

# Environmental Monitoring Report

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Project Number: 42145-043  
July–December 2020  
March 2021

## Armenia: North–South Road Corridor Investment Program (Tranche 3)

Prepared by the “Road Department” State Non-Commercial Organization of the Ministry of Territorial Administration and Infrastructure of the Republic of Armenia for the Asian Development Bank.

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Semi-annual environmental monitoring report  
Armenia: North-South Road Corridor Investment Program, Tranche 3 Talin-Lanjik Section

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Project Number: 42145

July - December 2020

Armenia: North-South Road Corridor Investment Program, Tranche 3

(Financed by the ADB)

Prepared by

Transport Project Implementation Organization

Yerevan, Armenia

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ANNEX B: Status of SEMP's for Tranche 3, Talin- Lanjik Section and operation of the sites  
as of December 30, 2020

ANNEX C. Corrective Action Report on ADB Mission Note

## Abbreviations

ADB	Asian Development Bank
CEMP	Contractor's Environmental Management Plan
EMP	Environmental Management Plan
EIA	Environmental Impact Assessment
IEE	Initial Environmental Evaluation
ES	Environmental Specialist
MFF	Multi-tranche Financing Facility
ME	Ministry of Environment
MOTAI	Ministry of Territorial Administration and Infrastructure
MESCS	Ministry of Education, Science, Culture and Sport
SEMP	Site Specific Environmental Management Plan
TMP	Traffic Management Plan
RD	Road Department SNCO
EMR	Environmental Monitoring Report

## **1 INTRODUCTION**

### **1.1 Preamble**

This Bi-annual Environmental Monitoring Report covers the time period from July - December of 2020 (Number 9).

The Report was prepared with close cooperation with Supervision Consultant, which is the joint venture of SPEA Engineering & IRD Engineering companies.

### **1.2 Headline Information**

Construction works have been implemented by Sinohydro Corporation Ltd and its subcontractor S&A mining LLC.

JV SPEA Engineering & IRD Engineering has provided supervision consulting services.

The following construction activities were implemented: Traffic regulating signs/signals have been installed for safety/security purposes and maintenance of road has been implemented.

In order to ensure the environmental performance, supervision was provided to ensure that the implementation of construction activities meets EMP requirements which is prepared in accordance with ADB Environmental Policy and RA legislation.

Contractor is guided by the EIA and EMP for Tranche 3 as a part of the Bid and Contract documents, Site-specific Environmental Management plans, as well as by the Contractor's Environmental Management Plan prepared by the Contractor that detail on site environmental management requirements implementation and management, particularly construction impacts mitigation, monitoring and reporting requirements in order to ensure the environmental performance. Compliance with EMP is being regularly monitored and reported.

## **2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES**

### **2.1 Project Description**

1. The RA has selected the Bavra-Yerevan-Agarak route as the North-South Road Corridor to be rehabilitated, reconstructed and expanded and has appointed “Road Department” SNCO (RD) of the Ministry of Territorial Administration and Infrastructure (MOTAI) to co-ordinate the work.
2. The Multi-tranche Financing Facility (MFF) is designed to rehabilitate and upgrade national north-south roads to form a new, upgraded and expanded North-South highway. The main objective is to widen the existing 2-lane roads (often in poor condition) to become 4-lane divided roads along existing alignments wherever possible or to construct new alternate 2-lane roads where a single 4-lane road would not be feasible.
3. The Asian Development Bank has provided a loan in the framework of the MFF for the North-South Road Corridor Investment Program to the Government of Armenia to cover the cost of Reconstruction and Improvement of Talin—Lanjik road Section (Km 71+500 to Km 90+200) of M1 Talin—Gyumri Road.
4. The Tranche 3 Project starts at km 71+500 in Talin community and end at km 90+200 close to Lanjik community – about 18.7km. This road is currently a 2<sup>nd</sup> category and has 2 opposite traffic lanes. After reconstruction this road section is expected to be 1<sup>st</sup> category with cement concrete pavement.
5. The reconstruction of 9 overpasses on M2 Yerevan-Artashat and M1 Yerevan-Ashtarak is financed from cost savings from Tranche 3. These works were carried out by local contractors and are supervised by the Supervising Consultant/Engineer for Tranche 3 and were completed by 27 December 2017.

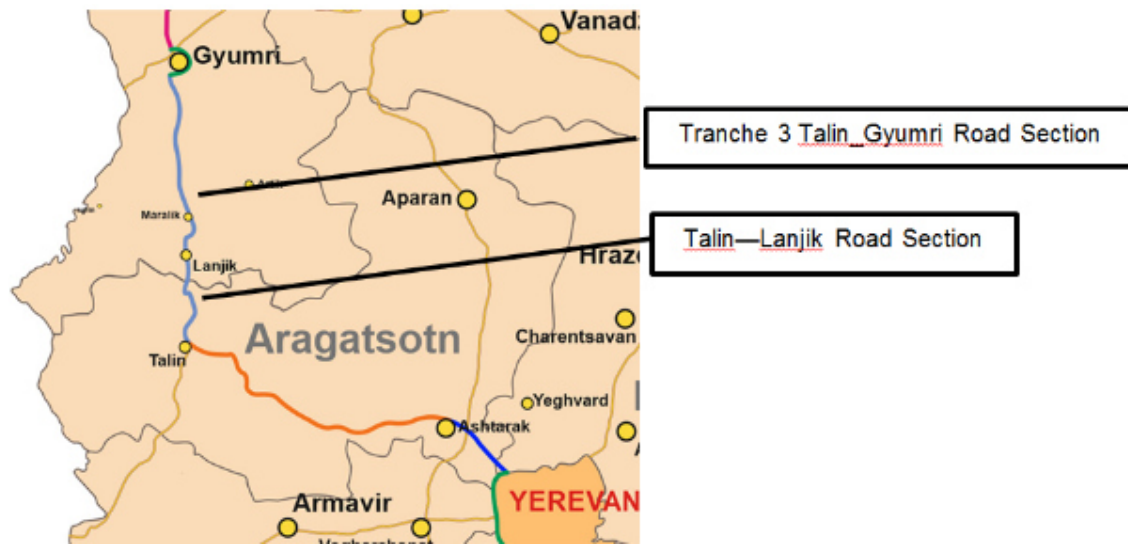


Figure 1. Tranche 3 of North-South Road Corridor

## 2.2 Project Contracts and Management

ADB carry out periodic Project reviews, inspections of the Project throughout the Project cycle in conformity with the principles and requirements embodied in the SPS 2009. ADB will aid the RD in managing the social and environmental impacts and risks, thus contributing to the promotion of the long-term sustainability of investments.

*Contact information:*

*Phone number:* +374-10-546371 , +374-10-546372 , +374-10-546373

*www.adb.org/armenia*

RD is implementing day-to-day management of project execution. The RD includes a Social and Environmental staff whose responsibilities include the management of all environmental aspects of the project.

*Contact information:*

*Phone number:* +37412 201009 , +37412 201010

*Email:* [info@armroad.am](mailto:info@armroad.am)

*www.armroad.am*

The Supervision Consultant/Engineer carries out all construction supervision activities and reporting of the project. Environmental Safeguards Unit of the Consultant is responsible for supervising the construction works in relation to environmental and archaeological impact and, in particular, for supervising and reporting on the Contractor's performance in the implementation of the EMP.



*Contact information:*

*Email: t3\_talinlanjik\_spe\_ird@irdeng.com*

Contractors are implementing construction works. Contractor's Environmental Unit is responsible for preparation and implementation of Contractors' EMPs, SSEMPs, monitoring of the construction activities and reporting.

*Contact information:*

*Email: sinohydro\_am\_tl@163.com*

*RD Environmental and Social Staff*

The Project Impact Management activities are undertaken by Head of Environmental Impact Management Service, and Environmental and archaeological Specialist:

Mr. Gevorg Afyan - Head of Environmental Impact Management Service is responsible for Environmental management of the project and compliance with the national environmental legislation of the RA and safeguard policies of financing Donors during the preparation and implementation of the Projects, including design, construction, and supervision. Mr. Gevorg Afyan resigned during this reporting period, on December 7, new Head of Environmental Impact Management Service (EM) will be hired in February 2021.

Mr. Mikael Tevosyan - Environmental and Archaeological Specialist is responsible for the compliance of the projects to safeguard policies of financing Donors and RA legislation. Mr. Mikael Tevosyan resigned during this reporting period, on September 15, new Environmental Specialist shall be hired during the next reporting period.

*Consultant Environmental Safeguards Unit*

Presently the Consultant Environmental Safeguard Unit consists of:

Ms. Edita Vardgesyan - Environmental Specialist (ES), is responsible for the overall management of the environmental safeguards. She employed on a contractual basis. During the reporting period her inputs were: 6 days per month.

Mr. Boris Gasparyan - Archaeological Specialist (AS), responsible for the consultancy on archaeological issues in the road section, compliance of the construction activities to the Armenian archaeological related legislation and inspection visits to the borrow pit, dumping and

concrete plant sites with archaeological evaluation purposes. During the reporting period his inputs were: 6 days per month.

*Contractor's Health and Safety, Environmental, Archaeological and Social Unit*

The Unit is staffed by five people:

Mr. Zhong Zhen Min, the HSE Director, is responsible for the overall management of the Unit.

Mr. Hovhannes Tovmasyan - Environmental Specialist, to assist the HSE director on the environmental management plan implementation.

Mr. Martin Asatryan - Social Impact Specialist, is responsible for the compliance of the Contractor's activities to social part of the ADB Safeguard Policy Statement.

Mr. Ashot Revazyan - Security and Health Specialist is responsible for the compliance of the Contractor's activities to health and safety part of the ADB Safeguard Policy Statement.

Mr. Artur Petrosyan - Archaeologist, is responsible for protection of historical, cultural and archaeological monuments from negative impacts of the construction activities within framework of the EMP implementation.

### **2.3 Project Activities During Current Reporting Period**

During the reporting period only limited scale of road maintenance works have been implemented in Talin- Lanjik road section: some sub- base and base embankment and road maintenance works like the hole filling and snow cleaning works have been implemented.

*Photos form maintenance works see in ANNEX A.*

The total number of staffs of the Contractor and Sub Contractor during the current period was 48. The workforce consisted of 13 Chinese Nationals and 35Armenian Nationals. As well as Contractor involved additionally 4workers from local communities.

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

No changes with regards to the design took place during the reporting period.

### **2.5 Description of Any Changes to Agreed Construction methods**

No changes with regards to agreed construction methods took place during the reporting period.

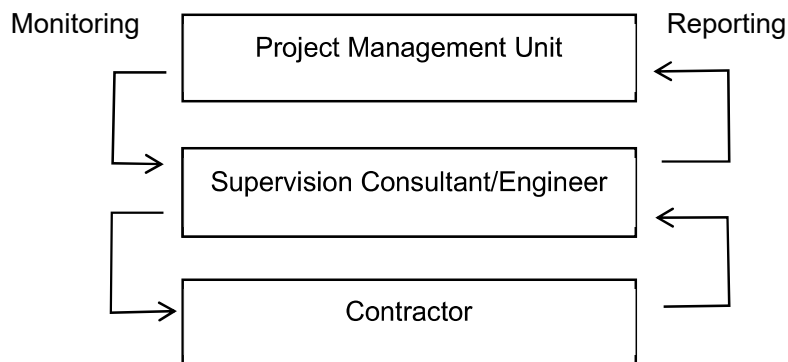
### 3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

#### 3.1 General Description of Environmental Safeguard Activities

Road Department is implementing day-to-day management of project execution. The RD includes a Social and Environmental staff whose responsibilities include the management of all environmental aspects of the project.

The Supervision Consultant/Engineer carries out all construction supervision activities and reporting of the project. Environmental Safeguards Unit of the Consultant is responsible for supervising the construction works in relation to environmental and archaeological impact and, in particular, for supervising and reporting on the Contractor's performance in the implementation of the EMP.

Contractors are implementing construction works. Contractor's Environmental Unit is responsible for preparation and implementation of Contractors' EMPs, SSEMPs, monitoring of the construction activities and reporting.



#### 3.2 Site Audits

Site audits carry out in accordance with the monitoring program developed based on the ADB Safeguards and EMP requirements. Unscheduled audit visits were carried out when needed. Usually, the following site audits are undertaken:

- Regular monitoring site visits on weekly basis by contractors' environmental specialists. The findings are recorded in an approved checklist template.
- Regular inspection site visits on monthly basis by engineer's environmental specialist. The findings are recorded in the approved checklist template.

- The RD environmental specialists participated in some of the audit site visits of the engineer's environmental specialist, but not less than once in a quarter.

The environmental monitoring has been held by the Contractor's environmental staff to check environmental compliance of the activities and the checklists have been completed.

Engineer's ES environmental specialist conducted the inspection site visits in October and November.

RD environmental specialist joint the ADB Mission in November 2020. Contractor addressed the issues raised by ADB Mission and provided Corrective Action Report (attached in ANNEX C).

The details of all the issues are presented in the Engineer's Monthly reports.

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

Two definitions are used to describe issues that have occurred and need to be addressed: (i) Minor Non-compliances are issues that are registered only in checklists during monitoring visits and provided to the Contractor for corrective action. In this case issues are relatively insignificant or corrective action can be completed quickly. (ii) Major Non-compliances are major issues or repeated non-conformances that Engineer besides registering in checklists, requests corrective action through official letter.

#### *Major Non-compliances*

**Table 3-1 Summary of Issues Tracking Activity for Current Period**

**Summary Table**

<b>Total Number of Issues for Project</b>	52
<b>Number of Open Issues</b>	-33
<b>Number of Closed Issues</b>	19
<b>Percentage Closed</b>	36.5
<b>Issues Opened This Reporting Period</b>	10
<b>Issues Closed This Reporting Period</b>	5

### 3.4 Trends

Quarterly Report No	Total No of Issues	% issues Closed	% issues closed late
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3, 2018	0	0	0
4, 2018	1	1	0
1, 2019	1	0	0
2, 2019	0	0	0
3, 2019	0	0	0
4, 2019	0	0	0
1, 2020	0	0	0
2, 2020	0	0	0
3, 2020	49	34.7	6.1
4, 2020	52	36.5	9.6

The issues opened/ closed during the reporting period were:

**Table 3-1 Issues opened/ closed during the reporting period**

Opened		Closed	
<i>Issue</i>	<i>Contractor's actions</i>	<i>Issues</i>	<i>Contractor's actions</i>
1. The asphalt waste is not properly managed. The part of this waste is just left next to the road and another part is removed to 86+200 and heaped on this site which is not allowed. Contractor was requested prepare and submit the SMP for temporary storage or remove the waste to	Contractor has provided a letter of Mastara community requesting some amount of the asphalt and permitting the placing at 86+200	1. Contractor continued establishment of the asphalt plant at Maralik without the SEMP.	SEMP submitted by Contractor on December 12, 2020 by the letter 【2020】 AM-TL-EN-HSE-061  Conditionally approved by Engineer on December 17, 2020 by the letter TL/IT/TR3/WS/20-138

the agreed disposal site.			
2. Due to the erosion of the subsoil dumped at the Talin-3 dump site located at Km 72+500 water flows onto the community road which might make the damages of the road and might raise the dissatisfaction of the community. Contractor was requested correct.	Contractor has constructed the drainage line alongside the existing road. Effectiveness will be double checked by Engineer during the nearest site visit	2. Contractor was requested prepare and submit the COVID-19 health & Safety Plan	The Plan is prepared and submitted by the letter TL/ IT/ TR3/ WS/ 20-127  Approved by Engineer on December 8, 2020
3. Several large stones were found rolled down the slope of the embankment at Km 73+000 into nearby agricultural land plots. Engineer requested clean and remove the stones from the mentioned land plots.	Contractor has informed that the APs are approached and agreed that the cleaning will be implemented as soon as the full-scale capacity is available tentatively in early spring	3. The storage of the liquid material at Maralik camp still needed improvement	Situation with re-fuelling facility was improved, the diesel tank secondary containment (concrete pool with capacity more than 110% of tank was constructed). Firefighting equipment was presented nearby.
4. The storm water outflows from the access road to the Mastara borrow site at 86+400 to the nearby agricultural land plots.	No action  Engineer has made a repeated request	4. Defects at Mastara-7 TSS like erosion of the surface were detected	The erosion is removed, the drainage line is created

Contractor was instructed construct a diversion water channel			
5. Warning signs indicating that the entrance into the construction sites is forbidden are not installed.	No action Engineer has made a repeated request	5. Some amount of excavated unsuitable subsoil was left on- site	Contractor has removed and used for restoration of the Mastara borrow pits
6. Sanitary facilities were removed from the areas of on-going works  Contractor was requested re-establish for even small number of working staff	No action Engineer has made a repeated request	-	-
7. The fencing of the archaeological area at Mastara-BP-1 at 86+400 indicated in the SEMP as a sensitive receptor was damaged  Contractor was requested re- install	No action Engineer has made a repeated request	-	-
8. Contractor was requested implement training of the staff	Contractor has implemented on-site trainings with small groups of workers. Engineer instructed	-	-

9. Considering that the unsuitable soil material will be needed for the restoration of the area at Mastara-BP-1 borrow site at 86+400 Contractor was instructed hand over all the permanent dump sites	No action.  Engineer made a repeated request	-	-
10. Some additionally dumped subsoil is not smoothed at Mastara-9 DS at 83+000 Protective abutment should be created	No action.  Engineer made a repeated request	-	-

### 3.5 Unanticipated Environmental Impacts or Risks

There is no unanticipated environmental impacts or risks occurred during the reporting period.



## **4 RESULTS OF ENVIRONMENTAL MONITORING**

### **4.1 Overview of Monitoring Conducted during Current Period**

Instrumented measurements and monitoring of environmental parameters (dust, noise, water and vibration) during the reporting period was not conducted due to the very limited scale of construction activities. The program on instrumental measurements and monitoring is temporary stopped until the works will be resumed in full scale.

### **4.2 Waste Management**

Currently Contractor has occupied totally 6 sites for permanent disposal of excavated unsuitable subsoil, approved by the Engineer.

No asphalt waste originated during the reporting period. The previously originated asphalt waste was temporary placed at 86+200. A permission for temporary disposal of the asphalt on the community land was received from the Mastara Community administration together with the kind request to provide them the milled asphalt for local needs. This request was approved by the Supervision consultant and contractor started the process of removal of the waste. By the letter TL/IT/TR3/WS/20-136 Contractor was instructed submit the SEMP for the temporary disposal site. Submission is awaited by the beginning of 2021 and the status shall be reported in the next semi-annual report.

Garbage. All the generated garbage was removed to the Maralik landfill based on the contract with the community.

### **4.3 Health and Safety**

#### **4.3.1 Community Health and Safety**

During the reporting period no any accident have been recorded. About 28 damaged road traffic signs and 9 concrete blocks as well as more than 100 light reflectors on the concrete blocks have been reinstalled and repaired during the reporting period Contractor has implemented also some road maintenance works like the hole filling and snow cleaning works.

#### **4.3.2 Worker Safety and Health**

No any accident happened during the reporting period.

In November 2020 Contractor has submitted a COVID-19 Health & Safety Plan for which was approved. The relevant update of the CEMP is awaited in the first quarter of 2021.

Regular briefings of the staff regarding the implementation of construction works in situation of COVID-19 were conducted at the site with the workers of Contractor.

Construction(maintenance) activities during emergency situation in RA caused by COVID-19 has been performed by taking into account special requirements of the Government of RA, in particularly PPE's (masks, gloves and etc.) provided to workers, hygienic conditions of the office territory managed properly, temperature of the workers have been checked before starting the work, proper distances between the workers have been managed and all the other requirements stated by the decisions of the Commandant was met.

#### **4.4 Training**

There was no training on environmental / H&S safeguards implemented during the reporting period. Only the on- site open air trainings with different groups of workers were held which is justified by the COVID- 19 pandemic situation.

RD requested implement the training session using of the pandemic –fit format before the re- start of civil works after the winter break in 2021.

## **5 FUNCTIONING OF THE SEMP**

### **5.1 SEMP Review**

The Contractor has mainly complied with all the requirements set in SEMP's/CEMP. Effectiveness of the SEMP's/CEMP considered as high level, changes are not needed.

During the reporting period Contractor has re- submitted the SEMP for asphalt plant established in Maralik which was conditionally approved.

Detailed information about the SEMP's is presented in the Annex B.

## **6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT**

### **6.1 Good Practice**

Nothing to report for the current period.

### **6.2 Opportunities for Improvement**

The Health & Safety Plan for the pandemic situations as COVID-19 will be very useful for our Contractors to manage their activities and improve capacity of the workers.

## 7 GRIEVANCE REDRESS MECHANISM

### 7.1 Grievances

Two new complaint was logged during the reporting period. The issues were solved and closed. From the previously raised issues by the local residents 2 issues were solved and closed, 4 issues solved partially, 6 remained open. due to land acquisition and design issues that is forwarded to Engineer and Road Department for solution.

#### 7.1. Table Status of the complaints lodged by APs as of December 31, 2020

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
1	Mastara	Samvel Chopikyan	June 2017	<b>Land alienation issue</b>  The AP logged 2 complaints regarding the alienation of his land plot.  His land plot was alienated partially, he claims that this is not possible to use.	<b>OPEN</b>  Forwarded to TPIO.
2	Mastara	Hovhannes Sargsyan	June 2017	<b>Land alienation issue</b>	<b>CLOSED</b>  Private property is alienated
3	Mastara	Susanna Manukyan	May, 2017	<b>Land damage</b>  Compensation is given	<b>CLOSED</b>  Satisfaction letter available
4	Mastara	Anahit Ghandilyan	August, 2017	<b>Land damage</b>  Compensation is given	<b>CLOSED</b>  Satisfaction letter available
5	Mastara	Vachik Manukyan	September, 2017	<b>Land damage</b>  Compensation is given	<b>CLOSED</b>  Satisfaction letter available

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
6	Mastara	Hrachyan Nersisyan	November, 2017	<b>Land damage</b>  Although the AP wanted his land to be alienated but after the double measurement, he was assured that the claimed land plot is not his property.	<b>CLOSED</b>  Satisfaction letter available
7	Mastara	Zarmar Khachatryan	December, 2017	<b>Land damage</b>  Compensation is given	<b>CLOSED</b>  Satisfaction letter available
8	Mastara	Gagik Gabrielyan	March, 2018	<b>Access issue</b>  AP claimed for temporary access road.  Contractor provided	<b>CLOSED</b>  Temporary access to his private land plot is provided
9	Mastara	Rafik Avetisyan	March, 2018	<b>Non- permitted land use</b>  AP complaint that his land plot was non- permitted used by Contractor.  After the double check is was stated that the land is not his property.  The AP refused from his claim.	<b>CLOSED</b>
10	Akunq	Varditer Sargsyan,  Edik Gevorgyan,  Ashot Qerobyan,  Hamest Stepanyan	March, 2018	<b>Land alienation</b>  4 complaints were received that their private land plots are not alienated but are being used under North-South road construction.	<b>OPEN</b>  Forwarded to TPIO.
11	Mastara	Martik Sargsyan	April, 2018	<b>Land damage</b>	<b>CLOSED</b>

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
					Satisfaction letter available
12.1	Lanjik	Aram Harutyunyan	May, 2018	<b><u>Land alienation</u></b>  AP claims that his private property land is being used by the Project and required compensation	<b>OPEN</b>  Forwarded to TPIO.
12.2	Lanjik	Aram Harutyunyan	May, 2018	<b>Land damage</b>  AP claims that his private property land is being used by the community as an access road to their lands because the access road is not given by the Project	<b>OPEN</b>  <b>Solved partly</b>  Contractor has provided the access road to the community and the APs land plot will not be used any more.  Contractor officially applied to AP suggesting compensating the damage and restore the land but there is no positive response from the AP. AP requires very large compensation.  Contractor refuses to address this issue.
13	Mastara	Samvel Gevorgyan	July, 2018	<b>Access issue</b>  AP applied for temporary access road	<b>CLOSED</b>

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
					Temporary access to his private land plot is provided
14	Lanjik	Araik Harutyunyan	July, 2018	<b><u>Land alienation</u></b>  AP claims that his private land plot is damaged and requests to alienate.	<b>OPEN</b>  Forwarded to TPIO.
15	Mastara	Gevorg Stepanyan	June, 2018	<b>Dust issue</b>	<b>CLOSED</b>  Satisfaction letter available
16	Lanjik	Karine Khachatryan	November, 2018	<b>Land damage</b>  <b>Stones are removed from the land</b>	<b>CLOSED</b>  Satisfaction letter available
17	Lanjik	Seryoja Gasparyan	October, 2018	<b>Access issue</b>  AP requested for permanent access road.  Field road is opened	<b>CLOSED</b>  Access to his private land plot is provided
18	Mastara	Radik Harutyunyan	April, 2019	<b><u>Land alienation</u></b>  AP claims that his private property land is occupied by the road slope.	<b>OPEN</b>  Forwarded to TPIO.
19	Lanjik	Arshak Araqelyan	April, 2019	<b>Land damage</b>  Ap claimed that his private property land was damaged and required compensation and correction of the damaged land.	<b>OPEN</b>  <b>Solved partly</b>  Contractor compensated the damage and suggested to correct the damaged land plot.



No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
					AP refused correction  Refusal protokol is signed by AP and all parties
20	Mastara	Harut Sargsyan	May 8, 2019	<b>Non- permitted land use</b>  AP complaint that his land plot was non- permitted used by Contractor.  After the double check is was stated that the land is not his property	<b>CLOSED</b>  Satisfaction letter available
21	Lanjik	Aramais Hovsepyan	May 15, 2019	<b><u>Land damage</u></b>  AP complains that his private land is damaged by the storm water coming from the borrow site and he has lost harvest. He requested a money compensation from the contractor.  Contractor paid the compensation	<b>CLOSED</b>  Satisfaction letter is available
22	Lanjik	D. Minasyan, the Head of Lanjik community	May 30, 2019	<b><u>Access Issue</u></b>  The head of Lanjik community applied to the Contractor with the request provide the temporary access road for agricultural machinery	<b>CLOSED</b>  The new community access field road is opened and after some measurements the access road was opened by the Contractor.  Satisfaction letter is available
23	Mastara	Karine Malkhasyan	July 17, 2019	<b><u>Land damage</u></b>  Contractor corrected the damaged land	<b>CLOSED</b>  Satisfaction letter available

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
24	Mastara	Susanna Manukyan	July 17, 2019	<b><u>Land damage</u></b>  Initially and agreement was achieved that contractor will restore the land but afterwards the AP changed her mind and didn't allow contractor to conduct corrective actions	<b>CLOSED</b>  <b>Satisfaction letter available</b>
25	Mastara	Hermine Gabrielyan	August 28, 2019	<b><u>Access Issue</u></b>  AP complains that she has lost an access to her private land plot and requested either provide the permanent access or alienate her land	<b>OPEN</b>  Forwarded to Engineer
26	Mastara	Mukuch Torosyan	August 13, 2019	<b><u>Land alienation</u></b>  AP claimed that his land is alienate partially and the use of the remaining part is not possible. He requests to alienate the rest of the land	<b>OPEN</b>  Forwarded to Engineer
27	Lanjik	David Minasyan	September, 2019	<b><u>Access Issue</u></b>  The Head of Lanjik community logged a complaint that any access road to the underpass for agricultural machinery at KM 87+ 325 is not provided and requested provide an access road. He claimed that in order to use the underpass agricultural machinery shall pass through the private land plot.  Temporary solution is done: Contractor has cleaned the entrance under the bridge from rocks and stones and now there is an access for machinery. But for the future the final solution the private land plot is to be alienated	<b>OPEN</b>  Solved partly  Temporary solution is done: Contractor has cleaned the entrance under the bridge from rocks and stones and now there is an access for machinery.  For the final solution the issue is forwarded to TPIO

No.	Community	AP name	Date issue raised	Description of the issue	Status of the issue
28	Mastara	Harutyun Sargsyan	November 12, 2019	<b><u>Land damage issue</u></b>  AP complaint that his land plot was damaged by the construction activities and requested compensate and restore	<b>CLOSED</b>  The damage was compensated, and the land plot restored up to the initial state.  Satisfaction letter is available
29	Mastara	Hambardzum Vardanyan	May 3, 2019  January 1, 2020	<b><u>Land damage</u></b>  AP complains that 0.6 ha of his land is damaged by the construction machinery and he has lost harvest. He requested a money compensation from the contractor.	<b>CLOSED</b>  <b>Satisfaction letter available</b>
30	Mastara	Vachik Manukyan	September 2020	<b><u>Damage issue</u></b> He wrote that during some of the construction some stones were thrown to his land which is situated in KM86+400. He asked for land cleaning and correction.	<b>CLOSED</b> <b>Satisfaction letter is available.</b>
31	Mastara	Hrach Khnkoyan	November 2020	<b><u>Land geodesic measurement request and land damage</u></b> Mr. Hrach Khnkoyan wrote that some construction is made in his land and demanded clarification, because his land was damaged.	<b>CLOSED</b> <b>Satisfaction letter is available.</b>

## 8 SUMMARY AND RECOMMENDATIONS

- During the reporting period the program has ensured the compliance of Project activities to the national legislation such as Contractor's regular environmental reports submitted to RA MNP in accordance with Armenian legislation: 4th quarter of 2020, and annual statistic report for 2020.
- Also, the compliance with the requirements of ADB environmental safeguard was ensured such as Contractor's environmental management plans, approval of Site-specific Environmental Management Plans containing the identification of site-specific environmental impacts, risk assessment and mitigation measures by the Project in pursuance of ADB SPS (2009) requirements on information disclosure and public participation, ADB conducted review missions to check compliance of the Program activities.
- Grievance redress mechanism has been established in all communities where construction works have been implemented. Regular communication with impacted communities took place and the proper functioning of grievance redress mechanism in all communities regularly checked.
- Project related issues were regularly communicated with the environmental specialists of RD and Engineer, as well as Contractor's management and environmental team.
- Asphalt waste is not generated during the reporting period. The previously originated waste is temporary placed at 86+200. The SEMP is in process.
- Currently 11 of topsoil and dump sites are being occupied (see Annex B). New quarries or borrow sites were not opened.

## **9 ACTION PLAN FOR JANUARY- MARCH 2021**

- ✓ Preparation and submission by Contractor, review and approval by Engineer of SEMP for temporary storage area for asphalt waste at 86+200
- ✓ Start-up environmental/ H&S, social training of contractor's and engineer's staff for 2021
- ✓ Inspection monitoring site visits, follow up of EH&S open issues
- ✓ Participation in ADB Mission visits

**ANNEX A: Photos of construction (maintenance) process**

















**ANNEX B: Status of SEMP's for Tranche 3, Talin-Lanjik Section, and operation of the sites as of December 31, 2020**


No	Name of site	Pk Km	SMP approved (Y/N)	Status of operation		
				Temporarily stopped	Currently being operated	Operation not started
Topsoil sites (TSS)						
1	Mastara-7 TSS	76+600	Y/ SEMP is approved on November 6, 2017			
2	Mastara-4 TSS	80+800	Y/ SEMP is approved on October 12, 2017	The site is closed		
3	Mastara-1 TSS	81+200	Y/ SEMP is approved on October 12, 2017			
4	Mastara-5 TSS	85+200	Y/ SEMP is approved on October 12, 2017			
5	Lanjik-4 TSS	87+000	Y/ approved on January 13, 2017			
6	Lanjik- 1TSS	87+300	Y/ approved on January 13, 2017			
Excavated subsoil dump sites (DS)						
7	Talin -3 DS	72+750	Y/ approved on March 13, 2018			


8	Mastara-6 DS	79+500	Y/ approved on July 27, 2018			
9	Mastara-3 DS	80+800	Y/SEMP is approved on October 24, 2017			
10	Mastara-2 DS	82+300	Y/ SEMP is approved on October 24, 2017			
11	Mastara-9 DS	83+000	Y/ approved on July 27, 2018			
12	Lanjik-5 DS	87+200	N/ rejected			
13	Lanjik-2 DS	88+500	Y/ approved on March 9, 2017			
14	Mastara temporary site for asphalt waste	86+200	Y partly/ permission of Mastara administration received on December 12, 2021			
<b>Sites for borrowing subsoil for embankment (BP)</b>						
14	Mastara-BP-1	86+400	Y/ approved on March 13, 2018			
<b>Temporary storage of subsoil</b>						
15	Mastara	79+600	Yes/ approved on Nov 30, 2018			
<b>Concrete and Asphalt plants</b>						

17	Maralik CP		Y/conditional approved on March 9, 2017/ update requested			
18	Maralik AP		Yes/ conditionally approved on December 17, 2020			
<b>Crasher machine area (CM)</b>						
19	Mastara	79+500	Y/ approved on May 4, 2018			
<b>Construction camp (CC)</b>						
22	Maralik		Y/ approved on March 9, 2017			






### ANNEX C. Corrective Action Report on ADB Mission Note, November 2020

N	ADB Mission Note	Corrective action request	Deadline for correction	Engineer's Comments	Status by December 25, 2020
1	Road and safety signs, as well as road safety barriers (concrete blocks), were presented along construction sites and narrowed road sections.	Keep maintain the availability of signs and blocks	N/A	regularly clean the traffic road from scattering stones	<p><u>Routine process</u> the traffic road is being regularly cleaned</p> 
2	Most of all workers and managing staff were provided and used proper PPE.	No further action	N/A	-	N/A
3	Contractor, Supervision Consultant, and PIU are following COVID-19 related special permission issued by the	The plan should be included in the CEMP after Engineers final review and approval	December 15, 2020	By the letter TL/IT/TR3/WS/20-127 the COVID-19 H&S Plan is approved on December 8, 2020	<p><u>Corrected partly</u></p> <p>The Plan is submitted but CEMP is not updated accordingly</p>

	<p>RA government, which is publicly disclosed document. COVID 19 spread prevention measures mainly implemented, especially on the construction camp in Maralik. COVID 19 spread prevention plan was drafted and submitted to the Engineer for approval.</p>				
4	<p>Dumping site on PK 72+500, which is, according to the Contractor's representatives no longer used for construction purposes should be closed.</p>	<p>The site should be cleaned from the presented waste (not related to the road construction activities), levelled, and re-cultivated, as well as drainage line for rainwater flow should be</p>	<p>December 20, 2020</p>	<p>1. Construct the drainage line 2. Hand over the site</p>	<p><u>Corrected partly</u></p> <p>The drainage line is constructed</p> 



		constructed along dumping site. Handover act with the dumpsite area owner should be signed and submitted.			 <p>But the site is not handed over</p>
5	PK 73+000. Several large stones were found rolled down the slope of the embankment into nearby agricultural land plots. Cleaning and removing the stones from the mentioned land plots is urgent.	Remove the stones from the land plots	December 20, 2020	Clean the agricultural private lands from the scattered stoned	<p><u>Not corrected</u></p> <p>Contractor informed that the APs are approached and agreed that the cleaning will be implemented as soon as the full-scale capacity is available tentatively in early spring</p>
6	PK 71+800. Some amount of the big concrete blocks was presented,	Remove from the site to the appropriate area	December 20, 2020	Remove the concrete blocks	<p><u>Corrected</u></p> 

					
7	The top-soil storage area on PK 76+600 was in proper condition	No further action	N/A		N/A
8	The storage area on PK 79+500. Some amount of construction-related waste and concrete blocks were presented on site.	Construction related waste and concrete blocks should be removed from the site to the appropriate area	December 20, 2020	Remove the waste from the storage area	<u>Not corrected</u>  Contractor justified by the lack of available capacity by the end of the year
9	Borrow pit on PK 86+400 (Mastara). Around 1800 m3 excavated unsuitable subsoil were already disposed on Mastara borrow pit.	Keep restoring the site	N/A	Keep restoring the site	<u>Not corrected</u>  During December site restoration works have not been implemented because the backfill material was not originated

10	The asphalt scrap, temporarily accumulated near the borrow pit (around 100m far from the edge of the borrow pit), was mainly used for the construction and re-construction of the existing access/midfield /secondary roads (for example road to the Mastara borrow pit). The accumulation of the asphalt waste in the area near Mastara borrow pit implemented without approved SEMP.	SEMP for temporary accumulation of asphalt scrap/waste approved by Engineer should be presented	December 15, 2020	1. Obtain the community permission 2. Submit the SEMP	<u>Corrected partly</u> 1. Contractor has provided a letter of Mastara community requesting some amount of the asphalt and permitting the placing at 86+200 2. The SEMP is not submitted
11	The environmental performance in the campsite mostly improved. The campsite area was equipped with	Keep maintain	N/A	Ensure availability at all the working areas	N/A

	requested sanitary-hygienic, rest, lunch and safeguard facilities. Firefighting equipment and first aid kit were presented.				
1 2	All environmental and safeguard permissions of the newly installed asphalt plant situated near the old campsite are obtained. SEMP for new asphalt plant was drafted by Contractor, reviewed and commented by Engineer.	The final, approved version of the SEMP should be submitted before the new asphalt plant exploitation .	December 15, 2020	Revise and re-submit the SEMP	<u>Corrected partly</u>  Submitted by Contractor on December 12, 2020 by the letter 【2020】 AM-TL-EN-HSE-061  Conditionally approved by Engineer on December 17, 2020 by the letter TL/IT/TR3/WS/20-138
1 3	The environmental performance of the concrete plant and workshop were improved. The campsite area was cleaned.	Keep maintain	N/A	-	N/A
1 4	Situation with re-fuelling	Keep maintain	N/A	-	N/A

	facility was mostly improved, the diesel tank secondary containment (concrete pool with capacity more than 110% of tank was constructed). Firefighting equipment was presented nearby.				
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