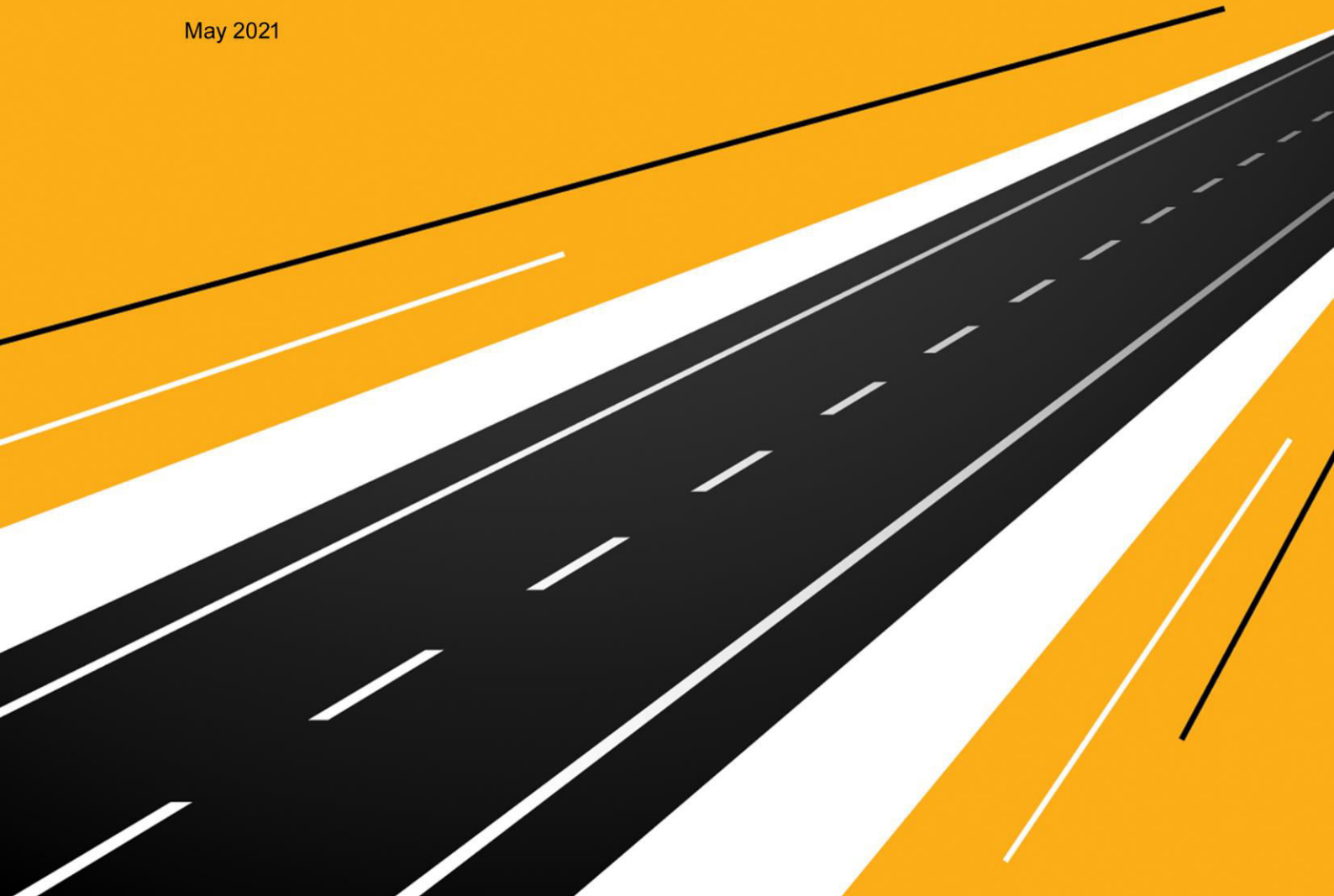


CATEGORY A PROJECT
Bosnia and Herzegovina Corridor Vc in FBiH
Mostar Motorway

VOLUME 3:
Environmental and Social Action Plan for
Section Mostar North-Mostar South

May 2021



Abbreviations

AESR	Annual Environmental and Social Report
BATA	Institute for Accreditation of BiH
BiH	Bosnia and Herzegovina
CESMP	Construction Environmental and Social Management Plan
CSOP	Construction Site Organisation Plan
DCWMP	Detailed Construction Waste Management Plan
EBRD	European Bank for Reconstruction and Development
EBRD ESP	EBRD's Environmental and Social Policy
ESIA	Environmental and Social Impact Assessment
ESAP	Environmental and Social Action Plan
ESMMP	Environmental and Social Mitigation and Management Plan
ESMS	Environmental and Social Management System
FBiH	Federation of Bosnia and Herzegovina
JPAC	Javno preduzeće Autoceste Federacije Bosne i Hercegovine /Motorways of the Federation of Bosnia and Herzegovina
LARP	Land Acquisition and Resettlement Plan
OHS	Occupational Health and Safety
PIU	Project Implementation Unit
PR	Performance Requirement
RSA	Road Safety Audit
SEP	Stakeholder Engagement Plan
UNECE	United Nations Economic Commission for Europe

1 PURPOSE OF THE ENVIRONMENTAL AND SOCIAL ACTION PLAN

PC Motorways of the Federation of Bosnia and Herzegovina (the Company or “JPAC”), a limited liability company wholly owned by the Federation of Bosnia and Herzegovina (FBiH), is working on the development of the motorway which is a part of the Trans-European Corridor Vc connecting Budapest (Hungary) and Port of Ploce (Croatia). The total length of the Corridor Vc in FBiH is approx. 335 km, of which approx. 100 km has already been constructed and is operational.

The European Bank for Reconstruction and Development (the “EBRD” or the “Bank”) is considering providing a sovereign guaranteed loan to the Motorways of the Federation of Bosnia and Herzegovina (the Company or “JPAC”). The Project is a follow-on operation to the Bank’s previous projects for the construction of four key motorway sections of Corridor Vc in FBiH. The Project involves the construction and operation of a motorway section Mostar North-Mostar South in total length of 14.2 km.

This Environmental and Social Action Plan (“ESAP”) includes key actions which the JPAC should undertake during the implementation of the Project to ensure that EBRD’s Performance Requirements (“PRs”), as well as national and EU legislation are met. ESAP has been developed taking into account the findings of the environmental and social (“E&S”) assessment carried out in July 2020. **The ESAP will constitute an integral part of the financing agreement with the EBRD.**

JPAC will be responsible for ensuring that third parties or contractors working on project sites meet the requirements of the ESAP by adopting and implementing an appropriate contractor management system. This is expected to be accomplished by the inclusion of appropriate requirements and conditions in public procurement documents, contracts and subcontracts, and through direct oversight and supervision by JPAC. The Tender Documents and the construction contract will meet the EBRD Standard Tender Document requirements.

JPAC will monitor the implementation of actions specified in this ESAP. Based on the monitoring results, JPAC will identify and reflect any necessary corrective and preventive actions in an amended ESAP (as agreed with the EBRD), implement the agreed corrective and preventive actions, and follow up on these actions to enhance their performance.

The responsible bodies for management of the Project are appointed at three different phases of projects:

1. The first phase is from obtaining the construction permit for a project, until the contract with the construction Contractor is signed (*responsible body: PIU (JPAC)*).
2. The second phase is from signing the contract with the Contractor, until the completion of construction works: **responsible person: Head of Project (JPAC)**. The head of project is responsible for cooperation with the **Supervising Authority (Contractor for external supervision)**. The Supervising Authority is responsible for the overall supervision of: construction **Contractor**, construction works and implementation of mitigation measures during the construction stage.
3. The third phase is the operation/maintenance phase (*responsible body: JPAC Management and Maintenance Department*).

JPAC will be required to provide regular reports to the EBRD on the E&S performance of the Project, including compliance with the PRs and implementation of the ESMS, ESAP, CESMP, OESMP and SEP. JPAC will prepare and submit to EBRD Annual Environmental and Social Reports on E&S and health and safety issues, and will be audited or otherwise evaluated by EBRD throughout the implementation phases of the Project. The EBRD may also periodically verify the monitoring information prepared by JPAC through site visits by the Bank’s E&S specialists and/or independent experts. JPAC must promptly notify the EBRD of any E&S incident or accident relating to JPAC or the Project which has, or is likely to have, a significant adverse effect, or of any changes to the Project’s scope, design or operation that is likely to materially change its E&S impacts and issues.

EBRD Environmental and Social Action Plan

No.	Action	Environmental & Social Risks (Liability/Benefits)	Requirement (Legislative, EBRD PR, Best Practice)	Resources, Investment Needs, Responsibility	Timetable	Target and Evaluation Criteria for Successful Implementation	Status
PR 1	Assessment and Management of Environmental and Social Impacts and Issues						
1.1	<p>Obtain and comply with all necessary environmental, water and health and safety permits. Permits include:</p> <ul style="list-style-type: none"> ▪ Preliminary Water Consent (PWC) - application follows the completion of Preliminary Design for new alignment; ▪ Environmental Permit (EP) through submitting the adequate environmental documentation which also includes the Waste Management Plan; ▪ Urban permit- application follows after obtaining the EP ▪ Construction Permit - application follows the completion of the Main design ▪ Water Consent (WC) - application follows the completion of the Main design ▪ Operation Permit– the application follows the completion of construction activities ▪ Water Permit – the application follows the completion of construction for Project section. <p>JPAC should ensure that Requirements from the EP, PWC and ESAP are included in Tender Documents for Main Design development and construction of the section as well as in Tender documents for supervision engineer services.</p>	<ul style="list-style-type: none"> ▪ Compliance with national requirements 	<ul style="list-style-type: none"> ▪ Law on Environmental Protection of FBIH ▪ Law on Waters of FBIH ▪ Law on Physical Planning and Land Use at the Level of FBIH 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	In line with the timeframe defined by national requirements	<p>Permits obtained in a timely manner</p> <p>Report in AESR to EBRD</p>	
1.2	<p>JPAC to establish PIU and dedicate a responsible person (head of PIU) to coordinate between the various departments so as to ensure that all ESAP and PR requirements are fully met and routine monitoring is implemented particularly in relation to Construction Site Organisation Plan (CSOP), health and safety, labour,</p>	<ul style="list-style-type: none"> ▪ Effective management of environmental and social aspects of the project 	<ul style="list-style-type: none"> ▪ EBRD PR1 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	As soon as possible	<p>PIU and head of PIU formally appointed, and communicated to EBRD</p> <p>Monitoring Plan (PR and ESAP compliance), and evidence of timely</p>	

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	<p>permits, land acquisition and stakeholder engagement.</p> <p>JPAC to hire or appoint within its team a Senior Associate for Environmental Policy within the newly formed Division for Study Documentation, Social and Environmental Policy, with the aim to ensure proper addressing of E&S issues <i>during the pre-construction and construction phases</i>.</p> <p>JPAC to also provide appropriate resources to enable the Environmental advisor to have access to a Contractor's specialist as needed to review and opine on the ongoing biodiversity investigation, mitigation and monitoring tasks.</p> <p>JPAC to hire or appoint within its team the Associates for Environmental Protection within the Division for Protection and Maintenance - Group for Environmental Protection, to ensure proper addressing of environmental issues <i>during operation/maintenance phase</i>.</p>					<p>action being taken on monitoring results</p>	
1.3	<p>JPAC to ensure that the Contractor undertakes preconstruction zero state monitoring and additional biodiversity surveys and updates environmental and social baseline data on air quality, noise emissions, soil quality, ground water quality, and biodiversity and social (as given in the ESIA and PR 6 of this ESAP), prior to development of Construction Environmental & Social Management Plan (CESMP) as part of the CSOP to supplement and update baseline data provided in the ESIA Disclosure Package. Based on the results the JPAC PIU will reconfirm the adequacy of mitigation measures and site-specific monitoring requirements in line with the Banks PRs.</p> <p>JPAC and Contractor will need to agree on the specific Construction phase monitoring programme (which is to be part of the CESMP) and agree on <u>relevant and specific</u> monitoring locations for all parameters.</p>	<ul style="list-style-type: none"> ▪ All construction-related environmental and social issues and impacts are appropriately addressed ▪ Compliance with EBRD Performance Requirements 	<ul style="list-style-type: none"> ▪ Local regulatory requirements ▪ EBRD PR1, PR 3, PR6 	<p><i>Responsibility:</i> JPAC to supervise, Contractor to implement</p> <p><i>Resources:</i> Contractor to include monitoring costs in his financial proposal. Contractor to engage the BATA licenced laboratory(ies) for monitoring of air quality, noise emissions, soil quality, ground water quality, while zero state of biodiversity will be performed by qualified</p>	<p>Monitoring obligations prescribed during development of Tender Documents</p> <p>Monitoring of zero state to be implemented prior to construction.</p>	<p>Requirement for pre-construction monitoring included in the tender documents and in the Contract.</p> <p>Evidence of monitoring reports prior to start of construction and revised mitigation measures if appropriate.</p> <p>Monitoring results included in the CESMP.</p> <p>Information about monitoring performed included in AESR to EBRD</p>	

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				biodiversity experts.			
1.4	The Main Design needs to be developed so to include design measures proposed in the ESIA to mitigate environmental impacts to biodiversity and water as well as design measures and materials specification in light of the anticipated climate change forecasts and projections over the lifetime of the project, to ensure sufficient resilience to climate variability and climate change.	<ul style="list-style-type: none"> Motorway structure will be resilient to climate change 	<ul style="list-style-type: none"> EBRD PR1 Good international practice 	<i>Responsibility:</i> JPAC to include specified requirements into the Tender Documents (Yellow FIDIC). JPAC to supervise, Contractor to implement	During the development of Main Design	Design measures and materials specification in light of the anticipated climate change forecasts included in the Main Design	
1.5	<p>Prior to start of construction, JPAC to require from its contractors to prepare and implement of Construction Site Organization Plan (CSOP) including:</p> <ul style="list-style-type: none"> Construction E&S Management Plan (CESMP) (CESMP is the upgraded version of the legally required Environmental Protection Plan inclusive of social aspects as per EBRD requirements); JPAC to request from the construction Contractor to include all measures defined in the ESIA Disclosure Package into the CESMP, including the adequate planning and mitigation measures for following aspects: air quality, noise and vibration management, soil management (including topsoil management), recultivation/land restoration, climate resilience, waste management, wastewater management, biodiversity management, concrete batching management, materials and hazardous material management, spill response management, traffic management, human resources policies, working relationships, child and forced labour, non-discrimination and equal opportunity, workers' organisations, wages, benefits and conditions of work, grievance management, worker accommodation, security personnel requirements (as applicable), information disclosure, etc. The Plan shall be prepared based on the updated baseline data for environment (zero state monitoring), 	<ul style="list-style-type: none"> Compliance with national and EBRD requirements 	<ul style="list-style-type: none"> EBRD PR1, PR2, PR3, PR4, PR 6, PR 8, PR 10 Law on Environmental Protection of FBiH Law on Waste Management of FBiH Law on Waters of FBiH Law on Nature Protection of FBiH Decree on Construction Site Organization, Mandatory Documentation on Construction Site and Construction Work Participants of FBiH Regulation of Construction Waste of FBiH Good international practice 	<i>Responsibility:</i> JPAC to include specified requirements into the Tender Documents (Yellow FIDIC). JPAC to supervise, Contractor to implement <i>Resources:</i> Contractors' resources	During development of Tender Documents and prior to signing of the Contract with Contractor for construction works. All relevant documents are to be developed prior to start of construction.	<p>Request for development of CESMP, OHS and Fire and Explosion Management Plan and Emergency Preparedness and Response Plan are included in the CSOP and incorporated into contract with Contractor</p> <p>Request for development of DCWMP incorporated into contract with Contractor</p> <p>Evidence of CSOP documents and DCWMP prior to start of construction</p> <p>Report in AESR to EBRD</p>	

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	<p>additional biodiversity surveys and social aspects (e.g. expropriation elaborate).</p> <ul style="list-style-type: none"> ▪ OHS and Fire and Explosion Management Plan ▪ Emergency Preparedness and Response Plan <p>PIU (JPAC internal supervision), as well as appointed Senior Associate for Site Level Management and Communication with Local Communities, Senior Associate for Environmental Policy and Senior Associate for Social Policy (JPAC internal supervision) to ensure that all requirements with regard to the abovementioned Plans are included in the Tender Documents.</p> <p>Supervising Authority (external supervision), Head of the Project (JPAC internal supervision), PIU (JPAC internal supervision), as well as appointed Senior Associate for Site Level Management and Communication with Local Communities, Senior Associate for Environmental Policy and Senior Associate for Social Policy (JPAC internal supervision) to review and approve all Plans in advance of works and confirm compliance with the Banks PRs.</p> <p>Contractors (both Construction Contractor and Supervision Authority Contractor) to ensure that training is provided to all workers on site regarding EHSS requirements and sub plans (as appropriate), including biodiversity. As a minimum all workers and visitors should receive induction training. Implementation of the Plans will be undertaken by the Construction Contractor, and supervision of the implementation by the Supervision Authority. Non – conformances to be tracked and resolved on a timely basis.</p> <p>Supervising Authority to continuously monitor timely implementation of measures during construction phase.</p> <p>During development of the Main Design and prior to construction phase, JPAC to require from its contractors to</p>						

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	prepare and implement Detailed Construction Waste Management Plan ¹ (DCWMP), prepared on the basis of the existing Waste Management Plan and Construction Waste Management Plan.						
1.6	<p>Prior to operation of the section Mostar North-Mostar South, JPAC (Management and Maintenance Department) to ensure that an Operation Environmental and Social Management Plan (OESMP) is in place. The OESMP needs to include all measures stipulated by the EP, ESIA Disclosure Package, including the mitigation measures for following aspects: biodiversity management, waste management, soil management, air emissions management, noise management, spill response management, hazardous material management, emergency preparedness and response, traffic management, security personnel requirements, grievance management for workers and for external stakeholders, information disclosure and stakeholder engagement, and health and safety management.</p> <p>JPAC to ensure that after-care procedures of the construction waste landfill are included in the OESMP, in line with the provisions of the Environmental Permit.</p> <p>During operation, the key issues to be monitored are air emissions, noise levels; effluent quality, soil contamination, wildlife passes, and animal carcass. JPAC to make publicly available the key monitoring results of the project.</p> <p>JPAC to implement OESMP for section Mostar North-Mostar South.</p>	<ul style="list-style-type: none"> ▪ Compliance with EBRD 2014 E&S Policy ▪ All operation-related environmental and social issues and impacts are appropriately addressed 	<ul style="list-style-type: none"> ▪ EBRD PR 1, PR 2, PR 3, PR 4, PR6, PR 10 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	Prior to start of section operation	Evidence of OESMP Report in AESR to EBRD	
PR 2	Labour and Working Conditions						
2.1	JPAC to manage and monitor contractor performance in	<ul style="list-style-type: none"> ▪ Compliance with local legislation 	<ul style="list-style-type: none"> ▪ FBH Labour Law ▪ EBRD PR2 (Human 	<i>Responsibility:</i>	Tendering	Provisions on applying	

¹ In line with the Article 11 of the Regulation of Construction Waste (93/19)

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	<p>relation to Labour Law of FBiH, ILO Conventions and ensure compliance with PR 2 provision on human resource policies and working relationships (during tender procedure and regular monitoring during site visits).</p> <p>Contractor to provide HR Policy and procedures manual in line with PR2 requirements and inclusive of hiring guidelines for recruitment to promote transparency of the recruitment process, equal opportunities and non-discrimination. JPAC to review the application of the guidelines in practice.</p> <p>During the recruitment process all job vacancies will be listed clearly with skills and experience required to fill the position, as well as the duration of the employment contract.</p> <p>Written information to be provided to all employees/workers about their terms and conditions of employment through employment contracts, which outline the duties and responsibilities of the employees, remuneration, working hours, holidays, overtime arrangements, Code of conduct, grievance mechanism and measures to prevent gender-based violence and harassment etc in line PR2.</p> <p>For recruitment of temporary workers, Contractor to ensure workers are fully aware of short-term nature of contract during construction period.</p> <p>The Contractor will ensure that sub-contractors/suppliers apply the same standards.</p>	<p>requirements and EBRD PR 2</p>	<p>Resource Policies and Working Relationships)</p>	<p>JPAC to monitor, Contractor to implement</p> <p><i>Resources:</i> In-house resources of JPAC and Contractor</p>	<p>procedure and during construction phase</p>	<p>the relevant requirements of FBiH legislation and PR2 incorporated into the Tender Documents and contracts with Contractor</p> <p>HR policy and procedures in manual that employees have access to compliant with EBRD PR2</p> <p>Periodic checks including site visits and reports on contractors</p> <p>Report in AESR to EBRD</p>	
2.2	<p>Develop, adopt and communicate to all employees an internal grievance procedure for workplace concerns in accordance with PR2</p>	<ul style="list-style-type: none"> ▪ Compliance with EBRD requirements 	<ul style="list-style-type: none"> ▪ EBRD PR2 (Grievance mechanism) ▪ EBRD Guidance Note on Grievance Management 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	<p>Prior to Project implementation</p>	<p>Developed, adopted and communicated internal grievance procedure</p> <p>Report in AESR to EBRD</p>	
2.3	<p>Monitor that Contractor hired by the Company follows the FBiH legislation on labour and OHS, as well as PR 2 provision on all provisions related to contractors - Non-employee workers (child and forced labour, non-discrimination and equal opportunity, workers organizations, wages, benefits,</p>	<ul style="list-style-type: none"> ▪ Compliance with local legislation requirements and EBRD PR 2 	<ul style="list-style-type: none"> ▪ FBiH Labour Law ▪ Law on OHS of FBiH ▪ EBRD PR2 (Non-employee workers) 	<p><i>Responsibility:</i> JPAC to monitor, Contractor to implement</p>	<p>Tendering procedure and monitoring during construction</p>	<p>Provisions on applying the relevant requirements of FBiH legislation and PR2 incorporated into the</p>	

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	<p>and conditions of work and accommodation, grievance mechanism for workplace concerns).</p> <p>The Contractor to ensure that sub-contractors/suppliers apply the same standards.</p> <p>JPAC and PIU will monitor contractor E&S performance including implementation of PR 2 standards by carrying out regular site visits (both planned and unannounced). Monitoring and inspection of labour associated performance to include (working hours, health, working conditions, labour concerns and grievances) and risks (i.e. child labour, forced labour, migrant workers). Any non-conformances to be recorded and tracked until resolved.</p>			<p><i>Resources:</i> In-house resources of JPAC and Contractor</p>	phase	<p>Tender Documents and contracts with Contractor</p> <p>Periodic checks including site visits and reports on contractors</p> <p>Monitoring reports and closure reports for non-compliances.</p> <p>Report in AESR to EBRD</p>	
2.4	<p>In case workers' accommodation is needed, JPAC to ensure that the Contractor includes in CESMP provisions on workers' accommodation in accordance with PR provisions and the EBRD/IFC Guidance Note "Workers' accommodation: processes and standards" 2009 referred to in PR 2, including the requirements for developing a Cam Management Plan with a Code of Conduct, disease prevention measures by the Contractor, including communicable diseases and STDs, as well as with EBRD Briefing Note on Workplace Risk Assessment including provisions for COVID-19 (2020).</p>	<ul style="list-style-type: none"> Compliance with EBRD requirements 	<ul style="list-style-type: none"> EBRD PR2 – Labour and working conditions (Workers accommodation) EBRD/IFC Guidance Note "Workers' accommodation: processes and standards" 	<p><i>Responsibility:</i> JPAC to monitor, Contractor to implement</p> <p><i>Resources:</i> Contractor's resources</p>	Prior to start of construction	<p>Workers' accommodation provisions included in CESMP</p> <p>Provisions implemented during construction works</p> <p>Periodic checks including site visits and reports on contractors</p> <p>Report in AESR to EBRD</p>	
PR 3	Resource Efficiency and Pollution Prevention and Control						
3.1	<p>Contractor to develop a Materials Management Plan with focus on efficient use of all materials and resources during construction. This requirement should be inserted in the FIDIC Yellow Book Tender documents.</p> <p>JPAC to request from the Contractor that material supply comes from authorized sources: quarries and borrow pits to have necessary permits: EP and WP</p>	<ul style="list-style-type: none"> Compliance with national, EBRD and EU requirements 	<ul style="list-style-type: none"> EBRD PR 3 Law on Environmental Protection of FBiH Law on Waste Management of FBiH 	<p><i>Responsibility:</i> JPAC will transfer responsibility to the Contractor</p> <p><i>Resources:</i> In-house resources</p>	Tendering procedure	<p>Evidence of the request in the Tender Documents</p> <p>Report in AESR to EBRD</p>	

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3.2	<p>Install and operate the Sequencing Batch Reactor tank on the premises of the toll station.</p> <p>JPAC to engage an authorised third party to undertake regular cleaning and maintenance of the Sequencing Batch Reactor tank during operation phase.</p>	<ul style="list-style-type: none"> Compliance with national, EBRD and EU requirements 	<ul style="list-style-type: none"> EBRD PR 3 Law on Environmental Protection of FBiH Law on Waters of FBiH Law on Waste Management of FBiH 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	<p>SBR installed in the construction phase.</p> <p>Maintenance during operation phase.</p>	<p>Evidence of reports regarding installation and cleaning of the SBR.</p> <p>Report in AESR to EBRD</p>	
3.3	<p>Included in the Main design and request from the Construction Contactor to install enclosed drainage and oil separators along the motorway route as well as at least 1 oil separator at the location of the toll station.</p> <p>Oil separators to be selected and installed in line with EN 858-1 and EN 858-2.</p> <p>JPAC to engage an authorised third party to undertake regular cleaning and maintenance of oil separators during operation phase.</p>	<ul style="list-style-type: none"> Compliance with national, EBRD and EU requirements 	<ul style="list-style-type: none"> EBRD PR 3 Law on Environmental Protection of FBiH Law on Waters of FBiH Law on Waste Management of FBiH 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	<p>Include the requested quality standard for oil separators in the Tender Documents. Oil separators to be installed in the construction phase.</p> <p>During the entire operation phase.</p>	<p>Evidence of the request in the Tender Documents</p> <p>Evidence of oil separator installation</p> <p>Evidence of reports regarding cleaning of the septic tank and the oil separator</p> <p>Report in AESR to EBRD</p>	
3.4	<p>JPAC will transfer waste management activities to a Contractor responsible for construction or maintenance of this road section. The Contractor will appoint a responsible person for waste management in line with the article 20 of the <i>Law on Waste Management FBiH</i>. Senior Associate for Environmental Policy will monitor work of a Contractor on behalf of the JPAC.</p> <p>Appointed responsible person for waste management to undertake regular and timely planning of waste management practices throughout all phases of project implementation.</p> <p>Engage a third party to undertake final disposal of the following waste types during operation phase:</p> <ul style="list-style-type: none"> sludge from the SBR treatment unit sludge from the oil separator sludge from concrete batching settler other special categories of waste and hazardous 	<ul style="list-style-type: none"> Compliance with national requirements 	<ul style="list-style-type: none"> EBRD PR 3 Law on Waste Management of FBiH 	<p><i>Responsibility:</i> JPAC to transfer waste management activities to a Contractor responsible for construction or maintenance of this road section</p> <p><i>Resources:</i> Contractor</p>	<p>Tendering procedure / Prior to construction</p>	<p>Evidence of JPAC decision on appointment of a responsible person for waste management</p> <p>Report in AESR to EBRD</p>	

No.	Action	Environmental & Social Risks (Liability/Benefits)	Requirement (Legislative, EBRD PR, Best Practice)	Resources, Investment Needs, Responsibility	Timetable	Target and Evaluation Criteria for Successful Implementation	Status
	waste.						
3.5	<p>JPAC to ensure that adequate waste management requirements and requirements from both Waste Management Plan and Preliminary Construction Waste Management Plan are included in the Tender Documents, including the recording of waste quantities both during construction phase and operation phase.</p> <p>JPAC to request from the Construction Contractor to prepare and implement Detailed Construction Waste Management Plan (DCWMP) during the Main Design phase.</p> <p>JPAC to request from the Construction Contractor to recultivate construction waste landfill after the completion of construction activities.</p>	<ul style="list-style-type: none"> Compliance with national requirements 	<ul style="list-style-type: none"> EBRD PR 3 Law on Waste Management of FBiH Decree on Construction Site Organization, Mandatory Documentation on Construction Site and Construction Work Participants of FBiH Regulation on Construction Waste of FBiH 	<p><i>Responsibility:</i> JPAC to transfer waste management activities and request form Contractor to implement</p> <p><i>Resources:</i> Contractor</p>	<p>Tendering procedure</p> <p>DCWMP implemented during construction activities.</p> <p>Recultivation after the landfill closure.</p>	<p>Contact with included waste management obligations for the Contractor</p> <p>Evidence of Contractor decision on appointment of a responsible person for waste management.</p> <p>Records of waste quantities both during construction phase and operation phase.</p> <p>Report in AESR to EBRD Evidence of recultivation.</p>	
3.6	<p>JPAC to request from the Contractor to undertake noise mapping as part of the Main Design phase.</p> <p>Contractor to undertake noise mapping in line with Environmental Noise Directive 2002/49/EC (END) and Common Noise Assessment Methods (CNOSSOS-EU)</p> <p>Contractor to erect the noise protective panels accordingly.</p> <p>Ensure that nearby communities and businesses are provided with details of noise barriers location and design in advance.</p>	<ul style="list-style-type: none"> E&S risks that could arise due to increased noise levels are appropriately addressed and actions tracked 	<ul style="list-style-type: none"> EBRD PR 3 Local regulatory requirements 	<p><i>Responsibility:</i> JPAC to request, Contractor to implement</p> <p><i>Resources:</i> Financial resources to be included in Contractor's financial proposal. Contractor should ensure experts for noise mapping.</p>	<p>Mapping during Main design phase, prior to construction.</p> <p>Noise barrier erection during the construction.</p> <p>Information to public after completion of noise mapping and selection of noise barrier locations.</p>	<p>Map/drawings with sufficient design detail for these to be costed and erected.</p> <p>Report in AESR to EBRD</p>	
3.7	<p>JPAC to raise awareness of motorway users to reduce GHG emission by adapting the driving speed to 110 km/h limit</p>	<ul style="list-style-type: none"> Efforts to reduce climate change risks that could 	<ul style="list-style-type: none"> EBRD PR 3 	<p><i>Responsibility:</i> JPAC</p>	<p>During operation phase</p>	<p>Report in AESR to EBRD</p>	

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		arise due to increased GHG are addressed and actions tracked		Resources: In-house resources			
PR 4	Health and Safety						
4.1	JPAC to develop and implement an OHS management system, as best practice, in accordance with ISO 45001 standard, or similar.	<ul style="list-style-type: none"> Improvement of OHS management through a formalised system 	<ul style="list-style-type: none"> EBRD PR 4 	<p>Responsibility: JPAC</p> <p>Resources: In-house and external consultant support</p>	Preferably prior to construction	<p>Implemented OHS management system, in line with ISO 45001</p> <p>Report in AESR to EBRD</p>	
4.2	<p>Require from Contractor to include in OHS and Fire and Explosion Management Plan (as part of CSOP) and implement specific H&S measures (both occupational and community H&S) with special focus on (but not limited to): unexploded ordnances, installing safety fences and warning signs at all critical work areas (e.g. open trenches, excavations, material and equipment staging areas, etc.), movement of vehicles and traffic management, influx of workers into the local area including general measures, health surveillance, code of conduct of workers etc.; sufficient provision of medical care facilities and resources for workforce; working at heights, working in confined spaces, working with hazardous material (e.g. explosives), management of electrical hazards, prevention of unintended ground movements and collapse, and biological hazards (poisonous snakes).</p> <p>Develop a Hazardous Materials Safety Plan as part of the OHS and Fire and Explosion Management Plan.</p> <p>Include contractual conditions to ensure that all sub-contractors follow and implement the OHS and Fire and Explosion Management Plan.</p> <p>Monitor Contractor's compliance.</p>	<ul style="list-style-type: none"> Safe working environment and improved H&S performance of contractors 	<ul style="list-style-type: none"> Local regulatory requirements EBRD PR 4 	<p>Responsibility: JPAC and Contractor</p> <p>Resources: Contractor in-house resources</p>	<p>Prior to start of construction works (ensuring compliance)</p> <p>Ongoing (monitoring and actions in case of non-compliance)</p>	<p>Documented OHS and Fire and Explosion Management Plan</p> <p>Written confirmation from all contactors to confirm they are aware of the EU requirements and are adequately resourced to ensure they are implemented</p> <p>Formal contactor monitoring procedure implemented and audited to confirm compliance</p> <p>JPAC to report on updates in AESR to EBRD.</p>	
4.3	JPAC to include in OESMP and implement specific health	<ul style="list-style-type: none"> Safer working 	<ul style="list-style-type: none"> Local regulatory 	<p>Responsibility:</p>	Prior to start of	Documented OESMP	

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	and safety requirements (both occupational and community H&S) for both the Company and the sub-contractor's personnel during the road operation and maintenance. It should include (but not be limited to): hazardous materials management, traffic accidents, traffic management, working at heights, working in confined spaces, electrical hazards, etc. Include contractual conditions to ensure all sub-contractors follow the OESMP.	conditions during operation and maintenance and improved H&S performance of contractors	requirements ▪ EBRD PR 4	JPAC <i>Resources:</i> In-house or Consultant support	operation (ensuring compliance) Ongoing (monitoring and actions in case of non-compliance)	Safety statistics and data JPAC to report on updates in AESR to EBRD.	
4.4	JPAC to ensure that the Contractor develops and implements a Traffic Management Plan (TMP) for both construction and operation phases (as part of the CESMP and OESMP) to identify and address all major hazards for workers and the local community during the motorway construction and operation. Haulage routes - avoiding communities as far as possible - should be considered in the TMP. Drivers should be trained in safe driving and the code of conduct. The TMP will need to consider phasing of the works to ensure local access is retained, including public transport. The management of mixed traffic during construction needs to be reinforced in the TMP especially due to the agricultural land use in the area. Contractor will be expected to monitor potential traffic and road safety risks (including accidents) within the 'Works' area as part of their Traffic Management Plan. The Plan should also include details on safety and stakeholder engagement measures relating to road safety.	▪ Adequate traffic management	▪ Local regulatory requirements ▪ EBRD PR 4	<i>Responsibility:</i> JPAC and Contractor <i>Resources:</i> In-house or external consultant support	Before construction commences the Plan must be approved by JPAC	Documented Traffic Management Plan JPAC to report on updates in AESR to EBRD.	
4.5	JPAC to ensure that the Contractor for the development of Main Design performs geotechnical investigations in line with the <i>Regulation on geotechnical investigations and surveys and organising and content of geotechnical investigation missions</i> .	▪ Adequate design solutions in line with the identified possible on-site hazards	▪ Local regulatory requirements	<i>Responsibility:</i> JPAC and Contractor <i>Resources:</i> Contractor in-house resources	Before developing the Main Design	Documented geotechnical investigations (Mission G21) JPAC to report on updates in AESR to EBRD.	
4.6	JPAC to ensure that the Contractor develops and implements an Emergency Preparedness and Response Plan for both construction and operation phases (as part of the CSOP and OESMP) to identify and address all major hazards	▪ Adequate emergency response	▪ Local regulatory requirements, ▪ EBRD PR 4	<i>Responsibility:</i> JPAC and Contractor	Before construction commences the Plan must be	Documented Emergency Preparedness and Response Plan	

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	for workers and the local community during the motorway construction and operation.			<i>Resources:</i> In-house or Consultant support	approved by JPAC	JPAC to report on updates in AESR to EBRD.	
4.7	JPAC to complete a Road Safety Audit (RSA) in accordance with the EU Directive on Road Infrastructure Management. Following the RSA there should be mandatory inclusion of economically viable safety improvements into the design. Road Safety Audit will be conducted by a certified auditor. Where the road safety auditor recommendations are not implemented, the reason why each recommendation has been declined needs to be confirmed to the Bank. A road safety inspection needs to be carried out on road once operational, and if appropriate, action plans for low cost remedial road safety measures should be developed.	<ul style="list-style-type: none"> Compliance with the EBRD's requirements Reduction of accident risks and improved road safety 	<ul style="list-style-type: none"> EBRD PR 4 EU Directive on Road Infrastructure Safety Management (2008/96/EC) 	<i>Responsibility:</i> JPAC/Certified auditor <i>Resources:</i> In-house resources, external resources as appropriate (consultants, designers, etc.).	Prior to commissioning of motorway sections	Documented Road Safety Audit Report in AESR to EBRD	
4.8	JPAC to undertake a programme of Community Road Safety Awareness activities along the route with the local communities to raise: <ul style="list-style-type: none"> driver awareness about road safety (e.g. encouraging wearing of seat belts, respecting speed limits, educating about risks associated with using motorways including safe stopping on hard shoulders), and community awareness about road safety (both in general and specifically about road safety issues in affected communities along the motorway), e.g. discouraging direct crossing of the road etc. 	<ul style="list-style-type: none"> Improved awareness of local communities and drivers on road safety 	<ul style="list-style-type: none"> EBRD PR 4 	<i>Responsibility:</i> JPAC <i>Resources:</i> In-house resources	Prior to road opening (operation phase)	Programme of Community Road Safety Awareness activities defined and delivered. Report in AESR to EBRD	
PR 5	Land Acquisition, Involuntary Resettlement and Economic Displacement						
5.1	Upon the development of the design documentation and the Final Expropriation Study and prior to construction activities, JPAC to develop and implement a LARP the motorway section Mostar North-Mostar South including the consultation and grievance management requirements. LARF and LARP to be publicly disclosed on JPAC website and hard copies of LARP made available in local communities.	<ul style="list-style-type: none"> Management of displacement impacts Ensuring that land acquisition and displacement are addressed as required under PR 5 	<ul style="list-style-type: none"> Local regulatory requirements EBRD PR 5 	<i>Responsibility:</i> JPAC <i>Resources:</i> In-house resources	Prior to loan effectiveness	Report on implementation in AESR to EBRD	

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5.2	Undertake an independent Completion Audit, 24 months after LARP implementation	<ul style="list-style-type: none"> Ensure economic displacement and livelihood impacts are restored 	<ul style="list-style-type: none"> EBRD PR 5 	<p><i>Responsibility:</i> JPAC/Independent expert</p> <p><i>Resources:</i> In-house resources</p>	Min 24 months after LARP implementation	Completion Audit developed and submitted to EBRD	
PR 6	Biodiversity and Living Natural Resources						
6.1	<p>Implement the biodiversity mitigation measures, stipulated by ESIA Disclosure Package (2020) which includes the implementation of the following mitigation measures:</p> <ul style="list-style-type: none"> develop and implement Invasive Species Management Plan conduct pre-construction surveys for a range of flora and fauna, as defined in ESMMP and BMP timely implement the set of mitigation measures listed in the ESMMP and BMP conduct monitoring as defined in ESMMP and BMP promote the aim of no net loss of biodiversity, and tend to achieve a net gain of biodiversity (implement tree planting) properly recultivate the construction waste landfill, by using autochthonous species in order to preserve the domestic gene pool 	<ul style="list-style-type: none"> Formalise mitigation strategy for biodiversity through a range of inputs Mitigation/compensation; monitoring strategy; preconstruction survey requirement; management of invasive species; avoiding risks to habitats and species 	<ul style="list-style-type: none"> EBRD PR6 EU Habitats Directive EU Birds Directive EU Regulation on Invasive Alien Species EUROBATS Law on Environmental Protection of FBiH Law on Nature Protection of FBiH 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> JPAC to supervise that specific requirements and mitigation measures are included in the Tender Documents</p> <p>Contractors to ensure in-house biodiversity expert to implement the measures during construction phase</p> <p>JPAC to supervise the implementation of mitigation measures</p> <p>JPAC to undertake mitigation and monitoring measures during</p>	Surveys prior to construction, during construction and first five years of operation phase	<p>Implementation of all mitigation measures proposed by the ESMMP</p> <p>JPAC to report on updates in AESR to EBRD.</p>	

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				operation phase			
6.2	JPAC to request from its Contractor to include in the Main Design at least three open channels for fauna in area of Kutilivac and Vrapcici and not to change the current alignment of the Tunnel T4 through Stolac hill.	<ul style="list-style-type: none"> Formalise mitigation strategy for biodiversity through a range of inputs during preconstruction phase to avoid risk to fauna and endemic flora. 	<ul style="list-style-type: none"> EU Habitats Directive EU Water Directive Law on Environmental Protection of FBiH Law on Nature Protection of FBiH Law on Waters of FBiH 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources and Contractor</p> <p>JPAC to confirm that these specific design requirements and mitigation measures are included in the Tender Documents</p> <p>Contractor for development of the Main Design to implement the measures</p>	Tendering procedure	<p>Included in Tender Documents</p> <p>Relevant sections of the Main Design included in AESR to EBRD</p>	
6.3	JPAC to require from Contractor for construction works to appoint a suitably qualified biodiversity expert with proper qualifications, familiar with the EBRD requirements, EU legislation, local legislation and Good International Practice) to coordinate the implementation and monitoring of the biodiversity management during preconstruction and construction phase	<ul style="list-style-type: none"> Formalise mitigation strategy for biodiversity through a range of inputs during construction phase to avoid risk to biodiversity 	<ul style="list-style-type: none"> EU Habitats Directive EU Birds Directive EU Regulation on Invasive Alien Species Law on Environmental Protection of FBiH Law on Nature Protection of FBiH 	<p><i>Responsibility:</i> JPAC during tendering procedure</p> <p>JPAC to confirm that Contractor implements the measures</p>	Tendering procedure	<p>Implementation of all mitigation measures proposed by the ESMMP</p> <p>Included in Tender Documents and in AESR to EBRD</p>	
PR 8	Cultural Heritage						
8.1	Develop Chance Find Procedure for managing chance finds, defined as physical cultural heritage encountered unexpectedly during project implementation, share with	<ul style="list-style-type: none"> Compliance with EBRD requirements Minimising risks to 	EBRD PR 8	<p><i>Responsibility:</i> JPAC/Contractor</p>	Prior to construction (preparation of	Chance Find Procedure developed	

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	<p>Contractor to implement during construction works, and ensure relevant staff and Contractor are trained in its requirements.</p> <p>The provisions of Chance Find Procedure need to include:</p> <ul style="list-style-type: none"> Notification of relevant competent bodies of found objects/sites; Alerting project personnel to the possibility of chance finds being discovered; Fencing-off the area of finds to avoid any further disturbance or destruction. 	cultural heritage		<p><i>Resources:</i> JPAC/Contractor in-house or external consultant support</p>	procedure) and during construction phase (implementation of procedure)	<p>Training (which may be part of induction) recorded</p> <p>JPAC to report on updates in AESR to EBRD.</p>	
8.2	<p>Implement the provisions contained in the Opinion issued by Federal Institute for Protection of Monuments (May 2020) including finding the accurate location of the protected and recorded goods, performing preventive archaeological research, i.e. sounding excavations and implementing protective measures which are at the same time measures necessary to mitigate negative environmental impacts.</p>	<ul style="list-style-type: none"> Compliance with local legislation Minimising risks to cultural heritage 	<ul style="list-style-type: none"> BiH Law on Protection and Use of Cultural, Historical and Natural Heritage 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	Prior to construction	<p>JPAC to report on updates in AESR to EBRD.</p>	
PR 10	Information Disclosure and Stakeholder Engagement						
10.1	<p>Implement and regularly update the Stakeholder Engagement Plan (SEP) for the motorway section Mostar North-Mostar South, to ensure that all stakeholders are identified, that sufficient information about issues and impacts arising from the Project and proposed mitigation measures are disclosed in a timely manner and that all stakeholders are consulted in a meaningful and culturally appropriate way throughout project implementation. Adopt alternative stakeholder engagement programmes in the event of COVID-19 restrictions.</p> <p>JPAC to ensure that Contractor is involved in engagement with stakeholders and implements appropriate parts of the SEP, particularly early consultation or information disclosure on local impacts and grievance management.</p>	<ul style="list-style-type: none"> Compliance with the EBRD's requirements Management of risks and impacts on communities affected by the Project 	<ul style="list-style-type: none"> EBRD PR10 - Information disclosure and stakeholder engagement UNECE Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	Continuously	<p>Stakeholder Engagement Plan in place prior to construction and regularly updated</p> <p>Report on stakeholder engagement in AESR to EBRD, including training of contractors (including security personnel) on grievance mechanism</p>	

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	JPAC to undertake meaningful engagements with all vulnerable and minority groups identified in the SEP.						
10.2	<p>The JPAC Senior Associate for Site Level Management and Communication with Local Communities will have to perform the following activities:</p> <ul style="list-style-type: none"> ▪ coordinating the stakeholder engagement activities of other departments within JPAC ▪ monitoring the implementation of the Corridor Vc SEP ▪ keeping records of all stakeholder engagement activities undertaken by JPAC, including records of public meetings ▪ publication of all relevant information and documentation ▪ act as contact person for enquiries and grievances ▪ management of stakeholder grievances and keeping records of grievances as defined in SEP, as well as identification of risks associated with the filed grievances and defining corrective actions in cooperation with other involved JPAC departments ▪ updating the SEP as necessary ▪ reporting to JPAC management and EBRD on stakeholder engagement activities 	<ul style="list-style-type: none"> ▪ Effective stakeholder management 	<ul style="list-style-type: none"> ▪ EBRD PR10 - Information disclosure and stakeholder engagement 	<p><i>Responsibility:</i> JPAC</p> <p><i>Resources:</i> In-house resources</p>	Continuously	Report on stakeholder engagement in AESR to EBRD	
10.3	Implement the recently established grievance mechanism and inform the affected communities about the grievance process including specific communication in the course of community engagement activities. Ensure that Contractor implements the grievance management provisions defined in SEP, by including such provisions in the tender documentation and contracts signed with the contractors. Contractors (including security personnel) to be trained on grievance mechanism.	<ul style="list-style-type: none"> ▪ Compliance with the EBRD's requirements ▪ Assurance of timely and effective resolution of complaints. 	<ul style="list-style-type: none"> ▪ EBRD PR10 - Information disclosure and stakeholder engagement 	<p><i>Responsibility:</i> JPAC/Contractors</p> <p><i>Resources:</i> In-house resources</p>	Continuously	<p>Monitoring the effective functioning of the grievance procedure as outlined in the project SEP.</p> <p>Grievance management provisions related to Contractors included in tender documentation and contracts signed with the contractors</p>	

