

# Social Monitoring Report

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Project Number: 47017-003  
Grant 0417-TAJ (SF)  
Semi-Annual Report  
September 2020

## TAJ: Wholesale Metering and Transmission Reinforcement Project

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Implementing Agency: State Establishment "Project Management Unit for  
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## Abbreviations

ADB	Asian Development Bank
BT	Barqi Tojik
DDR	Due Diligence Report
EHS	Environmental, Health & Safety
ESMP	Environmental and Social Management Plan
HPP	Hydropower plant
IEE	Initial Environmental Examination
FAT	Factory Acceptance Test
kV	Kilovolt
LARP	Land Acquisition and Resettlement Plan
MVA	Megavolt Ampere (unit used to measure apparent power)
OHTL	Overhead Transmission Line
PIC	Project Implementation Consultant
PMU	Project Management Unit
SS	Substation

# **1 INTRODUCTION**

## **1.1 Preamble**

1. This report represents the Semi-Annual Social Monitoring Review (SASMR) for the Wholesale Metering and Transmission Reinforcement Project on the implementation of the Land Acquisition and Resettlement Plan.
2. The health and safety aspects have been covered in the Semi-Annual Environmental Monitoring Review report.
3. This report is the 11<sup>th</sup> SMR for the project. The dates of the previous monitoring reports are December 2019, July 2019, February 2019, September 2018, March 2018, February 2018 (joint monitoring of environmental and social safeguards, only for Lot 1), October 2017 (only for Lot 2), September 2017, July 2017 and November 2016.

## **1.2 Headline Information**

4. In Lot 1 on Wholesale Metering System, the meters Factory Acceptance Test (FAT) was conducted successfully in July 2018 by the Contractor Huawei/ TBEA. The Contractor has selected the subcontractor Cuculus GmbH for the software part. A problem with the firmware of the meters has been detected, so the testing of the firmware supposed to be repeated along with the meters firmware update at the in the substations. Firmware activities are still on a pending stage because of transportation limitation caused by the Covid-19 virus. Meter deployment in all the substations is undergoing 87% of them have been installed as of end of June, 2020. The construction of the foundations and erection of the Current and Voltage Transformers inside the substations was completed by September 2019.
5. Regarding the Amendment 2 of Lot 2's work, which is the renovation of 110 kV switchyard at Rudaki Substation, it started in April 2018. Every activity was developed inside the plot of the Substation and on a working installation. TBEA completed construction of OHL in October 2018. Renovation of SS Rudaki and extension of SS Ayni were completed in March 2020.
6. Lot 3. The object of the new additional subproject (LOT 3) is to enhance the system enabling it to control the fluxes of energy in the Transmission Grid item by item from higher to lower levels, meaning all the items, lines, power transformers and busbars in the levels of voltage 500, 220, 110 and 35 kV. The objective is increasing redundancy of measurements on the top levels and full control of losses. Besides, it can provide relevant information of fluxes of energy between different segments of the grid. LOT 3 activities

are executed inside the substations which are already owned by Barqi Tojik. The 175 substations are located geographically in the following districts along the country: Sghud region (Maschoh, Asht, Zafarobod, Spitamen, Jabbor Rasulov, Konibodom, Isfara, Istaravshan, Penjakent and Ayni districts); Region of the Republic Subordination (Dushanbe, Tursunzoda, Hisor, Varzob, Vahdat, Rasht, Rudaki, Faizobod, Rogun, Nurobod, Tojikobod and Tavildara districts) and Khatlon region (Khuroson, Yovon, Nurek, Baljuvon, Khovaling, Dangara, Temurmalik, Bokhtar, Vose, Kulob, Shakhrituz, Farkhor and Panj districts). The social assessment was carried out and social safeguard DDR was approved in 31 March 2020, concluding that the implementation of this sub-project will not have a negative social impact. In July 2020, the version 5 of the Project IEE was generated inserting also the conclusion that this sub-project will not pose a negative social impact and that no specific mitigation measures are required. As of submitting this report implementation of LOT 3 is on a bidding stage.

7. This is the summary of the findings of the social safeguard audit undertaken in the current period:

Table 1. Summary of findings.

Main finding	Corrective actions applied or needed	Status
<u>Lot 2</u> -No grievance book available at Rudaki SS by November 2019. TBEA brought it with them when finalizing most of the works. A complaints book must be made available until one year after the implementation is completed (around July 2021).	TBEA shall place a new complaints book at Rudaki SS.	Solved by January 2020. The new complaints book is in place at Rudaki SS.
<u>LOT 1</u> Major: Meter panel premise misuse is observed in Shursay SS.	Inform the SS operator about potential hazard of premise misuse.	Solved, safety training was conducted to SS operator.
<u>LOT 1</u> Major: Metering panel is installed under split-unit air conditioner in Akademgorodok SS	Recommend the SS and Barqi Tojik about potential hazard. Relocate the AC unit, or take necessary actions preventing the condensation water leakage	Pending.
<u>LOT 1</u> Major: Northern walls of the Shahri SS are too low to prevent unauthorized access to the substation	Barqi Tojik and SS representatives were informed about the issue.	Pending
<u>Lot 1 and 2</u> Contractor Monthly Environmental and Social Monitoring Reports not available.	Contractor to submit the Monthly Environmental and Social Monitoring Reports since July 2018.	Pending.

## **2 BACKGROUND OF THE PROJECT AND SCOPE**

### **2.1 Project Description**

8. The Republic of Tajikistan has received a grant from the Asian Development Bank (ADB) towards the cost of the Wholesale Metering and Transmission Reinforcement Project. It is expected that the proposed project will improve electricity supply to households and industries in the country by reducing losses through metering entire high and medium voltage transmission grid and expand transmission capacity in Panjakent region that was suffering from load shedding.
9. Parts of this financing are being used for payments under the contract for: Lot 1) Installation of 1,682 wholesale meters and settlement system including 846 current transformers and 744 voltage transformers in most of the substations along the country, introduction of an advanced metering infrastructure, and introduction of a settlement system; Lot 2) Rehabilitation of Substation Rudaki, Extension of Substation Ayni and Construction of new 220 kV Over Head Transmission Line (OHTL) between Substation (SS) Ayni 220 kV and SS Rudaki, approximately 95 km of new single circuit single conductor with rated capacity of 320 MVA; and Lot 3) . Replacement or installation of 448 smart meters and 121 metering panels in 175 substations, replacement or installation of 300 current transformers (CTs), 105 voltage transformers (VTs) and 196 arresters, installation of modems/data concentrators in the substations, installation of meter cabinets, overvoltage limiters and other minor equipment, communication equipment installation, testing, commissioning and training.
10. The location of the Project component Lot 2 is presented below in Figure 1 in the scale of the Country.



Figure 1. Location of the Project (Lot 2)

11. Ayni Substation 220/110/10 kV is located in these coordinates: latitude  $39^{\circ}25'58.79''$ ; longitude  $68^{\circ}29'12.74''$ . It is situated 6km away from the closest village, beside the main road. The satellite image showing the location of Ayni SS of can be found below.



Figure 2. Satellite image of Ayni SS and surroundings.

12. Rudaki Substation 220/110/35/10 kV is located in these coordinates: latitude  $39^{\circ}29'45.5''$ ; longitude  $67^{\circ}35'18.3''$ , at Sughd Province, in the outskirts of Penjakent city. The satellite image showing the location of Rudaki SS can be found below.





Figure 3. Satellite image of Rudaki SS and surroundings.

13. The location of the Project component Lot 3 is presented below in Figure 4.

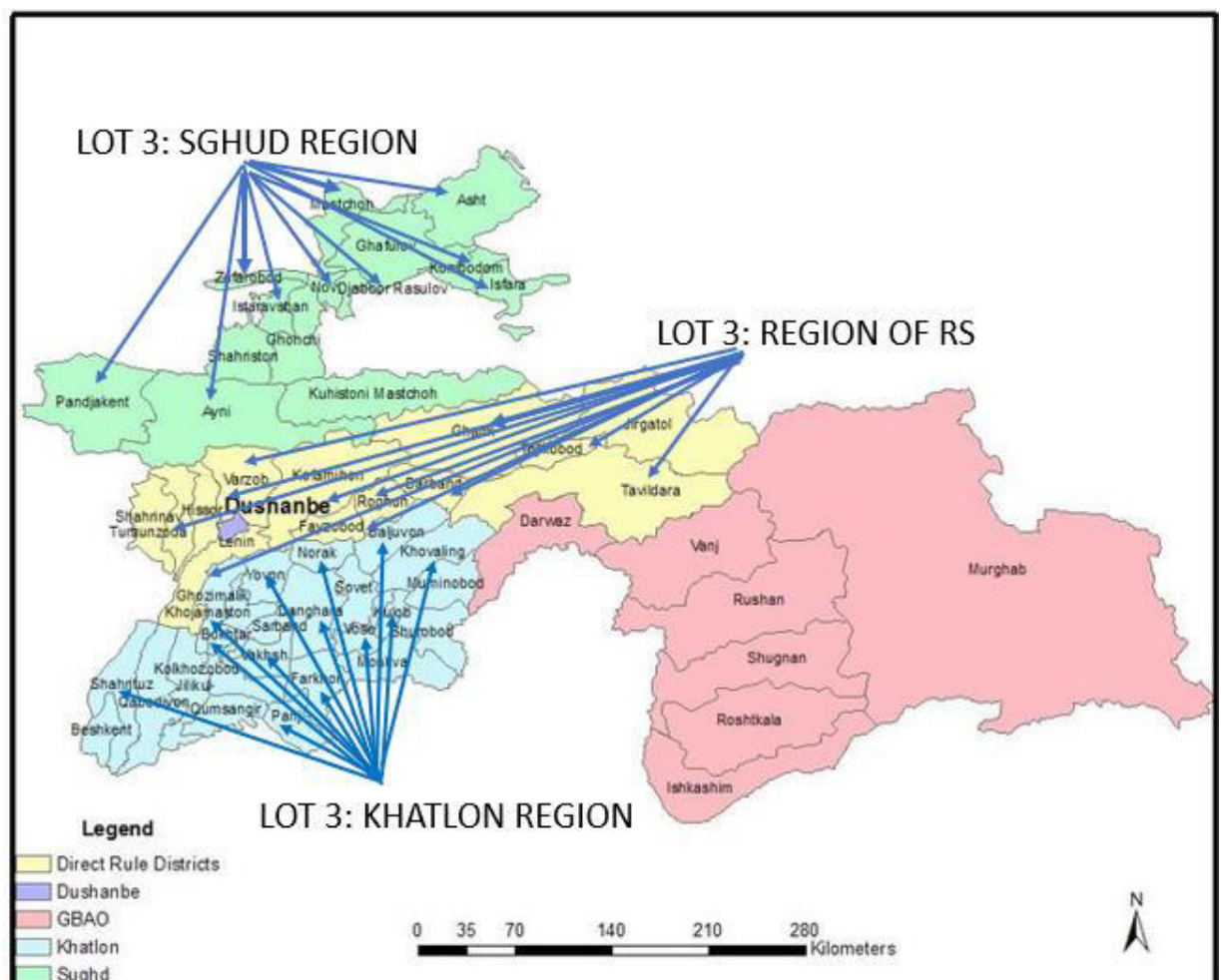


Figure 4. Location (marked through arrows) of the SSs in the scope of LOT 3 activities.



## **2.2 Institutional Arrangements and Management Capacity for Safeguards**

14. The Executing Agency for the Project is the Open Stock Holding Company Barqi Tojik. The Executing Agency has set up a Project Management Unit (PMU) to manage daily coordination, implementation, monitoring and administration activities of the subject Project and other sectorial projects.
15. The PMU includes the Projects Monitoring Department whose responsibilities include, among other things, the management of all social and environmental aspects of the project. The Head of the Environment of the Projects Monitoring Department is Mr. Karimov Sirojiddin. The Chief EHS Specialist at the PMU is Mr. Aziz Holov. Both of them take also formally care of the LARP aspects.
16. The Project Implementation Consultant (Mercados-Aries International, formerly AF-Mercados) is providing technical assistance to the PMU in the management and reporting of the project. The PIC is responsible for supervising and reporting on the Contractor's performance in the implementation of the social safeguards. The contract with Mercados-Aries International was signed on August 2015 and the current closing date is February 2022.
17. The PIC's international environmental safeguards specialist was Mr. Pasi Vahanne and the national environmental safeguards specialist was Ms. Muazama Burkhanova until July 2018. Afterwards, position was taken by the international safeguards specialist is Mrs. Patricia Ramos Peinado. Given that Mrs. Ramos could not travel to Tajikistan during the period January-June 2020 due to the COVID-19 pandemic, the national environmental expert, Isaev Davron took care of the monitoring and reporting on safeguards for the period 2020 S1

18. The safeguards management of the project is as shown in Figure 4.

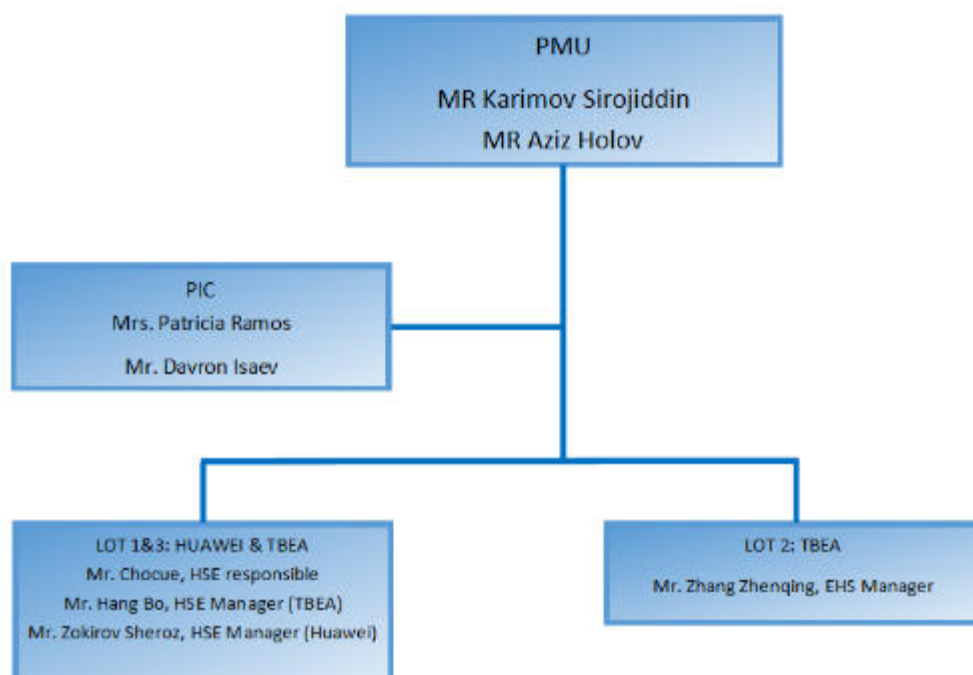


Figure 4. Safeguards management of the project.

19. The names of the main parties and focal points involved in the project can found in Annex I.

## 2.3 Project Activities During Current Reporting Period

20. Construction activities for the reporting period are described in Table 2 below. Lot 2 was fully completed in a previous period and Lot 3 is still on a bidding stage.

Table 2. Progress on the construction activities on Lot 1.

N	Month 2019	Construction activities	Percentage of completion
1	January	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	65.5%
2	February	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	75 %
3	March	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	86.67%
4	April	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	87%
5	May	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	87%

6	June	Lot 1: Replacement and/or Installation of the CTs/VTs.	100%
		Lot 1: Installation of meters.	87%

21. In Lot 1 on Wholesale Metering System, the meters Factory Acceptance Test (FAT) was conducted successfully in July 2018 by the Contractor Huawei/ TBEA. The Contractor has selected the subcontractor Cuculus GmbH for the software part. A problem with the firmware of the meters has been detected, so the testing of the firmware will have to be repeated and the firmware at the meters in the substations will have to be updated. Due to the global pandemic situation with COVID-19 selected subcontractor Cuculus GmbH could not travel to Tajikistan, hence, firmware testing and adjusting activities are still pending. The construction of the foundations and erection of the Current Transformers (for commercial metering points in 110 kV, 35 kV, 10 kV and 6 kV systems) and Voltage Transformers (for commercial metering points in 110 kV, 35 kV, 10kV, 6kV and 0.4 kV) inside the substations was completed by September 2019. Meter deployment in all the substations located along the country is undergoing and 87% of them have been installed by now. The works under lot 1 are expected to be completed by July 2020.

PMU Chief Environmental, Health and Safety Specialist, Mr. Aziz Kholov, TBEA representatives (Mr. Hayom Haydarov on July 17 and Mr. Lu Hanwei, Mr. Firuz Nazriev and Mr. Hayom on July 21), and the Power Engineer Mrs. Gulchehra Samadova from the



PIC visited a sample of the substations in order to perform the social safeguards monitoring.

Figure 5. Picture taken at “Vostochnaya”SS (lot 1), Dushanbe city, July 2020.

22. As of submission of this semiannual social monitoring report for January – June 2020, all activities under LOT 2 and one part of LOT 1, installation and/or replacement of CTs and VTs, had been completed. The only remaining task under LOT 1, installation of meters, is still undergoing in target substations. Within the previous semiannual reporting period the implementers made a 21% extra progress in the installation of meters – from 65.5% in January 2020 to 87% in June 2020.





Figures 6 and 7. TBEA-installed meters in Promishlennaya (left) and Vostochnaya substations, July 2020



Figure 8. TBEA chief engineer, Lu Hanwei, training the SS employee on meters troubleshooting, Shahri SS, Dushanbe city, July 2020

11. 23. Lot 3. The object of the additional subproject (LOT 3) is to enhance the system enabling it to control the fluxes of energy in the Transmission Grid item by item from higher to lower levels, meaning all the items, lines, power transformers and busbars in the levels of voltage 500, 220, 110 and 35 kV. The objective is increasing redundancy of measurements on the top levels and full control of losses. Besides, it can provide relevant information of fluxes of energy between different segments of the grid. LOT 3 activities are executed inside the substations which are already owned by Barqi Tojik. The 175 substations are located geographically in the following districts along the country: Sghud region (Maschoh, Asht, Zafarobod, Spitamen, Jabbor Rasulov, Konibodom, Isfara, Istaravshan, Penjakent and Ayni districts); Region of the Republic Subordination (Dushanbe, Tursunzoda, Hisor, Varzob, Vahdat, Rasht, Rudaki, Faizobod, Rogun, Nurobod, Tojikobod and Tavildara districts) and Khatlon region (Khuroson, Yovon, Nurek, Baljuvon, Khovaling, Dangara, Temurmalik, Bokhtar, Vose, Kulob, Shakhrituz, Farkhor and Panj districts). The social assessment was carried out and social safeguard DDR was approved in 31 March 2020, concluding that the i proposed activities would not have adverse social impact on community and private properties and lands as the rehabilitation/construction activities will be carried out within boundaries of existing substations. New constructions are planned in a manner that potential impacts on structures

and lands will be avoided since the existing territories of substations are sufficient and does not require expansions and/or widening of the existing territories. Substations territories and safety zones are strictly followed being as a strategic objects, hence no encroachers and/or squatters found in the project area. The Due Diligence Report specifies the required social mitigation measures during the construction phase. In July 2020, the version 5 of the Project IEE was generated inserting also the conclusion that this sub-project will not pose a negative social impact. LOT 3 is on a bidding stage at the moment. Barqi

## **2.4 Description of Any Changes to Project Design**

24. An Amendment number 2 to the contract with the Lot 2 contractor and the Project Implementation Consultant (PIC) were signed in order to include in the project scope the rehabilitation of the 110kV bays at Rudaki SS. The related public consultations were performed in 2017 and the social due-diligence was done as part of the overall Project. The implementation of this variation order started in 16 February 2018 and it got mostly completed by 13 September 2018. The completion certificate was signed on 27 September 2018.
25. In March 2020, the Lot 3 scope was added to the project. Lot 3 is a sub-project that complements the scope of Lot 1, rolling out the activities to more substations along the country. The Social Safeguards Due Diligence report dated March 2020 for the new Lot 3 concluded that the proposed activities would not have adverse social impact on community and private properties and lands as the rehabilitation/construction activities will be carried out within boundaries of existing substations.

## **3 ESMP DOCUMENTS**

26. The Contractor and the PMU are able in general terms to implement and monitor respectively the Environmental and Social Management Plan (ESMP) The reporting by the Contractor is not being done as frequently as set in the ESMP.
27. The measures set out in the ESMP are still appropriate and they are working as intended. No updates to the ESMP were required during the reporting period.

## **4 PROJECT IMPACTS**

27. There is no physical resettlement involved under implementation of LOT1 activities since all construction works were carried out within the substations boundaries. The same is the case for LOT3 activities. Acquisition of land for the foundation of 88 transmission line

towers was required under LOT2, which was completed already and reported in previous reporting periods.

Barqi28. The activities performed during the current period did not involve any temporary or permanent land acquisition.

## **5 RESULTS OF ESMP MONITORING**

### **5.1 General Description of Social Safeguard Activities**

29. For the performance of the social monitoring reporting for January-June 2020, Mercados-Aries International subcontracted the Safeguards Specialist, Mr. Davron Isaev. After familiarizing himself with previous environmental and social reports, the social safeguards DDR and the project IEE, the Safeguards Specialist together with Barqi Tojik chief engineer Mr. Golib Boboev, PMU Environmental and Monitoring Specialist, Mr. Aziz Kholov, the TBEA representatives (Project Specialist Mr. Hayom Haydarov on July 17 and Chief Engineer Mr. Lu Hanwei, Mr. Firuz Nazriev and Project Specialist Mr. Hayom on July 21), and the PIC Power Engineer Mrs. Gulchehra Samadova visited some substations under LOT1 in July 2020. The main objective of the site visits was monitoring the implementation of mitigation measures and the previously identified social safeguards violations. Also, the identification of new (if any) social violations. .
30. It was found out through the staff of Barqi Tojik that the concrete floors at the former Ayni SS workers camp are still in place.
31. On 7 April 2020, on a response to a letter from the PMU dated on March 11 2020, the Executive Body of the Government Authority of Ayni District informed the PMU that decision has been made to dismantle the concrete floors and return the site to its previous condition (see Annex II for a copy of letter). The PMU informed the contractor TBEA on the decision made through a letter dated 16 April 2020 (see Annex III for a copy of the letter).

### **5.2 Site Audits**

32. Inspections undertaken during the current period. On July 21 the PIC Safeguards Specialist together with TBEA, PMU and Barqi Tojik representatives visited three substations within the territory of Dushanbe. Following representatives were present from TBEA (Project Specialist Mr. Hayom Haydarov on July 17 and Chief Engineer Mr. Lu Hanwei, Mr. Firuz Nazriev and Project Specialist Mr. Hayom on July 21) PMU (Mr. Aziz Kholov – Chief Environmental Health and Safety Specialist), Barqi Tojik (Mr. Golib Boboev – Chief engineer). The visited substations were Shahri 110/10 Kv, Promishlennaya



110/35/10 Kv and Buston 110/10 Kv. The construction activities were fully completed in these substations by the time of the visit.

These are the details of the formal audits undertaken by safeguards process staff during the current reporting period.

Table 3. Audits undertaken during the current period.

	Date of Visit	Auditors Name	Purpose of Audit	Significant Findings
<b>PIC</b>	<b>17/07/2020</b> , visit of: Shursay, Vostochnaya SS and Academgorodok SS (lot 1) together with the PMU EHS Chief Specialist Mr. Aziz Holov, a PIC Power Engineer Mrs. Gulchehra Samadova and TBEA representative Mr. Lu Hanwei	Lot 1: Mr. Davron Isaev, Mr. Aziz Holov	Audit of the ESMP aspects of the project activities performed during the last 6 months	<u>LOT 1</u> Construction of apartment and office building was observed close to Vostochnaya substation.
	<b>21/07/2020</b> , visit of Shahri, Buston and Promishlennaya SSs under LOT 1 together with the PMU EHS Chief Specialist Mr. Aziz Holov, a PIC Power Engineer Mrs. Gulchehra Samadova and TBEA representatives Chief Engineer Mr. Lu Hanwei, Mr. Firuz Nazriev and Project Specialist Mr. Hayom			<u>LOT 1</u> <u>SS Shahri</u> <u>located adjacent to apartment complex and school has very low rise low-rise walls which is susceptible to easy access.</u>

33. This is the summary of the findings of the audits undertaken in the current period:

Table 4. Summary of the findings in the current period.

Main finding	Corrective actions applied or needed	Status
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<u>Lot 2</u> SS Shahri located adjacent to apartment complex and school has very low-rise walls which is susceptible to easy access	Barqi Tojik representative was informed to solve the issue	Pending
<u>Lot 2</u> Construction of apartment and office building was observed close to Vostochnaya substation.	Barqi Tojik representative was informed to take necessary actions regarding the separation of SS with fence from the construction site.	Pending
<u>Lot 1 and 2</u> Contractor Monthly Environmental and Social Monitoring Reports not available.	Contractor to submit the Monthly Environmental and Social Monitoring Reports since July 2018.	Pending.

### 5.3 Issues Tracking (Based on Non-Conformance Notices)

34. There is one pending action in relation to the non-conformities, found during the previous reporting period, concrete slabs in former Ayni workers camp (LOT 2).

Table 5. Status of non-conformities found in the previous reporting period and the current reporting period.

Non-conformity	Corrective actions applied or needed	Status
<b>Lot 2</b>		
No grievance book available at Rudaki SS. TBEA brought it with them when finalizing most of the works. A complaints book must be made available until one year after the implementation is completed (around July 2021).	TBEA shall place a new complaints book at Rudaki SS.	Completed. The new complaints book is now in place at Rudaki SS as informed by Barki Tojik. Site visit will be performed when allowed by the COVID-19 pandemic in order to assess it.
During a visit in May 2019 in the Ayni former labor camp, the set concrete floors were still in place.	Ayni local council has to take a decision on whether they want the concrete floors to remain or to be broken down and the site being brought back to the previous condition before the installation of the labor camp.	Pending. On March 11, 2020 PMU mailed the Ayni officials regarding further actions that should be taken done with concrete floors. In a reply mail from April 14, 2020, Ayni officials asked to demolish the concrete floor and clean the debris. Following this PMU officially noticed TBEA on Ayni officials' request. See copy of letters in Annex II and Annex III. No actions have been taken yet by the TBEA

LOT 1 (January-June 2020 reporting period)		
Construction of apartment and office building was observed close to the Vostochnaya substation	Fencing the perimeter of SS to avoid access to the SS and risk of electrical shock	Pending
Northern walls of the Shahri SS are too low to prevent unauthorized access to the substation	Barqi Tojik and SS representatives were informed about the issue	Pending

35. The percentage of issues that get closed early is high. There is a recurrent trend for the Contractor not submitting the Monthly Safeguards Monitoring Reports. They were received only during the first four months for Lot 2 and they have never been received in relation to Lot 1. By the July 2020, neither monthly nor semiannual report were submitted by contractor.

## 6 PUBLIC CONSULTATION AND DISCLOSURE

36. All the required public consultations for LOT 1 and LOT 3 were implemented in previous periods. In relation to the new subproject- LOT 3, face to face public consultations could not be performed since from March 2020 there were in place quarantine measures imposed against the spread of COVID-19 coronavirus in Tajikistan. Alternatively, an information leaflet was composed and an explanatory letter from the PMU was sent to the heads of district environmental protection departments by e-mail through the Environmental Protection Committee under the Government of the Republic of Tajikistan. The chief specialist of the PMU Department for Monitoring of the Environmental Protection, Mr. Kholov Aziz, hold a meeting with Mr. Khalilov Daller, a representative of the Committee for Environmental Protection under the Government of the Republic of Tajikistan in order to arrange the distribution by e-mail of the two mentioned documents. The documents can be found on Annex IV. No comments were received.

## 7. GRIEVANCE AND REDRESS MECHANISM

37. No complaint was filed during the reporting period, nor any redress happened.

## 8. INDIGENOUS PEOPLE

38. Non-applicable. There are no indigenous people affected by the Project. There are no indigenous people's groups in Tajikistan.

## 9. GENDER

39. This Project does not include any gender design features. Therefore, the Project was

categorized as having “No Gender Elements”.

40. On a secondary note, the built transmission line connecting Panjakent and Ayni regions contributes to meet rising demand for power and the improvement in the metering at the substations will reduce losses, which will also have as a consequence that more power will be available to meet the increasing demand. Saved time by women on the traditionally household chores assigned to them due to access to more reliable energy will mean higher availability of time that could be devoted by them to paid work, improving then their access to resources and opportunities, and therefore becoming more empowered. Reduced energy shortages will have a positive impact on businesses. The types of businesses that women typically engage in, such as tailoring and sewing, and baking and food production, are associated with high electricity consumption<sup>1</sup>.

## 10. POVERTY AND SOCIAL

41. Energy sector of Tajikistan has some difficulties regarding the existing state of electricity supply systems i.e. obsolete component of the whole system, lack of up-to-date metering infrastructure, instability of voltage faults, as a result of which stable power supply to population and businesses depending on electricity is not always provided, hence making population less able to perform income generating activities.
42. Considering the existing problems with obsolete electric transmission system in Tajikistan and lack of up-to-date metering infrastructure, activities under the new LOT 3 include activities that will contribute tackling these issues. Activities under LOT 3 will be implemented in 175 substations nationwide. Each business or household that is powered through the target substations will benefit from a higher quality power supply. The construction of foundations, erections of transformers and replacement or installation of meters will be carried out inside the substations, so no disturbance for residents is expected.
43. Another social aspect to look at is the short blackouts due to the project. The connection of the transformers to the grid will require a disconnection of the substation from the grid for a duration up to one day per substation. The replacement or installation of meters can be done in a short time. Depending on the net topology the disconnection of very few substations will affect the population; the majority of the substation disconnection will not lead to a lack of energy supply for the population.
44. Around 50% of the substation disconnections will not lead to a lack of energy supply for the population since they will be supplied from other substations. The other 50% of the

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<sup>1</sup> Source: ADB Tajikistan Gender Country Assessment, 2016

substation disconnections that will lead to blackouts are envisaged to happen in Chanubi Electricity Network (Lomonosova Substation), Isfara Electricity Network (Isfara Substation), Istaravshan Electricity Network (Uzlavaya Substation) and Kulyab city (Ismoilova Substation) among others. The construction of the foundations can be done without disconnecting the substation from the grid.

## **11. SUMMARY AND RECOMMENDATIONS**

### **11.1 Summary**

45. The implementation of the social safeguards during the reporting period and for the overall project construction period to date is being effective. Main identified weaknesses are suggested to be tackled through the recommendations below.

### **11.2 Recommendations**


- 50.
53. For the installation of the equipment under LOT 3 in line with the ADB safeguards requirements and the implementation of the required corrective actions by the contractor in relation to the identified social safeguards violations, the coordination among the implementing contractors (TBEA, Huawei and others), Barqi Tojik's PMU and the Project Implementation Consultant should be strengthened. Construction activities should be closely monitored and all violations related to the implementation of ADB's safeguard requirements should be troubleshooted during the construction phase.
54. In the event of main contractor further subcontracts to a third party the completion of construction activities, it is recommended that the newly subcontracted party must be familiarized with the relevant ADB's safeguard policies.

## 12. ANNEXES

### 12.1 Annex I: Main parties involved and their contact details

Party	Focal point	Contact details of the focal point
Implementing Agency: Barqi Tojik	Head of the Project Management Unit, Mr. Nazarzoda Nazar Rajab	pmu_tj@mail.ru
	Head of the Environmental Sector of the PMU, Mr. Karimov Sirojiddin	pmu_tj@mail.ru
	Chief EHS Specialist at the PMU, Mr. Aziz Holov	pmu_tj@mail.ru
Funding institution: ADB	ADB Regional Environmental Safeguards Consultant. Mrs. Malika Babadzhanova	mbabadjanova1.consultant@adb.org +992 918420944
	ADB National Resettlement Specialist. Mr. Faizullo Kudratov	fkudratov.consultant@adb.org +992 918985624
Project Implementation Consultant: Mercados-Aries International (formerly AF Mercados EMI)	MAI Project Director Mr. Francisco Romero	francisco.romero@mercadosaries.com +34 665024822
	MAI Environmental and Social Specialist, Mrs. Patricia Ramos	patricia.ramos@mercadosaries.com +34 663999667
Lot 1 Contractor: Huawei & TBEA	Mr. Chocue, EHS Responsible Mr. Hang Bo, EHS Manager (TBEA) Mr. Zokirov Sheroz, EHS Manager (Huawei) Mr. Jin Dean, EHS Site Manager (TBEA) Mr. Huseynov Ilhom, EHS Site Manager (Huawei) Mr. Guan Yonggang, EHS Site Manager (TBEA) Mr. Nazarhudoev, EHS Site Manager (Huawei) Mr. Zhurakulov Doshod, EHS Site Manager (Huawei)	
Lot 2 Contractor: TBEA	Mr. Zhang Zhenqing, EHS Manager Mr. Guang Yonggang, EHS Ayni Site Manager Mr. Jin Dean, EHS OHL Site Manager Mr. Che Jinlu, EHS Rudaki Site Manager	
In relation to Lot 2	Specialist of the Environmental Committee of Panjakent District. Mr. Pulodov Murod	+992 927601320

## 12.2 Annex II: Letter from district of Ayni authorities to PMU dated 07/04/2020 on the decision made on the concrete floors

  
Ҷумҳурии Тоҷикистон  
Вилояти Суғд  
Мақомоти иҷроияи ҳокимияти давлатии ноҳияи Айнӣ

Ҷумҳурии Тоҷикистон, вилояти Суғд, н. Айнӣ, кӯчаи Рӯдакӣ-37, 735520 тел: (8-3479) 2-22-44, @mail: info.ayni@mail.ru  
№ « 13/04 » аз « 04 » 04 2020  
ба № « \_\_\_\_\_ » аз « \_\_\_\_\_ » 2020

Ба Директори иҷроияи  
Муассисаи давлатии  
«Маркази идораи лоиҳаҳои  
бахши электротехника»  
мухтарам Назарзода Н

*Ба Ҳарматов С*  
*15.04.20*

Мақомоти иҷроияи ҳокимияти давлатии ноҳияи Айнӣ мактуби  
Шуморо аз 11.03.2020 №16/751-743 «Оиди таъзия намудани майдончаи  
бетонии зери биноҳои таъзия шуда» дар маҳал дида баромада аз Шумо  
хоҳиш менамояд, ки майдонҳои бетони зери биноҳо бар канда қитъаи  
замини зери биноҳо ба ҳолати авала баргардонидида шаванд.

Муовини якуми раиси ноҳия *Рахматзода С*

**Translation:** To Project Management Unit director Nazarzoda N.

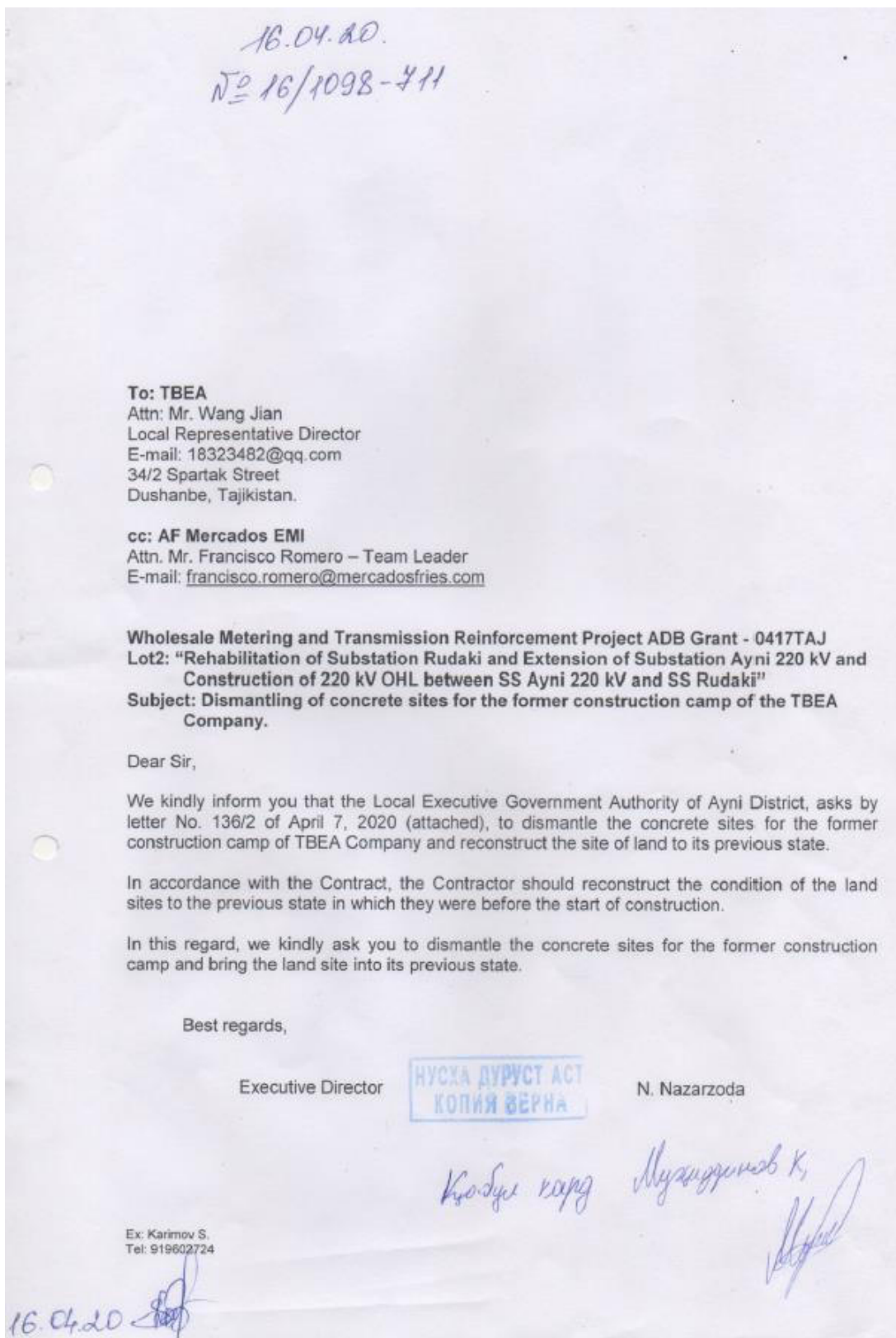
Executive Body of Government Authority of Ayni district has reviewed your letter №16/ 751-743 from March 11, 2020 “on dismantling concrete of the former construction camps of TBEA company” and asks you to remove concrete and reconstruct the area to its previous condition

First deputy of head of district Rakhmatzoda S

Омода намуд Полтовнов Г  
Тел 22-5-51



### 12.3 Annex III: Letter from PMU to TBEA Contractor dated 16/04/2020 on the concrete floors issue in Ayni district under LOT 2



## 12.4 Annex IV: Public Consultation Documents for LOT 3

Letter sent by the PMU to the Committee for Environmental Protection

ХУКУМАТИ  
ҶУМҲУРИИ ТОҶИКИСТОН  
МУАССИСАИ ДАВЛАТИИ  
«МАРКАЗИ ИДРАИ ЛОИҲАҲОИ  
БАҲШИ ЭЛЕКТРОЭНЕРГЕТИКА»

ПРАВИТЕЛЬСТВО  
РЕСПУБЛИКИ ТАДЖИКИСТАН  
ГОСУДАРСТВЕННОЕ УЧРЕЖДЕНИЕ  
«ЦЕНТР УПРАВЛЕНИЯ ПРОЕКТАМИ  
ЭЛЕКТРОЭНЕРГЕТИЧЕСКОГО СЕКТОРА»

GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN  
STATE ESTABLISHMENT  
"PROJECT MANAGEMENT UNIT FOR ELECTRO – ENERGY SECTOR"

734042 ш. Душанбе к. Қаҳоров – 39А телефон: 222-25-58; Факс: 222-25-56; E-mail: pmu\_tj@mail.ru

07.07.20 № 19/2190-2145

ба: \_\_\_\_\_

Ба Мавҷӯдоғ  
Э.С. Бофаре  
иссеишхӯр  
13.07.2020

Кумитаи ҳифзи  
муҳити зисти назди  
Ҳукумати Ҷумҳурии Тоҷикистон

Муассисаи давлатии «Маркази идораи лоиҳаҳои баҳши  
электроэнергетика» ба маълумоти Шумо мерасонад, ки лоиҳаи «Ҷорӣ  
намудани системаи ҳисоби яклухти интиқоли қувваи барқ ва беҳдошти  
шабакаи интиқоли барқ» тибқи Созишномаи грантии байни Ҳукумати  
Ҷумҳурии Тоҷикистон ва Бонки Осиёи Рушд амалӣ шуда истодааст.

Ҷиҳати истифодаи маблағҳои боқимондаи лоиҳа васлу насби  
ҳисобкунакҳои барқӣ, трансформаторҳои шиддат ва ҷараён дар 175  
зеристгоҳҳои барқии мавҷудбуда ба нақша гирифта шудааст.

Вобаста ба ин, тибқи талаботи Бонки мазкур бояд ҳисоботи  
«Арзёбии таъсиррасонӣ ба муҳити зист» омода карда шавад ва  
маълумотномаи мухтасар оид ба ҳисоботи мазкур барои маълумот ва  
пешниҳод (агар бошад) ба шӯъбаҳои ҳифзи муҳити зисти шаҳру ноҳияҳои  
дахлдор ирсол карда мешавад.

Бинобар ин, аз Шумо эҳтиромона хоҳиш менамоем, ки ҷиҳати  
пешниҳоди маълумотномаи мазкур ба шӯъбаҳои ҳифзи муҳити зисти  
шаҳру ноҳияҳои номбурда мусондат намоед.

Замима: Рӯйхати шаҳру ноҳияҳо, ки дар ҳудуди онҳо лоиҳаи мазкур амалӣ мешавад.  
Маълумотномаи мухтасари ҳисоботи «Арзёбии таъсиррасонӣ ба муҳити зист»

Бо эҳтиром,

Директори иҷроия

Н. Назарзода

Иҷро: Каримов С.  
Тел: 919 60 27 24

КУМИТАИ ҲИФЗИ МУҲИТИ  
ЗИСТИ НАЗДИ ҲУКУМАТИ  
ҶУМҲУРИИ ТОҶИКИСТОН  
ВОРИДОТ № 798  
"10" 07 2020 г.

Translation of the Letter sent by the PMU to the Committee for Environmental Protection

The Committee for Environmental  
Protection under the Government of the  
Republic of Tajikistan

State Established «Project Management Unit for Energy Sector» informs you that the “Wholesale Metering and Transmission Reinforcement Project” is implemented under the Grant Agreement between the Government of the Republic of Tajikistan and the Asian Development Bank.

To use the remaining funds of the Project, it is planned to install electricity meters, voltage and current transformers in 175 already existing power substations.

In this regard, at the Bank’s request, an "Environmental Impact Assessment" should be prepared and a summary of this report should be sent to the relevant city and district environmental departments for information and submission of comments (if any).

Therefore, we kindly ask you to assist the Environmental Protection Department of these cities and districts in conveying this information.

Attachments:

- List of cities and districts on which this sub-project is implemented
- Summary of the report "Environmental Impact Assessment"

Sincerely,

Executive director

N. Nazarzoda

## IEE Information Leaflet, Tajik version

# Республика Таджикистан: Проект оптового учета и усиления передачи. ЛОТ 3 Подпроект. Финансируется Азиатским Банком Развития

### СФЕРА ОХВАТА, ЦЕЛЬ И ПРИРОДООХРАННЫЕ МЕРОПРИЯТИЯ

Целью дополнительного подпроекта (лот 3) является совершенствование энергосистемы, позволяющее ей по пунктам контролировать потоки энергии в передающей сети. Цель-увеличение избыточности измерений на верхних уровнях и полный контроль потерь. Кроме того, он может предоставлять актуальную информацию о потоках энергии между различными сегментами сети. Для этих целей на 175 подстанциях будут установлены счетчики, трансформаторы тока, напряжения и разрядники. Проект планируется запустить в 2020 году, а завершить его планируется к 2022 году.

Замена или установка новых счетчиков и трансформаторов будет происходить внутри подстанций. Для новых трансформаторов напряжения и тока должны быть построены фундаменты. Новые счетчики и счетчики взамен старых будут установлены в шкафах внутри центра управления подстанциями.

Проект реализуется Центром управления проектами для электро-энергетического сектора (ЦУП) "Барки Точик", а экологический и социальный надзор и мониторинг осуществляется Отделом ЦУП по социальному сектору и мониторингу окружающей среды.

Подпроект лот-3 относится к экологической и социальной категории С по классификации АБР, что означает, что он оказывает минимальное воздействие.

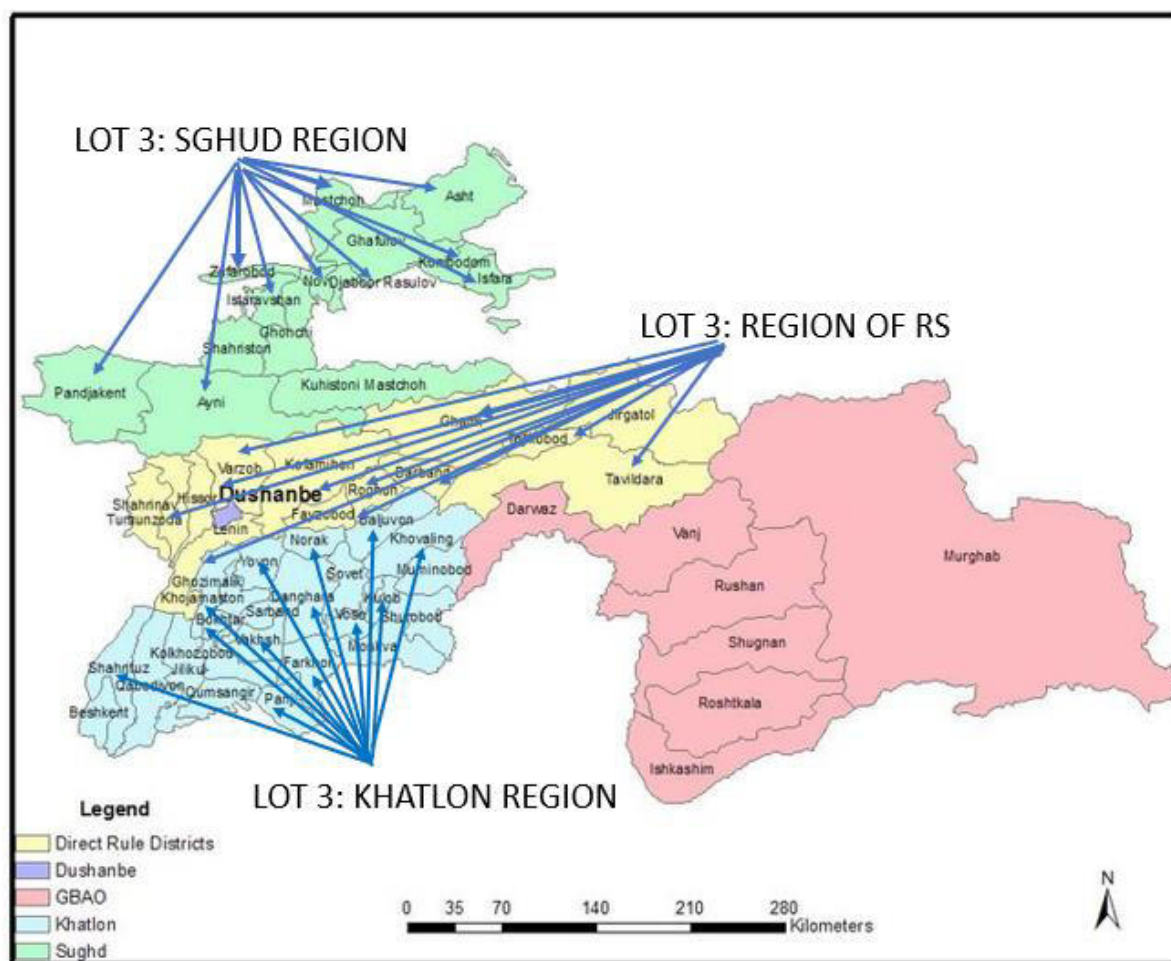
Первоначальная экологическая экспертиза проекта (ПЭЭ) была обновлена, чтобы включить в нее деятельность по лоту-3. ПЭЭ описывает потенциальные последствия, формулирует меры по смягчению последствий и устанавливает институциональные механизмы и экологический мониторинг для проекта. Учитывая, что подпроект лот-3 относится к категории С, не было необходимости разрабатывать оценку экологического и социального воздействия (ОЭСВ).

### МЕСТОНАХОЖДЕНИЕ ПОДПРОЕКТА

Подпроект будет реализован в рамках 175 подстанций, которые уже принадлежат компании Барки Точик. Они расположены в следующих районах по всей стране:

1. Согдийская область: Масчоҳ, Ашт, Зафаробод, Спитамен, Джаббор Расулов, Конибод, Исфара, Истаравшан, Пенджакент и Айни.
2. Районы республиканского подчинения: Душанбе, Турсунзода, Гиссар, Варзоб, Вахдат, Рашт, Рудаки, Файзобод, Рогун, Нуробод, Тоджикобод и Тавильдара.
3. Хатлонская область: Хуросон, Яван, Нурек, Бальджувон, Ховалинг, Дангара, Темурмалик, Бохтар, Восе, Кулоб, Шахритуз, Фархор и Пяндж.

Расположение мероприятий подпроекта ЛОТ 3 можно увидеть на карте ниже,



## ОЖИДАЕМЫЕ ВОЗДЕЙСТВИЯ

Работы будут проводиться внутри подстанций, поэтому никаких серьезных помех для жителей не ожидается. Строительство фундаментов может быть осуществлено без отключения подстанции от электросети. Подключение трансформаторов тока и напряжения к электросети потребует отключения подстанции от электросети на срок до одного дня. Замена или установка счетчиков может быть произведена в короткие сроки. Около 50% отключений подстанций не приведут к отсутствию энергоснабжения населения, так как они будут подаваться с других подстанций. Остальные 50% отключений подстанций, которые приведут к отключениям электроэнергии, планируется осуществить в электрических сетях Чануби (подстанция Ломоносова), Исфара (подстанция Исфара), Истаравшан (подстанция Узловая) и Куляб (подстанция Исмоилова).

Ожидаемые основные экологические и социальные последствия строительства заключаются в следующем:

- Образование отходов (сталь, керамика, отработанное масло) в результате демонтажа оборудования, такого как старые автоматические выключатели и замена старых трансформаторов тока и напряжения; образование бытовых отходов рабочими;
- Разлив масла;
- Повышенный трафик и пыль из-за транспортировки оборудования;
- Потенциальное воздействие на здоровье и безопасность (например, работы под



- высоким напряжением, распространение COVID-19 или СПИДа);
- Шумовые выбросы и вибрация из-за строительства фундаментов;
- Ограниченные возможности для работы.

## СМЯГЧАЮЩИЕ МЕРЫ

В целях смягчения возможных негативных воздействий подрядчик будет обязан:

- Подготовить политику в области ЗБОС
- Создать команду проекта по охране труда, промышленной безопасности и охране окружающей среды (ЗБОС)
- Разработать план управления ЗБОС
- Подготовить планы ЗБОС для конкретного участка
- Внедрить планы ЗБОС для конкретного участка
- Отчет о реализации планов по ЗБОС для конкретных участков.

В обязанности "Департамента социального сектора и мониторинга окружающей среды" ЦУП входит обеспечение соблюдения плана экологического менеджмента и мониторинга и информирование АБР о его выполнении. Вы сможете проверить эти отчеты на

## МЕХАНИЗМ РАССМОТРЕНИЯ ЖАЛОБ И ВОЗМЕЩЕНИЯ УЩЕРБА

Если подпроект вызвал у вас недовольство, вы имеете право подать жалобу. Шаги:



Вы имеете право передать дело в суд в любой момент процесса.

## КОНТАКТЫ ДЛЯ ПОЛУЧЕНИЯ ИНФОРМАЦИИ И ЖАЛОБ

- Директор департамента "Социального сектора и экологического мониторинга" ЦУП г-н Сироджиддин Каримов, (+992) 919-60-27-24
- Главный специалист отдела "Социального сектора и мониторинга окружающей среды" ЦУП г-н Азиз Холов, (+992) 985-48-73-78
- E-mail: pmu\_tj@mail.ru

## IEE Information Leaflet, English version

### Republic of Tajikistan:

Wholesale Metering and Transmission Reinforcement Project. LOT 3: « Installation of wholesale meters at 500kV, 220kV, 110kV, and 35kV levels » financed by the Asian Development Bank.

### OBJECTIVE AND ENVIRONMENTAL ARRANGEMENTS

The objective of the additional subproject (LOT 3) is to enhance the power system enabling it to control the fluxes of energy in the transmission grid item by item. The goal is increasing redundancy of measurements on the top levels and full control of losses. Besides, it can provide relevant information of fluxes of energy between different segments of the grid.

For these purposes, meters, current transformers, voltage transformers and arresters will be installed in 175 substations. The Project is planned to start in 2020 and it will be completed by 2022.

The replacement or installation of new meters and transformers will take place inside the substations. For new voltage and current transformers foundations have to be constructed. The new meters and meters in replacement of old ones will be installed in cabinets inside the control center of the substations.

The Project is implemented by the State Establishment “Project Management Unit for the Elektro-Energy Sector” (PMU) under the Government of the Republic of Tajikistan and the environmental and social supervision and monitoring is done by the PMU’s “Social Sector and Environmental Monitoring Department”.

LOT-3 sub-project belongs to environmental and social Category C according to ADB’s classification which means that it has minimal impacts.

The Project Initial Environmental Examination (IEE) has been updated to insert the LOT-3 activities. The IEE describes the potential impacts, formulates mitigation measures, and sets the institutional arrangements and environmental monitoring for the project. Given that LOT-3 sub-project is category C, there was no need to develop an Environmental and Social Impact Assessment (ESIA).

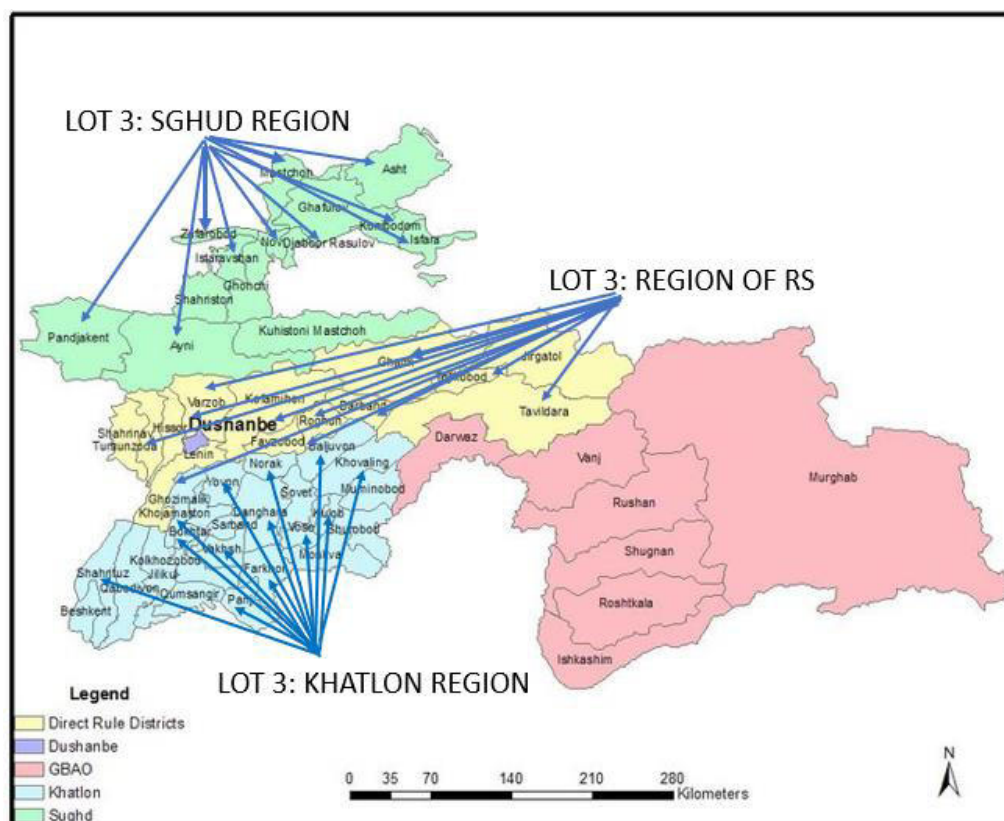
### LOCATION OF THE SUB-PROJECT

The Sub-project will be executed within 175 substations that are already owned by Barqi Tojik. They are located in the following districts around the country:

4. Dushanbe city;
5. Khatlon region: cities and districts of Khuroson, Yovon, Norak, Baljuvon, Khovaling, Dangara, Temurmaliq, Bokhtar, Vose, Kulob, Shakhrituz, Farkhor and Panj.
6. Sughd region: cities and districts of Maschoh, Asht, Zafarobod, Spitamen, Jabbor Rasulov, Konibodom, Isfara, Istaravshan, Panjakent and Ayni;
7. Region of the Republic Subordination: cities and districts of Tursunzoda, Hisor, Varzob, Vahdat, Rasht, Rudaki, Faizobod, Rogun, Nurobod, Tojikobod and Sangvor.

The location of the LOT 3 sub-project activities can be seen in the map below:





### ANTICIPATED IMPACTS

The works will be carried out inside the substations, so no mayor disturbance for residents is expected. The construction of the foundations can not be done without disconnecting the substation from the grid. The connection of the current and voltage transformers to the grid will require a disconnection of the substation from the grid for up to one day by substation. The replacement or installation of meters can be done in a short time. Energy disconnections at the substations to implement works will not lead to a lack of energy supply for the population since they will be supplied from other substations. During the work implementation at the substations under the Lot-3 energy disconnection are envisaged to happen in Chanubi Electricity Network (Lomonosova Substation), Isfara Electricity Network (Isfara Substation), Istaravshan Electricity Network (Uzlavaya Substation) and Kulyab city (Ismoilova Substation).

The anticipated key environmental and social impacts during the construction are the following:

- Waste generation (steel, ceramics, used oil) due to demolition of equipment like old circuit breakers and replacement of old current and voltage transformers; domestic waste generation by the workers;
- Oil spills;
- Increased traffic and dust due to the transport of the equipment;
- Potential impacts on health and safety (e.g. works under high voltage, spread of COVID-19);
- Noise emissions and vibration due to the construction of the foundations;

### MITIGATION MEASURES

In order to mitigate potential negative impacts the Contractor will be obliged to:

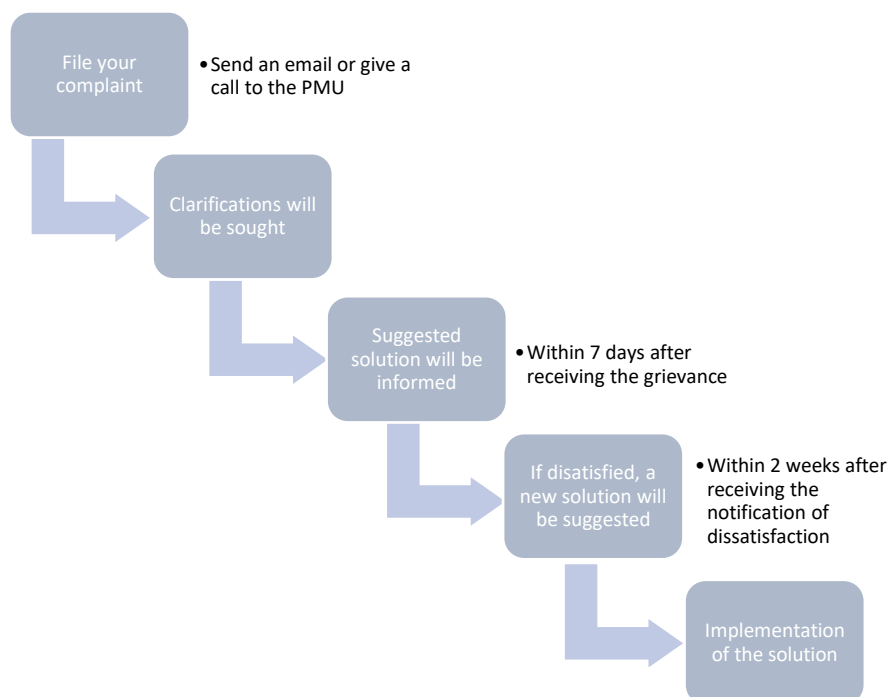
- Prepare a HSE Policy
- Constitute a Project Health, Safety and Environment (HSE) team
- Establish a HSE Management Plan

- Prepare Site-specific HSE Plans
- Implement Site-specific HSE Plans
- Report on the implementation of Site-specific HSE Plans

Under the responsibility of the “Social Sector and Environmental Monitoring Department” of the SE PMU ES is to ensure that the Environmental Management and Monitoring Plan is followed and to inform on its implementation to the ADB. You will be able to check those reports on the webpage of the ADB.

### **GRIEVANCE AND REDRESS MECHANISM**

If the Sub-project has caused you a grievance, you have the right to complaint. Steps:



### **CONTACT FOR INFORMATION AND COMPLAINTS**

- Project manager of the «Wholesale Metering and Transmission Reinforcement Project» SE «PMU ES»  
Nematov Shodmon (+992) 917-15-51-51
- Head of the Environmental and Social monitoring department of the SE «PMU ES»  
Karimov Sirojiddin (+992) 919-60-27-24
- Chief specialist of the Environmental and Social monitoring department of the SE «PMU ES» Kholov Aziz (+992) 985-48-73-78
- E-mail: [pmu\\_tj@mail.ru](mailto:pmu_tj@mail.ru)