearest police station
Drowning	• Use the buddy system • Carry ropes & life jacket • Experts know swimming should go close to water, and non-swimmer experts should support • Always wear a life jacket when you enter in water. • Learn CPR (see Table 3) • Don't consume alcohol For more detail, refer following site https://www.sja.org.uk/get-advice/first-aid-advice/breathing-difficulties/drowning/

Note: The list is not exhaustive

Table 3: What to do, if someone is unresponsive and not breathing normally

Steps	What to do?	Picture
Step1	Call the nearest hospital/emergency 03	

Step 2	Pump 30 chest compressions at a rate of 100–120 per minute.	
Step 3	Breathe – • Give two rescue breaths *If you're unable, just give chest compressions* • Continue to pump and give rescue breaths until help arrives	

Source: https://www.sja.org.uk/globalassets/first-aid-posters/adult_cpr_poster.pdf

Annexure 8: Safeguards Bid Document for Civil Contractor for Package 2

Based on preliminary site investigation, understanding of sector issues, its challenges, and conditions as stipulated in the:

(a) Project Administration Manual (PAM)
(b) Initial Environmental Examination (IEE) Report
(c) Grant Covenants

The contractor shall be responsible for implementation of all the terms of the contract conditions, relating to:

(a) Implementation of Site Specific Environment Management Plan (SSEMP),
(b) Implementation of Health and Safety measures
(c) Implementation of Asbestos Management Plan (AMP)
(d) Environmental monitoring, documentation and reporting
(e) Establish, document and report to PIG on Grievance Redressal Mechanism (GRM)
(f) Establish Information Dissemination Plan to dissemination information and create awareness amongst the workers, community and PIG/PIC personnel
(g) All site related compliance issues as prescribed by PIG during the pre-construction and construction period.

(A) Safeguard compliance

Environmental Safeguard Compliance will focus on ensuring complying with Environment, Social, Health and Safety policies of the Government of Tajikistan and ADB's commitment as specified in the PAM, EMP of the IEE report and the Grant Covenants. Some of the key thematic areas for safeguards compliance are:

1. Contractors will obtain necessary permissions, clearances, No-Objection Certificates, licenses, etc; as specified in the statutes of the Government Tajikistan and ensure compliance;
2. Contractors will comply with the Labor Standards, as specified in labours laws of the Government of Tajikistan[6] and ADB Safeguard Policy Statement, 2009;
3. Contractor will ensure deploying adequate resources and appoint personnel for addressing all Safeguards concerns on the project, Asbestos Management Plan (ACM) and implementation of **Site-Specific Environmental Management Plan. The contractor will** estimate and in include all necessary costs into their financial proposal for human resources, and cost required to implement the safeguards measures in line with the national and the donor compliance requirements.
4. **Site-Specific Environmental Management Plan –** The contractors shall prepare the Site-Specific Environmental Management Plan (SSEMP) outlining the process of implementation of the EMP (Refer Table for Sample). The SSEMP will include the Health and Safety Management Plan and Emergency

[6] The Labour Code (1997) and the Occupational Safety and Health Act (OSH 2009) of Tajikistan

Response Plan, that will be prepared based on the risk assessment. The SSEMP will be submitted to the PIG and PIC for approval at least 10 days before taking possession of the work site, see Table 1[Sample] framework for Site-Specific Environment Management Plan. No access to the site will be allowed until the SSEMP is approved by the PIG.

Table 1: [Sample] framework for Site-Specific Environment Management Plan

Project activities	Impacts** /Location	Significance*	Mitigation measures	Responsibility	Timeframe	Tentative budget	Monitoring/reporting	Standard operating procedure ***

** Criteria for determining impact significance = Trigger acts or donor requirement, potential threat to lives, may trigger public protest or legal intervention or stoppage of work, the severity of the impacts (reversible or irreversible), etc.*

*** Magnitude of Impact or risk will be analyzed based on likelihood and consequence. After that, the contractor will suggest structural and non-structural risk treatment/management plans based on impact magnitude.*

*** **The contractor should design and develop SOPs based on:**

- On-site survey
- Inputs from EMP of the IEE report;
- Inputs from project construction schedule and consultation with PIG;
- Understanding potential hotspot areas (school, worship place, human settlement etc)
- Consultation and understanding of historical, archaeological, or site of cultural importance
- Consultation and understanding of local flora and fauna, including aquatic habitat
- Review of data on potential workforce to be engaged during construction and quantify resource requirement and waste generation
- Review of extend of health& safety requirement including labour camp
- Potential hazardous waste such as CFCs material in transformer and chemicals to be used
- Understanding potential design intervention
- Consultation with experts/engineers
- Review of similar project/sector-specific best practices

5. During construction phase, the contractor shall monitor, document and report the implementation of SSEMP to PIG on a monthly basis, and take corrective or preventative actions based on internal periodic inspections or recommendations as suggested by PIC/PIG.
6. Contractor will establish a Grievance Redress Mechanism (GRM) at the project site to address the aggrieved person's grievance (community and workers). The contractor will ensure to maintain the Grievance Redress Register, record the grievance on the same day, and take adequate corrective actions accordingly.
7. Contractor will establish a procedure for Information Dissemination (ID) for awareness creation before the start of Package CW2 to ensure (a) community awareness on project impacts and safeguards (b) grievance redress procedures. The public awareness activity must ensure and target poor and vulnerable groups including women in particular.

8. Contractor shall record the condition of project site, roads, surrounding land, and other infrastructure prior to starting to transport materials and construction; and fully restore pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.
9. Contractor shall report to PIG/PIC any actual or potential breach of compliance. The contractor must promptly inform PIG/PIC, if any unanticipated environmental and/or social risks and impacts arise during construction of the project that was not considered in the IEE report, the contractor must prepare detailed description of the event and proposed corrective action plan and submit to PIG/PIC for review and approval;
10. Contractor shall ensure implementation of Asbestos Management Plan, for detail refer to Asbestos Management and Asbestos Containing Material (ACM)
11. The contractor must ensure and appoint necessary personnel for implementing the safeguard compliances and Asbestos Management Plan. The contractor must include the appropriate budget for human resources and cost for implementing the mitigation measures within the financial proposal. The personnel to be appointed includes:
    (a) Environment Safeguards Officer (ESO) and Health and Safety Officer (HSO),
    (b) Trained Asbestos Supervisor (TAS)
    (c) Trained Asbestos Workers (TAWs).
    (d) Community Liaison Officer (CLO)

    Note: The contractor should identify and appoint suitably capable staff to be TAS and TAWs to be exclusively trained by International Environment Specialist (IES) and employed for the specialist asbestos abatement work; Environmental Safeguards Officer (ESO) and The Health and Safety Officer (HSO) will be responsible for site inspections on a daily and weekly basis to check and confirm the compliances with the approved SSEMP and ensuring implementation of all environmental, health and safety requirements. This will be documented and subject to monitoring by ALRI and PIG. A Community Liaison Officer (CLO) will interact and liaise between the local Hukumat authorities and PIG and establish the communications protocol between the project and communities as per the Project's communications plan. CLO will also ensure appointment of ESO, HSO, CLO, TAS and TAWs by sending a letter to PIG/PIC by confirming that these positions are occupied including all site related compliance.
12. Contractor shall monitor the ambient air, water and noise bi-annually, one before the commencement of civil activities and the second during construction of the project.
13. Contractor shall submit the monthly monitoring report to PIC on the implementation of site specific Environment management plan including GRM and Asbestos Management Plan. The detail reporting format shall be shared with contractor after signing of contract.
14. To ensure good sanitation and hygiene at the project site, the contractor shall make arrangements prior to commencement of civil works

(a) Supply of adequate drinking water
(b) Separate mobile or permanent toilets for workers with proper signage for both male and female workers
(c) Designated resting area cum dinning space for workers
(d) Separate bins for dry and wet waste collection and dispose as segregated waste
(e) Separate bathing area having provision for hot & cold water for male and female workers with proper signage
(f) Create a safe crèche area for the children of the workers engaged at the camp with a care-taker, if applicable.

If there is a requirement of a labour camp, the contractor shall provide following details to PIG/PIC for approval:

a) Types of structure, distance from nearest human settlement, room size, ventilation, and electricity for heating/cooling and essential appliances like lights, fans and plug points
b) Amenities - cooking place, lavatory facilities, bathrooms, drinking water supply
c) Health & hygiene - arrangement for sewage treatment, safe garbage disposal, sweeping, cleaning and sanitization, COVID-19 protection
d) *First aid and* provision for labour grievance

Contractor shall ensure that no worker or engineer/supervisor shall be allowed to work at site without wearing the safety equipment (PPE), this includes:

(a) Safety helmet,
(b) Safety shoes (with steel toes)
(c) Safety belt while working at height
(d) Safety jacket
(e) Gloves
(f) Safety glass during cutting
(g) Ear plug for noisy operation.

The contractor shall ensure availability of all required PPEs at the site and 10% spare PPEs and Safety equipment at site all the time including records for inspection.

(B) Contractor responsibility in managing Asbestos Containing Material (ACM)

The contractor shall appoint one capable and experienced person to receive training and become the TAS who shall be responsible for implementation of asbestos abatement on a daily and weekly basis to check compliance with the site specific asbestos management plan or approved AMP and ensuring implementation of all health and safety requirements.
The asbestos abatement shall be documented by the TAS and assisted by the ESO and subject to monitoring by ALRI and PIG/PIC. The TAS will be trained by the IES with at least 5 capable and experienced persons to perform tasks as TAWs who will support the TAS in the implementation of the AMP. The TAS and TAWs will be appointed in the early stages of mobilization to facilitate training by the IES.
The Contractor shall send a letter to ALRI/PIG confirming that these positions have been filled and by whom before mobilization is complete so that the necessary training can take place in a timely manner.

The responsibilities of the TAS under the Contractor include:

(a) Participate in training on asbestos management and AMP mitigation measures to be delivered by IES prior to preparation of the SSEMP including AMP;

(b) Working closely with all TAWs (minimum 5 TAWs) and IES during the training to ensure good knowledge transfer;

(c) Supervising at TAWs on a daily basis for asbestos abatement work;

(d) Coordinating with PIC (IES and NES) for preparing and submitting the SSEMP including asbestos abatement methods, the TAS will be responsible for ensuring that the contractor complies with the clauses in the bidding documents and contract in respect of asbestos management and safety;

(e) Seeking additional training and support from PIC on any aspects of asbestos management as required;

(f) Coordinating with Contactor and TAWs for the advance procurement of all materials and equipment required to implement the AMP correctly and adjust as necessary on site;

(g) As required, preparing, and submitting for approval, appropriate plans for in advance for asbestos management so that the necessary superior supervision and checking from PIG can be arranged;

(h) Undertaking daily and weekly site inspections, recording the same in a site diary and participating in monitoring and coordinating with PIG to ensure that asbestos management activities are reported in Monthly Progress Reports as required.

(i) All ACM in the non-serviceable in pumping stations in the Khuroson Valley, PS#26 and PS#6 (Rassvet) shall be removed as part of the abatement process. The ACM will be removed prior to any construction/renovation works. Removal of any ACM will be notified to PIG/PIC.

(j) TAS shall be accountable and restrict unauthorised entry except asbestos abatement staff including Trained Asbestos Workers (TAWs) for the duration of the removal works (if removal works are required). **A detailed site specific plan for ACM containing material will be provided in updated AMP, which shall be shared with contractor after signing of contract.**

(k) The ACM will be removed using methods in line with the code of practice presented in the updated AMP that is for removal of low-risk ACM and ACM discovered in the system or buildings and support infrastructure that will be removed using methods in line with an updated AMP

(l) The Contractor and TAS will be totally responsible for completing the asbestos abatement within the given time frame. It is anticipated that a minimum of 5 competent TAWs in various trades would be employed over the whole abatement period. The PIG-ES will control and monitor the work progress of the TAS. The TAS will be full-time and will be required to assist the PIG-ES and civil contractor regarding safety and health of the site personnel and to keep the necessary records.

(m) The necessary permissions from PIG-ES will be obtained before any work is permitted in locations known to contain ACM are commenced. PIG-ES will record these permissions in the ACM Register. A minimum of one-week advance notice will be given to the PIG-ES to obtain the necessary written permissions and commence the work on the site

(n) Before commencement of work, the contractor shall make available all the materials for the management of ACM containing materials such as

- (a)Transparent plastic sheeting (0.15mm thickness low density polythene, B.S.4932:1973/equivalent)
- (b) Duct tape / reinforced adhesive tape)
- c) Spray adhesive
- Wetting agent, 50% polyoxymethylene ester and 50% polyoxymethylene ether ***or equivalent***
- Water based polyvinyl acetate solution (PVA) to bind traces of asbestos fiber which may remain on exposed surfaces
- Lifting appliances, must comply with Comply with the local construction sites safety regulations
- Ladders and scaffolds
- Face Masks for low-risk work and Respirators for higher risk work with ACM)
- Protective clothing
- Additional stocks of all materials: polythene sheeting, wetting agents, spray adhesive, PVA lock down, face masks
- Designated buffer storage area for storage of ACM containing material prior to transportation, it shall be completely separated from the other areas of the site by means of close-boarded timber hoarding and weatherproof roof with a lockable door to be approved by the PIG-ES or other alternative for safe onsite storage of ACM material is in steel container used for transportation of freight, See Figure 1

Figure 1: Alternative option for safe storage of ACB material



The details Site Specific Asbestos Management or updated AMP shall be provided to contractor after signing of contract.

For detail on Asbestos Management, the civil contractor should also refer to the ADB's Good Practice Guidance for the Management and Control of Asbestos:

Protecting Workplaces and Communities from Asbestos Exposure Risks - Guidelines for Asbestos Management
https://www.adb.org/sites/default/files/publication/783636/good-practice-management-control-asbestos.pdf

Annexure 9: Completion Report - Package CW4

Completion Report - Package CW4

Project Number: 53109-001
July 2023

Climate and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project (CDRIDM)

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1. Introduction

1. The Project titled "Climate- and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project" is the first gender equity-based Irrigation and Drainage (I&D) investment of the Asian Development Bank (ADB) in the Republic of Tajikistan. The Project will enhance climate resilience and water productivity and improve the income of female and male farmers by modernizing the selected areas of the Yovon I&D system located in the Khatlon Province of the lower Vakhsh River basin.

2. The Project is also aligned with the Tajikistan National Development Strategy 2030, which emphasises on improving food security and people's access to good quality nutrition, the detail of Project is summarized;

Table 1: Project Details

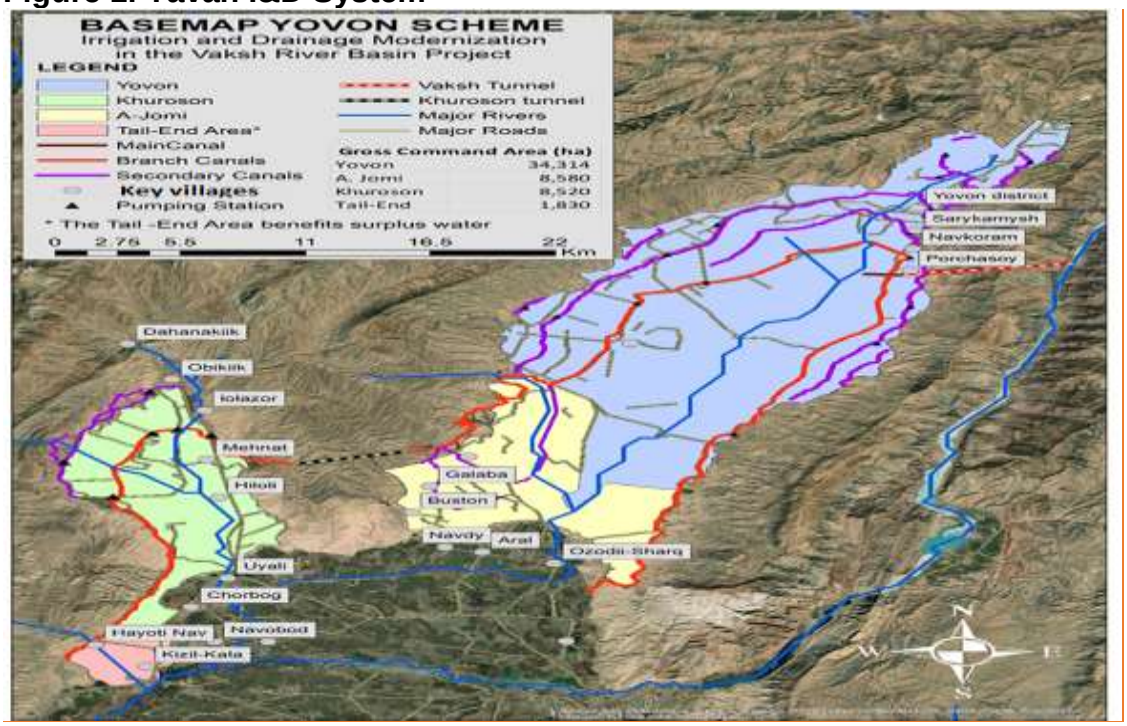
Name of Project	• Climate-and-Disaster Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin
Project category	• The Project is classified as Environmental Category B under ADB's Safeguards Policy (SPS-2009)
Total project coverage	• The Project area covers 40,355 ha, of which 23,626 ha (59%) is gravity supplied, and 16,729 ha (41%) is supplied with cascades of pump systems lifting water.
Project beneficiaries	• WUAs, Communities living in the project area
Cost of the Project	• ADB Grant No 0810-TAJ(SF)- 30 000 000 USD • GoT Contribution- 5 172 004 USD
Project duration	• January 2022 - June 2027
Project executing agency	• Agency for Land Reclamation and Irrigation under the GoT
Project implementing agency	• PIG under the SI "Capital and Land Reclamation Construction" of the Agency for Land Reclamation and Irrigation under the GoT
Project Implementation Consultant (PIC)	• SMEC International Pty Ltd in a joint venture with BARS Consulting Ltd
Involuntary displacement (if any)	• No
Project Impact	• Food security and improve people’s access to good quality nutrition,” aligned with the Tajikistan National Development Strategy 2030.
Project Outputs	• Strengthen water productivity and farmer’s incomes • Strengthen capacity of the Agency for Land Reclamation and Irrigation (ALRI) • Strengthen the capacity of Water Users Associations (WUAs) on infrastructure management and water use efficiency. • Inclusion of women’s farmers in all activities. • Improve climate and disaster resilience,

3. The Yovon scheme's I&D facilities were built in stages, from the mid-1960s to the early 1980s and have been badly deteriorated over the 50 years of service. Some parts of the I&D systems have reached the end of their design life, and some sections have been abandoned. Due to the modernisation of prioritized components

of the Yovon I&D system, it is expected that some 9,600 farmers, of whom 20% are female, will benefit from improved water service delivery, energy savings and application of climate-smart technologies. The Project also aim to strengthen the capacities of the Agency for Land Reclamation and Irrigation (ALRI) and water users associations (WUAs) on infrastructure management and water use efficiency.

4. The strengthening of the I&D systems is carried out by introducing (i) climate- and disaster-resilient modernization of prioritized I&D infrastructure, (ii) streamlined institutions and systems for effective planning, operation and maintenance (O&M); and (iii) strengthening policies and strategies to address gender equality and enhance women's participation in land and water management.

Figure 1. Yavan I&D System



1.1 Preamble

5. The report herein is referred to as the "**Completion Report - Package CW4**" and was prepared after the completion of the Project.

Post-construction audit reports of Package CW4 highlight the works undertaken and the status of Environmental compliance, such as;

- Environmental safeguard activities were undertaken during the construction period,
- Status of site inspection and training,
- Site restoration
- Safeguard finding after completion of CW4
- Lesson learned,

2.0 Package CW4 Details

6. The Project is classified as a category B project as per ADB's Safeguards Policy (SPS-2009) and consists of 5 civil works packages; each Package is divided into lots; for detail of each Package, refer to Table 2 and will be taken or constructed in a phase-wise.

Table 2: Details of Lots under each Package

Name of Package	Lot
CW1	Lot1: Upgrading and modernization of Main (0.6km) and Right Branch canal 85 km, inspection roads, and Secondary Canal, PL4, 4.5 km; Lot 2: Construction of two bypass channels and Sturchasoi siphon; and Lot-3 Buffer strip and riverine area development and Precision land levelling
CW2	Modernization of Pumping Stations and renovation of a mechanical workshop in the Khuroson District Lot 1: Modernization of pumping station Rassvet no. 6 Lot 2: Modernization of pumping station Rassvet no. 6 Lot 3: Renovation of mechanical workshop with installation of equipment
CW3	Modernization of Tertiary Irrigation & Drainage Systems (buried pipes)
CW4	Rehabilitation of Office Buildings of two PIOs
CW5	Lot 1: Construction of new Office UWUA building with training zone. Lot 2: Rehabilitation of Bahoriston Canal single

7. Of the total five packages, package CW4 has been completed in 2022-2023. The implementation of Package CW4 involves the rehabilitation and construction of two offices of PIG;
(a) Reconstruction of the existing building in Yovon district
(b) Construction of New PIG office in Khuroson district.
The construction of both office buildings was a part of the implementation of the Project titled "Climate and Disaster Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin".

2.1 CW4 Project Location

8. The CW4 package is located in two districts, as follows;

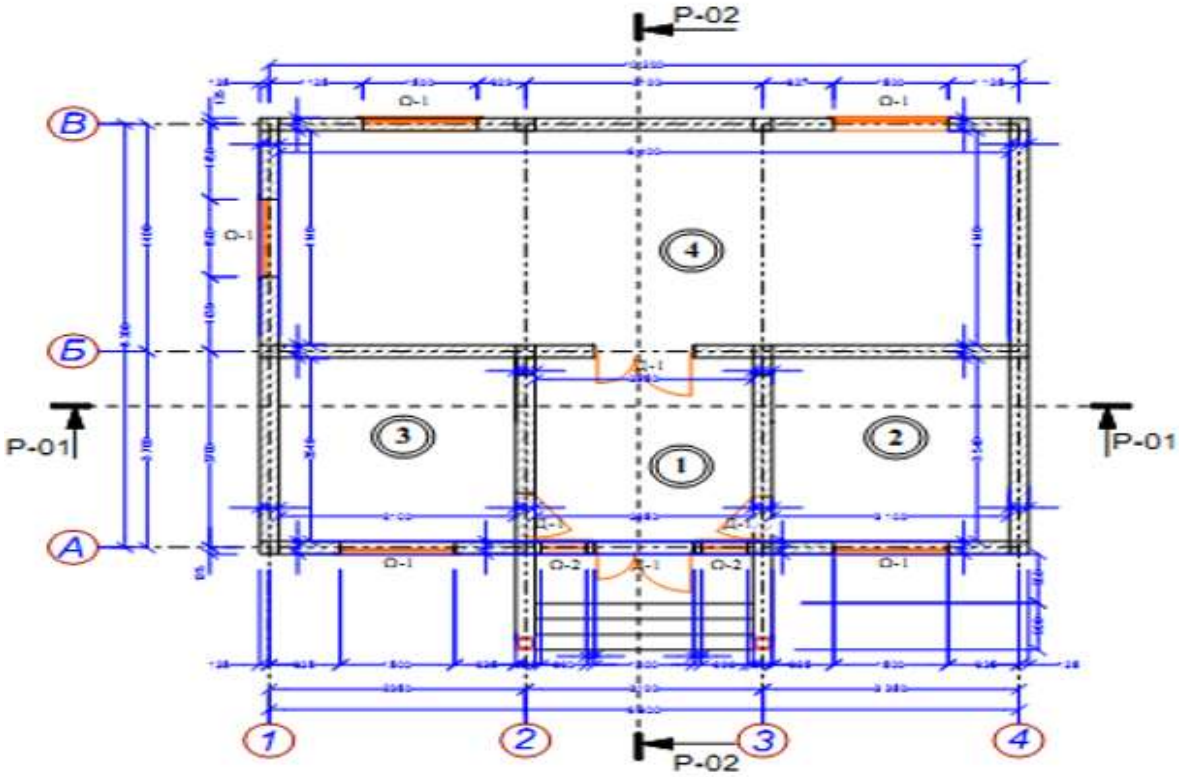
(a) Construction of a new building for PIG office – situated in Khatlon region, Khuroson district, v/s Galaabad , Sabzazor village, Rassvet pumping station 6. (38.057196 latitude; 68.641016 longitude), See Figure 1, Comparative view of the PIG office building before and after construction.

Figure 2. Comparative view of the PIG office building before and after construction in the Khuroson district



2022 2023

Figure 3: Drawing of the rehabilitated part of the building for the PIO office in Yovon



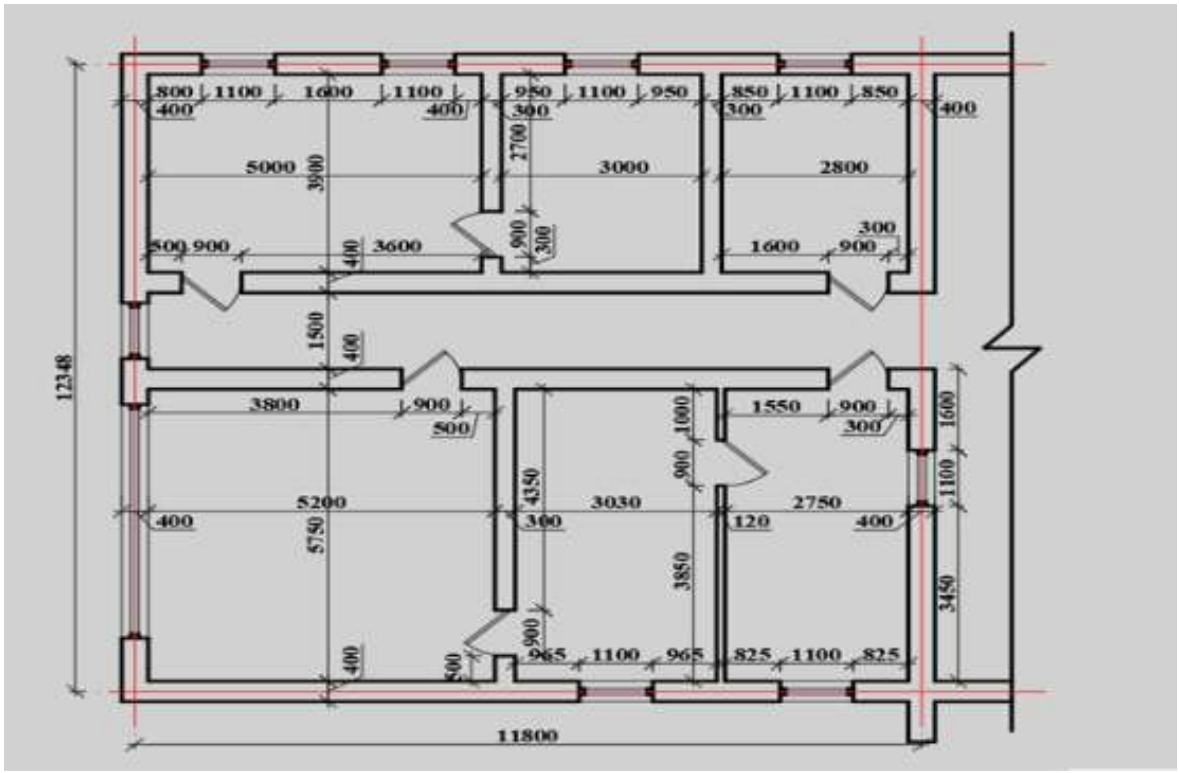
(b) **Reconstruction of the existing building for the PIG office** – situated in Khatlon region, Yovon district, Yovon city, Mirzoev street . 4/1, the building of the State Department of Land Reclamation and Irrigation of Yovon district. (latitude 38.294984; longitude 69.045294), see Figure 2, Comparative view of the PIG office building before and after construction.

Figure 4, Comparative view of the PIG office building before and after construction in the Yovon district



2022 2023

Figure 5: Drawing of the rehabilitated part of the building for the PIO office in Yovon



9. At both project sites, there were no forests, critical or natural habitats, and indigenous people were present. Based on the observation, the air quality in the project area was generally acceptable due to the rural situation, minimal traffic and lack of industrial sources of pollutants.

3.0 Environmental and Social Impacts of Package CW4

10. The environmental impacts of construction of office buildings in Package CW4 were limited and localized, and temporary in nature, See Table 3 for more details

Table 3: Summary of Environmental impacts due to Physical intervention in Package CW4

Title	Lot	Physical	Environmental and social impacts

		intervention	
CW4	Rehabilitation of PIG office buildings in the Yovon district	Rehabilitation of office buildings includes construction works such as renovation of existing premises, plastering, tiling, woodwork, interior painting, electrical wiring, etc.	• Small site, localised environmental and social impacts • No land acquisition and no impacts on the immediate surroundings due to construction activities; • Health and safety impacts were confined and restricted to the work site. • No requirement for labour camps during construction, • Limited construction material requirement, hence, a need for heavy transportation was limited and caused minimal public inconvenience. • Limited solid waste generation, such as construction and demolition waste, empty cement bags, wood scraps and tiles. • No Asbestos containing materials were found.
	Construction of the new office building of PIG in the Khuroson district	Construction of office buildings includes civil works like concreting, laying, plastering, tiling, wood works, exterior and interior painting, electrical wiring, etc. Drawing of the Khuroson PIG office See. Figure 3,4.	-do-

3.1 Environment safeguard Professional for safeguard monitoring

11. For Environmental safeguards and to ensure compliance with the site-specific Environment Management Plan, followings were the experts undertook site inspection and accountable for safeguard compliance;

Table 4: Environment Professional

Environmentally Sensitive Personnel	Allocated man month	Date of assignment	Name
PIG Environmental Safety Specialist	Full time	August 1, 2022	Romiz Gafurov
International PIC environmental specialist (including asbestos management)	4 months	December 1, 2022	Sujit Kumar Singh
National PIC environmental specialist (including asbestos management)	30 months	October 1, 2022	Alikhon Latifi

12. The table below enumerates a detailed chronology of Package CW4. During the construction of CW4, there was no change in the design and agreed construction methods.

Table 5: Chronology of Package CW4

Activities	**Date**	
	Rehabilitation of the PIG office in Yovon	**Construction of PIG office in** Khuroson
ADB grant signed	31.12.2021	
IEE reported prepared	August 2021	
Environment approval	Committee for Environmental Protection (CEP) of the Republic of Tajikistan. (Letter No. 118-15, dated 28 January 2022) approved the application and granted Environmental Clearance for the entire Project	
PIG submitted design	1.09.2022	1.09.2022
PIG approved	5.09.2022	5.09.2022
Approval from the design centre	N/A	N/A
Tender for the Project	16.09.2022	16.09.2022
Contractor signed the contract	18.10.2022	18.10.2022
SSEMP submitted	25.10.2022	15.11.2022
SSEMP approved	30.10.2022	30.10.2022
Name of contractor	JSC «Tojmekhanizm»	JSC «Tojmekhanizm»
Construction started	15.11.2022	15.11.2022
Number of site inspections conducted during the construction period	6 (this also includes reconnaissance survey and completion audit)	4
Number of training conducted	1 comprehensive training + 3 site induction in each site visit)	1 extensive training + 3 site induction in each site visit)
Date of completion of construction	February 2023	February 2023
Restoration of site	Done	Done
Completion certificate issued	In process	In process

3.2. Package CW4 - Status of Routine Site Inspections

13. The national and international environmental specialists conducted six site inspections during the CW4 construction; see table below. The objective of the site inspection was to ensure

- Compliance with environmental laws and regulations
- Assess the Implementation of SSEMP
- Monitor the effectiveness of implemented mitigation measures
- Ensure safe and accident-free working conditions
- Taking necessary measures when unforeseen impacts occur**,**

Table 6: Status of Site Inspection

Inspections	**Date of inspection**	**Team composition**	**Remarks**
Reconnaissance Survey	30th November 2022	Sujit Kumar Singh Romiz Gafurov Alikhon Latifi	To understand potential Environmental and Social issues and get familiarity with the project site
Site inspection	14th December 2022	Sujit Kumar Singh	Verification and

		Romiz Gafurov Alikhon Latifi	Compliance audit
Site inspection	24th January 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	6th April 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	4th May 2023	Romiz Gafurov Alikhon Latifi	Verification and Compliance audit
Site inspection	6th June 2023	Sujit Kumar Singh Romiz Gafurov	Verification of completion of both PIC

3.3 Summary of Inspection finding at PIG office in Yovon

14. The summary of the site inspections is described under three headings

(a) Good practice noted during the inspection

(b) Impacts of Site Inspection

(c) Lesson learned from Package CW4, for detail, *see section 8, Lesson learned*

(A) Good practice noted during the inspection at PIG office in Yovon

(o) Practice kitchen waste segregation – use two dustbins to segregate dry and wet waste. The wet waste was used for cattle feed, and dry waste was sold to a recycler.

(p) Designated place for construction materials, and stored outside the building,

(q) Site has a bathroom facility for bathing, both hot and cold available for workers.

(r) Installed two fire extinguishers.

(s) Onsite handwashing facility for worker for hand hygiene

(t) Site has a separate kitchen with dining space for workers.

(u) Overall, housekeeping was satisfactory

(v) Provision for septic tanks for wastewater treatment

View of fire extinguishers	Dining space for workers
	
Segregation of dry and wet waste	Onsite handwashing facility for worker for hand hygiene

	
Separate dining hall for worker	Onsite shower facility for bathing
	

(B) Impacts of Site Inspection

(a) A separate toilet facility was available for men and women, but no signage; further, hygiene was also below satisfactory. After intervention by safeguard specialists, sanitation improved, and male & female signage was put on both toilets (see picture)

Poor sanitation inside existing toilets and no signage for male and female workers	Improved sanitation, signage for male and female workers



(b) During a site inspection, the inspecting team noted that the plywood/tiles cutting was noisy and dusty, and none of the workers wore masks and using earplugs. After intervention by safeguard specialists, in a follow-up inspection, workers shifted the entire cutting operation to the open and started using masks to avoid inhaling cutting dust;
(c) Initially, the First aid box was absent; after intervention by safeguard specialists, the contractor arranged a first aid box



After recommendation, contractor put first aid box

(d) During the initial stage of project construction, it was noted that most workers were not wearing helmets. Considering the seriousness of the issue, a safety talk was conducted onsite for the worker, since then, workers started wearing helmets and using body harnesses while working at height;

 Worker without jacket	 After ours intervention started using jacket

(e) Initially, workers were not provided with standard safety shoes and appropriate helmets (helmets without head strips). After intervention by safeguard specialists, the contractor replaced the boots and helmet.

 Inappropriate helmet (without strip) at the beginning of the project	 Corrected after intervention

(f) For working at height, safety belts were available for workers; however, workers were not in the habit of wearing a safety belt; after our onsite safety talk/training, workers started wearing safety belts.



(g) Initially safety manual was unavailable at the site; after intervention by safeguard specialists, the contractor put a safety manual, see picture



HSE information board

(i) Initially, the site did not maintain a labour grievance register; after intervention by safeguard specialists, the contractor put a GRM register



Complaint log

(j) Except for minor cuts or injuries, no life-threatening injuries happened, such as falls from height, severe cuts, fractures, head injuries, lacerations, and electrical shock

(k) No ACM containing materials were found during site survey

3.4. Summary of Non-compliance and rectification during PIG office construction at Khuroson district

15. The summary of site inspection as well as corrective taken by contractor, are summarised below;

- Some delay in SSEMP implementation at PIG office in the Khuroson district
- Initially, no resting room was available at the site; after intervention by safeguard specialists, resting space was created for workers, including arrangement of hot plate for heating food and tea making.

Resting area for worker	Space for heating food and tea making.
	

- After intervention by safeguard specialists, contractor provided (a) first aid box (b) Fire extinguisher (c) Gumboot to a worker engaged in concrete work.

- An onsite toilet was unavailable throughout the construction period; workers were using a toilet constructed by the brick industry situated 20 meters away from the site.

3.5 Training Status

16 During each site inspection, a regular short safety instructions training /safeguards talks were conducted by PIG/PIC safeguard specialist in Yovon and Khuroson districts. The primary purpose of the short training was to improve site safety and create awareness among workers on (a) Environmental good practices (b) Reduce workplace hazards. The detail of the training is summarized in Table 7A & 7B.

(a) Composition

Following were the key trainers who had imparted training to workers and onsite PIG staff.

(a) Romiz Gafurov PIG Environmentl Safety Specialist
(b) Sujit Kumar Singh, International PIC environmental specialist
(c) Alikhon Latifi, National environment

Table 7 A: Environment, health and safety trainings for workers

Date	Location	Topic / Objective	Team composition/ Trainers	Participants	Benefits
14 Dec 2022	**Package CW4 -** Construction site in Yavan district Kuroson district	• General site specific environmental and safety issues • Personal protective equipment (PPEs) and their use • COVID-19 • Working at height, welding, and electrical safety • Complaint procedure	• PIG environment specialist, Romiz Gafurov • International environmental specialist, Sujit Kumar Sing (trainer) • National environmental specialist, Alikhon Latifi Mahmadzhon Saidov • Farhod Saidov (Mechanical Engineer)	**Project Site at Khuroson district** - Training was attended by 6 (six) employees of CW4, 5 (five) employees of Pumping Station Rassvet-6, and 1 (one) PIG engineer at the site. **Project Site at Yavan district** - There were also 9 (nine) employees of CW4, 1 (one) cook, and 1 (one) PIG engineer from Yavan district.	Participants gained knowledge on: General environmental issues such housekeeping, waste segregation, sensitization on health impact of air pollution, importance of signage board. Importance of use of PPE (helmets, mask, gloves, safety shoes, safety belt). "COVID-19" protection measures while working at site Safety precautions while working at height, during welding, cutting and electrical work. Importance of complaints register and types of complain workers can lodged in register, such as related to working condition, PPEs, water and toilet facility at site, wage, weekly off etc. Regarding community complain, trainer ask site manager to inform local public about grievance register, fix signage board at site detailing name and phone number of person who handle grievance.

Table 7B: Training on Environment Safeguards and GRM

Date of training	Thematic area	Stakeholder	No of participants	Trainers	Remarks
5th June 2023	Environment Safeguard Compliance	PIG/PIC staffs	23 officers	Sujit Kumar Singh (IES)	Participants were trained on ADB safeguard compliance requirement including provisions stipulated in PAM and IEE
5th June 2023	Open discussion "Management of Canal De-silting Material	PIG/PIC staffs	23 officers	Sujit Kumar Singh (IES)	It was an open, participatory discussion to seek opinions on how best the project could manage the canal's de-silted material. The participants came out with good ideas, such as options of filling low-lying areas close to a canal or potentially using them for filling gullies locally etc.
20th May 2023	GRM	Jamoats of three districts	9 head of Jamoats participated in the training	Mr. Romiz Gafurov, Environment Specialist of PIG Mr. Alihon Latifi, Environment Specialist of PIC	The objectives of training was (a) aware Jamoats regarding GRM and its significance (b) community outreach in three districts
16 & 17th May 2023	Environmental and Social aspects and its management	Representatives of state bodies	Representatives of state bodies - 15 participants from Yovon, 18 participants from Jomi district & 5 participiants from Khuroson district	Mr. Romiz Gafurov, Environment Specialist of PIG Mr. Alihon Latifi, Environment Specialist of PIC	Objectives was to create awareness on environment and social issues

(b) Impact of training

- Contractor replaced non-striped helmet with a standard helmet
- Standard hard safety shoes were provided to the workers
- Workers agreed to use safety belts while working height; the same has been confirmed in follow-up inspection.
- Housekeeping were improved at both site

International & PIG Environmental Specialist imparting training to workers








4.0 Post Construction – Site Rehabilitation

17. At both project sites, the temporary areas were restored at least to their pre-project condition after completion of civil construction. The project construction debris was removed, the ground was levelled, and new samplings were planted.

<table>
<tr><td colspan="2">PIG office building before and during construction in Khuroson district</td></tr>
<tr><td></td><td></td></tr>
<tr><td colspan="2">Complete restoration of areas</td></tr>
<tr><td>No plantation during construction phase</td><td>New sapling planted – after construction</td></tr>
<tr><td></td><td></td></tr>
<tr><td>Construction material storage area</td><td>Entire areas restored after construction</td></tr>
<tr><td></td><td></td></tr>
<tr><td>During construction stage – materials stored in the</td><td>Restored areas after construction</td></tr>
</table>

corridor	
	

5. Package CW4 - Post-project Compliance of Construction Works

18. Few observations during the last site inspection at PIG offices situated in Yovon and Khuroson district area;

- All temporary areas were restored
- Improved housekeeping
- Install water connection
- New toilets were constructed with a septic tank
- Initiated planation

Figure: Photograph of completed PIG offices situated in Yovon and Khuroson district

Front view of PIG office building at Yovon district	Plantation at entrance of PIG office building
	
Inside view of PIG office building at Yovon district	

	
Separate bathroom with toilet facility	Toilet with separate septic tank
	
Front view of PIG office building at Khuroson district	Inside view of PIG office building at Khuroson district
	
Newly constructed toilet in PIG office building	View of septic tank (under construction)
	

6. Summary

19. Both PIG office buildings were small and triggered no land acquisition. Hence, the physical and economic displacement, including the impact on flora and fauna, were negated.

(a) Both sites did not require significant construction material, including deployment of heavy construction equipment. Transportation of construction materials was less; therefore, there were no considerable dust emissions during the civil work; hence, public inconvenience, road safety, and traffic congestion were also negated.
(b) As both PIG buildings were small, the instrumental measurements, such as monitoring of water quality, air quality, and noise parameters, were not included in the SSEMP for constructing PIG office buildings in the Yovon and Khuroson districts.
(c) In both PIG buildings, no Asbestos Containing Material (ACM) was found. Hence, Asbestos Management Plan does not trigger.
Environment and Social impacts due to labour camp was also negated as labours at both sites were local.
(d) There were no major non-compliances noted during the reporting period. However, minor inconsistencies were found at the beginning of construction, especially the need for appropriate PPE, a grievance register at the site, training, housekeeping etc. These issues were discussed and rectified with the contractor.
(e) Except for minor cuts, no accidents or fatalities were reported from both sites during the reporting period.
(f) No complaints were received from the population and interested parties during the reporting period.

7. Limitation

20. Safeguard specialists had to put lots of effort into ensuring SSEMP compliance as small contractors engaged at both sites were local, having limited capacity and resources.
21. Delays in the appointment of international environmental specialists also impacted site compliance initially.

8. Lesson learned from Package CW4

22. In future, if a local contractor is engaged, then bid/contract document must provide a detailed framework for preparation of SSEMP.
23. Contractor must prepare a legal register, which contains a summary of all Acts/Rules/guidelines, including donor safeguard commitment applicable to subprojects and auxiliary activities.

24. In a monthly report, the contractor must provide

(a) Safeguard compliance status on clearance/permit/ No-objection certificate obtained under different statutes of Tajikistan. If there is a delay, the reasons for the delay to be specified.
(b) In a monthly report, the contactor must provide information on (a) local employment created (b) about GRM dissemination mechanism, the number of

people they have informed, the number of grievances registered and cases resolved

(c) In-house training detail such as number of people trained, training topic, and duration of training.

25. Status of corrective actions for minor and major non-compliance
26. Frequency of site inspection should be more frequent during the initial period of civil intervention in each package.
27. In case of non-compliance, the contractor must submit a time-bound corrective action plan.
28. Contractor must maintain a record of inventory of PPEs and share detail with PIG/PIC on a monthly basis
29. Both PIC/PIG, including contractor, must record and document the condition of roads, agricultural land, temporary land and other infrastructure so that site restoration is planned once the work is over.
30. In SSEMP, PIG/PIC must ensure that contractor submit plan for Information Dissemination (ID) for creating awareness amongst the workers and local communit
31. Based on CW4 experience, during initial phase, the contractor is required more training and handholding particularly on Environment safeguards, occupational health and safety, SSEMP implementation etc.
32. For safeguard compliance, the contractor must appoint qualified personnel for implementing Site-Specific Environmental Management Plan. The contractor must estimate and include all necessary costs into their financial proposal at the time of bidding (a) for human resources, (b) cost required to implement the safeguards measures in line with the national and the donor compliance requirements.
33. Both PIG/PIC staff must follow Environment, Health and Safety (EHS) Travel Plan for undertaking surveys, field Investigations and site inspections. PIC/PIG experts are constantly being exposed to physical, environmental, health and safety risks, such as (a) travel/road risks (b) theft (c) extreme weather (d) stomach upset/vomiting, (d) Insects bite including the risk of downing and so on. In this regards, PIG in consultation with PIC prepared EHS Travel Plan for undertaking surveys and field Investigations, it must be strictly adhered, documented and reported in semi-annual environment monitoring report.

Annexure 10. Environmental monitoring protocol for post construction period

Environmental monitoring protocol for post construction period

Final Environmental audit check-list on completed construction works
Проверочный лист по экологическому аудиту завершённых строительных работ

Project Проект	Climate- and Disaster-Resilient Irrigation and Drainage Modernization in the Vakhsh River Basin Project Проект модернизации ирригационных и дренажных систем, устойчивых к изменению климата и стихийным бедствиям, в бассейне реки Вахш.	Executing Agency Реализующее Агентство	PIG, Agency for Land Reclamation and Irrigation (ALRI)
		Consultant Консультант	Alihon Latifi, BARS Consulting, Environmental consultant
Site Участок/	Lot CW 4. Rehabilitation of Office Buildings of two PIOs	Contractor Подрядчик	JSC "Tojmechanizm"
Date, time: Дата, время		ФИО и должность специалиста, проводящего инспекцию	Gafurov Romiz-PIG Environmental Specialist

№	Type of works Вид работ	Impacts Воздействия	Mitigation measures according EMP/SSEMP Мероприятие(-я) согласно ПУОС/ПУОСОУ	Control Контроль	Measures conducted Выполненные мероприятия	Comments/recommendations (if any) Комментарии/Рекомендации
1	Project site vegetation rehabilitation(re-vegetation) Реабилитация растительности на участке	Change of land cover, erosion resulting from the construction activities Изменение растительного покрова, эрозия в результате строительных работ	Plantation and vegetation measures(trees, grass, etc) Посадка и восстановление растительного покрова (цветы, трава и др)	Yes Да	Grass and flowers were planted in leveled areas where needed Трава и цветы были посажены в необходимых участках	Grass and flowers will be planted in leveled areas where needed every spring Трава и цветы будут посажены на необходимых участках каждую весну
2	Wast management Управление отходами	Wast accumulation, air & soil pollution Накопление отходов, загрязнения воздуха	Collect and disposal all wastes on construction location Remove all debris Сбор и утилизация всех отходов на выделенных местах Удалить строительный мусор	Yes Да	Municipal solid is utilized in accordance with enterprise All construction debris removed Муниципальные твёрдые отходы были утилизированы соответствующим предприятием Весь строительный мусор удалён	
3	Remove disabled equipment Убрать непригодное оборудование	Housekeeping matters Вопросы по благоустройству территории	Contractor equipment and machinery removed Оборудование и техника подрядчика удалены	Yes Да	Contractor equipment and machinery were removed Оборудование и техника подрядчика удалены	
4	Clean the construction site Очистить строительный участок	Issues of site improvement Вопросы по благоустройству	Territory cleaned and brought to site environmental condition Территория очищена и приведена в безопасное экологическое состояние	Yes Да	Territory was cleaned and brought to site environmental condition Территория была очищена и приведена в безопасное экологическое состояние	
5	Sanitary and hygienic conditions Санитарно - гигиенические условия	Domestic and wastewater discharges as a result of human, construction and operational activities will have impact on the environment	The septic tanks and toilets build meeting the requirements Септики и туалеты построены в соответствии требованиям	Yes Да	The septic tanks and toilets were built according the requirements Септики и туалеты построены в соответствии требованиям	

Audited sites:

PIG offices in Khuroson and Yovon districts

Prepared by Saidov L — **JSC "Tojmechanizm" HSE specialist**

Approved by Kayumov R — **BARS Consulting, Deputy Team Leader**

Cheked by Alikhon Latifi — **BARS Consulting, Environmental specialist**

Approved by Gafurov R — **PIG, Environmental specialist**

Approved by Gadoev Sh — **PIG, Project Manager, Yovon District**

Approved by Ashurov K — **PIG, Project Manager, Khuroson District**

VIII. PHOTO DOCUMENTATION

View of Yowon PIU office during renovation	View of Yeowon PIU office after renovation
	
Construction work of the PIU office in the Khuroson district after completion	
	
Discussion of Environmental and Social issues at the PIU office in Yawan	Training on on GRM in A. Jomi district
	
Training to Jamoat on GRM	Handing GRM book to the Chairman of the Jamoat
	

View of Safeguard specialist explaining the GRM framework





Inside view of Khuroson district PIU office after construction



New Sampling planted out PIG office in Yovon district

