







7. Action Plan



Up to June 2024, the Concessionaire has resolved some actions remaining from the previous biannual report’s action plan. The Concessionaire is making efforts to close gaps for actions still in progress. The action plan has been updated based on the site visit carried out in July 2024 and the desktop review. The status of the activities is shown in Table 6 and has been evaluated with the following color coding.






Table 6. Action Plan





ID	Proposed Action	Deadline	Arup’s Observations on Status (up to June 2024)	Status
1	<p>Property Acquisition- Compensation mechanisms: The Concessionaire is complying with the resettlement processes and land acquisition according to the national Resolution no. 545, 2008 - ANI and the appendixes 7 and 8 for the Concession Agreement. The Concessionaire should evaluate economic, legal, and social aspects of the new resettlement properties and follow up the adaptation of their owners for at least one year.</p> <p>Arup request the Concessionaire to report in the next period all the strategies are being implemented for the relocation processes in UF, the approval of the EER regarding delays in the construction schedule and the results of the negotiation process (“ amigable componedor”).</p> <p>UF: 5 PS/EP:PS5</p>	Biannual - Next E&S report.	<p>Resettlement has finished for SUs for properties required for the improvement carriageway. However, the process has not started for at least 5 SU located in land required for the second carriageway design and for 5 SU in UF5 that will be compensated through land acquisition plan.</p> <p>This action is marked as “on track” until all resettlements are finished, and the Concessionaire completes monitoring procedures.</p> <p>Also, the Concessionaire should send specific information on how many Economic support for reestablishing economic means - ESRE compensations were conferred during this monitoring period.</p>	
2	<p>Archaeology: On June 18th, 2019, archaeological rescue activities started in the area denominated “El Indial” (Tesalia intersection UF 2 - UF3.1). Considering that it is not possible to estimate a date of termination of the archaeological activities, since it depends on the findings of each exploration, the Concessionaire has an EER approved on December 20th, 2019, that gives additional 2 months and 24 days to complete works once archaeological activities are completed.</p> <p>Regarding La Caucana archeological site and considering the Concessionaire didn’t monitor the archeological material in an appropriate way, Arup requests the Concessionaire to continue reporting the progress and management of the archaeological activities and findings.</p> <p>UF: All PS/EP:PS8</p>	Biannual - Next E&S report.	<p>The activities have continued given Resolution 0401 for archeological material recovered for UF 2.3, 3.1, 3.2 and 4; and the Archeological Authorization Intervention 7478 for materials from UF5.</p> <p>The Concessionaire continued with activities such as monitoring, public archeology and laboratory inventories to better safeguard archeological chance find findings and sites. Next quarter the Concessionaire about the protocol in case for change finding that may occur during O&M.</p> <p>The action is marked “on track”.</p>	

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
3	Environmental sanctioning process- Trompeta Bridge: In November 2018, ANLA opened a punitive process related to the construction of the Trompeta's bridge piles in UF 1. It is within the licensed area, but the construction activity was not allowed in the environmental license. In Arup's opinion considering that the UF 1 construction activities were finished, the sanctioning process does not represent a high risk in the development of the project. The Concessionaire must review the legal process and report the advances and response issued to the environmental authority in the next monitoring report. UF : 1 PS /EP: PS1	Biannual – Next E&S report.	There has not been material progress since November 2023. Arup will continue tracking this process until its official closure.	
5	Working conditions – work force layoff: Due to the end of construction works some of the UFs, during the evaluated period the Concessionaire began to implement the staff layoff programs which included different trainings. Arup request the Concessionaire to report all the programs, activities, statistics, and effectiveness of the implemented measurements. UF: ALL PS/EP: PS2	Biannual – Next E&S report.	Action solved during the January-June 2024 period.	
6	Water treatment in Tesalia Tunnel	N/A	Action solved during the January-June 2023 period.	
7	Water management – El Cairo aqueduct: The Concessionaire received the PQR No. 10-78 (May 5 th , 2019) related to the petition of information of the community El Cairo about the water flow of a waterbody near the entrance portal of Tunnel Tesalia. Arup requests the Concessionaire to submit all the technical studies about the watercourse lithology and water quality characterization and a report all the implemented measurements that guarantee the water availability and quality. UF: ALL PS/EP: PS1, PS3	Immediately – Next Technical report.	Communities are receiving a constant water supply and are not dependent of the veredal aqueduct. Still, in May 2024 the Concessionaire requested a water intake permit to Empocaldas to ensure permanent supply. Up to June 2024, an official response is pending, but Arup considers this aspect to be almost solved by the Concessionaire.	
8	Environmental sanctioning process- ready mix concrete plant: The Concessionaire has an environmental sanction procedure with ANLA (Resolution 02094, October 21 st , 2019) that has not ended in economic sanctions but are a risk for the project's environmental compliance and reputation. This sanction procedure was due to the operation of a ready-mix concrete plant not approved in the environmental license of UF 2. UF: ALL PS/EP: PS1, PS3	Biannual – Next E&S report.	There has not been material progress since March 2023. This action remains “on track”.	
10	Flow rates decrease near Tesalia Tunnel: In August 2020, the communities (including El Cairo) raised several PQRS related to an alleged decrease in groundwater flow rates and the water supply near the Tesalia Tunnel. Immediately, the Concessionaire activated the mitigation measures approved in the Environmental License to guarantee communities water access and start developing a hydrogeological study to determine if this impact is caused by the construction of the Tunnel. Arup requires the Concessionaire to continue to provide the information related to (i) the hydrological and technical studies that determine the cause, impacts, and risks, (ii) mitigation and compensation	Immediately- Next Technical report.	Action solved during the January-June 2024 period.	

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
	<p>implemented measures, (iii) interagency strategies, and the (iv) communications with environmental authorities, communities, and stakeholders. It is necessary to consider a scenario analysis and action plan in case of this issue is scaled up to a Court and the precautionary principle is declared.</p> <p>UF: 2.2 PS/EP: PS1-3-4</p>			
15	<p>Land acquisition and offset KPI near the Tesalia tunnel: During a previous field visit carried out by Arup, the Concessionaire reported that it was contemplating the acquisition of land near the Tesalia tunnel to reduce water pressure in the area due to crop cultivation. They also commented on implementing environmental offsets in that same property. The Concessionaire proposes this measure to contribute to the prevention of future impacts to the water body. This is also expected to contribute in some manner to the ecological restoration of the area. Arup recommends impact indicators for this measure if it is allowed and compensations for forestry use to be implemented. They can be considered for water quantity and flows, as well as for the development of plant species (e.g., percentage of survival).</p> <p>PS/EP: PS3-4</p>	Biannual – Next E&S report.	Action solved during the January-June 2024 period.	
19	<p>Update on Environmental Offsets: For previous period, Arup did not receive an update on the progress status of the Concessionaire's environmental compensation decreed by ANLA and local authorities. This is important for compliance with both national and international standards. Even though there are no effects on the schedule or fines up to June 2022, Arup must receive this information to validate the development of each of the compensation measures agreed by the Concessionaire.</p> <p>UF: All PS/EP: PS6</p>	Biannual – Next E&S report.	<p>Most environmental offset plans have not been executed yet, even though UF 1, 2, 3, 4 and 5 are completed regarding constructive activities. The main reason for the delay in offset completion is the availability of economic resources from the ANI environmental sub-account. Arup will continue requesting updated information for each plan regarding:</p> <ul style="list-style-type: none"> • Alternative approaches to entities (CARs, ANLA, Supervisor, etc.) and further announcements from them. • All information related to the current environmental offset budget, environmental sub-account from ANI and workshops held with the Supervisor in order to reach a consensus in this issue. • <u>More detailed information concerning other environmental activities to be developed aside from only the land acquisition i.e. measurable conservation outcomes such as the number of trees to be planted, fauna/flora monitoring.</u> • Updates for applicable UFs should not only include indicator performance but descriptions on how the offsets will mitigate the impact the Project has on biodiversity and which specific actions (planting, restauration, rehabilitation, 	

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
			<p>etc.) will take place, as this is what matters for compliance with PS6.</p> <p>Updates on the January-June 2024 period were: El Porvenir, Agualinda, and La Carolina properties transfer to CARDER and communication with the Prior Environmental Approval Committee to approve acquiring 195.93ha of El Chumbimbo Property and 40ha of Buenavista zone. In April 2024, the Concessionaire received the Non-Objection for some offset requirements and are now working to approve the remaining requirements to send to the Committee and proceed with property acquisitions.</p> <p>The action will be marked as “on track” until all properties are acquired.</p>	
20	Control over forestry use	NA	Action solved during the July-December 2023 period.	
23	<p>Accidents: Considering the increase of accidents, especially from the contractors, Arup requests from this time forth the Concessionaire should report within every biannual report supporting information related to the breakdown of each of the accidents presented (type of accident, causes, consequences, action plan). Arup invites the Concessionaire to be proactive in H&S activities to prevent and minimize accidents in the Project.</p> <p>UF: All PS/EP: PS2</p>	Biannual – Next E&S report.	Action solved during January – June 2024 period as all the documents were sent.	
25	<p>Fauna protection and follow-up: Aside from the wildlife repelling and rescue, Arup found no information regarding the implementation and effectiveness of fauna passages along the Project. Arup considers it as one of the most important parts of the biodiversity assessment, as it can measure the impacts on biodiversity caused by the Project construction. Therefore, Arup emphasizes submitting this information, including analysis of the results obtained.</p> <p>UF: All PS/EP: PS6</p>	Biannual – Next E&S report.	<p>No significant progress on construction of planned wildlife crossings was evidenced in this period. However, the Concessionaire has approval for 12 of the 20 proposed wildlife crossings in UF5, budget estimations and designs. The Concessionaire is awaiting the Owner's Supervisor wildlife crossings' design Non-Objection and the environmental authority's visit.</p> <p>The action is marked as “on track” until construction of all wildlife crossings is reported.</p> <p>The IESC finds that the wildlife crossings process is taking more time than expected. The Concessionaire argues that they will be installed once the UFs begin O&M stage. Arup finds really concerning that the Project has not complied with its obligations before start of O&M phase. If construction of these crossings</p>	

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
			does not start next period, Arup will mark the action on red.	
27	Exotic invasive species <i>Litobathes catesbeianus</i> UF: All, specially UF2.2 PS/EP: PS6	Biannual – Next E&S report	The action was marked as “solved” during the July-December 2023 period but Arup will continue requiring reports on presence of the bullfrog specie in the Project.	●
28	Internal Grievance Mechanism: The Concessionaire reports having no significant claims from workers. However, Arup emphasizes for the following period to send information regarding the registration of these complaints in the Internal Complaints Mechanism. Complaints can be attached by type, major cause, whether they come from the EPC, Contractors, or the Concessionaire itself. Arup also expects to receive a report summarizing the management of each measure. UF: All PS/EP: PS2	Biannual – Next E&S report	In this report, the Concessionaire provided a detailed account of the internal grievance mechanism, including the due process for each case, the classification of grievances, and the current status, specifying the number of cases that remain open and those that have been resolved. This demonstrates compliance with Arup's previous recommendations, ensuring that appropriate actions have been taken and that the internal grievance process is effectively managed.	●
29	GHG emissions: The GHG calculation should be wider, including more aspects rather than only fossil fuel consumption. The quantification should be based on international methodologies such as GHG Protocol and include a document of data interpretation and Concessionaire's good practices. Also, considering the IFC PS3 requirements and the stage of the Project, Arup requires the Concessionaire to present the cost-effective alternatives to reduce GHG emissions during the operation of the Project. UF: All PS/EP: PS3	Biannual – Next E&S report	Up to June 2024, Arup received a new GHG update. However, this report only includes fuel and energy consumption. Considering the construction completion, Arup sees an opportunity for the Concessionaire to perform a more detailed GHG analysis including O&M scenarios for mitigation. This action is marked as “on track” until the Concessionaire delivers a GHG quantification and assessment that is more aligned with the GHG protocol and that includes O&M scenarios and actions.	●
30	Water consumption	N/A	Action solved during the July-December 2023 period.	●
35	Use of glyphosate in weeds management	N/A	Action solved during the January-June 2023 period.	●
36	Internal Grievance Mechanism trainings: For next period, trainings on internal grievance mechanism should be performed. Workers need to learn how, why, and when to submit any claim, request, question, etc. UF: All PS/EP: PS2, EP2, EP3	Biannual – Next E&S report	Due to duplicity, this action has been closed and the Concessionaire's actions are being recorded in action 28.	
37	Activities to ensure mitigation of impacts to social actors affected by land acquisition processes: The concessionaire has implemented adequate acquisition, resettlement and compensation plans aligned with PS5. However, Arup considers the concessionaire should report an update on security of tenure for social units that have been relocated. UF: All PS/EP: PS5, EP2, EP3	Biannual – Next E&S report	Action solved during the January-June 2024 period.	●
38	Archeological Licenses	N/A	Action solved during the January-June 2023 period.	●

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
39	<p>UF3.1 archeological updates: UF3.1 sites with soil removal that are not under ICANH licensing may impose a gap with PS8. In November 2022, ICANH informed the Concessionaire that given the soil works are because of a landslide and civil works to stabilize the area need to be done, the Project's archeological team, as a preventive measure, shall permanently accompany civil works. In case archeological material is found the team shall implement the "Protocol for the Management of Fortuitous Archaeological Heritage Findings" established by the ICANH. The IESC will need detailed updates on communications with ICANH on the issue and reports on findings of archeological material an management of the situation and civil works.</p> <p>UF: All PS/EP: PS8, EP2, EP3</p>	Biannual – Next E&S report	Action solved during the January-June 2024 period.	
40	<p>Disaster Management Plan training: Arup considers that the Project has adequate measures for prevention and action in case of emergencies and disasters. However, the IESC considers that there could be improvements in the dissemination of information. Arup requests updated information or evidence related to trainings associated with the Disaster Management Plan and Contingency Plan and to report the community at least once a year on implementing on impacts, risks or matters that may affect them.</p> <p>UF: All PS/EP: PS1, EP2, EP3</p>	Biannual – Next E&S report	<p>The Concessionaire has implemented social risk and hazard training considering the identified risks, and dangers. However, the Concessionaire has stated that they do not have updated information on emergency training and socialization, or on any of the drills that should be done as part of the Disaster Management Plan.</p> <p>It is important that the Concessionaire updates this information for the next monitoring period.</p>	
41	<p>Identification of Climate Change Risk Assessment for the Project: Arup considers that rainfall and floods are having a significant impact on the Project, since the Concessionaire has repeatedly requested urgent measures to adapt bridges and other works to erosion, flooding and mass movements. It is important to carry out a risk study of climatic events, as they have an impact on the value of the Project and potential cost overruns, as well as on the safety of users and communities. The IESC recommends that the Concessionaire submit an analysis on this aspect for the next period, as well as documentary evidence on the actions taken between January and July 2023 to remedy the effects and prevent future damages.</p> <p>UF: All PS/EP: PS1, EP2, EP3</p>	Biannual – Next E&S report	Action solved during the January-June 2024 period.	
42	Air pollution prevention and road safety	Biannual – Next E&S report	Action solved during the January-June 2024 period.	

ID	Proposed Action	Deadline	Arup's Observations on Status (up to June 2024)	Status
43	<p>Current update on Zodme Saibo contingency: Considering the information shared until this semester, the Concessionaire will keep Arup informed regarding the progress or management made for the Zodme Saibo contingency. The Concessionaire informed that it has not been possible to properly address the contingency because there is no authorization from the owner to access the property.</p> <p>UF: 4 PS/EP: PS3</p>	Biannual – Next E&S report	<p>The Concessionaire is conducting on-site studies and monitoring, as well as implementing temporary water management measures. Once the studies are completed, the final technical solutions for this ZODME will be developed.</p> <p>This action is marked as “on track” until the Concessionaire confirms it was able to attend the Saibo contingency and that the local authority gave a formal approval.</p>	●
4	Soil protection improvements	N/A	Action solved during the January-June 2024 period.	●
45	Water occupation- La Ley bridge	N/A	Action solved during the January-June 2024 period.	●