Environmental Monitoring Report

Semi-annual Report
Project Number: 4050069-001
Grant Number: 0622 and 0976
September 2026

Tajikistan: Reconnection to the Central Asian Power System Project

Grant Number: 0622

Package 1: Construction of Transmission Line 500 kV, upgrade of high-voltage substation equipment, relay protection, telecommunications and SCADA, and Fibre-Optic Cables installation.

Package 2: Upgrade of the Emergency Automation System.

Grant Number: 0976

Package 1: Construction of Transmission Line 500 kV, upgrade of high-voltage substation equipment, relay protection, telecommunications and SCADA, and Fibre-Optic Cables installation.

Amendment No. 5: Design, Supply, Installation, Testing and Commissioning of new 500kV Overhead Transmission Line (OHL) between the New Syrdarya substation (Uzbekistan) and Sughd (Tajikistan) substation and two new 500 kV line bays at both sides

Prepared by the State Establishment «Project Management Unit for Electro-Energy Sector» (SE «PMUEES») for the Executing Agency Open Joint Stock Company «Barqi Tojik» (BT)

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CURRENCY EQUIVALENTS
(as of July 1, 2026)

Currency unit	–	Somoni (SM)
SM1.00	=	$0.1081
$1.00	=	9.25 SM

ACRONYMS AND ABBREVIATIONS

ADB	Asian Development Bank
CT	Current Transformer
CAPS	Central Asian Power System
EMP	Environment Management Plan
EMS	Environment Management System
ERS	Emergency Response System
GRC	Grievance Redress Committee
FAT	Factory Acceptance Test
H&S	Health and Safety
HIV/AIDS	Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome
HPP	Hydro Power Plant
IEE	Initial Environmental Examination
IFC	International Finance Corporation
LLC	Limited Liability Company
OSHC BT	Open-Stock Holding Company Barqi Tojik
OHTL	Overhead Transmission Line
PRC	People's Republic of China
PCBS	Polychlorinated Biphenyls
PIC	Project Implementation Consultant
PAC	Public Awareness Campaign
PIEE	Proxy Initial Environment Evaluation
PMUES	Project Management Unit for Electro-Energy Sector
SCC	Special Contract Conditions
SEE	State Ecological Expertise
SE PMU	State Establishment Project Management Unit for Electro-Energy Sector
SAEMR	Semi-Annual Environmental Monitoring Report
SPS	Safeguard Policy Statement
SS	Substation
STD	Sexually Transmitted Diseases
TJS	Tajik Somoni
VT	Voltage Transformer
WB	World Bank

NOTE

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SUMMARY PROJECT INFORMATION

GENERAL INFORMATION	
Project title:	**Reconnection to Central Asian Power System Project**
Date of project effectiveness:	21 December 2021
Executing agency:	Open Joint Stock Holding Company Barqi Tojik (OJSC BT)
Implementing agency:	Project Management Unit for Electro-Energy Sector (PMUES)
PMO (name of agency):	Barqi Tojik (OJSC BT)
PMO Environment Officer (name, email):	Mr. Sirojidin Karimov
Loan implementation consultant / firm:	
LIEC:	Mr. Firuz Safarov
Construction supervision company:	GOPA Tech
Contractor(s):	TBEA Company Ltd. (Package 1 of Grant 0622 and 0976) Consortium JSC "Tojikgidroelectromontaj" - Tajikistan and LLP "DS Group" (Package 2 of Grant 0622)
ADB web link to EMP:	https://www.adb.org/sites/default/files/project-documents/52122/52122-002-iee-en_0.pdf
Domestic web link to EMP:	www. barqitojik.tj

ENVIRONMENTAL SAFEGUARD MONITORING	
ADB environment safeguard category:	B
Environmental report prepared as per ADB requirements for this category:	Initial Environmental Examination (IEE)
Domestic safeguard report:	Initial Environmental Examination (IEE)
Quarterly period covered by this report:	01 January 2026 to June 30, 2026
# EMRs to date including this report:	13
Agency/person responsible for internal* environmental monitoring:	GOPA Tech / Mr. Kostas Batos, Mr. Askar Abduvaliev
Agency/person responsible for external* environment monitoring:	
Agency/person responsible for compliance* environment monitoring:	PMUES / Mr. Sirojidin Karimov
Agency/person responsible for independent compliance* monitoring:	
Overall status of environmental safeguards:	On track

ADB = Asian Development Bank, EMP = environmental management plan, EMR = environment monitoring report, LIEC = loan implementation environment consultant, PMO = project management office.
*See Section III.3 for definitions of internal, external, compliance, and independent compliance monitoring.

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EXECUTIVE SUMMARY

1. **Overview.** The purpose of this environmental monitoring report (EMR) is to describe and assess progress for implementation of the environmental management plan (EMP) for the Reconnection to the Central Asian Power System Project, for the reporting period 01 January 2026 to 30 June 2026. This EMR (No. 13) is submitted in compliance with the Safeguard Policy Statement (SPS)[1] of the Asian Development Bank (ADB) and the loan agreement between ADB and the project executing agency.

2. The Project objective is to ensure the power exchange of Tajikistan with Uzbekistan and the reconnection of Tajikistan with the Central Asian Power System (CAPS). The Project provides for the complete restoration and reconnection of the Tajik power system with Uzbek power system. This means the restoration of parallel operation of the Tajik energy system with the regional one, from which Tajikistan has been cut off in 2009. Within the Project framework, in order to synchronize the electrical networks of Tajikistan and Uzbekistan, it is planned to install modern relays, circuit breakers, instrument transformers, auxiliary, and other equipment that will increase system reliability and will be installed at the connection points on 220 kV and 500 kV transmission lines.

3. The Project consists of two contract packages:

- **Package 1:** Construction of Transmission Line 500 kV (approx. 1442 m of length, based on preliminary design), upgrade of high-voltage substation equipment, relay protection, telecommunications and SCADA, and Fibre-Optic Cables installation.
- **Package 2:** Upgrade of the Emergency Automation System.

4. Amendment No. 5 to Package 1, includes additional financing for Design, Supply, Installation, Testing and Commissioning of new 500kV Overhead Transmission Line (OHL) between the New Syrdarya substation (Uzbekistan) and Sughd (Tajikistan) substation and two new 500 kV line bays at both sides. It has been signed on 21 August 2025.

5. **Project Implementation Progress.** As of June 30, 2026, the physical progress of the project is estimated at 94.25% (0622) and 40.4% (0976) for Package 1 and 70.3% for Package 2. The project is currently rated by ADB as on track. Implementation progress for subcomponents is summarized below.

Contract No.	Contract Name	Status	Civil work starting date	Name of contractor	Name of CSC	Implementation Description
I. Package 1						
0622	Construction of Transmission Line 500 kV, upgrade of high-voltage sub-station equipment, relay protection, telecommunications and SCADA,	On-going	December 2022	TBEA Company Ltd. - China	GOPA Tech	*Implementation status is detailed in Appendix 7*
0976		On-going	March 2026	TBEA Company Ltd. - China	GOPA Tech	*Implementation status is detailed in Appendix 7*

[1] ADB. 2009. Safeguard Policy Statement. Manila.

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Contract No.	Contract Name	Status	Civil work starting date	Name of contractor	Name of CSC	Implementation Description
	Fibre-Optic Cables installation					
II. Package 2						
0622	Upgrade of the Emergency Automation System	On-going	March 2023	Consortium "JSC Tojikgidroelectromontaj" - Tajikistan and LLP "DS Group" – Kazakhstan	GOPA Tech	*Implementation status is detailed in Appendix 7*

6. **Progress in Implementing the EMP**. The EMP is an integral part of the IEE prepared in 2018 for project 0622 and in 2024 for project 0976. It summarizes the potential environmental impacts and mitigation measures for the different phases of the project: detailed design and pre-construction phase; construction phase; and operations phase. It also summarizes the environmental risks and mitigation measures, and agencies responsible for implementation and supervision of these measures.

7. For project 0622, the key potential impacts and/or issues of concern, during construction, are:

- Orientation on environmental requirements for Contractors and Workers
- Water quality
- Air quality
- Noise and ground vibration
- Soil erosion / surface run-off
- Exploitation, handling, transportation and storage of construction materials
- Construction waste disposal
- Safety precautions for the workers
- Traffic conditions
- Social impacts
- Archaeological artefacts

8. For project 0976, the key potential impacts and/or issues of concern, during construction, are:

- Air quality - During construction air quality may be degraded by construction works, mainly by dust
- Soil erosion / surface run-off
- Geohazards - potential flood risk in the areas closest to Syrdarya and mudflow risks in the hilly areas in Tajikistan
- Biodiversity – limited impacts related to cutting trees in Tajikistan, the presence of *Tulipa micheliana* (VU) and the Marbled Polecat in the hilly areas of the OHL route in Tajikistan as well as the presence of special status bird species along the OHL route
- Handling, storage and eventual disposal of Hazardous materials and waste
- Community Health and Safety
- Noise

- Cultural resources

9. For project 0622, all applicable mitigation measures are in compliance with EMP provisions. Such measures include handling and storage of construction materials, management and disposal of waste, use of PPE and general OHS for construction staff, housekeeping of construction sites, living standards for staff. Many measures are not applicable as Package 2 activities comprise electromechanical installations within existing facilities. Most of Package 1 activities also take place within the boundaries of existing substations or substations in remote areas.

10. Construction work on Project 0976 commenced at the end of March 2026. During the first half of the year, work continued to prepare the construction camp for the new L-500 Sughd-Syrdarya line. Excavation and construction work began at the end of March to lay the foundations for the new line's supports. The contractor developed an Environmental and Social Management Plan (C-ESMP) for the construction camp and submitted it to the Consultant for approval in May 2026. The Consultant approved the plan. The final technical design for the Uzbek part of the project is still in progress and is expected to be finalised during the next reporting period.

11. **Compliance with loan covenants.** The loan agreement and project agreement between the government and ADB includes 8 assurances (or "covenants") for environmental safeguards and/or related to environmental issues. These relate to the timely and effective implementation of the EMP, as well as project-specific assurances tailored to the current project. Compliance with these assurances is a condition of the loan and project agreements. For the current reporting period, and project 0622, all of the assurances are being complied with. For project 0976, construction started earlier that the approval of the C-ESMP. This was a temporary non-compliance which was rectified in May 2026, when the C-ESMP was submitted and approved.

12. **Public consultation and status of Grievance Redress Mechanism (GRM).** No public consultations were undertaken during the reporting period for project 0622, reflecting the fact that project activities present minimum interference with the communities or are undertaken in remote areas. The Grievance Redress Mechanism (GRM) is available to provide the Grievance Redress Committee (GRC) with an effective and systematic mechanism for responding to queries, grievances and complaints from affected people (APs) and other stakeholders. No grievances were registered in the reporting period.

13. For project 0976, public consultations were carried out in the framework of the preparation of the LARP, comprising meetings at Devastich district, Spitamen District and Zafarabod District – on 4 and 5 November 2025. The general attitude towards the project was positive, all participants agreed that the project is important for the country power network development and will be beneficial for the community. In addition, as part of the grievance redress mechanism (GRM), information boards about the project and boxes for collecting complaints and statements from the population were installed at the centre of the Kurush (Spitamen district) and Jami (Zaforabod district) jamoats.

14. **Training and capacity building activities.** No ad-hoc training or capacity building activities were undertaken during the reporting period, other than routine toolbox talks, reflecting the fact that EMP provisions are adequately implemented.

15. **Internal and External monitoring activities undertaken.** During the current reporting period, the CSC's environmental specialists (K. Batos and A. Abduvaliev) visited the project sites a number of times for both projects. Project 0622 focused on sites where active construction

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work was underway, while project 0976 focused on sites where excavation, construction and installation work was being carried out on the new L-500 Sughd-Syrdarya line, as well as LARP activities.

16. **Key issues**. No major issues were identified during the reporting period. Issues related to the organization of the construction camp at the Sughd substation, as well as isolated instances of non-use of personal protective equipment or inadequate fencing of project sites, were identified and resolved. The contractor developed an Environmental and Social Management Plan (C-ESMP) for the construction camp at the Sughd substation.

17. **Lessons learned**. Key lessons learned during the reporting period for environmental management comprise that close monitoring of the Contractor's activities for Package 1 is necessary in order to ensure that EMP requirements are complied with, especially the ones related to the use of PPEs and the maintenance of living standards for staff working on the project.

18. **Next steps / follow up actions**. The project is in compliance with EMP. Further monitoring will ensure that it remains in compliance.

I. INTRODUCTION

1. Purpose of report

19. The purpose of this environmental monitoring report (EMR) is to describe and assess progress for implementation of the environmental management plan (EMP) for the Reconnection to the Central Asian Power System Project, for the reporting period 01 January 2026 to 30 June 2026. This EMR is submitted in compliance with the Safeguard Policy Statement (SPS)[2] of the Asian Development Bank (ADB) and the loan agreement between ADB and the project executing agency.

20. This is the thirteenth (13 th) EMR for the project. It covers part of the construction phase of the project. The report describes: (i) implementation of mitigation measures; (ii) monitoring activities; (iii) public consultations (including grievance redress); (iv) training and capacity building; (v) expenditures for EMP implementation (including mitigation, monitoring, and training); (vi) reporting; and (vii) an overall assessment of key achievements, challenges, issues, corrective actions, and lessons learned, during the reporting period.

21. The EMR covers also the activities of the Amendment No. 5 to Package 1 (project 0976), which includes additional financing for Design, Supply, Installation, Testing and Commissioning of new 500kV Overhead Transmission Line (OHL) between the New Syrdarya substation (Uzbekistan) and Sughd (Tajikistan) substation and two new 500 kV line bays at both sides.

2. Project outcome, outputs and subcomponents

Grant ADB 0622-TAJ

22. The Project objective is to ensure the power exchange of Tajikistan with Uzbekistan and the reconnection of Tajikistan with the Central Asian Power System (CAPS). The Project provides for the complete restoration and reconnection of the Tajik power system with Uzbek power system. This means the restoration of parallel operation of the Tajik energy system with the regional one, from which Tajikistan has been cut off in 2009. Within the Project framework, in order to synchronize the electrical networks of Tajikistan and Uzbekistan, it is planned to install modern relays, circuit breakers, instrument transformers, auxiliary, and other equipment that will increase system reliability and will be installed at the connection points on 220 kV and 500 kV transmission lines.

23. CAPS is a regional power transmission network created during the Soviet period and, at present, its activities have been coordinated between Uzbekistan, Kazakhstan, Kyrgyzstan and Tajikistan. In recent decades, power exchange within the CAPS has gradually declined, and the disconnection of Tajikistan from Uzbekistan in 2009 limited the efficiency of the CAPS. In the north of Tajikistan, it is planned to install two new connection points of Tajik network to Uzbek power system to increase the stability of the parallel operation of two power systems, as shown on the below map.

24. Figure 1 below shows the location of the project in the scale of the country.

[2] ADB. 2009. Safeguard Policy Statement. Manila.

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Figure 1: Location of the project

25. Figure 2 below shows the status of electric grid connection, where Uzbekistan 500 kV Overhead Transmission Line (OHTL) passes 300 m away of Tajikistan Sughd substation (SS) but does not connect to it.

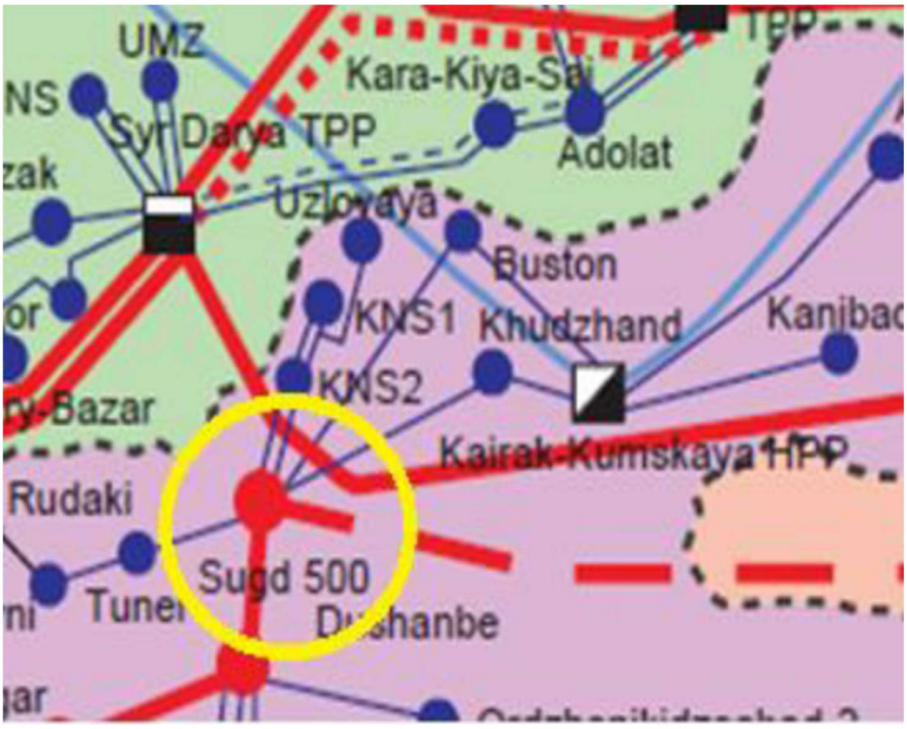


Figure 2: Current status of the electric grid connection

26. SS Sughd 500/220 kV is located in Sughd Region, in Devashtich district, Lolazor Jamoat, 1,600 m from Kurkat Village (Figure 3). It was built in 2010 under the scope of the project financed by the EXIM Bank of China. The SS has 2 groups of single-phase autotransformers with 167x3 MVa capacities. The 500 kV switchyard has one and a half configuration only with one connected transmission line dispatch #518 coming from SS Dushanbe 500 kV. The transmission line from Syrdarinskaya SS (Uzbekistan) crosses the territory of the Republic of Tajikistan and it is owned by the Uzbekistan power utility Uzbekenergo. Current route of the existing Uzbekistan line is going 300 m west of Sughd SS. The technical characteristics of the existing 500 kV transmission line are the following:

- Suspension tower type: P500-1
  - Maximum weight span: 520m
  - Maximum wind span: 590m
  - Conductor width: 3*400/51 mm (same with 3*ACSR Zebra)
- Tension tower type: U1
  - Maximum weight span: 610m
  - Maximum wind span: 645m
  - Conductor width: 3*400/51 mm (Same with 3*ACSR Zebra)
  - Insulator type (Glass type 150 kN)
- Optical ground wire: Not Available
- Arrester wire: 90 mm



Figure 3: Location of Sughd Substation (Google Earth image)

27. The following upgrades will be performed at Sughd SS:

- New 500 kV bay installation (P1).
- Replacing the current transformers and voltage transformers at 220 KV level (P1).
- Upgrading of the relays and SCADA (P1).
- Upgrading the control and low voltage cable layout (P1).
- Upgrading the protection relays and SCADA (P1).

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28. SS "Regar" 500/220/10 kV is located in Karategin Province, Tursunzade district, Jamoat Qaratog, around 50km west from Dushanbe, not very far from the border with Uzbekistan, and it covers an area of 36 ha (Figure 4). It was built in 1974 and the oldest autotransformer dates from 1987.

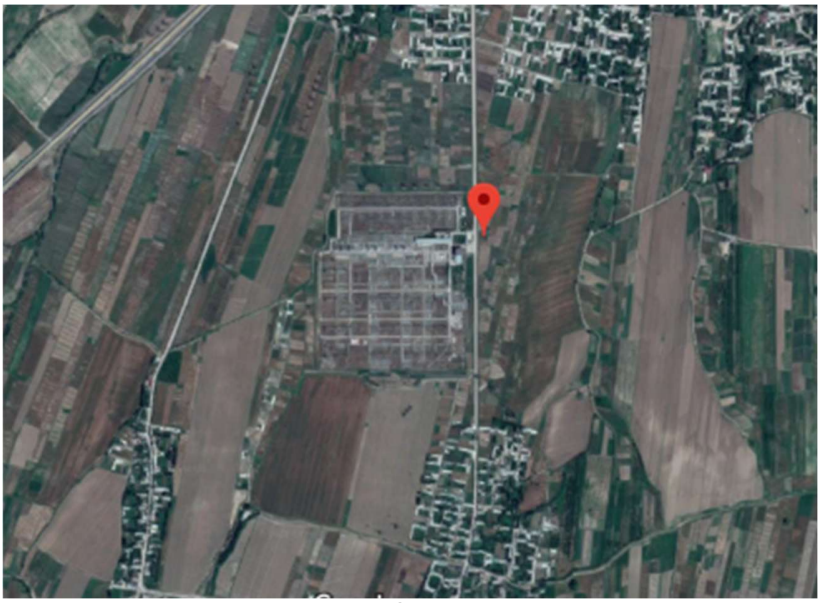


Figure 4: Regar Substation Location

29. The following upgrades will be done under the Project at Regar SS, within the current boundaries:

- Installation of a new 500 kV bay (P1).
- Replacing of current transformers and voltage transformers at 220 KV level (P1).
- Upgrading the control and low voltage cable layout (P1).
- Upgrading the protection relays and SCADA (P1).
- Installation of towers (P1).

30. Three (3) towers and 703 m of conductors of the current 500 kV line (Uzbekistan) will be dismantled and 4 towers of 45-90 degrees and 2 terminal towers will be installed, together with 1442 m of new conductors (see Figure 5). The new line will be crossing the existing 220 kV line two times.

31. For Sharshar SS, the final design suggests that an area of 54x25 m2 will be required to extend the existing substation. The affected land is pasture land.

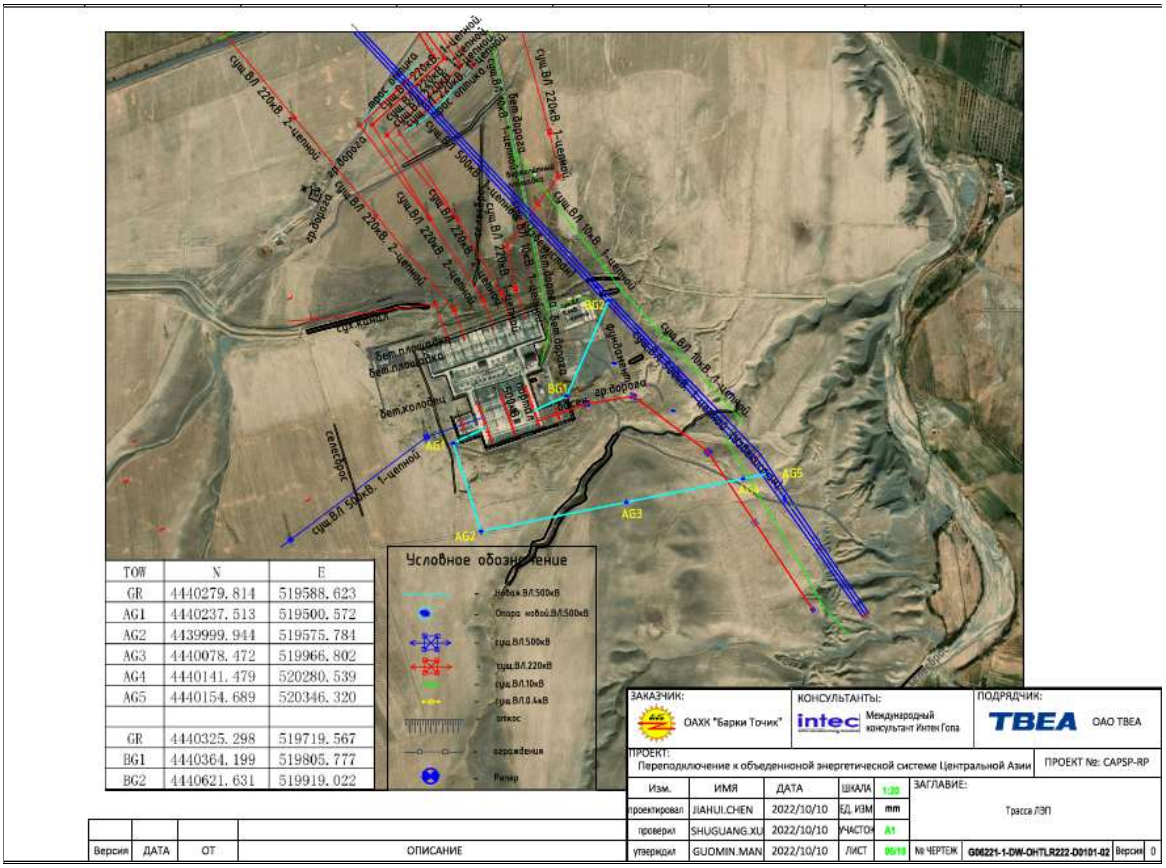


Figure 5: Final design of OHL in and out of Sughd SS

Grant ADB 0976-TAJ (Additional financing)

32. The Reconnection to the Central Asia Power System aims to synchronize the Tajik power system with CAPS through the installation of: (i) a modern relay protection system to restore six 220 kilovolts (kV) and two 500kV interconnection points with Uzbekistan (and CAPS consequently); (ii) two new 500kV interconnection points with Uzbekistan and (iii) improving capacity for stable parallel operation through training of Barqi Tojik staff on stability and protection management operation. This will allow Tajikistan to export surplus summer electricity to CAPS countries, facilitating more efficient use of regional renewable energy resources. It was awarded contract for the Package 1 dated 15 April 2021, for the Supply and Installation of Relay Protection Systems in Various Substations, and Construction of Two 500 kV Interconnection Points in Sughd Substation (Tajikistan) between Employer and the Contractor.

33. The additional scope, construction of a new 500 kV transmission line between New Syrdarya (Uzbekistan) and Sughd (Tajikistan) substations, will scale up transmission capacity for power export to Uzbekistan and CAPS, and enable the year-round operation of two 500 kV interconnection points financed under the original project.

34. The main components of the scope of work comprise the following;

- 500 kV transmission line with a length of approx. 22 km, comprising 14 angle towers as shown in

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- Table 1 overleaf. The OHL route is shown in below.



Figure 6: 500 kV OHL route

- Extension of Sughd SS (Tajikistan) for one 500kV bay:
  - 500kV high voltage equipment for new bay at: Sughd SS,
  - Steel structures and equipment for the 500 kV OHL
  - Relay protection system at: Sughd SS
  - Telecommunication system / SCADA at: Sughd SS
  - design, supply and installation of emergency control system (ECS)
  - AC/DC devices at: Sughd SS,
  - Earthing system for new bay
  - Civil works related to the extension of the substation.
- Extension of New Syrdarya SS (Uzbekistan) for one 500kV bay:
  - 500 kV high voltage equipment for new bay at: New Syrdarya SS.,
  - Steel structures and equipment for the 500 kV OHL
  - Relay protection system at: New Syrdarya SS.
  - Telecommunication system / SCADA at: New Syrdarya SS.
  - design, supply and installation of emergency control system (ECS)
  - AC/DC devices at: New Syrdarya SS.,
  - Earthing system for new bay
  - Civil works related to the extension of the substation.

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Table 1. Location of angle towers for the 500 kV OHL

Interconnection OHL 500kV: TADJIKISTAN - UZBEKISTAN						
Angle Point No.		WGS 84 System (UTM)		Line Angle [°]	Line Direction [left/right]	Length [m]
		East [m]	North [m]			
Tadjikistan	Sugd S/S Connection Point Gantry 500kV	519,711.27	4,440,349.02	0.00	/	
	J1	519,773.56	4,440,374.04	45.84	left	67.13
	J2	520,013.96	4,440,961.00	50.72	left	634.28
	J3	514,707.57	4,450,755.16	36.61	left	11139.27
	J3-1	513,488.92	4,451,321.99	14.32	right	1344.03
	J3-2	513,362.40	4,451,399.15	114.80	left	148.19
	J3-3	513,053.68	4,451,484.62	98.90	right	320.33
	J4	512,774.92	4,451,652.38	114.47	left	325.35
	J4-1	511,897.00	4,451,863.26	96.95	left	902.89
	J5 (Tad.)	509,084.83	4,452,148.03	77.10	right	2826.55
In section J5 and J6 the line cross the border.						468.55
Uzbekistan	J6 (Uzb.)	509,066.20	4,452,616.21	53.79	right	677.32
	J7	509,596.38	4,453,037.72	61.46	left	145.64
	J8	509,571.22	4,453,181.17	41.83	right	1859.27
	J9	510,553.36	4,454,759.87	83.78	left	491.47
	J10	510,166.65	4,455,063.18	53.44	left	206.14
	J11 Syrdarya S/S Gantry 500kV	509,967.84	4,455,008.68	0.00	/	
					Total Length	**21,556.41**

35. It is noted that the OHL in Uzbekistan is still subject to confirmation by a number of state authorities. As a consequence, the location of the towers may be changed.

3. Project implementation progress

36. Project 0622 became effective on 21 December 2021. As of 30 June 2026, physical progress by the project was estimated by the project management office (PMO) to be 94.25% for Package 1 and 70.3% for Package 2. The project is currently rated by ADB as on track. Implementation progress for subcomponents is summarized in Table 1 overleaf.

37. Project 0976 was signed on 21 August 2025. As of 30 June 2026, physical progress by the project was estimated by the project management office (PMO) to be 40,4%.

Table 2. Project implementation progress as of 30 June 2026

Contract No.	Contract Name	Status	Civil work starting date	Name of contractor	Name of CSC	Implementation Description
I. Package 1						
0622	Construction of Transmission Line 500 kV, upgrade of high-voltage sub-station equipment, relay protection, telecommunications and SCADA, Fibre-Optic Cables installation	On-going	December 2022	TBEA Company Ltd. - China	GOPA Tech	*Implementation status is detailed in Appendix 7*
0976		On-going	March 2026	TBEA Company Ltd. - China	GOPA Tech	*Implementation status is detailed in Appendix 7*
II. Package 2						
0622	Upgrade of the Emergency Automation System	On-going	March 2023	Consortium "JSC Tojikgidroelectromontaj" - Tajikistan and LLP "DS Group" – Kazakhstan	GOPA Tech	*Implementation status is detailed in Appendix 7*

CSC = construction supervision company.

II. SUMMARY OF THE PROJECT ENVIRONMENTAL MANAGEMENT PLAN

38. The project environmental management plan (EMP) is the primary reference document for the government and ADB for all environment-related mitigation, monitoring, reporting, and training activities for the project. Timely and effective implementation of the EMP is a key condition of the loan agreement between the government and ADB.

Grant ADB 0622-TAJ

39. The EMP was prepared as part of the initial environmental examination in 2018. The EMP is being implemented over 6 years, comprising 6 years of construction. The content of the EMP includes: institutional roles and responsibilities for EMP implementation; mitigation measures for environmental safeguard risks; environmental monitoring and reporting; training and capacity building; grievance redress mechanism (GRM); public consultation; cost estimates; and, other information e.g. terms of reference for key positions.

40. **Project institutional arrangements (Section 3 of the EMP).** This section of the EMP describes the roles and responsibilities of relevant agencies for EMP implementation. For this project, the principal person responsible for EMP coordination is the PMUES Head of the Environmental and Social Monitoring Department (Mr. Sirojidin Karimov), acting on behalf of the PMO. On-site implementation of the EMP is by the implementing agencies, contractors, and construction supervision companies (CSCs). Guidance and supervision to the PMO

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Environment Officer is given by the Loan Implementation Environment Consultant (LIEC) (Mr. Firuz Safarov).

41. **Potential impacts and mitigation (Annex VI of the EMP)**. This section of the EMP summarizes the potential environmental impacts and mitigation measures for the different phases of the project: detailed design and pre-construction phase; construction phase; and operations phase. Annex VI in the EMP summarizes the environmental risks and mitigation measures, and agencies responsible for implementation and supervision of these measures. For this project, the key potential impacts and/or issues of concern, during construction, are:

- Orientation on environmental requirements for Contractors and Workers
- Water quality
- Air quality
- Noise and ground vibration
- Soil erosion / surface run-off
- Exploitation, handling, transportation and storage of construction materials
- Construction waste disposal
- Safety precautions for the workers
- Traffic conditions
- Social impacts
- Archaeological artefacts

42. **Environmental monitoring program (Section 11.3 of the EMP)**. The program comprises two types of monitoring: internal monitoring and compliance monitoring. Internal monitoring is assessment by the project implementation unit (PMUES) and CSC to ensure the contractors are implementing mitigation measures as described in their contractual arrangements and EMP. Compliance monitoring is the overall assessment of whether all EMP measures are being complied with, and is conducted by the PMO Environment Officer. This monitoring does not involve quantitative measurement of environmental variables, but is based on visual inspection, site visits, and review of the progress reports.

43. **Costs (Section 11.4 of the EMP)**. This section of the EMP describes the estimated costs for EMP implementation during project construction. The cost estimates in the EMP include the costs for the mitigation measures and monitoring.

44. **Reporting (Section 11.3 of the EMP)**. This section of the EMP describes the reporting requirements for the project, including the responsible agencies and reporting frequency.

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45. The EMP was prepared as part of the initial environmental examination in 2024. The content of the EMP includes: institutional roles and responsibilities for EMP implementation; mitigation measures for environmental safeguard risks; environmental monitoring and reporting; training and capacity building; grievance redress mechanism (GRM); public consultation; cost estimates; and, other information e.g. terms of reference for key positions.

46. **Potential impacts and mitigation (Section 2 of the EMP)**. This section of the EMP summarizes the potential environmental impacts and mitigation measures for the different phases of the project: design, pre-construction and construction phase; and operations phase. For this project, the key potential impacts and/or issues of concern, during construction, are:

- Air quality - During construction air quality may be degraded by construction works, mainly by dust
- Soil erosion / surface run-off
- Geohazards - potential flood risk in the areas closest to Syrdarya and mudflow risks in the hilly areas in Tajikistan
- Biodiversity – limited impacts related to cutting trees in Tajikistan, the presence of *Tulipa micheliana* (VU) and the Marbled Polecat in the hilly areas of the OHL route in Tajikistan as well as the presence of special status bird species along the OHL route
- Handling, storage and eventual disposal of Hazardous materials and waste
- Community Health and Safety
- Noise
- Cultural resources

47. **Environmental monitoring program (Section 3 of the EMP)**. The program comprises three types of monitoring: observational, review and approval, and instrumental monitoring:

- Observational monitoring involves routine site inspections in the field by both the EPC Contractor and the PIC.
- Review and Approval monitoring is a desk-based exercise to ensure that all management plans, method statements, permits and designs are reviewed and approved by PIC and BT PMU before, and during works.
- Instrumental monitoring is carried out by the Contractor and involves the use of instruments to measure environmental quality parameters

48. **Provisions for the SEMP (Section 4 of the EMP).** This section of the EMP describes structure and contents of the SEMP that shall be prepared by the Contractor with the aim to outline how he intends to implement the EMP.

49. **Implementation arrangements for EMP (Section 7 of EMP).** The principal person responsible for EMP coordination is the PMUES Head of the Environmental and Social Monitoring Department (Mr. Sirojidin Karimov), acting on behalf of the PMO. On-site implementation of the EMP is by the implementing agencies, contractors, and construction supervision companies (CSCs). Guidance and supervision to the PMO Environment Officer is given by the Loan Implementation Environment Consultant (LIEC) (Mr. Firuz Safarov).

50. **Reporting (Section 8 of the EMP)**. This section of the EMP describes the reporting requirements for the project, including the responsible agencies and reporting frequency.

51. **Costs (Section 9 of the EMP)**. This section of the EMP describes the estimated costs for EMP implementation during project construction. The cost estimates in the EMP include the costs for the mitigation measures and monitoring. The total cost amounts to 237,500 USD.

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III. ENVIRONMENTAL MANAGEMENT DURING THE REPORTING PERIOD

52. This section summarizes the progress made to implement the project EMP during the current reporting period.

1. Implementation of the project mitigation measures

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53. Implementation of the mitigation measures in the EMP is summarized in Table 3. This table is the same as the Table in Annex VI of the IEE but has 3 additional columns, to summarize the implementation status and compliance for each listed mitigation measure within the reporting period.

Table 3. Project impacts, mitigation measures, and implementation status

Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
Pre-construction					
1. Design Stage	Several: Improve the baseline data with a special focus on biodiversity	• Given that the specific environmental and social base-line description (health and safety aside) is limited, further baseline data collection has to be performed by the contractor before the actual works start	In October 2024, the Contractor sent the "Environmental and Social Impact Assessment" (ESIA) of the expansion zones of the Shar-Shar SS and Sughd SS to the Consultant for review (No. 753 dated 10/30/2024). The document contained in-formation on the environmental and socioeconomic baseline for the expansion areas. The document is attached in Annex 4.	Y	N/A
		• The subcontractor engaged for this study on the baseline data collection shall have the right capacity to perform such surveys (and baseline environmental tests).	The study was carried out by the ESHS personnel of the Contractor	Y	N/A
		• In the case the visual check detects soil contamination or potential contamination, a soil analysis will have to be performed. The parameters to be monitored in or-der to detect any pollution of the soil by mineral oils are: Total Petroleum Hydrocarbons, PCB's and heavy metals (copper, zinc, lead).	No soil contamination or other physical contamination was detected	N/A	N/A
Construction					
1. Capacity building	Orientation on environmental requirements for Contractor and Workers: To ensure that the contractor and	• Barqi Tojik to engage environmental specialist to monitor and progress all environmental statutory and recommended obligations, as part of the Project	BT has engaged a Project Implementation Consultant (PIC) to monitor EMP implementation, besides its own staff	Y	Y

Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
	workers understand and have the capacity to ensure that environmental requirements and implementation of mitigation measures are addressed and carried out appropriately.	Implementation Consultant package most probably			
		• Conduct special briefing for managers and / or on-site training for the contractors and workers on the environmental requirements of the project.	PIC has provided a number of awareness raising sessions to ESHS staff of Contractors. More will come ad hoc, if shortcomings in EMP implementation are identified.	Y	Y
		• Record attendance and achievement test.	One ESHS supervisor for each package.	N/A	N/A
		• Agreement on critical areas to be considered and necessary mitigation measures, among all parties who are involved in project activities	Key EMP issues were discussed with both ESHS supervisors. This is on-going as the project develops.	Y	Y
		• Continuous progress review and refresher sessions to be followed	Refresher sessions are organized every quarter and ad hoc.	Y	Y
		• Considering and following Norms of Construction Safety, providing detailed regulations on construction worker's health and safety, including information on how to prevent the spread of AIDs and other sexually transmitted diseases		Y	Y
2. Water quality	To prevent adverse water quality impacts due to negligence of environmental best practice. Ensure adverse impacts on water quality caused by construction activities are minimized.	• Proper construction of temporary drainage and erosion control measures, maintenance and management including training of operators and other workers to avoid pollution of water bodies by operation of construction machinery and equipment (car and machinery park with drainage system).	Not applicable, as most works are carried out within SS boundaries.	N/A	N/A
		• Storage of lubricants, fuels and other petrochemicals in self-contained areas	Not applicable for Package 2	Y	N/A
		• Proper disposal of solid waste from construction activities and work camps.		Y	Y
		• Cover the construction material and soil stockpiles with a suitable material to reduce material loss	Inadequate soil management at Regar SS has been resolved	Y	N/A

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Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		• Following regulations on Industrial and Municipal Waste		Y	Y
3. Air quality	To minimize effectively and avoid complaints due to airborne particulate matters released to the atmosphere	• All heavy equipment and machinery shall be fitted in full compliance with EU standards due to lack of existing and enforced standards. Gasoline and Diesel driven Machinery shall be checked before in one of the few well equipped vehicle inspection stations before allow utilization. Visible smoke at exhaust pipes shall not be accepted	Not applicable for Package 2. Visual inspection of smoke from machinery for Package 1.	Y	N/A
		• Fuel-efficient and well-maintained haulage trucks shall be employed to minimize exhaust emissions. Trucks shall be checked in vehicle inspection station as well. Trucks with visible smoke at exhaust pipe shall be excluded from project work	Not applicable for Package 2. Visual inspection of smoke from machinery for Package 1.	Y	N/A
		• Stockpiled soil and sand shall be slightly wetted before loading, particularly in windy conditions	Not applicable for Package 2. Soil disposal for Package 1 complies with standards	Y	N/A
		• Vehicles transporting soil, sand and other construction materials shall be covered. Limitation to speed of such vehicles is necessary and need to set and controlled	See above.	Y	N/A
		• Spraying of bare areas with water. For any spray plan, the required amount of water and the availability of water at the location need to be assessed before to avoid water overuse and resource scarcity	Not applicable for Package 2. Not applicable for Package 1 so far. Construction works are limited to small trenches	N/A	N/A
4. Noise and ground vibration	To minimize noise level increase and ground vibrations during construction operations	• All heavy equipment and machinery shall be fitted in full compliance with the national and local regulations and with effective silencing apparatus to minimize noise. If need, equipment with excessive noise development shall be equipped with additional encapsulation of the machinery and noise-minimization walls shall be installed.	Not applicable for Package 2. Not applicable for Package 1 so far. Construction works take place within SS boundaries or at remote areas.	N/A	N/A
		• As a rule, the operation of heavy equipment shall be conducted in daylight hours. Hammer-type percussive pile driving operations shall not be allowed at night time		Y	Y

Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		• Well-maintained haulage trucks shall be used with speed controls.	Not applicable for Package 2.	Y	N/A
		• Contractor shall take adequate measures to minimize noise nuisance in the vicinity for the workers and neighbors	Not applicable for Package 2. Not applicable for Package 1 so far. Construction works take place within SS boundaries or at remote areas.	N/A	N/A
5. Soil erosion / surface run-off	Prevent adverse water quality impacts due to negligence of anticipated impact and ensure unavoidable im-pacts are managed effectively. To minimize soil erosion due to the construction activities of towers, stringing of conductors and creation of access tracks for project vehicles	• Back-fill should be layered as before and compacted properly in accordance with design standards and graded to original contours where possible	Not applicable for Package 2. Not applicable for Package 1 so far. Soil extraction takes place within Regar SS (i.e. already disturbed soil) and in shallow trenches.	N/A	N/A
		• Clearing of plants surface cover to be minimized during site preparation. The area shall be replanted with an appropriate vegetation cover to ensure interception of rainwater and the deceleration of surface run-off before the completion of the project	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• If trees are removed they will be replanted in a nearby location within the project site	No trees are removed.	N/A	N/A
6. Exploitation, Handling, Transportation and Storage of Construction materials	To minimize contamination of the surroundings (Due to implementation of works, concrete and crushing plants)	• In order to minimize and/or avoid adverse environmental impacts arising from construction material exploitation, handling, transportation and storage measures to be taken in line with regulations and requirements of CEP and conditions/recommendations in approval:	Not applicable for Package 2.	Y	N/A
		• Conditions that apply for selecting sites for material exploitation	No extraction of materials from other sites so far	N/A	N/A
		• Conditions that apply to timing and use of roads for material transport	No bulk transport of materials to the site so far	N/A	N/A

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Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		• Conditions that apply for maintenance of vehicles used in material transport or construction	No bulk transport of materials to the site so far	N/A	N/A
		• Conditions that apply for selection of sites for material storage	Materials are stored as per the national regulations applied to Regar SS	Y	N/A
		• Conditions that apply for aggregate production	Aggregate use has been limited so far and supplied by third parties	N/A	N/A
		• Conditions that apply for handling hazardous or dangerous materials such as oil, lubricants and toxic chemicals (PCBs)	Hazardous materials are stored within Regar SS, under the same conditions used by the SS for own materials. No PCBs identified so far.	Y	N/A
7. Construction Waste Disposal (to be applied also to PCBs)	Minimize the impacts from the disposal of construction waste	Waste management plan to be submitted to CEP and approved one month prior to starting works. • Estimating the amounts and types of construction waste to be generated by the project. • Investigating whether the waste can be reused in the project or by other interested parties. • Identifying potential safe disposal sites close to the project or those designated sites in the contract. • Investigating the environmental conditions of the disposal sites and recommendation of most suitable and safest sites. • Piling up of loose material should be done in segregated areas to arrest washing out of soil. Debris shall not be left where it may be carried by water to downstream flood plains, dams, lagoons, rivers, canals, etc. • Used oil and lubricants shall be recovered and reused or removed from the site in full compliance with the national and local regulations. • Oily wastes must not be burned! Disposal location to be agreed with local authorities and CEP • Waste transformer insulating oil to be recycled, reconditioned, or reused at appropriate facilities with permissions and under state control • Machinery should be properly maintained to minimize oil spill during the construction. • Solid waste/household waste should be collected and	WMPs need not be submitted to CEP According to the Law of the Republic of Tajikistan "On Production and Consumption Waste" Chapter 3, Article 7, the Waste Management Plan for the implementation of works is not included in the list of agreements with environmental protection authorities (i.e. need not be submitted to the authorities).	Y	Y

Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		transported by the local system or safely transported and disposed at an approved solid waste facility. Open burning of any material is illegal and contrary to good environmental practice			
8. Safety Precautions for the Workers	To ensure safety of workers	• Providing adequate warning signs		Y	Y
		• Providing workers with hard hats		Y	N/A
		• Contractor shall instruct his workers in health and safety matters, and require the workers to use the provided safety equipment. Workers need to be informed and trained about sanitation and health care issues and the specific hazards of their work.		Y	Y
		• Establish all relevant safety measures as required by law and good engineering practices		Y	Y
		• Following all guidance and obligation referring Norms of Construction Safety, providing detailed regulations on construction worker's health and safety		Y	Y
9. Traffic condition	Minimize disturbance of vehicular traffic and pedestrians during haulage of construction materials, spoil and equipment and machinery, blocking access roads during works; damage / maintenance problems for roads and bridges used by the haulage trucks, dust nuisance in the vicinities of the transportation ways, especially to schools and hospitals	• Submit temporary haul and access routes plan one month prior to start of works	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• Formulate and implementation of a plan of alternate routes for heavy vehicles	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A

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Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		• Vicinity of schools and hospitals to be considered.	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• Installation of traffic warning signs, and enforcing traffic regulations during transportation of materials and equipment and machinery. Conditions of roads and bridges to be considered	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• Provision of culverts on water channels and drains	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• Widening/upgrading of access paths/roads	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
		• Consider vibration damages to village houses (old clay brick or adobe buildings) along narrow and unpaved village streets	Not applicable for Package 2. Not applicable for Package 1 so far.	N/A	N/A
10. Social impacts	To ensure minimum impacts from construction labor force. To ensure minimum impacts on public health. To ensure minimum effects of indirect impacts of constructions to the people: Dust, Noise, Vibration and rock blasting effects etc. To minimize access problems for local population during construction.	• Potential for spread of vector borne and communicable diseases from labour camps shall be avoided (worker awareness orientation and appropriate sanitation should be maintained)	Not applicable for Package 2. Not applicable for Package 1 so far. No camps are used, construction works are limited.	N/A	N/A
		• Claims/complaints of the people on construction nuisance/damages to be considered and responded to promptly by the Contractor	Not applicable for Package 2. Not applicable for Package 1 so far. No complaints have been received	N/A	N/A
		• LARP has to be finalized within detail design	Not applicable for Package 2. For Package 1, a due diligence report has been submitted, demonstrating that a LARP is not necessary for the SSs currently under reconstruction, with the exception of Sughd SS and Regar SS – for which a LARP has been submitted.	Full	N/A
		• Blackouts due to be replacement of equipment will be minimized by an accurate estimation and	Not applicable for Package 2. Not applicable for Package 1 so far. No blackout are	N/A	N/A

Work phase	Potential impacts/issues	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?	
				Package 1	Package 2
		mitigation programme by BT through the supply from other SSs and previous notification to the affected people who will be notified via the public consultation meeting in the case of Sughd SS and through a notification in the newspaper and/or radio station in the case of Regar SS	foreseen for the current activities.		
11. Archaeological artefacts	Ensure that no damage to archaeological artefacts due to construction activities, particularly earthworks, takes place	• In the event of the unexpected discovery of archaeological objects during construction operations the contractor shall immediately inform the residential engineer who will notify the Institute of Archaeology / Ministry of Culture and the PMU for further instructions. In this case the construction works at the localized site would be stopped until Institute of Archaeology give clearance for the continuation of the operations. • Works will resume only after appropriate measures have been taken as requested by the Institute of Ministry of Culture and confirmation has been received that works may continue.	Not applicable for Package 2. Not applicable for Package 1 so far. Works are within existing SSs, where the possibility of chance finds is minimal.	N/A	N/A

EMP = environmental management plan, EMU = environmental management unit, PMO = project management office.

54. Based on Table 3: All applicable mitigation measures are in compliance with EMP provisions. Many measures are not applicable as Package 2 activities comprise electromechanical installations within the main BT HQ building. Most of Package 1 activities also take place within the boundaries of existing substations or substation in remote areas.

55. **Conclusions and next steps.** Most mitigation measures are being implemented and the project is in compliance with the EMP requirements.

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56. Implementation of the mitigation measures in the EMP is summarized in Table 4. This table is informed by Table 66 of the IEE but has 1 additional column, to summarize the implementation status and compliance for each listed mitigation measure within the reporting period.

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Table 4. Project impacts, mitigation measures, and implementation status

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
Design				
Biodiversity	Bird Electrocution	Maintaining 1.8 meter (60-inch) spacing between energized components and grounded hardware or, where spacing is not feasible, covering energized parts and hardware.	Requirements have been passed to design team	Yes
	Bird Collisions	Provision of line marking devices along the alignment to avoid birds' collision with transmission line	Requirements have been passed to design team	Yes
	Sensitive Habitat and Designated Sites	Active Marbled Polecat burrows will be Identified, recorded, mapped and exclusion zones will be set up. If found in tower sites, micro alignment changes will be made to the design to avoid these areas.	Requirements have been passed to design team	Yes
Soils	Erosion	Tower sites will be sloped as necessary to prevent erosion	Incorporated in design	Yes
	Tower Placement	Identify presence of any unstable land and where towers are not on flat land and conduct geotechnical/slope stability analysis with slopes to be graded with drainage installed to minimize landslide risk	Incorporated in design	Yes
		Ensure resulting slope design/topography does not exacerbate surface erosion and/or trigger a landslide	Incorporated in design	Yes
		All disturbed areas are to be revegetated	Revegetation at the end of the works	N/A
		Bioengineering methods can be considered for slope protection	N/A	N/A
Geohazards	Landslides, mudflows and earthquakes	Designing towers using landslide / mudflow prevention design standards and considering earthquake loading as well as locating the facilities in stable areas, as far as possible would avoid landslides and impacts from seismic events	Incorporated in design	Yes
	Floods	Towers close to irrigation channel nearby to New Syrdarya substation should be designed to incorporate flood risks per the Project CRA	Incorporated in design	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
Community Health and Safety	EMF	The Project will respect all national safety protection zone regulations, including those for EMF	Incorporated in design	Yes
Noise	Corona Noise	Conductors shall be designed to operate below the inception level for corona discharge	Incorporated in design	Yes
Climate Change	Adaptation	Selection of more high temperature-resilient insulating & conducting material for transmission lines to reduce losses in conductance & or damage to lines	Incorporated in design	Yes
		Selection of more high temperature-resilient sub-station equipment to reduce losses in efficiency	Incorporated in design	Yes
		Transmission lines should be located above the highest recorded flood levels	Incorporated in design	Yes
		Transmission line tower foundations / bases nearest to Syr Darya river (within 2 km) should be strengthened to withstand river flood flow forces & design to avoid collection of flood debris	Incorporated in design	Yes
		Select transmission line construction materials, conductors, insulators & pylon structural design to withstand the predicted extreme wind (gusts) shear forces	Incorporated in design	Yes
		Selection of more cold temperature-resilient insulating & conducting material for transmission lines to reduce losses in conductance	Incorporated in design	Yes
		Select transmission line construction materials, conductors, insulators & pylon structural design to withstand the expected ice build-up loading force, plus winter wind shear forces	Incorporated in design	Yes
	Mitigation	Selection of materials that are resource-efficient, energy efficient, have a longer service life, and have better utilization efficiency and impact	Incorporated in design	Yes

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Selecting of shorter and more efficient transportation routes	Incorporated in design	Yes
Pre-construction / Construction				
General Environmental Management		The EPC Contractor will be responsible for preparing a Specific Environmental Management Plan.	In May 2026, the Contractor submitted the Environmental and Social Management Plan (C-ESMP or SEMP) to the Consultant for review. It was developed by the Contractor, submitted to the Consultant (No. TBEA RT-DF0976-2026-63 dated May 5, 2026), and approved by the Consultant. The document is attached in Annex 6.	Temporary non-compliance due to construction activities start (March 2026) prior to SEMP approval (May 2026). Now rectified.
		As part of his SEMP, the EPC Contractor will be responsible for preparing and implementing his **Pollution Prevention Plan.**	Covered via the WMP, Soil Removal Plan and ERP	Yes
		As part of his SEMP, the EPC Contractor will be responsible for preparing and implementing his **Reinstatement Implementation Plan.**	Covered via the Soil Removal Plan	Yes
		The EPC Contractor will be responsible for preparing and implementing his **Traffic Management Plan** which will be approved by both the PIC and the relevant regulatory authority in Tajikistan for the control of traffic.	Measures are taken with the Traffic Police to facilitate the transport of heavy material	Yes
		An **Occupational Health and Safety Plan** will be prepared by the EPC Contractor to manage worker safety.	An OHS Plan has been prepared and submitted by the Contractor	Yes
		As part of his SEMP, the EPC Contractor will be responsible for preparing and implementing his **Community Health and Safety Plan.**	No community H&S Plan available. Relevant provisions are briefly mentioned.	Partially. Contractor has been requested to develop a Community H&S Plan.

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
				The plan is expected within the next reporting period.
		As part of his SEMP, the EPC Contractor will be responsible for preparing and implementing his **Construction Camp Management Plan.**	A Camp Management Plan is prepared by the Contractor	Yes
		As part of his SEMP, the EPC Contractor will be responsible for preparing and implementing his **Waste Management Plan**.	A Waste Management Plan is prepared by the Contractor	Yes
	Permits and Licenses	The applicable discharge permits will be obtained for MPEs, MPDs, etc., prior to the discharge commencing.	Yes	Yes
Air Quality	Dust Control	Dust control measures will be implemented on all roads within 250m of residential / sensitive receptors.	As per the Soil Removal Plan	Yes
		Ensure an adequate supply of bowsers and carry out watering for dust control at least once a day near residential areas: in dry weather with temperatures of over 25˚, or in windy weather. Avoid overwatering as this may make the surrounding muddy.	As per the Soil Removal Plan	Yes
		Vehicle movements will be restricted to defined access routes and demarcated working areas (unless in the event of an emergency).	To be checked during monitoring missions	Not yet verified
		A strict Project speed limit of 30km/h will be enforced for Project vehicles using unmade tracks.	To be checked during monitoring missions	Not yet verified
		Excavated materials will be stockpiled where practical away from sensitive receptors, such as homes, schools, and health facilities. Where this is not possible, ensure regular watering of stockpiles to prevent dust impacts	As per the Soil Removal Plan	Yes
		Earthwork operation will be suspended when the wind speed exceeds 20 km/h in areas within 500 m of any community.	To be checked during monitoring missions	Not yet verified

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Vehicles carrying fine aggregate materials will be sheeted to help prevent dust blow and spillages.	As per the Soil Removal Plan	Yes
		Only use cutting, grinding, or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g., suitable local exhaust ventilation systems	To be checked during monitoring missions	Not yet verified
		Provide workers with N95 dust masks to be worn when ambient conditions are dusty or when dust generating activities take place	To be checked during monitoring missions	Not yet verified
	Siting of Equipment	Stationary emission sources (e.g., portable diesel generators, compressors, etc.) shall be positioned as far as is practical from sensitive receptors.	To be checked during monitoring missions	Not yet verified
	Release of Exhaust Gases and Fugitive Emissions	Emission sources (vehicles such as excavators) shall be positioned as far as is practical from sensitive receptors	To be checked during monitoring missions	Not yet verified
		Equipment and vehicles will be regularly maintained in accordance with the manufacturer's recommendations to maximize fuel efficiency and help minimize emissions.	To be checked during monitoring missions	Not yet verified
		Preferentially the Project will use fuel that has low sulphur content of 0.1%, where practical and available within Tajikistan.	Yes	Yes
		Construction equipment and vehicles will meet national emissions standards. Belching of black smoke is prohibited	Yes	Yes
		Limit engine idling to maximum 5 minutes	To be checked during monitoring missions	Not yet verified
		Controlled or uncontrolled burning of waste will not be allowed.	Yes	Yes
		Avoid the use of diesel- or petrol-powered generators and use mains electricity or battery-powered equipment where practicable	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
Hydrology	Drainage	The final surface level of tower sites shall be at least 0.5 m above the existing ground level and shall be constructed in such a way as to be adequately drained to prevent washouts and flooding impacts to adjacent properties.	As per tower design	Yes
		Junctions between new tracks and existing roads shall not impede or damage the latter nor any associated drainage channels, irrigation infrastructure, etc.).	Yes	Yes
	Water Quality	Concrete batching (if required) will be sited at least 50m away from sensitive receptors such as watercourses; wash pits to be lined with an impermeable liner.	To be checked during monitoring missions	Not yet verified
		Treated wastewater will be used for damping down road surfaces to mitigate dust generation.	Impractical considering the quantities of wastewater	N/A
		Domestic sewage from camps will be stored and transported to water treatment works or treated through a dedicated site sewage water treatment plant before discharge to ground or surface water.	Impractical considering the quantities of wastewater	N/A
		All wastewater discharges will be in compliance with the national standards (MPDs).	Yes	Yes
		Construction camps will be located at least 200m from water courses.	Yes	Yes
		All mobile plant will be kept at least 10m distant from surface water and any groundwater wells	Yes	Yes
		Drip trays will be placed below all mobile generators	Yes	Yes
		Potable water will be supplied that meets national drinking water standards and ISO 10500 drinking water parameters (full suite). If this is unavailable, ensure regular supply of bottled water to the site during construction and operational phases	To be checked during monitoring missions	Not yet verified

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
	Water Use	The prior agreement of local communities to use their local piped water either temporarily during construction or permanently for substations will need to be obtained	Construction camp is installed at Sughd SS and uses the SS infrastructure for water	Yes
		In cases where use of local piped water is not agreed, or piped water is not available, collect rainwater or import tanked water to the project area	Yes	Yes
		No groundwater will be used in districts without additional groundwater capacity – in other districts groundwater will not be used without the agreement of local communities	Yes	Yes
Soils and Geology	Erosion	Access roads shall not be cut into a hillside immediately below a tower.	Area is relatively flat	Yes
		Plans for access roads in steep terrain will be submitted to the PIC for approval.	Area is relatively flat	Yes
		Stability of slopes over 30% shall be checked and approved by the PIC prior to selection of foundation to be used.	Area is relatively flat	Yes
		Access roads will be graded and sloped to prevent unnecessary flow of water across the tower sites and to minimize soil erosion.	Yes	Yes
		New earth access tracks shall be suitably compacted	Yes	Yes
		Tower sites will be sloped as necessary to prevent erosion	Yes	Yes
		Natural flows will be diverted around the site and the site protected by grading, placing rip-rap, or other erosion control measures	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Vertical excavations for foundations will be made with power drilling equipment. Where soils permit, a vehicle- mounted power auger or backhoe will be used. In rocky areas, the foundation holes will be excavated by drilling or installing special rock anchors. Pre-cast footings will be installed.	A backhoe is used for tower foundations.	Yes
		Upon completion of subsoil and topsoil reinstatement, the Contractor and PIC will inspect disturbed areas jointly for signs of erosion, slope stability, relief, topographic diversity, acceptable surface water drainage capacity and function, and compaction and implement remedial measures, if necessary	Yes	Yes
		Schedule works during the dry season where practical to minimize any exposed areas subject to erosion by surface water runoff	As far as practicable	Yes
		Rehabilitate any disturbed areas beyond footprint of the alignment to at least original condition through revegetation using native species	Yes	Yes
		To avoid compaction impacts outside the cleared areas, i.e. pad sites, vehicle movements will be restricted to defined access routes and demarcated working areas (unless in the event of an emergency)	Yes	Yes
		Temporary erosion control measures will be developed and implemented after initial land disturbance and if construction activity on the working areas is suspended over the winter before reinstatement has been completed	Yes	Yes
	Topsoil	On completion of works, stockpiled topsoil will be spread over the surface of disturbed work areas	Yes	Yes

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		Once the topsoil has been replaced it will be stone picked to remove any large stones which are not in keeping with the surrounding soil texture	Yes	Yes
		Revegetation of the soils will follow using native seed mixes	Yes	Yes
		If topsoil is stored for more than six months, the stacks will be monitored for anaerobic conditions and manual aeration will be undertaken if they develop.	N/A	N/A
		Stored subsoil and topsoil will be segregated in a manner that avoids mixing.	Yes	Yes
		Topsoil stacks will be free draining. Topsoil will be stored outside the running track used by construction plant, equipment and vehicles.	Yes	Yes
		Soil storage areas will be protected from vehicle movements to avoid soil compaction.	Yes	Yes
		Excavation will be limited to within the agreed corridor of impact, ideally road reserve	Yes	Yes
		Infertile and rocky material will where possible be reused as fill material around tower foundations and substation foundations. If it needs to be taken off site it will be disposed by licensed waste management operator at designated disposal area suitable for accepting inert wastes	No material is moved away from site	Yes
	Soil Contamination	The storage of hazardous materials will be restricted to designated impermeable hazardous materials storage areas located at least 50m from any surface water course or seasonal water channel.	Hazardous materials are stored at the construction camp at Sughd SS	Yes
		A refueling procedure will be developed, which will include a restriction on refueling within 50m of any watercourse.	Yes	Yes
		All material safety data sheets (MSDS) are kept on site with the relevant materials.	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Materials that can potentially react with each other will be segregated during storage.	Yes	Yes
		Procedures will be established to determine acceptability of material storage and to promote the minimization of storage volumes.	Yes	Yes
		Hazardous chemicals will be securely stored on site in a designated storage area.	Yes	Yes
		Relevant personnel will be trained in safe use and handling of hazardous materials.	Yes	Yes
		Diesel storage tanks at construction camps will be located in suitably sized and constructed bunded areas that are designed to be impervious to water and fuel. The bund volume will be designed to no less than 110% of the tank volume. Loading and off-loading connections will be located over secondary containment.	Yes	Yes
		Regular inspections and maintenance will be carried out of secondary containment areas at camps to confirm that they are functioning effectively.	Yes	Yes
		Information will be incorporated into the Site induction process and will outline the role of personnel in the management of waste and emissions from site and spill response procedures.	To be checked during monitoring missions	Not yet verified
		Site induction training will be supplemented by regular 'toolbox' talks with relevant personnel if inspections or audits highlight failings in waste management.	To be checked during monitoring missions	Not yet verified
		Spill response equipment (absorbents etc.) will be available in hazardous materials storage areas.	Yes	Yes
		Relevant construction personnel will be trained in use of spill kits and disposal practices.	To be checked during monitoring missions	Not yet verified

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		Vehicles delivering fuel or hazardous liquids will carry appropriate spill kits to allow an initial response to any spill to be deployed.	Yes	Yes
		All mobile plant (excluding vehicles) will be integrally bunded or will be equipped with a bund or drip tray which will be regularly inspected and emptied to prevent rainwater accumulating.	To be checked during monitoring missions	Not yet verified
	Borrow Pits	Only state licensed borrow pits will be allowed for use.	Yes	Yes
		Provide copies of the borrow pit operator's license and permit prior to the PIC before any materials from the borrow pit are delivered to site.	To be checked during monitoring missions	Not yet verified
Climate Change	Adaptation	Introduce safety standard on maximum temperature allowed for safe field work (using national or international standards)	National standards are applied	Yes
	Mitigation	Supporting suppliers and manufacturers who invest in innovative production techniques that reduce energy consumption and CO2 emissions. Examples include hydrogen and storage technologies or the use of alternative, less carbon-intensive raw materials	As far as practicable	Yes
		Strategic planning of material usage to reduce waste, choosing sustainable and recycled materials whenever feasible, and optimizing the use of water and energy throughout the construction process	As far as practicable	Yes
Biodiversity	General	The right of way of the alignment and any additional temporary workspaces will be surveyed and set out (i.e. marked out and, where necessary, fenced off).	Yes	Yes
		Sensitive receptors that need to be avoided during construction will be marked	Yes	Yes

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		Vegetation will be selectively removed under or near the conductors to provide adequate electrical clearance as required by National Standards.	Yes	Yes
		Camp sites shall be selected to avoid the cutting of mature vegetation.	Camp is installed at Sughd SS	Yes
		Following stringing and tensioning of all conductors, the guard structures will be removed, and the area restored.	Yes	Yes
		The tower worksites shall be fenced.	Yes	Yes
		Vehicle movements will be restricted to defined access routes and demarcated working areas (unless in the event of an emergency) to reduce unnecessary impacts to habitat.	Yes	Yes
		Sensitive habitats that need to be avoided during construction will be marked for protection with bunting, including areas of *Tulipa micheliana*	Yes	Yes
		Pre-clearance surveys will be undertaken along all routes and at camp locations to identify any need for site or species- specific mitigation measures. Specific attention will be paid to the tower locations (and their access roads) in the hill areas which will be further inspected for signs of borrows for Marbled Polecat	Yes In October–November 2025, prior to the start of route design, a visual survey of Tower locations was conducted along the entire route—including hilly terrain—involving the Consultant and the Contractor staff. No habitats (burrows) of the marbled polecat (*Vormela peregusna*) were detected during this visual inspection. Nevertheless, according to scientific data (Rare and Endangered Plant and Animal Species of the Sughd Region – Khujand: "Noshir", 2012, 192 pp.), this species is not present in the area.	Yes

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		Any notable flora species (*Tulipa micheliana*, *Tulipa Affinis*, *Steppengras-Schwarzfußporling*) recorded prior to construction will be surveyed and translocated prior to construction if needed	Yes See comment above with regard to preconstruction survey, although the timing of the survey as not ideal for the flora as flowering period is typically April-May.	Yes
		Compensation planting will be undertaken to off-set the essential removal of any trees.	No tree removal took place as no trees were present at the tower locations	Yes
		An inventory will be made of all trees felled during the Project construction phase, in accordance with the requirements of national legislation. Any Red Book species will be identified and protected via fencing or bunting throughout the construction phase in the specific location of works.	Not relevant	Yes
		No species that are considered likely to out- compete the indigenous plant species will be used in seed mixes. No invasive species will be used in seed mixes for erosion control or bio-restoration.	Yes	Yes
		Inspect and wash all plant and equipment prior to shipping to the country of use with the aim of ensuring, as far as it is free from soil and plant material	Yes	Yes
		Temporary works areas will be reinstated to near original condition (as compared to preconstruction survey reports or adjacent areas).	Yes	Yes
		Reinstatement will be undertaken as early as practicable and in accordance with the Reinstatement Implementation Plan.	Reinstatement is covered under the Soil Removal Plan	Yes
		Recontouring should be sympathetic and in keeping with the surrounding landscape, and as approved by the Project, where this is not precluded by risk to integrity of the pipeline or erosion considerations.	Yes	Yes

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		The re-establishment of vegetation will be monitored following reinstatement until it has reached Project near- and long-term re- vegetation targets.	Yes	Yes
		The Project will seek to achieve an increasing trend in vegetation re-growth and species diversity (specifically species composition) in reinstated areas with reference to nearby areas undisturbed by Project activities, as recorded by the percent similarity and commonality index,	Yes	Yes
		Any areas that have a high erosion risk will be reseeded using an appropriate seed mix	Yes	Yes
		Work training sessions relating to prevention of poaching shall be regularly implemented.	Yes	Yes
		Implementation of a strict code of conduct with regards to treatment of local fauna.	Yes	Yes
		Avoidance of construction activities during the nesting season near sensitive sites.	Yes	Yes
		Removal of nests from substations outside of nesting season	N/A. Substations are already established areas	N/A
Economy Employment and Livelihoods	Employment	Targets for local recruitment from the local communities will be agreed with the EPC Contractor and BT.	To be checked during monitoring missions	Not yet verified
		The Project will seek to manage employment expectations by explaining the number and type of opportunities in advance to local communities via BT Safeguards Specialist.	To be checked during monitoring missions	Not yet verified
		Applications for employment will only be considered if submitted via the official application procedure.	Yes	Yes
		Recruitment procedures will be transparent, public and non-discriminatory and open with respect to ethnicity, religion, sexuality, disability or gender.	To be checked during monitoring missions	Yes

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		Clear job descriptions will be provided in advance of recruitment and will explain the skills required for each post.	To be checked during monitoring missions	Yes
		Job vacancies will be advertised in the local communities through appropriate and accessible media.	To be checked during monitoring missions	Yes
		Environmental considerations will be included in the Project procurement process.	To be checked during monitoring missions	Yes
	Procurement	Taking into account relevant commercial considerations as appropriate, the Project will seek to purchase goods and services from within Tajikistan and will monitor such purchases.	Yes	Yes
	Staff conditions and Community Relations	A Company policy limiting alcohol consumption in construction camps will be applied.	Yes	Yes
		An employee Code of Conduct will be prepared and issued to all recruits and camp residents during the employee induction process.	Yes	Yes
		Review measures to mitigate community health and safety impacts regularly, and consult community leaders every six months, informing them on the status of implementation and results, and discussing any changes needed to the Pollution Prevention Plan or the Community Health and Safety Plan in advance of proposed changes.	Likely community risks will be identified in the course of the project and measures will be established. A Community H&S Plan has been requested by the Contractor	Not yet verified
		The Employee Code of Conduct will prohibit the workforce from participating in illegal activities, including use of illegal drugs, bribery and corruption or requesting or receiving gifts from communities.	Yes	Yes
		The EPC Contractor company policy limiting alcohol consumption in construction camps will be applied	Yes	Yes
		Workforce training will include a briefing on camp rules and awareness of local social issues and sensitivities.	Yes	Yes

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		No unauthorized access to, or use of, camp facilities will be allowed.	Yes	Yes
		No hunting, fishing and unauthorized gathering of products (including plants and cultural heritage artefacts) by the workforce will be allowed.	Yes	Yes
		A range of recreational facilities will be provided within the camps to reduce the need for finding recreation in the local community.	Not practical	N/A
Land Acquisition and Compensation	Land acquisition	Implement the LARP before the commencement of construction.	LARP Implementation Report available	Yes
	Impacts to Agricultural Land	Provide advance notice to harvest the crops and where feasible, adjust the construction schedule harvest crops; construction works shall not exceed more than one crop season at a particular stretch.	Yes	Yes
		Saving the top-soil and restoration of land will be done by the EPC Contractor to previous use and farmers will be allowed to continue their cultivation post the construction.	Yes	Yes
		Ensure continuous consultation with affected households and residents; the schedule of the civil works shall be consulted with the farmers to schedule irrigation supply during the irrigation season	Yes	Yes
		Any damage to irrigation and drainage networks will be repaired by the contractor immediately	Yes	Yes
		Prior to the commencement of works all work site will be fenced (with bunting) to demarcate work zones and prevent encroachment into private land	Yes	Yes
		Areas around all work sites will be restored to their pre-work condition, to the satisfaction of the PIC	Yes	Yes

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Waste Management & Hazardous Materials	General	Construction sites, material storage yards, and access roads will be kept in an orderly condition throughout the construction period.	Yes	Yes
		Refuse and trash will be removed from the sites and disposed of in an approved manner (e.g., in an approved landfill).	Yes	Yes
		In remote areas, trash and refuse could be removed to a construction staging area and contained temporarily until such time as it could be hauled to an approved site.	Yes	Yes
		No open burning of construction trash will be permitted.	Yes	Yes
		Contaminants such as oils, hydraulic fluids, antifreeze and fuels will not be dumped on the ground, and all spills will be cleaned up.	Yes	Yes
		Ensure that the waste hierarchy is followed including prevention, minimization, reuse and recycling	Yes	Yes
		The impact of waste generation on environment during construction will be mitigated by proper storage, maximum reuse and recycling of waste and timely removal of unusable waste to agreed location according to national waste management regulations	Yes	Yes
		Provide regular training of staff in waste management issues.	Yes	Yes
		The relevant waste management legislation of each country shall be followed in the respective countries and there shall be no waste is transferred across borders for disposal.	Yes	Yes
	Recycling	All recyclable waste (plastic, metal, paper, etc.) will be sorted on source and sent for recycling where facilities for recycling of these materials exist.	Separate collection of recyclables is applied as per the WMP	Yes

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		The waste management plan should set clear guidelines for the recycling of scrap metal from steel towers and conductors	Yes	Yes
	Liquid Waste	Provide septic tanks for the camp sites servicing less than 150 employees. State authorized company to remove the liquid waste regularly.	The septic tank for collecting household wastewater is organized and covered.	Yes
		For larger sites, provide multiple septic tank facilities, or package waste water treatment plants.	N/A	N/A
	Domestic and Inert Waste	Collect domestic waste in containers fitted with lids to avoid attraction of scavengers, scattering around.	Containers with lids are installed	Yes
		Remove domestic waste to the nearest landfill under agreement with state authorized waste management companies.	A waste removal contract has been concluded with the local utility service.	Yes
		Provide garbage bins and facilities within the project site for temporary storage of domestic solid waste and construction waste.	Closed containers are installed on the construction site	Yes
		Waste storage containers will be covered, tip-proof, weatherproof and scavenger proof.	Closed containers are installed on the construction site	Yes
		Ensure that wastes are not haphazardly dumped within the project site and adjacent areas.	Yes	Yes
	Hazardous Waste	Use containers suitable for each type of waste.	Not applicable No hazardous waste	N/A
		Prohibit use of damaged containers. Check integrity of containers – regularly.	Not applicable No hazardous waste	N/A
		Mark containers adequately specifying the waste types.	Not applicable No hazardous waste	N/A
		Provide secondary containment for hazardous waste liquids.	Not applicable No hazardous waste	N/A
		Do not mix various waste streams.	Not applicable No hazardous waste	N/A

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		Hire state authorized contractor for hazardous waste removal and keep agreements with hazardous waste management company's active.	Not applicable No hazardous waste	N/A
	Records	Keep copies of waste manifests on site	Yes	Yes
		Keep a record of waste on-site and waste removed	Records of waste generation and removal are kept in a special journal.	Yes
	Training	Conduct bi-monthly training of workers on pollution prevention control including good housekeeping and how to clean up oil/fuel spills and dispose of contaminated sorbent material which would be treated as a hazardous waste. Include emergency preparedness and response procedures (drills) in case of spill. To include training for subcontractors before commencement of works	Yes	Yes
Noise and Vibration	Siting	Camp sites shall not be located within 500 meters of residential or other sensitive receptors.	The construction camp is located at Sughd substation, far from populated areas.	Yes
	General	Equipment and vehicles will be regularly maintained in accordance with the manufacturer's recommendations to help minimize noise emissions.	Equipment and vehicles are regularly maintained.	Yes
		During construction, work will be undertaken in daytime hours only – in accordance with WBG definitions.	Work is carried out during the daytime	Yes
		Noise generating construction-related activities will be avoided during evenings, school hours, prayer times, religious or cultural events near the sensitive receptors	Yes	Yes
		Construction noise in the vicinity of houses must be limited to project standards as defined in the Project IEE	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		If these noise levels are exceeded, the contractor will be required to implement additional noise mitigation measures such as adjusting his working methods or placing of temporary noise barriers to ensure the noise standard is met	Yes	Yes
		Use low noise generating equipment e.g., less than 55dBA sound pressure level at 1m	Yes	Yes
		The use of horns in areas where sensitive receptors are located (houses, schools, clinics, temples, etc.) will be prohibited	Yes	Yes
		Residents will be forewarned of planned activities that are considered by the Project to be noisy (e.g., excavation / drilling)	Yes	Yes
		If complaints are received from the local population regarding elevated noise levels, temporary noise screens shall be installed around the work site, shielding the identified receptors from the source of noise	During the reporting period, no complaints were received from the public.	Yes
		Construction workers exposure to noise should not exceed the levels set out in the General EHS Guidelines on Occupational Health and Safety otherwise the hearing protection is to be provided	Yes	Yes
		Mobile noise barriers will be provided around the construction zones for towers located within 250m of residential properties for the duration of construction in that location.	All supports are located far from residential buildings, more than 250 m.	Yes
		Where rock is encountered, the holes for tower footings shall preferably be drilled, but where blasting is to be resorted to as an economy measure, it shall be done with the utmost care to minimize the use of concrete for filling the blasted area	Yes	Yes

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		EPC Contractor to avoid soil compaction, piling, blasting and other vibration inducing activities as much as possible; in locations where this is unavoidable Contractor to identify properties within the zone of influence and undertake pre-construction structural surveys to identify level of risk	Yes	Yes
		If risk of structural damage to properties identified due to current condition, consider alternative construction method or temporary relocation of occupants during works if at risk	Yes	Yes
Physical Cultural Heritage	Chance Finds	In the event of any chance finds during the construction works procedures shall apply that are governed by GoU legislation and guidelines.	Yes	Yes
		A chance finds procedure shall also be developed by the EPC Contractor.	Yes	Yes
Utilities and Infrastructure	Access	A record will be made of the condition of access roads, construction camps, laydown areas and rail offloading areas before construction to inform the reinstatement works.	Yes	Yes
		Existing paved and unpaved roads will be used for the initial transportation of materials and equipment from the staging and storage areas to locations where they will be needed along the transmission line right-of-way	Yes	Yes
		If any new access roads are required the EPC Contractor shall do what is necessary to make the access suitable for his use and shall take all reasonable precautions to avoid damage, including, if required the erection of temporary fences or gates where permanent fences, hedges or gates have been removed	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Provide information to the public about the scope and schedule of construction activities and expected disruptions and access restrictions at least 72 hours before the disruptions.	Information boards about the project and the work have been installed in the centers of the jamoats of the districts where the work is taking place.	Yes
		Allow for adequate traffic flow around construction areas via diversions or temporary access roads.	Yes	Yes
		If temporary access roads are to be constructed with a gravel surface, they will be routinely watered by during dry weather to reduce dust impacts.	Yes	Yes
		Provide adequate traffic signs, appropriate lighting, well-designed traffic safety signs, barriers and flag persons for traffic control.	Yes	Yes
		The authorities will be notified when oversize heavy loads need to be transported and the loads will be escorted by the Project.	Yes	Yes
	Utilities	All electricity and gas supply networks in the Project area will be kept operational, particularly during the winter months.	Yes	Yes
		Liaise with the relevant utilities operators to ensure they remain operational.	Yes	Yes
		Should utilities need relocating in a different location consult with the relevant utilities and local community to ensure that there is no change in supply as a result of these changes	Yes	Yes
		During wire installation, guard structures will be erected over roads power lines, structures, and other barriers. Guard structures may not be required for small roads. In such cases other safety measures such as barriers, flagmen, or other traffic control will be used	Yes	Yes
Workers' Rights and OHS	Safety and Training	All workmen will be required to attend a safety induction course before they are allowed access to the work site.	Induction training is provided as per the OHS Plan	Yes

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		Periodic safety courses will be conducted not less than once every two months.	Training is provided as per the OHS Plan	Yes
		Regular safety meetings will be conducted on a monthly basis.	Yes	Yes
		Regularly inspect, test and maintain all safety equipment (including firefighting equipment), scaffolds, guardrails, working platforms, hoists, ladders and other means of access, lifting, lighting, signing and guarding equipment.	Yes	Yes
		Lights and signs will be kept clear of obstructions and legible to read.	Yes	Yes
		Equipment, which is damaged, dirty, incorrectly positioned or not in working order, will be repaired or replaced immediately.	Yes	Yes
		Workers will be provided (before they commence works) with appropriate PPE suitable for electrical work such as safety boots, harnesses, helmets, gloves, protective clothes, goggles, and ear protection at no cost to the workers.	Yes	Yes
	General OHS	All construction plant and equipment used on or around the Site will be fitted with appropriate safety devices.	Yes	Yes
		Zones with noise level above 80 dBA must be marked with safety signs and appropriate PPE must be worn by workers.	Yes	Yes
		Portable toilet facilities for workers at road work sites will be provided.	An outdoor toilet has been installed on the construction camp site.	Yes
		Fencing on all areas of excavation greater than 2 m deep will be installed along with warning signs.	Yes	Yes
		Ensure sufficient fresh air supply to confined work spaces.	N/A for this type of construction	N/A
		Keep air inlet filters clean and free of dust and microorganisms.	Yes	Yes

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		Ensure reversing signals are installed on all construction vehicles.	Yes	Yes
		Implement fall prevention and protection measures whenever a worker is exposed to the hazard of falling more than two meters, falling into operating machinery or through an opening in a work surface.	As per the OHS Plan	Yes
		Mark the areas where risk of injuries from falling objects exist with rope or flagging to minimize risks and injuries.	As per the OHS Plan	Yes
		Provide spotters. Employ flag persons to control traffic when construction equipment is entering or leaving the work area.	As per the OHS Plan	Yes
		A suitably staffed and equipped health clinic for all workers is to be provided on site.	Not applicable, the medical center in the nearest settlement will be used. First aid is provided on site.	N/A
		First aid kits (compliant with OSHA standard 1910.266 App. A) will be provided at all work sites.	As per the OHS Plan	Yes
		The Contractor shall keep a log of both training records and safety incidents including near misses.	Yes	Yes
	Live Power Lines	Only allow trained and certified workers to install, maintain, or repair electrical equipment.	Yes	Yes
		Deactivate and properly ground live power distribution lines before work is performed on, or in close proximity, to the lines.	Yes	Yes
		Ensuring that live-wire work is conducted by trained workers with strict adherence to specific safety and insulation standards.	Yes	Yes
		Workers should not approach an exposed energized or conductive part even if properly trained unless: • The worker is properly insulated from the energized part with gloves or other approved insulation; or,	Yes	Yes

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		• The energized part is properly insulated from the worker and any other conductive object; or, the worker is properly isolated and insulated from any other conductive object (live-line work).		
	Working at Height	Where maintenance and operation are required within minimum setback distances, specific training, safety measures, personal safety devices, and other precautions should be defined in an OHS safety plan.	Yes	Yes
		Testing structures for integrity prior to undertaking work	Yes	Yes
		Implementation of a fall protection program that includes training in climbing techniques and use of fall protection measures; inspection, maintenance, and replacement of fall protection equipment; and rescue of fall-arrested workers, among others	Staff involved in tower erection is trained for the purpose	Yes
		Establishment of criteria for use of 100% fall protection system.	Fall protection equipment is used	Yes
		Installation of fixtures on tower components to facilitate the use of fall protection systems.	Yes	Yes
		Provision of an adequate work-positioning device system for workers. Connectors on positioning systems should be compatible with the tower components to which they are attached.	Yes	Yes
		Hoisting equipment should be properly rated and maintained, and hoist operators properly trained.	Yes	Yes
		Safety belts should be of not less than 16 millimeters (mm) (5/8 inch) two-in-one nylon or material of equivalent strength. Rope safety belts should be replaced before signs of aging or fraying of fibers become evident.	Yes	Yes

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		When operating power tools at height, workers should use a second (backup) safety strap	Yes	Yes
		Signs and other obstructions should be removed from poles or structures prior to undertaking work.	Yes	Yes
		An approved tool bag should be used for raising or lowering tools or materials to workers on structures	Yes	Yes
	Workers' Rights	Set targets for local employment based on initial assessment of the labor market for unskilled and semi-skilled work force.	Hiring of employees is carried out in accordance with the Contract with BT and the labor legislation of the Republic of Tajikistan	Yes
		For unskilled use a 'ballot' system to ensure that employment is fair and not weighted to connected people for unskilled roles. Repatriation of locals through recruitment measures will use online resources.	Local staff is engaged through local subcontractors	Yes
		Provisions in the EPC Contractors contract are to include as far as practicable items to address the collective bargaining, retrenchment, worker accommodation and non-employee worker gaps, to ensure that ILO and Lender requirements are met.	The relationship between the employer and employees is regulated by Tajik labor legislation, which is included in contracts	Yes
		All employees will receive at least the minimum wage as defined by Tajikistan legislation.	Yes	Yes
		All workers will have contracts describing their job description and conditions of work and will have the contents explained to them.	Yes	Yes
	Sub-contractors	All Project sub- contractors will be supplied with copies of the SEMP.	To be checked during monitoring missions	Not yet verified
		Provisions will be incorporated into all sub-contracts to ensure the compliance with the SEMP at all tiers of the sub-contracting.	Yes	Yes

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		All subcontractors will be required to appoint a safety representative who will be available on the Site throughout the operational period of the respective sub-contract unless the PICs approval to the contrary is given in writing.	Yes	Yes
		In the event of the PICs approval being given, the PIC, without prejudice to their other duties and responsibilities, will ensure, as far as is practically possible, that employees of sub- contractors of all tiers are conversant with appropriate parts of the SEMP. To implement the above items the EPC Contractor will designate a qualified environmental, health and safety personnel	Yes	Yes
	Training	Contractor to conduct their own trainings for their construction management and provide all workers and visitors on site, irrespective of them being formally or informally employed by the contractor, subcontractor or third party with an EHS induction before being allowed on site – induction to cover orientation on EHS requirements	Yes	Yes
		Ensure topics covered by training and induction include, but are not limited to, good housekeeping at all times; environmentally safe and sound waste management practices; hygiene and communicable disease prevention including COVID-19 and HIV/AIDS; gender-based violence and sexual exploitation, abuse and harassment prevention; code of conduct, interaction with local communities and culturally acceptable practices; biodiversity conservation awareness; fire safety prevention; prohibition on trapping, hunting, fishing, or poaching by workers; chance find procedures; H&S including use of PPE; etc	Yes	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Suggestion boxes to be provided for construction workers at construction site offices and at employer provided staff accommodation	A box for complaints and suggestions from employees has been installed on the construction camp.	Yes
		Prepare with guidance of labor experts a worker Code of Conduct and information video/brochure/leaflet for distribution to all workers during induction addressing culturally acceptable practices etc.	The Environmental and Social Management Plan developed by the Contractor addresses employee behavior issues.	Yes
		Zero tolerance of illegal and unacceptable activities/behavior, including but not limited to engagement in: prostitution; gender- based violence/sexual exploitation, abuse, and harassment; illegal sale or purchase of alcohol; sale, purchase, or consumption of drugs; gambling; fighting	The Environmental and Social Management Plan developed by the Contractor addresses employee behavior issues.	Yes
		Conduct daily toolbox talks on pertinent topics related to the day's work and weekly training on occupational health and safety for all construction workers including refreshers. To include training for subcontractors before commencement of works	Yes	Yes
		Ensure workers with a specific role have attended specialized health and safety trainings related that role e.g., health and safety stewards, first aiders, fire safety officers, as well as ensuring workers have received task-specific trainings for working at height, demolition, working with electricity, etc	Yes	Yes
		Only allow suitably trained and qualified workers to work on electrical equipment and at height, these workers must have training record of attending suitable training course on electrical safety and working at height and be provided with and wear the appropriate PPE for their role	Yes	Yes
		Untrained workers must not be permitted to work with live electricity or to work at height	As per the OHS Plan	Yes

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		Conduct monthly training involving all workers on:		
		emergency preparedness and response procedures (drills) in case of an occupational or community health and safety incident during construction works including fire, natural disaster, disease outbreak etc. To include training for subcontractors before commencement of works	As per the OHS Plan	Yes
		Conduct daily toolbox talks on pertinent topics related to the day's work and weekly training on occupational health and safety for all construction workers including refreshers. To include training for subcontractors before commencement of works	As per the OHS Plan	Yes
		Ensure workers with a specific role have attended specialized health and safety trainings related that role e.g., health and safety stewards, first aiders, fire safety officers, as well as ensuring workers have received task-specific trainings for working at height, demolition, working with electricity, etc	As per the OHS Plan	Yes
	Grievances	The EPC Contractor shall establish a formal Grievance Mechanism for workers and carry out awareness raising amongst formally and informally employed workers including those of sub-contractors about the GRM at the start of their employment, including details of how to submit a grievance to PMU and/or the EPC Contractor. GRM will be available to all workers for receiving and handling complaints about unfair treatment or unsafe living or working conditions, ensuring no coercion nor reprisal	In accordance with the developed GRM, all employees have been informed of the procedure for filing and reviewing complaints. A special box for collecting employee complaints has been installed.	Yes
	Fatalities	In the event of any fatality occurring during the construction phase at any Project work site, provide ADB with the details of the fatality within one day of the event occurring in a Fatality Report	In the event of such cases, not only the Bank's procedure is provided for, but also the labor legislation of the Republic of Tajikistan.	Yes

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
Community Health and Safety	Guard Structures	Insulators, hardware, and stringing sheaves will be delivered to each tower site. The towers will be rigged with insulator strings and stringing sheaves at each ground wire and conductor position. For protection of the public during wire installation, guard structures will be erected over highways, railroads, power lines, structures, and other barriers	Yes	Yes
		Guard structures will consist of H-frame wood poles placed on either side of the barriers or by using boom trucks raising a guard cross beam. These structures will prevent ground wires, conductors, or equipment from falling across obstacles. Equipment for erecting guard structures will include augers, backhoes, line trucks, boom trucks, pole trailers, and cranes. Guard structures may not be required for small roads. In such cases other safety measures such as barriers, flagmen, or other traffic control will be used.	As per the tower design	Yes
	Grievances	Implement the Grievance Procedure to provide opportunity for local residents to raise concerns	In the center of two Jamoats, information stands about the project and boxes for complaints and statements from the population of these project areas have been installed.	Yes
	Standards and Safety Codes	Ensure that all Project infrastructure are constructed in accordance with national safety codes.	In accordance with the environmental protection, occupational health and safety plan developed by the Contractor, as well as the requirements of the Occupational Health and Safety Code.	Yes
	Hazardous Work Sites	Fence and sign immediate working area to prevent public access during construction works	Yes	Yes
		Do not leave hazardous conditions (e.g., unlit open excavations without means of escape) overnight unless no access by public can be ensured	Yes	Yes

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		All Project infrastructure will be labeled / signposted in accordance with national regulations to inform the public of the specific safety risks of each item	Yes	Yes
		All work sites will be appropriately signposted and isolated (through fencing or bunting) to prevent encroachment into these areas	Yes	Yes
	Community Liaison	Consult with local communities every six months, informing them on the status of implementation and results.	To be checked during monitoring missions	Not yet verified
		Deliver safety awareness training to, local children and their parents and/or their teachers.	Not practical	N/A
		Tower worksites and any additional temporary workspaces will be surveyed and set out (i.e. marked out and, where necessary, fenced off). The contractor will be required to keep within the designated footprint.	Yes	Yes
		Construction traffic warning signs will be positioned at road crossings and other appropriate locations as determined by the Project, for example along access routes before they are used by construction traffic.	Yes	Yes
	Traffic Accidents	A strict Project speed limit of 30km/hr will be enforced for Project vehicles using unmade tracks.	To be checked during monitoring missions	Not yet verified
		Temporary traffic control measures will be employed at road crossings and junctions (flagmen, temporary traffic lights) where a safety risk assessment has identified traffic control measures will reduce the risk of traffic accidents.	To be checked during monitoring missions	Not yet verified
		Random drug and alcohol testing of the workforce will be conducted, recorded and audited regularly.	To be checked during monitoring missions	Not yet verified

Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		At sensitive locations where traffic will be using local roads, and particularly where schools and markets are close to the road, awareness of safety issues will be raised through village meetings and classroom lessons.	Yes	Yes
		Temporary traffic control (e.g. flagmen) and signs will be provided where necessary to improve safety and provide directions	Yes	Yes
		Where traffic is diverted around crossings, traffic control or careful selection of the exit from the working areas will be provided with the aim of ensuring vehicles join the road in a safe manner.	Yes	Yes
		Night-time driving will be by exception only, as approved by the PIC, to minimize driving risk and disturbance to communities.	No construction activities at night	N/A
		People will be actively discouraged from using Project access roads unless deemed necessary to reach homes or other important sites.	Yes	Yes
		Vehicle movements will be restricted to defined access routes and demarcated working areas.	Yes	Yes
	Conflict with Security Personnel	The Project will implement the 'Voluntary Principles on Security and Human Rights'	Yes	Yes
		During construction, due diligence will be applied to selection of security providers, rules of engagement will be devised, and training provided to all personnel. Performance will be monitored and audited periodically.	Yes	Yes
	Sexually Transmitted Diseases	A worker education and awareness program regarding the risks and prevention measures associated with STDs including HIV/AIDS and other communicable diseases will be implemented.	Yes	Yes

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Topic	Impact / Issue	Mitigation measure prescribed in EMP	Implementation status, issues identified and corrective actions	In compliance?
		The Project will make information on communicable diseases and STDs available to communities' close to the camps	Not practical	N/A

57. **Conclusions and next steps.** During the reporting period, most applicable environmental parameters complied with the prescribed mitigation measures and/or monitoring standards in the EMP – with the exception of some parameters not confirmed yet during the monitoring missions. Internal monitoring will continue to ensure compliance until project completion.

2. Implementation of the project monitoring program

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58. No environmental measurements have been undertaken during the current reporting period (January-June 2026). The IEE (October 2018) does not require monitoring of environmental parameters such as atmospheric quality, environmental noise or liquid discharges – with the exception of the analysis of oil samples from deployed equipment from the 70s or 80s to identify the potential for PCB contamination. Such oil-containing equipment has not been deployed yet.

59. With regard to material resources utilisation, the following materials have been used in construction activities during the reporting period.

	Package 1	Package 2
Cement	1.2 tons	-
Sand	11.4 tons	-
Crushed stone	9.8 tons	-
Metal	1.5 tons	-
Water	36.0 tons	0.3 tons
Fuel and lubricants	3.8 tons	-
Paints and varnishes (paint, solvent)	-	-

60. With regard to waste generation, the following waste quantities have been generated so far.

	Package 1	Package 2	Management
Construction waste	137.0 kg	-	Sent to landfill
Household waste	163.0 kg	60.0 kg	Sent to landfill
Metal	278.0 kg (dismantled equipment)	-	Conveyed to BT
Plastic waste	145.0 kg	-	Sent to recycling
Foundations of old equipment	-	-	Conveyed to BT

61. No accidents, incidents or near misses have been reported within the reporting period.

62. **Internal monitoring.** During the current reporting period, the PIC's environmental specialists (K. Batos and A. Abduvaliev) visited the following sites as shown below. Photos of the site visits are shown in Appendix 3.

Date of visit	Auditor's name	Purpose of visit	Summary of findings
28-29.01.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	In general all ESHS requirements are met
11-12.02.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	No ESHS issues identified
18-19.02.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	In general all ESHS requirements are met
26-27.02.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	The Contractor has not developed an Environmental and Social Risk Management Plan (E-ESMP).
06.03.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	A number of deficiencies were identified in the camp's organization, including environmental protection and the EMP.
21-22.05.2026	Kostas Batos Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	No ESHS issues identified
24-25.06.2026	Askar Abduvaliev	Visit to Sughd to inspect the progress of the works at the substation and the L-503 line	Preparatory work is underway for the installation of the remaining supports. No ESHS issues identified

63. **Conclusions and next steps.** During the reporting period, all environmental parameters complied with the prescribed mitigation measures and/or monitoring standards in the EMP. Internal monitoring will continue to ensure compliance until project completion.

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64. According to the C-ESMP (Section 5: Monitoring Plan; 5.1: Environmental Monitoring), the Contractor is required to monitor dust levels every two weeks and noise levels once a week

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during earthworks. However, no environmental monitoring results have been made available so far. The Contractor has been notified by letter to make such results available with their monthly reports.

65. With regard to material resources utilisation, the following materials have been used in construction activities during the reporting period.

	Consumption / use
Concrete	1891.32 m3
Bitumen mastic	19.8 tn
Metal	5.0 тн
Water	80 tn
Fuels and lubricants	7,14 tn

66. With regard to waste generation, the following waste quantities have been generated so far.

	Quantity	**Management**
Construction waste	30 kg	Sent to landfill
Household waste	65 kg	Sent to landfill
Metal	60 kg	Sent for recycling
Plastic waste	95 kg	Sent for recycling
Foundations of old equipment		

67. No accidents, incidents or near misses have been reported within the reporting period.

68. **Internal monitoring.** During the current reporting period, there have been the following site visit by the PIC environmental specialists.

Date of visit	**Auditor's name**	**Purpose of visit**	**Summary of findings**
26-27.02.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	The Contractor has not developed an Environmental and Social Management Plan (C-ESMP).
30-31.03.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	A number of deficiencies in the camp's organization were identified, including environmental protection, worker health and fire safety.
15-16.04.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	The wastewater septic tank has been cleaned and capped (Photo 2).

Date of visit	Auditor's name	Purpose of visit	Summary of findings
23-24.04.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	The camp grounds have been cleared of debris (Photos 5, 6). Firefighting equipment has been fully installed (Photo 10).
7-8.05. 2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	The Contractor has developed the C-ESMP and submitted it to the Consultant for approval
13-14.05.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of a construction camp	Waste separation containers have been installed throughout the camp (Photos 7, 8).
21-22.05.2026	Kostas Batos Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	The restroom in the camp courtyard is equipped with toiletries (soap, towels) and water for washing (Photo 9).
11-12.06.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	A project description and a complaints box for camp staff have been installed (Photo 11). During construction work in the Zafarabad district (supports Nos. 39-43) on May 25, 2026, the Subcontractor has discovered an active underground gas pipeline (Contractor's letter dated June 1, 2026). Therefore, work on this (border) section was suspended.
17-18.06.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	Information boards about the project and complaint boxes for the public have been installed in the centers of the Kurush (Spitamen District) and Jami (Zaforabad District) jamoats (Photos 12, 13).

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Date of visit	Auditor's name	Purpose of visit	Summary of findings
24-25.06.2026	Askar Abduvaliev	Visit to the Sughd substation to inspect the progress of construction work at the substation, line L-503 and the organization of the construction camp	An agreement was drawn up with the local utility service regarding waste removal from the camp site (Photo 14)

69. **Conclusions and next steps.** During the reporting period, construction work commenced in mid-March, and construction and installation work on the L-500 line continued in the following months. A number of observations are relevant:

- The Contractor commenced construction activities (March 2026) prior to the approval of the C-ESMP (May 2026). This has now been rectified
- The C-ESMP is lacking a Community H&S Plan. The Contractor has been notified to submit the missing plan. The plan will be available in the next reporting period.
- The Contractor has failed to submit environmental monitoring results so far. The Contractor has been notified to include the relevant results in the monthly monitoring reports.
- A number of C-ESMP provisions have not been checked so far by the Consultant and will be checked in the next missions

~~72.~~70. All environmental non-compliances identified during the reporting period are being addressed by the Contractor and expected to be fully resolved within the next reporting period. In specific:

- The Community H&S Plan is expected to be submitted within October (and reported in the next reporting period);
- Environmental monitoring results are expected to be made available starting September onwards;
- A number of open C-ESMP issues (see Table 4) will be verified by the Consultant during the next missions

~~74.~~71. Internal monitoring will continue to ensure compliance until project completion.

3. Public consultations and grievance redress mechanism

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~~75.~~72. No public consultations were undertaken during the reporting period. Grievance redress procedures are established and exercised in the process of project implementation cycle. The Grievance Redress Mechanism (GRM) is available to provide the Grievance Redress Committee (GRC) with an effective and systematic mechanism for responding to queries, grievances and complaints from affected people (APs) and other stakeholders.

~~76.~~73. **Grievance redress mechanism.** No grievances were registered in the reporting period.

~~77.~~74. **Conclusions and next steps.** No public consultations were requested in the framework of the EMP, reflecting the fact that project activities present minimum interference with the communities or are undertaken in remote areas. The GRM is established but no grievances are registered. The operation of the GRM will continue to be supported in order to ensure that likely grievances will be captured.

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~~78.~~75. Project 0976 is using the same GRM established for project 0622 in Tajikistan. The contractor installed complaint boxes at the construction camp to make it easier for employees to file complaints. Information stands about the project and boxes for collecting complaints and appeals from the population were installed in the center of the Kurush (Spitamen district) and Jami (Zafarabad district) jamoats. No grievances were registered in the reporting period.

~~79.~~76. All enquiries/grievances related to the Project will be addressed with the participation of the PIC. The GRM covers issues related to social, environmental, and other safeguard issues under the ADB SPS 2009 and applicable laws of Tajikistan. The following are the designated members of the GRC at the Project level.

Table 5. Grievance Redress Committee at the Project Level - Tajikistan

Name	Members
Nusratullo Asrorzoda	Executive Director
Ilkhom Komilov	Project Manager
Aziz Kholov	Head of Environmental and Social Monitoring Department
Ilkhom Mustafoev	Chief Specialist on Social Issues and Environment Protection

~~80.~~77. In Uzbekistan, the PMU has in place a simple mechanism for handling and resolving complaints. The mechanisms provides for three levels of addressing complaints:

- Level 1 (Mahalla/Rural Assembly)
- Level 2 (Project Management Unit)
- Level 3 (Provincial Hokimiyat)

~~81.~~78. An aggrieved person may submit his/her complaint to an appropriate court of law at any stage of the grievance redress process at the expense, irrespective of the outcome of the project level GRM. Accessing a court of law is not a part of the GRM process.

~~82.~~79. Contact Details of person whom citizens may approach for their complaints and concerns is Mr. Batirov Azizbek – social and Environmental specialist of JSC 'National Electricity Grids of Uzbekistan' in Tashkent, Osiyo street, 42, Phone: +998 71 236 66 02, +998 71 236 66 16 and email: northwest220g3@gmail.com

~~83.~~80. **Conclusions and next steps.** No public consultations relevant to project construction took place in the reported period and no grievances were registered. The GRM is operational, with information boards / complaint boxes installed in June 2026. During the subsequent reporting periods, the PIC will ensure that both the PMU and the Contractor further support and advertise the appropriate mechanisms to receive and manage grievances.

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4. Training and capacity building

~~84.~~81. No ad-hoc training activities related to environmental safeguards were undertaken in this period, other than routine toolbox talks for project 0622. Induction training and TBT have been undertaken for project 0976 a after March 2026 when construction started.

~~85.~~82. **Conclusions and next steps.** Ad-hoc training (other than toolbox talks) was not undertaken as there has been no need. In case non-conformances are identified in the next reporting period, additional training will be undertaken.

5. Costs of EMP implementation during the reporting period

~~86.~~83. An estimation of the total costs spent to implement the EMP is difficult, because (i) the costs are spread across the PMO, contractors and CSC; (ii) the costs for environmental management are usually included within the lump sum contract amounts between the PMO and contractors or other agencies. Notwithstanding the above, an assumption of the main cost categories and expenditure is provided below.

Table 6. Estimated C-ESMP costs* and expenditure (USD)

Item	Cost USD)	Expenditure (USD)
Design phase mitigation[3]	26,250	0
Estimated at 1% of total civil works cost	150,000	15,000
EPC staff costs	72,000	7,200
PIC staff costs	114,000	11,400
Instrumental monitoring (estimate)	10,000	0
Total	**237,250**	**33,600**

- Costs as per the IEE

6. Compliance with loan and project assurances

~~88.~~84. The loan agreement and project agreement between the government and ADB includes 8 assurances (or “covenants”) for environmental safeguards and/or related to environmental issues (Appendix 1). These relate to the timely and effective implementation of the EMP, as well as project-specific assurances tailored to the current project. Compliance with these assurances is a condition of the loan and project agreements. For the current reporting period all of the assurances are being complied with.

7. Issues for Follow-Up Documented in the Previous Environment Monitoring Report and any Missions undertaken During the Current Reporting Period

~~89.~~85. No follow up issues from previous environmental monitoring report for project 0622.

~~90.~~86. During the current reporting period for Project 0976, a number of issues were identified, for which the Contractor took appropriate measures:

[3] It reflects the cost of bird diverters which have not been installed yet

Table 7: Corrective actions to address environmental issues identified in the previous environmental monitoring report.

Issue	Action	By When	By Whom	Corrective Action
The Contractor has not developed an Environmental and Social Management Plan (C-ESMP)	• Develop a Plan and submit it to the Consultant for approval	Submitted in May 2026	Contractor of Package 1	The Contractor has developed an Environmental and Social Management Plan (C-ESMP) and submitted it to the Consultant for approval. Appendix 6.
Compliance with worker welfare and health protection, with an emphasis on:				
• The wastewater septic tank is littered with household waste and is not covered at the top (Photo 1)	• Clear the waste and cover the septic tank.	15.04.2026	Contractor of Package 1	The wastewater septic tank has been cleaned and covered with a lid (Photo 2).
• The camp grounds are littered with waste (Photos 3 and 4)	• Clear the area of household waste.	24.04.2026	Contractor of Package 1	The camp grounds have been cleared of debris (Photos 5, 6).
• The camp lacks fire protection equipment	• Install fire protection shields and ensure the availability of equipment.	24.04.2026	Contractor of Package 1	Fire-fighting equipment has been fully installed (Photo 10).
• There are no waste separation areas or containers	• Identify and install containers for separate waste collection in the camp.	14.05.2026	Contractor of Package 1	Waste separation containers have been installed throughout the camp (Photos 7, 8).
• The yard latrine is not equipped with hygiene products	• Provide sanitary facilities with hygiene products at all times.	22.05.2026	Contractor of Package 1	The restroom in the camp courtyard is equipped with toiletries (soap, towels) and water for washing (Photo 9).
• Compliance with the GRM. There is no box for collecting complaints and statements from employees	• Install a complaint box for employees.	12.06.2026	Contractor of Package 1	A project description and a complaint box for camp staff have been installed (Photo 11).
Improve project visibility, inform the public and improve GRM	• Install information boards to inform local authorities and the public, and complaint boxes for potential complaints from the public.	18.06.2026	Contractor of Package 1	Information boards about the project and complaint boxes for the public have been installed in the centers of the Kurush (Spitamen District) and Jami (Zaforabod District) jamoats (Photos 12, 13).

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Issue	Action	By When	By Whom	Corrective Action
Compliance with the requirements of the Republic of Tajikistan's legislation "On Production and Consumption Waste" and the requirements of the Environmental and Consumption Management System	• Maintain records of waste generation.		Contractor of Package 1	Waste generated is recorded in a special Waste Log (photo 14).
	• Waste removal should be carried out only under contract with local public utilities.	25.06.2026	Contractor of Package 1	An agreement has been drawn up with the local utility service regarding waste removal from the camp grounds.

8. Reporting

~~91.~~87. The project reporting requirements for environmental safeguards are summarized in Table 7 and comprise:

Table 8. Project reporting requirements for environmental safeguards

Reports	From	To	Frequency	Progress this reporting period	Comments
Construction phase					
EMR (overall progress of EMP implementation)	PMO	ADB	Semi-annual	100%	EMoR submitted
SMR (overall progress of EMP implementation on the social domain)	PMO	ADB	Semi-annual	100%	SMoR submitted
Project completion report – includes safeguards	PMO	ADB	Once (project completion)	0%	PCR not submitted yet

ADB = Asian Development Bank, CSC = construction supervision company, EMP = environmental management plan, EMR = environment monitoring report, EPB = environment protection bureau, LIEC = loan implementation environment consultant, PIU = project implementation unit, PMO = project management office.

~~92.~~88. Conclusions and next steps. Progress reporting from the PMO to ADB complies with the EMP reporting schedule. The next EMP report will be prepared between July and December 2026 and submitted to ADB in January 2027.

IV. LESSONS LEARNED

~~93.~~89. Key lessons learned during the reporting period for environmental management were: (i) close monitoring of the Contractor's activities for Package 1 is necessary in order to ensure that EMP requirements are complied with, especially the ones related to the use of PPEs and the maintenance of living standards for staff working on the project;

~~94.~~90. These lessons will be applied to the project as follows: Monitoring of construction activities will continue with emphasis on those projects where construction activities are still on-going, and focus on H&S issues.

V. NEXT STEPS

~~95.~~91. Based on the findings of this EMR, the following corrective actions are required for the next reporting period:

- The Community H&S Plan is expected to be submitted by the Contractor within October;

- Environmental monitoring results are expected to be made available by the Contractor starting September onwards;
- A number of open C-ESMP issues (see Table 4) will be verified by the Consultant during the next missions
- Continued biodiversity / pre-clearance monitoring will be carried out at tower locations to ensure no sensitive flora or fauna is affected

~~99.~~92. Due to the discovery of an underground gas pipeline on supports Nos. 39-43, construction has been suspended and the project design route is being revised. Prior to the re-start of the works, the following will be done:

- Confirm technical and safety assessment of the revised route;
- Ensure coordination with the pipeline owner and competent authorities;
- Confirm route change;
- Revise C-ESMP if necessary;
- Update and implement LARP.

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APPENDIX 1. COMPLIANCE WITH ENVIRONMENTAL ASSURANCES

This appendix lists the environmental safeguard assurances for the project, as per the grant agreement signed between Tajikistan and ADB, and the status of compliance with these assurances during the reporting period.

Project 0622 (signed 23 November 2018[4])

Paragraph	Covenant	Compliance Status
23 Schedule 3	**Procurement** The Recipient shall ensure that Barqi Tojik does not award any Works contracts which involved environmental impacts until: (a) The appropriate environment authority of the Recipient has granted the final approval of the IEE; and (b) Barqi Tojik has incorporated the relevant provisions from the EMP into the Works contract.	**Complied** (a) Approval of SEE was obtained on 25 January 2019. (b) Both Packages 1 and 2 awarded contracts include reference to EMPs cleared by ADB and conditions of SEE approval (listed under para. **Error! Reference source not found.**).
26 Schedule 3	**Environment** The Recipient shall cause Barqi Tojik 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 environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	**Complied** The approved (with comments) of HSEMP for both Packages 1 and 2 include provisions for compliance with all applicable laws and regulations, Environmental Safeguards, EMP provisions and audit findings.
30 Schedule 3	**Human and Financial Resources to Implement Safeguards Requirements** The Recipient shall cause Barqi Tojik to make available necessary budgetary and human resources to fully implement the EMP and the LARP and shall ensure that Barqi Tojik has such budgetary resources available.	**Complied** BT has made available the necessary human resources as per Table 1. There has been no need for land acquisition or compensation so far.
31 Schedule 3	**Safeguards – Related Provisions in Bidding Documents and Works Contracts** The Recipient shall cause Barqi Tojik to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures relevant to the contractor set forth in the IEE, the EMP and the LARP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (c) provide Barqi Tojik with a written notice of any unanticipated environmental or resettlement	**Complied** a) Both Packages 1 and 2 awarded contracts include reference to EMPs cleared by ADB and conditions of SEE approval (listed under para. **Error! Reference source not found.**). b) A budget on ESMP implementation was included in the bidding documents c) The provision of notifying Barqi Tojik for any unanticipated risks has been included in the contracts

[4] ADB. Grant Agreement (Special Operations) for Grant 0622-TAJ: Reconnection to the Central Asian Power System Project (23 November 2018). https://www.adb.org/sites/default/files/project-documents/52122/52122-001-grj-en.pdf

Paragraph	Covenant	Compliance Status
	risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the LARP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) reinstate pathways, other local infrastructure, and agricultural land to at least their pre-Project condition upon the completion of construction.	d) The Contractors will record and photograph the condition of roads and infrastructure prior to using them for project purposes e) Any damage to land or infrastructure due to the project will be reinstated
32 Schedule 3	**Safeguards Monitoring and Reporting** The Recipient shall cause Barqi Tojik to do the following: (a) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the LARP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the IEE, the EMP or the LARP promptly after becoming aware of the breach.	**Complied** (a) SAEMRs have been prepared. The previous SAEMR (July-December 2025) was disclosed at ADB website[5] and at Barqi Tojik website [6] in Russian language. (b) To address unanticipated impact of COVID-19 risks, a HSEMP (including COVID-19 prevention and mitigation measures) has been prepared and approved. (c) No breach of compliance has been identified.
33 Schedule 3	**Prohibited List of Investments** The Recipient shall ensure, and shall cause Barqi Tojik to ensure, that no proceeds of the Grant are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	**Complied** To the Consultant's knowledge, no prohibited investment activities, as per Appendix 5 of the SPS, have taken place.
34 Schedule 3	**Labor Standards, Health and Safety** The Recipient shall cause Barqi Tojik to ensure that the core labor standards and the Recipient's applicable laws and regulations are complied with during Project implementation. The Recipient shall cause Barqi Tojik to include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things: (a) comply with the Recipient's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation;	**Complied** Relevant provisions have been included in the Contract/Special Conditions of the Contract/item 22.2 for both contracts (Package 1 and Package 2).

[5] G0622 Semi-Annual Environmental Monitoring Report (July-December 2025) disclosed at ADB website
[6] G0622 Semi-annual environmental monitoring report (July-December 2025) disclosed at Barqi Tojik website

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Paragraph	Covenant	Compliance Status
	(d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining; and (f) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.	
35 Schedule 3	The Recipient shall cause Barqi Tojik to strictly monitor compliance with the requirements set forth in paragraph 34 above and provide ADB with regular reports.	**Complied**

Project 0976 (signed on 11 October 2024[7])

Paragraph	Covenant	Compliance Status
20 Schedule 3	**Environment** The Recipient shall cause Barqi Tojik to ensure, in coordination with NEGU in relation to the Uzbekistan section. 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 environment. health and safety for the Tajikistan section, and all applicable laws and regulations of Uzbekistan relating to environment, health and safety for the Uzbekistan section. (b) the Environmental Safeguards and (c) all measures and requirements set forth in the IEE, the EMP. and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	**Complied** The approved C-ESMP includes provisions for compliance with all applicable laws and regulations, Environmental Safeguards, EMP provisions and audit findings.
21 Schedule 3	**Land Acquisition and Involuntary Resettlement** The Recipient shall cause Barqi Tojik to ensure, in coordination with NEGU in relation to the Uzbekistan section, that all land and all rights-of-way required for the Project are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with (a) all applicable laws and regulations of the Recipient relating to land acquisition and involuntary resettlement for the Tajikistan section, and all applicable laws and regulations of Uzbekistan relating to land acquisition and involuntary resettlement for the Uzbekistan section; (b) the Involuntary Resettlement Safeguards; and (c) all measures and requirements set forth in the LARPs: and any corrective or	**Complied** The LARP for the Tajikistan section has been prepared, approved and implemented. A LARP implementation report was issued and approved.

[7] ADB. Grant Agreement (Special Operations) for Grant 0976-TAJ: Reconnection to the Central Asian Power System Project – Additional Financing. https://www.adb.org/sites/default/files/project-documents/52122/52122-002-grj-en.pdf

Paragraph	Covenant	Compliance Status
	preventative actions set forth in a Safeguards Monitoring Report.	
22 Schedule 3	**Land Acquisition and Involuntary Resettlement** Without limiting the application of the Involuntary Resettlement Safeguards or the LARPs. the Recipient shall cause Barqi Tojik to ensure that no physical or economic displacement takes place in connection with the Project until: (a) compensation and other entitlements have been provided to affected people in accordance with the LARPs and (b) a comprehensive income and livelihood restoration program has been established in accordance with the LARPs.	**Complied** The approved LARP for the Tajikistan section foresees compensation to affected people. No livelihood restoration has been considered necessary.
24 Schedule 3	**Human and Financial Resources to Implement Safeguards Requirements** The Recipient shall cause Barqi Tajik to make available necessary budgetary resources to fully implement the EMP and the LARPs for both the Tajikistan section and Uzbekistan section and shall ensure that Barqi Tojik has such budgetary resources available. The Recipient shall also cause Barqi Tojik to make available necessary human resources to fully implement the EMP and the LARPs (in the case of the Uzbekistan section, as necessary for coordination with NEGU).	**Complied** BT has made available the necessary human resources for the monitoring of Contractor's performance and progress of the works. BT has also provided compensation to affected persons as per the LARP.
25 Schedule 3	**Safeguards – Related Provisions in Bidding Documents and Works Contracts** The Recipient shall cause Barqi Tojik to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (f) comply with the measures relevant to the contractor set forth in the IEE, the EMP and the LARP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report; (g) make available a budget for all such environmental and social measures; (h) provide Barqi Tojik with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the LARP; (i) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (j) reinstate pathways, other local infrastructure, and agricultural land to at least their pre-Project condition upon the completion of construction.	**Complied** f) Awarded contract includes reference to EMPs cleared by ADB and conditions of SEE approval. g) A budget on ESMP implementation was included in the bidding documents h) The provision of notifying Barqi Tojik for any unanticipated risks has been included in the contract i) The Contractor will record and photograph the condition of roads and infrastructure prior to using them for project purposes j) Any damage to land or infrastructure due to the project will be reinstated
32 Schedule 3	**Safeguards Monitoring and Reporting** The Recipient shall cause Barqi Tojik to do the following, and/or for the Uzbekistan section, take all	**Complied** (d) SAEMRs have been prepared as planned, disclosed at ADB

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Paragraph	Covenant	Compliance Status
	actions which shall be necessary on its part to enable NEGU to provide implementation Support as set forth in the PAM and Implementation and Operation Agreement in relation to the following: (d) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (e) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the LARP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (f) report any actual or potential breach of compliance with the measures and requirements set forth in the IEE, the EMP or the LARP promptly after becoming aware of the breach.	website and at Barqi Tojik website in Russian language. (e) To address unanticipated impact of COVID-19 risks, a HSEMP (including COVID-19 prevention and mitigation measures) has been prepared and approved. (f) Any potential breach of compliance identified during field missions is included in the SAEMR with appropriate mitigation measures and time-plan for resolving it.
27 Schedule 3	**Prohibited List of Investments** The Recipient shall ensure, and shall cause Barqi Tojik to ensure, that no proceeds of the Grant are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	**Complied** To the Consultant's knowledge, no prohibited investment activities, as per Appendix 5 of the SPS, have taken place.
28 Schedule 3	**Labor Standards, Health and Safety** The Recipient shall cause Barqi Tojik to ensure, in coordination with NEGU in relation to the Uzbekistan section. that the core labor standards and the Recipient's applicable laws and regulations for the Tajikistan section and the applicable laws and regulations Of Uzbekistan for the Uzbekistan section are complied with during Project implementation. The Recipient shall cause Barqi Tojik to include specific provisions in the bidding documents and Contracts financed by ADB under the Project requiring that the contractors. among other things: (f) comply with the Recipient's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (g) do not use child labor; (h) do not discriminate workers in respect of employment and occupation; (i) do not use forced labor; (j) allow freedom of association and effectively recognize the right to collective bargaining; and (k) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.	**Complied** Relevant provisions have been included in the Contract/Special Conditions of the Contract.

Paragraph	Covenant	Compliance Status
35 Schedule 3	The Recipient shall cause Barqi Tojik, in coordination With NEGU in relation to the Uzbekistan section, to strictly monitor compliance with the requirements set forth in paragraph 28 above and provide ADB with regular reports.	**Complied**

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APPENDIX 2. MONITORING DATA

No monitoring data is available or required.

APPENDIX 3. PHOTOGRAPHS

Project 0622 CONTRACTOR 1





Photo 1,2 At the Shar Shar SS and Sughd substation, all workers undergo training (TBT) before starting work.









Photo 3,4. Construction works at Sughd and Shar Shar SS. Workers are provided with personal protective equipment (PPE).

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Project 0622 Contractor 2



Photo 1. The waste registration log is kept regularly.



Photo 2. The contract with the city's public utility service has been extended until 2026

















Photo 3, The workplace is equipped with a a first aid kit, a fire extinguisher, warning and information signs

Project 0976



Photo 1. Wastewater is discharged into a pit cluttered with other waste, the pit is not covered at the top



Photo 2. The wastewater settling tank has been cleaned and covered with a lid at the top





Photo 3,4 Construction camp area is littered with household waste





Photo 5,6 The camp area has been cleared of waste

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Photo 7,8. Recycling bins have been installed



Photo 9. The courtyard toilet is equipped with hygiene products (soap, towel) and water for washin



Photo 10. Fire-fighting equipment is installed in full

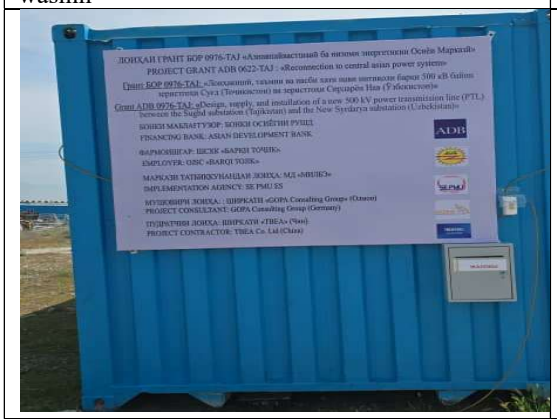




Photo 11. A project description and a box for collecting complaints and requests from camp employees have been installed

Photo 14. An agreement has been concluded with the local utility service for the removal of waste from the camp territory




Photo 12,13 . Information stands on the project and boxes for collecting complaints and statements from the population were installed in the center of the Kurush (Spitamen district) and Jami (Zafarabad district) jamoats

Photos 15-28: Photos of the construction stages of the new L-500 line – Zafarabad, Spitamen and Devashtich.








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HUAWEI nova 11
Ultra Vision Camera




VOLVO















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APPENDIX 4. PUBLIC CONSULTATIONS AND GRIEVANCE REDRESS

No public consultation records are available.

APPENDIX 5. TRAINING ACTIVITIES

No training activities were undertaken this reporting period.

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APPENDIX 6. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (C-ESMP)" FOR THE CONSTRUCTION ACTIVITIES AT THE SUGHD – SYRDARYA OHL

REPUBLIC OF TAJIKISTAN

Employer: OSHC «BARQI TOJIK»

Project Manager: SE "PMUES"

Consultant: GOPA – Tech

Contractor : JSC "TBEA"

Contract: ADB G0622-TAJ

Project: Reconnection to Central Asian Power System Project

Emergency Control System.

Package 1: Construction of OHL-500 kV, modernization of HV substation equipment, relay protection, telecommunication and SCADA, installation of OPGW cables and additional Financing ADB Grant 0976-TAJ: Design, supply, installation of a new 500 kV transmission line between Sughd Substation (Tajikistan) and New Syrdarya Substation (Uzbekistan).

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN FOR CONSTRUCTION (C-ESMP)

Dushanbe 2026

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN FOR CONSTRUCTION (C-ESMP)

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Project name	**Design, supply, installation of a new 500 kV transmission line between Sughd Substation (Tajikistan) and New Syrdarya Substation (Uzbekistan)**
Grant number	**0976-TAJ (additional funding to Grant 0622-TAJ)**
Country	**Republic of Tajikistan (cross-border power line to Uzbekistan)**
Customer	**OSHC "Barki Tojik"**
Project Manager	**SE "PMUES"**
Consultant	**GOPA-Tech**
Contractor	**Representative offices of JSC TBEA in the Republic of Tajikistan**
Financing institution	**Asian Development Bank (ADB)**

Project name	**Design, supply, installation of a new 500 kV transmission line between Sughd Substation (Tajikistan) and New Syrdarya Substation (Uzbekistan)**
Project category by ADB ESS	**B (limited impact expected, managed locally)**

1. INTRODUCTION AND OBJECTIVES

1.1 Purpose of C-ESMP

Ensure that all construction work under the project (expansion of the substation, installation of 500 kV overhead lines, construction of cells) is carried out in accordance with:

- Applicable national legislation of Tajikistan and Uzbekistan;
- ADB Environmental and Social Safeguards Policy (2009);
- EU environmental standards (if applicable under the grant conditions);
- Occupational health, safety and security (OHS) requirements.

1.2 C-ESMP Tasks

- Identify potential environmental and social risks during the construction phase.
- Establish measures to mitigate, monitor and manage these risks.
- Determine the responsibilities of contractors, subcontractors and the Customer.
- Provide a complaints mechanism for affected communities.

2. DESCRIPTION OF ACTIVITIES AT THE CONSTRUCTION STAGE

Major construction works include:

Component	Types of work
Expansion of the Sughd border	Excavation work, pouring foundations for 500 kV equipment, installation of portals, installation of switches, disconnectors, current

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Component	Types of work
crossing point (Tajikistan)	and voltage transformers, installation of relay protection and automation systems, automatic control systems, SCADA, AC/DC, grounding.
Expansion of the New Syr Darya substation (Uzbekistan)	Similar work is underway in Uzbekistan.
New 500 kV power line (~22 km)	Clearing the route (10–15 m), digging pits for supports, concreting foundations, assembling and installing metal supports (lattice), tensioning the wire and ground wire, installing insulators and fittings.
Access roads	Improvement of existing dirt roads, creation of temporary access roads to support installation sites.

3. ENVIRONMENTAL AND SOCIAL ASPECTS AND MITIGATION MEASURES

3.1 Physical resources (soil, water bodies, air)

Aspect	Risk	Mitigation measures (construction phase)	Responsible
Soil and land use	Erosion, soil compaction, fuel and lubricant contamination during the construction of supports and substations	- Removal and separate storage of the fertile soil layer. - Construction of sites for refueling equipment with pallets. - Regular collection of used oils. - Reclamation of all temporary lands.	Contractor
Water bodies	Pollution of surface waters with suspended solids and oil products	- Prohibition of washing equipment in water protection zones. - Installation of settling	Contractor, Ecologist

Aspect	Risk	Mitigation measures (construction phase)	Responsible
	when crossing streams (if any)	tanks during concrete work. - Crossing watercourses using the “without stopping the flow” method.	
Air quality	Dust from excavation work, emissions from diesel equipment	- Watering dry areas during windy weather. - Regular maintenance of equipment. - Speed limits on temporary roads.	Contractor

3.2 Biodiversity

Aspect	Risk	Mitigation measures	Responsible
Flora	Destruction of trees and shrubs in the right-of-way (ROW)	- Minimization of the clearing width (no more than the nominal). - Marking of trees to be preserved. - Compensatory plantings (subject to agreement with local authorities).	Contractor + forestry
Fauna	Disturbance and death of animals, disruption of migration routes	- Pre-construction inventory of burrowing animals. - Hunting prohibited on the construction site. - Speed limit: no more than 30 km/h on approaches.	Contractor, protected area (if nearby)

3.3 Social aspects

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Aspect	Risk	Mitigation measures	Responsible
Land use and eviction	Temporary or permanent seizure of land for supports (usually small areas)	- Conducting a land use impact assessment (LAR).- Drawing up a compensation matrix before the start of works.- Installation of supports while minimizing crop interference.- Voluntary consent procedure.	Social specialist, Client
Employment and local income	- Bringing in outside labor can cause stress	- Priority hiring of local residents for unskilled jobs.- Transparent recruitment.- Contracts for local services (food, transportation).	Contractor (HR)
Community Health and Safety	Risk of electric shock, unauthorized access to the substation construction site	- Fencing of active construction zones.- Safety signs in the local language (Tajik/Uzbek/Russian).- Informing the population through mahalla committees.	Contractor, HSE

3.4 Cross-border aspects (Tajikistan – Uzbekistan)

Aspect	Risk	Mitigation measures	Responsible
Synchronization of works	Different occupational health and safety and environmental standards at two sites	- Development of a unified HSE manual for contractors (both countries). - Joint inspections by ADB and the Client. - Exchange of monthly environmental reports through the project office.	PMU (JSC Barki Tojik)

Aspect	Risk	Mitigation measures	Responsible
Social conflicts	Possible tensions due to the transit of goods across the border	- Transportation of goods along agreed corridors. - Advance notification of border communities about the convoy schedule.	Contractor + customs authorities

4. OCCUPATIONAL HEALTH, SAFETY AND HEALTH (OHS)

Requirement	Measure
Education	All workers undergo introductory training on occupational health and safety and environmental protection. Work at height (installation of transmission line supports) receives separate instruction.
PPE	Mandatory use of helmets, gloves, dielectric shoes (at PS), safety harnesses.
Electrical safety	Work near the operating equipment of the Sugd and Novaya Syr Darya substations is subject to a work permit, with grounding and blocking.
COVID / infections	Compliance with sanitary requirements (disinfection, isolation in case of symptoms).
Hazardous waste management	Waste oils, oily rags, and batteries are handed over to licensed companies.

5. MONITORING PLAN

5.1 Environmental monitoring

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What is measured	Indicator	Frequency	Place	Responsible
Air quality (dust)	Solid suspended particles (TSP)	Once every 2 weeks during active excavation work	The nearest residential buildings to the highway and substation	Contractor's ecologist
Noise level	dBA day/night	Weekly	Construction site boundary	Ecologist
Surface waters	pH, petroleum products, suspended solids	Before, during and after (near watercourses)	Stream/river in the intersection area	Accredited laboratory
Reclamation	% of area restored	Monthly, final	Temporary roads, support sites	Order

5.2 Social monitoring

Parameter	Method	Frequency
Complaints from the population	Complaints book, hotline, entry in the State Inspectorate of Police journal	Constantly, monthly report
Compensation execution	Payroll verification, household interviews	Quarterly
Availability of local workers	Analysis of the contractor's staffing schedule	Monthly

6. GRIEVANCE RELEASE MECHANISM (GRM)

Any person or organization can file a construction-related complaint:

Level	Contact	Response time
Field level	Senior foreman (master) - in person, or by entry in the logbook at the trailer	3 days
Contractor level	Contractor's Environmental/Social Manager: Tel. [specify]	7 days
Customer (OJSC "Barki Tojik")	Department of Environmental Protection and Social Issues: e-mail [specify]	14 days
ABR (escalation)	ADB Contact Point for Accountability (CRP)	According to ADB regulations

The complaint is registered in writing (or orally with a recording), a number is assigned, and the applicant receives notification of the progress of the review.

7. TRAINING AND AWARENESS RAISING

Topic	Who is studying?	Format	Term
Introductory course on C-ESMP	All workers and engineering and technical personnel	Oral	Before being allowed to work
Waste and fuel management	Drivers, machinists, storekeepers	Practical instruction	Once a month

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Topic	Who is studying?	Format	Term
Social responsibility (GRM, behavior with the population)	Foreman, foremen	Separate module (1 hour)	When hiring
Oil spill response	Environmental service, emergency teams	Training at the training ground	Once every 6 months

8. EMERGENCY SITUATIONS AND UNEXPECTED IMPACTS

If previously unaccounted for serious impacts are identified (e.g., an archaeological find, the death of a listed species, a mass complaint), the Contractor is obliged to:

1. Immediately stop work in the incident area.
2. Notify the Customer and the ABR ecologist within 24 hours.
3. Develop and agree on a Corrective Action Plan (CAP).
4. Resume work only after written permission.

9. RESPONSIBILITY AND DISTRIBUTION OF RESPONSIBILITIES

Role	Responsibilities
Contractor (EPC contractor)	Full implementation of the C-ESMP, funding of environmental activities, maintaining an ecologist (designated person), maintaining environmental and social documentation.
Engineer (Construction Supervision Consultant)	Verification of compliance with C-ESMP, inclusion of environmental requirements in hidden work reports, and suspension of work in case of violations.
OJSC "Barki Tojik" (PMU)	General control, provision of resources, interaction with ADB, public reporting.

Role	Responsibilities
ABR	Monitoring compliance, conducting review missions, and handling escalated complaints.

10. C-ESMP IMPLEMENTATION SCHEDULE (CONSTRUCTION PHASE)

Stage	Action	Deadlines
Before starting work	Approval of C-ESMP by ADB and the Client, training of contractor personnel, launch of GRM, receipt of land compensation	Min. 1 month before mobilization
During civil works (0-6 months)	Daily control, regular monitoring, monthly reports to PMU	The entire period
During installation of equipment and power lines (3–7 months)	Special control of electrical safety, noise, and public access	The entire period
After completion	Final reclamation, reporting, GRM closure, land transfer	Last 2 months

11. APPENDICES (to be completed during implementation)

- Appendix 1: Information plate
- Appendix 2: Map of the overhead power line route
- Appendix 3: Camp Layout Plan
- Appendix 4: Camp Management Plan
- Appendix 5: Waste Management Plan
- Appendix 6: Waste Log

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- Appendix 7: Soil Removal Management Plan
- Appendix 8: Spill Emergency Response Plan
- Appendix 9: Complaint Registration Form
- Appendix 10: Agreement with a licensed organization for the removal/disposal of hazardous waste. (in progress / to be presented later)

- **Signatures:**

Job title	**Full name**	**Signature**	**Date**
Representative of OSCH "Barki Tojik"	_____	_____	__/____2026
PMU representative	_____	_____	___/____2026
Chief ecologist of the project	_____	_____	___/____2026
Representative of JSC TBEA in RT	_____	_____	___/____2026

APPENDIX 7. IMPLEMENTATION STATUS OF PACKAGE 1 & 2

Package 1: Implementation Status as of 30.06.2026 (project 0622)

No.	Name of Substation	Performed	Remaining	Completion %
Projects' Location				
1.	Regar	• Partial installation and commissioning of 220kV primary equipment • Partial completion of civil works and foundations • Partial installation and commissioning of relay protection (500kV and 220kV) • Partial design approval of DCS system • Design Approval of PABX • Installation of ODF • Delivery and installation of PABX • Partial connection DCS to NCC and BUNCC	• Partial installation of relay protection • Partial installation of 220kV primary equipment • Partial LMU approval, procurement, testing, delivery and installation • Partial procurement, testing, delivery and installation of DCS • Partial connection DCS to NCC and BUNCC • Detailed design of Transmission of ECS signals and telemetry • Substation landscape, roads and trenches • Connection to earthing system and AC system for ODF • Handing over certificate Partial installation of relay protection • Partial installation of 220kV primary equipment • LMU approval, procurement, testing, delivery and installation • Procurement, testing, delivery	71%

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No.	Name of Substation	Performed	Remaining	Completion %
			and installation of DCS • Partial connection DCS to NCC and BUNCC • Detailed design of Transmission of ECS signals and telemetry • Substation landscape, roads and trenches • Connection to earthing system and AC system for ODF • Handing over certificate • Commissioning of PABX	
2.	Sughd	• Design approval of Batteries 48V • Partial design approval of relay protection equipment • Delivery of Batteries • Delivery of relay protection • Partial installation of relay protection • Installation and testing of Batteries	• Detailed design of Transmission of ECS signals and telemetry • Testing of Batteries • Partial installation of relay protection • Detailed design of DCS upgrade and update	40%
3.	Shar-Shar	• Partial completion of civil work for control building and 10kV switchgear room • Partial delivery, installation and commissioning of 220kV primary equipment	• Partial design and technical specification of 10kV and 35kV equipment • LMU approval, procurement, testing, delivery and installation • Partial procurement, testing, delivery	78%

No.	Name of Substation	Performed	Remaining	Completion %
		• Partial approval of DCS system • Partial completion of equipment concrete foundation • Partial delivery installation of gantries, metal structures, relay protection panels • Partial design approval of batteries and relay protection equipment • Extension of 220kV switchyard • Partial installation and commissioning of relay protection • Partial installation of 220kV primary equipment • Delivery of batteries 220/48 v and AC system • Partial design and technical specification of 10kV and 35kV equipment • Partial installation of batteries 220/48 v AC system • Partial procurement, delivery and installation of DCS	and installation of DCS • Connection DCS to NCC and BUNCC • Partial installation of batteries 220/48 v AC system • Detailed design of Transmission of ECS signals and telemetry • Substation fence, landscape, roads and trenches	
4.	FEZ Dangara	• Partial design approval of relay protection equipment	• Partial detailed design of Transmission of ECS signals and telemetry	25%

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No.	Name of Substation	Performed	Remaining	Completion %
		• Partial delivery of relay protection • Partial detailed design of Transmission of ECS signals and telemetry	• Partial delivery and installation of relay protection • Connection DCS to NCC and BUNCC	
5.	Sangtuda HPP-1	• Partial design approval of relay protection equipment • Partial delivery of relay protection • Partial detailed design of Transmission of ECS signals and telemetry	• Detailed design of Transmission of ECS signals and telemetry • Partial delivery and installation of relay protection	30%
6.	Rogun HPP	No activities	• Detailed design of Transmission of ECS signals and telemetry • Connection DCS to NCC and BUNCC • Detailed design of AGC	0%
7.	Rogun SS	• LMU approval • Partial detailed design of Transmission of ECS signals and telemetry	• LMU procurement, testing, delivery and installation • Partial detailed design of Transmission of ECS signals and telemetry • Connection DCS to NCC and BUNCC	8%
8.	Dushanbe SS	• Design approval of Batteries 48V • Partial design approval of relay protection equipment • Delivery, of Batteries	• Partial detailed design of Transmission of ECS signals and telemetry • Testing of Batteries	50%

No.	Name of Substation	Performed	Remaining	Completion %
		• Partial delivery and installation of relay protection • Partial delivery of DCS upgrade and update • Partial detailed design of Transmission of ECS signals and telemetry	• Partial delivery and installation of relay protection • Partial detailed design of DCS upgrade and update	
9.	Kolkhozabad	• Installation of CVT, line trap and Surge Arrestors • Design approval of Batteries 48V • Delivery of Line Traps and Cables • Installation of ODF • Partial installation of Batteries • Partial completion of cable laying • LMU approval • Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry • Testing of Batteries • Partial cable laying and installation of Line Traps • Connection to earthing system and AC system for ODF • Handing over certificate • LMU procurement, testing, delivery and installation	50%
10.	Dushanbe TPP-2	• Design approval of Batteries 48V • Installation of Batteries • Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry • Installation and testing of Batteries • Connection DCS to NCC and BUNCC	25%
11.	Rudaki	LMU approval	• Detailed design of Transmission of ECS signals and telemetry	5%

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No.	Name of Substation	Performed	Remaining	Completion %
			• LMU procurement, testing, delivery and installation	
12.	Iskodar	• Partial design approval of relay protection equipment • Design approval of Batteries 48V • Installation of Batteries • Installation of relay protection	• Detailed design of Transmission of ECS signals and telemetry • Testing of Batteries • Installation of relay protection • LMU approval, procurement, testing, delivery and installation	35%
13.	Djangal	• Partial design approval of relay protection equipment • Delivery and installation of CVT, Line Traps, Surge Arrestors and Cables • Installation of ODF • Partial delivery and installation of relay protection • Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry • Partial delivery and installation of relay protection • Connection to earthing system and AC system for ODF • Handing over certificate	49%
14.	Nurek HPP	• Installation and commissioning of relay protection • LMU approval	• LMU procurement, testing, delivery and installation • Detailed design of Transmission of ECS signals and telemetry • Detailed design of AGC • Handing over certificate	43%
15.	Geran	No activities	• Detailed design of Transmission of	0%

No.	Name of Substation	Performed	Remaining	Completion %
			ECS signals and telemetry	
16.	NCC & BUNCC	• Collection of data • Approval of general design of connecting NCC & BUNCC with CDC Energia • Delivery of ODF • Partial installation of ICCP	• Setting and adjustment of LF and AGC • Partial delivery and Installation of material for connecting NCC & BUNCC with CDC Energia • Detailed design for displaying ECS signals at NCC & BUNCC • Installation of ODF	23%
17.	Baypaza HPP	• Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry	5%
18.	Yavan TPP	• Installation of primary equipment except CVT, and Line Traps • Civil work and cable trenches/trays • Partial completion of cable laying • Partial design approval of relay protection • Delivery and of relay protection • Partial Testing and commissioning of equipment • LMU approval • Partial Testing and commissioning of premier equipment	• LMU procurement, testing, delivery and installation • Partial detailed design of Transmission of ECS signals and telemetry • Installation of relay protection	69%

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No.	Name of Substation	Performed	Remaining	Completion %
		• Partial detailed design of Transmission of ECS signals and telemetry		
19.	Novaya	• Partial design approval of relay protection equipment • Partial installation of ODFs • Partial delivery of relay protection • Partial detailed design of Transmission of ECS signals and telemetry	• Partial installation of ODFs • Partial detailed design of Transmission of ECS signals and telemetry • Partial delivery and installation of relay protection	45%
20.	Yavan	• Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry	5%
21.	Lolazor	• Installation and commissioning of primary equipment CVT, Surge Arrestors and Line Traps • Civil work and cable trenches/trays • Completion of cable laying • LMU approval • Partial detailed design of Transmission of ECS signals and telemetry	• LMU procurement, testing, delivery and installation • Detailed design of Transmission of ECS signals and telemetry	95%
22.	Ord-bad-2	No activities	• Detailed design of Transmission of ECS signals and telemetry	0%
23.	Rumi	• Design approval of Battery 48V	• Detailed design of Transmission of	45%

No.	Name of Substation	Performed	Remaining	Completion %
		• Partial approval of RTU and SIC design • Installation of ODF • Delivery of Batteries • Partial detailed design of RTU and SIC	ECS signals and telemetry • Installation and testing of Batteries • Procurement, delivery and installation of RTU and SIC • Connection RTU to NCC and BUNCC • Connection to earthing system and AC system for ODF • Handing over certificate	
24.	Khatlon	• Installation and commissioning of primary equipment CVT, Surge Arrestors and Line Traps • Civil work and cable trenches/trays • Completion of cable laying • LMU approval • Partial detailed design of Transmission of ECS signals and telemetry	• LMU procurement, testing, delivery and installation • Partial detailed design of Transmission of ECS signals and telemetry	95%
25.	Golonvnaya HPP	• Partial detailed design of Transmission of ECS signals and telemetry	• Partial detailed design of Transmission of ECS signals and telemetry	5%
26.	Shakhristan	• Design documents were submitted for review and approval • Delivery of relay protection	• Installation of relay protection	55%
27.	Ravshan	• Installation of Line Trap	• Handing over certificate	95%

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No.	Name of Substation	Performed	Remaining	Completion %
28.	Khudjand	• Design documents were submitted for review and approval • Delivery of relay protection • Partial installation of relay protection	• Partial installation of relay protection	55%
29.	Shakhrinav	• Design documents were submitted for review and approval • Delivery of relay protection • Partial Installation of relay protection	• Partial Installation Commissioning of relay protection	58%
30.	Uzlovaya	• Installation of ODF	• Handing over certificate	95%
31.	Gissar	• Installation of ODF	• Connection to earthing system and AC system for ODF • Handing over certificate	85%
32.	Guzar	• Supply of equipment	• No pending activities	100%
33.	Surkhan	• Supply of equipment	• No pending activities	100%
34.	Denau	• Supply of equipment	• No pending activities	100%
35.	Syrdarya TPP	• Supply of equipment	• Installation of equipment	100%
36.	Gulcha	• Supply of equipment	• Supply of equipment	100%
37.	Uzbekistanskaya	• Supply of equipment	• No pending activities	100%
Lines				
1.	L503 A L503 B	• Completion of foundation work • Design approval of towers • Testing, Towers including earthing	• Partialy delivery and installation of Towers including earthing • Conductors stringing	65%

No.	Name of Substation	Performed	Remaining	Completion %
		• Partialy Delivery and installation of Towers	• Testing and commissioning	
2.	OPGW and underground cable	• Installed and tested for L507 500kV • Installed and tested for LRK 110kV • Installed and tested for L-13-D1 220kV • Installed and tested for L-20US-1 220kV • Installed and tested for L-NG 110kV Installed and tested for L-DG 110kV • Partial approval of detailed design between Barki Tojik and Novaya SS • Partialy installation of OPGW and underground cable between Barki Tojik and Novaya SS	• Test protocols • Partial installation of OPGW and underground cable between Barki Tojik and Novaya SS	93%

Package 2: Implementation Status as of 30.06.2026 (project 0622)

No.	Name of Substation	Performed	Remaining	Completion %
1.	Regar	• Partial installation and commissioning of ECS panels • Partial design approval of ECS system • Partial installation of cables	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of	73%

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No.	Name of Substation	Performed	Remaining	Completion %
		• Procurement and installation cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers and cabinet	ECS signals and telemetry • Partial design of ECS telecommunication system • SDH multiplexers and cabinet were produced	
2.	Sughd	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial installation ECS panels • Partial installation of cables • Partial installation and commissioning of ECS panels • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers and cabinet	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Partial installation cables • SDH multiplexers were produced and cabinet	48%
3.	Shar-Shar	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS	32%

No.	Name of Substation	Performed	Remaining	Completion %
			telecommunication system • Installation cables • SDH multiplexers were produced	
4.	FEZ Dangara	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers and cabinet	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced and cabinet	28%
5.	Sangtuda HPP-1	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Partial procurement cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Partial procurement and installation cables • SDH multiplexers were produced	23%

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No.	Name of Substation	Performed	Remaining	Completion %
6.	Rogun HPP	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables	• Procurement, delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial design of ECS telecommunication system • Installation cables	12%
7.	Rogun	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial design of ECS telecommunication system • Installation cables	28%
8.	Dushanbe	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery, installation of ECS panels • Partial installation cables • Partial detailed design of Transmission of ECS signals and telemetry • Partial delivery, installation and commissioning of ECS panels • Supply and installation of SDH multiplexers and cabinet	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Partial installation cables • SDH multiplexers were produced and cabinet	43%

No.	Name of Substation	Performed	Remaining	Completion %
9.	Kolkhozabad	• Partial design approval of ECS system • Partial delivery of ECS panels • Partial delivery cables • Supply and installation of SDH multiplexers and cabinet	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced and cabinet	16%
10.	Dushanbe TPP-2	• Partial design approval of ECS system • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • SDH multiplexers were produced • Partial design of ECS telecommunication system • Installation cables	12%
11.	Rudaki	• Partial design approval of ECS system • Partial delivery of ECS panels • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of	21%

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No.	Name of Substation	Performed	Remaining	Completion %
			ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	
12.	Iskodar	• Partial design approval of ECS system • Partial delivery of ECS panels • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	22%
13.	Djangal	• Partial design approval of ECS system • Partial delivery of ECS panels • Partial delivery cables • Partial installation ECS panels • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables	40%

No.	Name of Substation	Performed	Remaining	Completion %
			• SDH multiplexers were produced	
14.	Nurek HPP	• Partial design approval of ECS system • Partial delivery of ECS panels • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	26%
15.	Geran	• Partial design approval of ECS system • Partial delivery cables • Supply and installation of SDH multiplexers	• Procurement, delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	12%
16.	NCC & BUNCC	• Delivery of UPS • Delivery of main equipment for server room • Partial delivery cables	• Partil installation and testing of UPS • Partial Installation of software and main equipment of CECS	58%

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No.	Name of Substation	Performed	Remaining	Completion %
		• Detailed design of Air Conditioning System • Installation of UPS(NCC) • Partial installation cables • Partial Completion of construction work • Partial Installation of main equipment of CECS • Partial installation of UPS • Supply and installation of SDH multiplexers and cabinet	• Partial design of ECS telecommunication system • Partial design of ECS Signal display in the NCC and BUNCC (SCADA) • Partial installation cables • SDH multiplexers were produced and cabinet	
17.	Baypaza HPP	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Detailed design of ECS telecommunication system • Installation cables	25%
18.	Yavan TPP	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry	22%

No.	Name of Substation	Performed	Remaining	Completion %
			• Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	
19.	Novaya	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial installation of ECS panels • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers and cabinet	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced and cabinet	45%
20.	Yavan	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables	30%

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No.	Name of Substation	Performed	Remaining	Completion %
			• SDH multiplexers were produced	
21.	Lolazor	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	55%
22.	Ord-bad-2	• Partial design approval of ECS system • Partial delivery cables • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	12%
23.	Rumi	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system	22%

No.	Name of Substation	Performed	Remaining	Completion %
		• Supply and installation of SDH multiplexers	• Detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	
24.	Khatlon	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partial detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partial detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system • Installation of cables • SDH multiplexers were produced	30%
25.	Golonvnaya HPP	• Partial delivery of ECS panels • Partial design approval of ECS system • Partial delivery cables • Partil detailed design of Transmission of ECS signals and telemetry • Supply and installation of SDH multiplexers	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Partil detailed design of Transmission of ECS signals and telemetry • Partial design of ECS telecommunication system	30%

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No.	Name of Substation	Performed	Remaining	Completion %
			• Installation of cables • SDH multiplexers were produced	
26.	Ainy-110	• Supply and installation of SDH multiplexers	• Detailed design of ECS telecommunication system • Partial design of ECS telecommunication system • SDH multiplexers were produced	30%
27.	Guzar	• Partial supply of equipment • Supply of SDH multiplexers and cabinet	• Partial supply of equipment • SDH multiplexers were produced and cabinet	90%
28.	Surkhan	Supply of equipment	No pending activities	100%
29.	Denau	Supply of equipment	No pending activities	100%
30.	Syrdarya TPP	• Partial supply of equipment • Supply of SDH multiplexers and cabinet	• Partial supply of equipment • SDH multiplexers were produced and cabinet	75%
31.	Gulcha	Supply of equipment	No pending activities	100%
32.	Uzbekistanskaya	Supply of equipment [8]	No pending activities	100%

No.	Line	Performed	Remaining	Completion %
1.	Regar	• Partial installation and commissioning of ECS panels • Partial design approval of ECS system • Partial installation of cables • Procurement and installation cables	• Partial delivery, installation and commissioning of ECS panels • Partial design approval of ECS system • Detailed design of Transmission of ECS signals and telemetry	60%

[8] Installation work in these substation is not included in this project scope of work

No.	Line	Performed	Remaining	Completion %
			• Detailed design of ECS telecommunication system • Detailed design of Air Conditioning System	

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