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International

# ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA)

## SISIAN-KAJARAN (NORTH-SOUTH CORRIDOR) ROAD PROJECT, ARMENIA

### Volume 7. Conclusions And Recommendations



*Source: projections of the proposed road collated from the '3D description of the Sisian-Kajaran Road', Armenian Road Department, 2022 [<https://www.youtube.com/watch?v=fu-dgAwjSsU>]*

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**ENVIRONMENTAL AND SOCIAL IMPACT  
ASSESSMENT (ESIA)  
SISIAN-KAJARAN  
(NORTH-SOUTH CORRIDOR)  
ROAD PROJECT,  
ARMENIA  
Volume 7. Conclusions and  
Recommendations**

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**Prepared for:**

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## DETAILS OF DOCUMENT PREPARATION AND ISSUE:

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2		Sean O'Beirne		20.07.2023	Draft report for approval by Lenders and the Client, translation into Armenian and disclosure

## DISCLAIMER

*The current document summarises the findings of the Environmental and Social Impact Assessment (ESIA) completed for the Sisian-Kajaran Road Project, Armenia and provides recommendations on prevention and mitigation of the identified E&S impacts and enhancement of the expected benefits. An ESIA is necessarily predictive in that it gets completed well before the project being assessed is actually implemented. The information on which the assessment is based comes from multiple sources including the feasibility report, the detailed design document, reports on studies that were conducted as part of the feasibility investigations, records of meetings, other publications, various databases, data that is collected by the team conducting the ESIA, anecdotal information and others. It is extremely difficult to verify the information that is used other than through testing the logic of that information as well as that can be done. In preparing this document, care has been taken to ensure that whatever information has been available has been accurately reproduced in the ESIA. Should information be found in this document that is incorrect then it is respectfully requested that the incorrect information be brought to our attention so that the ESIA can be updated accordingly. We cannot be held accountable for information that we have accepted and reproduced in good faith regardless of the consequences of such information being incorrect. Anyone reproducing information contained in this ESIA does so entirely at their own risk.*

## LIST OF ABBREVIATIONS

ADB	Asian Development Bank
BAP	Biodiversity Action Plan
E&S	Environmental and social
EBRD	European Bank for Reconstruction and Development
EIB	European Investment Bank
ESAP	Environmental and Social Action Plan
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
EU	European Union
ICOMOS	International Council on Monuments and Sites
ha	hectare
IBA	Important Bird Area
KBA	Key Biodiversity Area
MoE	Ministry of Environment of Armenia
NSRC	North-South Road Corridor
NTS	Non-Technical Summary
RD	Road Department Fund
RF	Resettlement Framework
SEP	Stakeholder Engagement Plan
WWF	World Wildlife Fund

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## PREAMBULE

This document is the '**Conclusions and Recommendations**' document for the proposed greenfield Armenian Sisian-Kajaran road section (the Project) of the North-South Road Corridor (NSRC). It forms **Volume 7** of the Environmental and Social Impact Assessment Report (ESIA) for the Project.

The ESIA Report consists of seven volumes with related annexes, as follows:

- Volume 1 – Project Definition including Project introduction, context and rationale, project description, alternatives, legal framework, and ESIA methodology;
- Volume 2 – Biodiversity including baseline analysis, risk / impact assessment and mitigation (including Critical Habitat Assessment and Appropriate Assessment);
- Volume 3 – Physical Environment including baseline analysis, risk / impact assessment and mitigation in relation to air quality and climate, noise and vibration, landscape, etc.
- Volume 4 – Social Environment including socio-economic, gender and cultural heritage baseline analysis, risk / impact assessment and mitigation, as well as stakeholder engagement;
- Volume 5 – Cumulative Impact Assessment;
- Volume 6 – Environmental and Social Management Plan (ESMP); and
- **Volume 7 – Conclusions and Recommendations**

The ESIA is subject to public disclosure for a minimum period of 120 days according to the international lenders' requirements. In addition to the ESIA report, the ESIA disclosure package includes:

- Non-technical Summary (NTS) which is a concise and over-arching document summarising the results of the ESIA in non-technical language;
- Stakeholder Engagement Plan (SEP) that guides information disclosure and meaningful engagement with Project stakeholders, as well as a grievance mechanism;
- Resettlement Framework (RF) that guides issues related to Project-induced physical and economic displacement, land acquisition, compensations, and livelihood restoration;
- Biodiversity Action Plan (BAP) that articulates actions that can help ensure the conservation or enhancement of potentially affected habitats and species considered of particular conservation value; and
- Environmental and Social Action Plan (ESAP) that contains actions required to implement the Project in compliance with the international lenders' requirements.

## 1 INTRODUCTION

This volume summarises the works that have been conducted during the ESIA and presents the key ESIA findings in terms of the Project's environmental and social (E&S) impacts / risks and benefits, monitoring and management approach, and stakeholder engagement.

## 2 DATA COLLECTION METHODS AND SUMMARY OF CONDUCTED STUDIES

To inform the preparation of the Project description, the ESIA team reviewed the available design documents and environmental impact assessment materials provided by the Road Department Fund (the RD) and held numerous consultations with the responsible RD's staff, Technical Consultant (Bernard Gruppe), and the representatives of Project Lenders. Reports of the Technical Consultant in relation to review of the detailed design and climate adaptation were valuable sources of information.

The methodology for collecting and analysing the environmental, biodiversity, socio-economic, gender and cultural heritage baseline was a combination of a) an extensive desktop review of archived and open-source data (e.g. state statistical data, environmental monitoring data, archaeological study reports, biodiversity research publications) and b) field observations, surveys and measurements, as well as interviews and discussions with local residents, and consultations with representatives of competent authorities, local, municipal and regional administrations, and operators of public utilities. Both primary and secondary data were used within the impact assessment. A summary of the field studies undertaken to gather E&S baseline information for the ESIA is provided below. Each engagement with the stakeholders during the ESIA was preceded by provision of information about the Project and purpose of the study / meeting.

### Environmental baseline studies and surveys (for details refer to Volume 3)

To collect data about the baseline conditions of physical environment within the Project area of influence, air, water, and soil sampling and measurements of noise and vibration levels were carried out at 26 locations within the proposed road route and at 8 locations along the existing roads Sisian-Shenatagh and Qirs-Kajaran. Sampling/measurement points were located near selected sensitive receptors (residential houses, hospitals, schools, churches, shops, etc.).

### Biodiversity field studies (for details refer to Volume 2)

The biodiversity field studies included surveys for different biodiversity streams: flora and habitats, terrestrial mammals and bats, birds, reptiles and amphibians, fishes, and butterflies, completed within wider areas along the construction sites. The fieldwork was undertaken during four seasons in 2021 and 2022, for 16-17 days per season, to cover the variety of ecological cycles of different target species (breeding, wintering, migration). Data collection methods included *inter alia* camera-trapping in key locations determined together with the representatives of the Zangezur Sanctuary and WWF Armenia. The camera traps were left onsite for several seasons and represent in total 1,089 camera-trap days.

In addition, over 20 focused individual and group consultations were held with biodiversity experts, representatives of the Ministry of Environment (MoE) and staff of protected areas, and NGOs.

### Socio-economic surveys and field studies (for details refer to Volume 4, Annex 1)

Social experts deployed qualitative data collection methods (interviews, focus groups and consultations, observational walks, and photo-fixation) that allowed to collect both qualitative and quantitative information. The study programme covered:

- Inception site visits in April 2021 and December 2021 including interviews and/or consultations with 35 key informants from regional, municipal (community) and local administrations;
- Large-scale field studies in the Project-affected villages and communities in May-June 2022, which included 122 in-depth interviews, 7 focus groups and 5 consultations engaging 180 people (of whom 80 were females);
- Additional consultations with the local authorities in July - September 2022 to cross-check the collected information, receive an update on the ongoing and planned developments in Sisian and Kajaran Communities, and test some impact assessment assumptions.

Later in 2022, a household survey was conducted in parallel with the census and inventory studies to collect information for the Project's Resettlement Plan.

### Cultural heritage surveys and field studies

Data on tangible cultural heritage were gathered during a systematic field survey within 500 m on both sides of the proposed road. The fieldwork methods included recording, photo-fixation and mapping of the archaeological sites / items and context and collection of surface finds. Drones were used at certain locations that were not accessible during the field survey.

In terms of intangible cultural heritage, sites or locations that are considered "sacred" for the local residents, and sites associated with the local festivals, celebrations, culturally important events or traditions were identified during site visits/tours along the existing roads of the region, and interviews/consultations at the level of affected villages.

Consultations with the representatives of the Ministry of Education, Science, Culture and Sport, ICOMOS-Armenia<sup>1</sup>, and Sisian History Museum and local residents - carriers of the cultural heritage information underpinned the baseline analysis and impact assessment.

### Cumulative Impact Assessment

The Cumulative Impact Assessment has required an additional effort to collect information on the past, present, and future activities in the Project region that may interact with the Project. These data were gathered via a desktop review of the publicly available Environmental Impact Assessment database of the MoE and consultations with the heads of Project-affected administrative units, and developers of some of the identified concurrent activities.

## 3 APPROACH TO IMPACT ANALYSIS, MITIGATION AND MANAGEMENT

The methodology for assessing the significance of impacts is provided in **Section 5.5 of ESIA Volume 1**. Impact significance is determined as a function of a receptor's sensitivity to the Project's pressure (impact) and the impact magnitude (extent of change to the natural or social environment), which is determined by its spatial extent, potential to occur, duration, and reversibility of expected changes. Assigning impact significance relies on reasoned argument, thresholds (where available), professional judgement and consideration of views of stakeholders (where provided). The key significance categories used within the ESIA are major, moderate, minor, and negligible; significance grades were determined for both positive impacts and negative impacts.

Wherever the Project is likely to result in unacceptable negative environmental and/or social impacts, mitigation measures are proposed to avoid or limit these impacts. For positive

<sup>1</sup> Armenian National Committee of The International Council on Monuments and Sites, and NGO.

impacts, additional measures are also suggested to enhance the benefits or make them more sustainable. Where mitigation measures have been predicted to be required, the significance of the impact is rated before and after the proposed mitigation to indicate the residual impact significance after implementation. The mitigation and enhancement measures are brought together into an Environmental and Social Management Plan (ESMP) for the Project, and the appointed Contractor will further develop specific and thematic construction Management Plans based on the ESMP to effectively manage construction risks and impacts. In addition, as some components of the Project such as spoil disposal areas, construction camps, lay-down sites, and power and water supply have not yet been fully defined additional actions have been included in the Project’s ESAP for the Project to achieve full compliance with Lenders’ requirements.

#### 4 SUMMARY OF THE POTENTIAL PROJECT’S E&S IMPACTS / RISKS

A summary of E&S risks and impacts and their significance ratings prior to and after mitigation or enhancement measures (i.e., ‘residual’) are provided below, followed by a summary of cumulative<sup>2</sup> impacts.

**Table 1. Negative Impact Significance Ratings**

Impact Magnitude	Receptor Sensitivity / Value			
	High	Medium	Low	Very Low
High	Major	Major	Moderate	Minor
Medium	Major	Moderate	Minor	Minor
Low	Moderate	Moderate	Minor	Negligible
Negligible	Moderate	Minor	Negligible	Negligible

**Table 2. Positive Impact Significance Ratings**

Impact Magnitude	Receptor Sensitivity / Value			
	High	Medium	Low	Very Low
High	Major	Major	Moderate	Minor
Medium	Major	Moderate	Minor	Minor
Low	Moderate	Moderate	Minor	Negligible
Negligible	Moderate	Minor	Negligible	Negligible

**Table 3. Summary of Impact Assessment for Construction and Operations<sup>3</sup>**

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
<b>Physical Environment Impacts (Construction Phase)</b>			
Air Quality	Dust emissions	Negative Moderate	Negative Minor
	GHG emissions	Negative Minor	Negative Minor (to be confirmed) <sup>4</sup>

<sup>2</sup> Cumulative impacts are E&S impacts that are the result of activities for implementation of the respective project in combination with other similar past, present or future activities within the observed area. Cumulative impacts are assigned with the same significance grades (major, moderate, minor, and negligible) as the Project’s impacts/risks.

<sup>3</sup> Where there are multiple ratings for different impact extents or receptors, the colour for the highest significance rating is used (unless indicated otherwise).

<sup>4</sup> As of summer 2023, an additional traffic study is ongoing.

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
Noise & Vibration	Noise nuisance to local communities	Negative Major	Negative Moderate
	Vibration impacts to cultural heritage structures	Negative Major	Negative Minor
Surface Water Resources	Impact on the hydrological regime of surface water courses	Negative Moderate	Negative Negligible
	Impact on water quality due to intensification of soil erosion, onset of dust and exhaust emissions, and spillages/spills of hazardous materials and tunnel wastewater discharges	Negative Moderate	Negative Negligible
Groundwater Resources	Impacts on groundwater quality due to the spillages/spills of hazardous materials	Negative Moderate	Negative Moderate to Minor
Waste	Impacts on biodiversity, water resources and soil from the disposal of excess spoil	Negative Moderate	Negative Minor
	Impacts on biodiversity, soil, and water quality from the disposal of domestic waste	Negative Minor	Negative Minor
<b>Physical Environment Impacts (Operation Phase)</b>			
Air Quality	Impact of NO <sub>2</sub> emissions	Negative Moderate	Negative Minor
	GHG Emissions	Negative Moderate	Negative Moderate (to be confirmed) <sup>5</sup>
Noise & Vibration	Noise nuisance to local communities	Negative Major	Negative Moderate
Geohazards	Impact of geohazards on the road and road users	Negative Major	Negative Minor
Surface Water Resources	Impacts on water quality due to contaminated surface run-off and waste	Negative Minor	Negative Negligible
Groundwater Resources	Impacts on groundwater quality due to spillages/spills of hazardous materials	Negative Moderate	Negative Minor
Waste	Impacts from waste on biodiversity, water quality and soil quality.	Negative Minor	Negative Negligible
Landscape and Visual Amenity	Permanent changes in the landscape and context of cultural heritage resources	Negative Moderate	Negative Moderate

<sup>5</sup> As of summer 2023, an additional traffic study is ongoing.

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
	Permanent changes to the Vorotnavank viewshed	Negative Major	Negative Moderate
<b>Biodiversity Impacts (Construction Phase)</b>			
Biodiversity	Impacts on priority biodiversity features and species and habitats triggering critical habitat	Negative Major	Negative Moderate After offset – no net loss / a net gain
	Impacts on National protected areas, Emerald Network Sites, and important/key biodiversity areas	Negative Major	Negative Minor
<b>Biodiversity Impacts (Operation Phase)</b>			
Biodiversity	Impacts on priority biodiversity features and species and habitats triggering critical habitat	Negative Major	Negative Minor After offset – no net loss / a net gain
	Impacts on ecosystem services	Negative Minor to Moderate	Negative Minor to Moderate
	Impacts on National protected areas, Emerald Network Sites, and IBAs/KBAs	Negative Moderate	Negative Minor
<b>Social Impacts (Construction Phase)</b>			
Economy	Impacts on the Project related procurement of goods and services	Positive Moderate (Municipal Level)	Positive Major (Municipal Level)
		Positive Minor (Regional Level)	Positive Moderate (Regional Level)
		Positive Negligible (National Level)	Positive Minor (National Level)
	Impact on Project related tax and other payments to the national and municipality budgets	Positive Negligible (National Level)	Positive Negligible (National Level)
		Positive Minor (Municipal Level)	Positive Moderate (Municipal Level)
Employment and Labour Markets	Impact of Project related job creation on employment and labour markets	Positive Negligible (National Level)	Positive Negligible (National Level)
		Positive Minor (Regional Level)	Positive Minor (Regional Level)
		Positive Moderate (Municipal and Local Levels)	Positive Major (Municipal and Local Levels)
Land, land-based livelihoods and use of natural resources	Permanent and temporary acquisition of agricultural land.	Negative Major	Negative Minor to Moderate
Land, land-based	Restricted access to natural resources	Negative negligible	Negative negligible

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
livelihoods and use of natural resources			
Public Utilities, Services and Transport Infrastructure	Impact of construction workforce on local medical facilities	Negative Moderate	Negative Minor
	Impact of Project traffic on existing road infrastructure	Negative Moderate	Negative Negligible
	Impacts on local power supplies and waste management facilities	Negative Minor	Negative Negligible
	Impacts on infrastructure facilities crossed by new roads	Negative Moderate	Negative Negligible
	Impacts on social infrastructure along the project alignment, access roads and roads used by Project traffic	Negative Moderate	Negative Minor to Negligible
Public Health, Safety and Security	Traffic accidents involving Project associated vehicles	Negative Moderate	Negative Minor
	Impacts on the health of residents living adjacent to roads used by Project associated vehicles due to increased noise and dust	Negative Minor (non-sensitive receptors)	Negative Minor
		Negative Moderate (sensitive receptors)	
	Increase in infectious diseases in local communities due to an influx of Project workers	Negative Moderate	Negative Minor
Impacts of Project security provisions	Negative Minor	Negative Negligible	
Occupational Health and Safety	Emergency situations (e.g. fires, spills of hazardous materials, medical emergencies, adverse weather events, seismic events)	Negative Moderate	Negative Minor
	Vehicle collisions, e.g. on construction sites, during the delivery of construction materials/workers to site, or at accommodation camps.	Negative Moderate	Negative Minor
	Health risks of workers exposure to high noise levels	Negative Moderate	Negative Minor
	Risks to workers from performing high hazardous tasks	Negative Moderate	Negative Minor
	Risks of electrical injuries to workers	Negative Moderate	Negative Minor
	Risks to workers from exposure to high levels of air pollution	Negative Major	Negative Minor
	Risks to migrant workers from changes in climate and terrain (e.g., high altitudes)	Negative Minor	Negative Negligible

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
	Increase in infectious diseases amongst the workforce due to an influx of workers from other locations.	Negative Moderate	Negative Minor
Gender	Employment opportunities for women	Positive Minor (Local and Municipal Levels)	Positive Minor to Moderate (Local and Municipal Levels)
		Positive Negligible (Regional Level)	Positive Negligible (Regional Level)
	Entrepreneurship opportunities for women	Positive Minor	Positive Minor (and potentially change to Moderate in the medium-term)
	Increased in gender-based violence and harassment	Negative Minor	Negative Minor to Negligible
Tangible Cultural Heritage	Destruction of or damage to cultural heritage resources	Negative Minor – Major (depending on CH sensitivity values and magnitude of impacts)	Negative Minor
<b>Social Impacts (Operations Phase)</b>			
Economy	Impacts on economic development in the region and at the municipal level	Positive Minor (Regional Level)	Positive Minor (Regional Level)
		Positive Moderate (Municipal Level)	Positive Moderate (Municipal Level)
	Impact of Project-related procurement of goods and services on respective goods/services markets	Positive Negligible (Regional Level)	Positive Negligible (Regional Level)
		Positive Minor (Municipal Level)	Positive Minor (Municipal Level)
	Impact on Project related tax and other payments to the national and municipality budgets	Positive Negligible (National Level)	Positive Negligible (National Level)
		Positive Minor (Municipal Level)	Positive Minor (Municipal Level)
Employment and Labour Markets	Impact of Project related job creation on employment and labour markets	Negligible (National and Regional Levels)	Negligible (National and Regional Levels)
		Moderate (Municipal and Local Levels)	Moderate (Municipal and Local Levels)
Public Utilities, Services and Transport Infrastructure	Impacts on existing road infrastructure	Positive Minor (Regional Level)	Positive Minor (Regional Level)
		Positive Moderate (Municipal Level)	Positive Moderate (Municipal Level)
		Positive Major (Local Level)	Positive Major (Local Level)
	Impacts on local power supplies and waste management facilities	Negative Negligible	Negative Negligible

Topic	Potential Impact	Significance Rating (before mitigation /enhancement)	Residual Significance Rating (after mitigation / enhancement)
	Impacts on local social infrastructure	Negative Negligible	Negative Negligible
Public Health, Safety and Security	Impacts on road safety	Positive Moderate	Positive Moderate
	Risk of traffic accidents involving residents of settlements within the Project Area of Influence	Negative Moderate	Negative Minor
	Emergency situations (due to physical road failure, vehicle breakdowns or unsafe behaviour of road users)	Negative Moderate	Negative Minor
Occupational Health and Safety	Emergency situations (caused by adverse weather events/geohazards or unsafe workers' behaviour)	Negative Moderate	Negative Minor
	Risks of traffic accidents (e.g., due to the organisation of maintenance works or poor driver behaviour)	Negative Moderate	Negative Minor
Gender	Employment opportunities for women	Positive Negligible (Regional Level)	Positive Negligible (Regional Level)
		Positive Minor (Municipal and Local Levels)	Positive Moderate (Municipal and Local Levels)
		Positive Moderate (women from vulnerable households)	Positive Moderate (women from vulnerable households)
	Entrepreneurship opportunities for women	Positive Minor	Positive Minor
Tangible Cultural Heritage	Damage to cultural heritage resources during maintenance works or from operational traffic induced vibration	Negative Minor to Moderate (depending on CH sensitivity values and magnitude of impacts)	Negative Negligible
Intangible Cultural Heritage	Revival of traditions, practices, and rituals due to improved accessibility to the region.	Positive Minor (short-term) to Moderate (long term)	Positive Minor (short-term) to Moderate (long term)

**Table 4. Summary of Cumulative Impact Assessment<sup>6</sup>**

Topic	Cumulative Impact	Significance Rating(s)
Public Health and Safety	Risks to public health due to air emissions and noise nuisance are predicted for the Projects' corridors in the Geghi area, a small area around the western part of Lernadzor, and at the settlements located along the	Negative Negligible to Moderate

<sup>6</sup> Where there are multiple ratings for different impact extents, the colour for the highest significance rating is used.

Topic	Cumulative Impact	Significance Rating(s)
	routes that will be used by the construction transport of the planned and/or concurrent projects.	
	Impacts on public safety due to road accidents during Project construction, on routes that will be used by construction transport for planned and/or concurrent projects.	Negative Negligible to Moderate
Public Utilities, Services and Infrastructure	Impact on regional healthcare facilities	Negative Moderate
Road users	Better regional connectivity and road safety for the road users	Positive Major
Occupational Health and Safety	Risks from workers exposure to higher air pollution and noise levels in the Geghi area due to the construction activities of two concurrent projects.	Negative Minor to Moderate
	Traffic accidents involving the workforce of concurrent Projects on the local roads.	Negative Minor
Biodiversity	Impacts on species and habitats inside Critical Habitats / Priority Biodiversity Features and beyond them.	Negative Negligible
	Impacts on National protected areas, Emerald Network Sites, and Key Biodiversity Areas (KBA).	Negative Negligible (for Meghri KBA)
Land Resources	Cumulative impacts on land use and agricultural activities are predicted for the Geghi and Lernadzor areas and potentially in new power line buffer zones.	Negative Negligible to Moderate
Soil Quality	Cumulative impacts on soil are predicted in the Geghi and Lernadzor areas, and potentially along the power line routes.	Negative Negligible to Moderate
Landscape	Cumulative impacts on landscapes are predicted for the power lines and the Project together.	Negative Moderate
Tangible Cultural Heritage	Destruction of, or damage to, cultural heritage resources.	Negative Minor
Intangible Cultural Heritage	Preservation of local traditions, practices, and rituals owing to SMEs and tourism activities in the region, attracted by reliable road connection opportunities.	Positive Minor to Moderate
Employment and Labour Markets	Generation of employment opportunities due to construction and operation of the projects.	Positive Moderate
Economy (Regional and Municipal)	Impacts on the taxes that will need to be paid to state budgets, procurement opportunities, and development of small and medium enterprises, including opportunities for women.	Positive Minor to Moderate

## 5 MONITORING ACTIONS

In accordance with Lenders' requirements, the Project's E&S performance will be continuously monitored during the construction and operation phases of the Project to ensure compliance with the Project ESAP, ESMP and other specific E&S Management Plans, as well as the relevant national legislation requirements.

E&S Monitoring Plans for construction and operation phases will be developed, agreed with the Lenders, and implemented by the Contractor (during construction phase) and the RD (during the operation phase). Both observational and instrumental monitoring will be

conducted as per the Monitoring Plans. Appropriate human and material resources for their implementation will be allocated.

## 6 STAKEHOLDER ENGAGEMENT AND GRIEVANCE MECHANISM

Stakeholder engagement has been undertaken throughout the development of the ESIA. It was guided by a **preliminary Stakeholder Engagement Plan (SEP)**, which was prepared and disclosed as part of the Scoping Report<sup>7</sup> in April 2022 to establish a framework for building and maintaining positive relations, and open and transparent two-way communication between the RD and stakeholders. During the ESIA process, from April 2021 to May 2023, up to 200 engagement events were held. Most were organised with support of the RD and regional, municipal, and local authorities. The engagement follows the Lenders’ requirements and good international practice. The preliminary SEP was further updated to include the engagement activities during the Project’s construction and operations stages.

The RD has set up a Project grievance mechanism for external stakeholders<sup>8</sup> that complies with both, national and Lenders’ requirements. Grievance mechanism was communicated to stakeholders during public consultations and distributed via the Scoping Leaflet. Stakeholders can approach the RD via contact details provided below (**Table 5**) and available on the RD’s website (<https://armroad.am/en/contacts> or <https://armroad.am/am/contacts>). Once the Construction Contractor and Supervision Engineer are appointed, their contact details will be disclosed, so inquiries and grievances can be channelled to them as well. At a later stage additional contract persons on the Project would be Community Liaison Officers hired by the RD. The contact details will be posted on notice boards of Sisian and Kajaran Communities and affected Administrative Areas, and designated boards at the construction sites. All grievances and enquiries will be registered, reviewed, and responded per a procedure stipulated in the SEP.

**Table 5. RD’s Contact Details for Raising Project-related Inquiries or Complaints**

<p><b>Project-related</b> inquiries and grievances can be sent to:</p>	<p><b>Mr Artur Sanoyan</b>                  Project Manager for North-South Road Corridor Investment                  Project Tranches 2 and 4, "Road Department" Fund                  Government House 3, Republic Square, Yerevan 0010, Armenia  <a href="mailto:artur.sanoyan@armroad.am">artur.sanoyan@armroad.am</a>                  office: +374 10 51-13-91 (269), mobile: +374 95 111 537</p>
<p>For <b>general inquiries</b> stakeholders can approach the RD using the contacts at its website (<a href="https://armroad.am/en/contacts">https://armroad.am/en/contacts</a>)</p>	<p>"Road Department" Fund                  Government House 3, Republic Square, Yerevan 0010, Armenia                  +374 10 51-13-91  <a href="mailto:info@armroad.am">info@armroad.am</a></p>

**The residents of the villages located along the proposed road can also submit their inquiries and complaints to the heads of the respective villages.** Any inquiries or concerns communicated to the local authorities (heads of villages or communities) will be immediately transmitted to the RD for review and redress.

<sup>7</sup> [https://armroad.am/en/news/inner/News\\_25.04.2022](https://armroad.am/en/news/inner/News_25.04.2022)

<sup>8</sup> A separate mechanism is developed to address worker grievances.