

**ANNEX D:** Improved Governance of the Natural Parks across the Wakhan Corridor (PAK-AKDN-CHI-003)

Considering the activities proposed in this project i.e. Basic Infrastructure and Micro-Hydel construction, the combined mitigation measures for both (Annex D1 and Annex D3) have been included below.

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
Preparation (conception, planning)	E&S Risk Management Project sitting	<ul style="list-style-type: none"> <li>Avoid glaciated areas, peatlands, grazing lands, corridors and migratory feeding areas.</li> <li>Keep adequate distance of infrastructures and important hotspots areas in case of any unavoidable reason</li> <li>Avoid construction in an area subjected to geological hazards, such as on or under potential landslide areas, or in the course of possible future mud slides or rock falls</li> </ul>	Design documents (feasibility Studies)	AKRSP	Project planning documents
	Project design	<p><b>Resource Center</b></p> <ul style="list-style-type: none"> <li>The design of the building should incorporate construction methods applicable to high altitude areas also incorporating traditional methods to possible extent to lower external inputs requirement and blend into local environment, enhancing scenic beauty of the area.</li> <li>Earthquake resistant construction approach will be undertaken by using lighter construction to reduce the weight of the building, increased coherence between building components to avoid sudden collapse, increased lateral stability for long wall segment and functional strength by small structural modifications in the design.</li> <li>The roof will be constructed with GI sheet roofs having a cement/concrete topping. External insulation on these GI floors is essential; otherwise condensation will occur on the inside, eventually causing corrosion of the sheets.</li> <li>Insulated walls, windows with double glass, ceiling and roof insulation to avoid heat loss will be used for building as well as passive solar energy in the winter season will be used for heating rooms.</li> <li>Key consideration will also be given to building orientation</li> </ul>	Design documents (feasibility Studies)	AKRSP	Project planning documents

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		<p>with regard to strong winds (reduce the cooling effect) and use of passive solar for heating during winters.</p> <ul style="list-style-type: none"> <li>• Develop a sanitation system that does not freeze during winter and nor require large amount of water.</li> </ul> <p><b>Micro Hydropower (MHP)</b></p> <ul style="list-style-type: none"> <li>• Engage local communities to select a feasible site for construction of the MHP and maintenance of the facility after construction site.</li> <li>• Two locals will be trained for operations and maintenance of the facility under CO control.</li> <li>• MHP will be preferably constructed on spring water source which does not freeze during winter.</li> <li>• Underground design structure will be used for the channel which will be less subjected to winter coldness and ice.</li> <li>• The gradient of MHP channel will be kept high so that water will pass quickly because slowing moving and standing water get easily freeze.</li> <li>• The proper drain out system will be designed for the channel, forby tank and penstock.</li> <li>• The power station will be completely insulated so that temperature inside the building can be well maintained avoid the effect of cold winter conditions.</li> </ul> <p><b>Pony Trails/ Tracks</b></p> <ul style="list-style-type: none"> <li>• The length of the trail will be kept between 3 to 5 feet so that both human and animal can easily move through these tracks.</li> <li>• Sharp turn and steep slopes will be avoided and if it becomes unavoidable then especially warning signs will be placed at such place/points.</li> </ul> <p><b>Corral/ Model Sheds</b></p> <ul style="list-style-type: none"> <li>• Corral will be established in the pastureland which will be identified in consultation with local communities and wildlife department</li> <li>• This structure will be opened structure and made up of Galvanized Iron Wires (GI) and strong reinforcement will be done through fixing of pipes and angle irons.</li> </ul>			

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	Indigenous People and Stakeholder Engagement	<ul style="list-style-type: none"> <li>Engagement of communities in project planning and designing to incorporate community considerations.</li> <li>Key stakeholders identify for the project area are District Administration, KP Wildlife Department, Community based organizations (VOs, WOs and CO), Village Conservation Committees.</li> <li>Community through its representative CO and social mobilization activities will be engaged at all stages of implementation with primary preference given to locals for labor works or other livelihood opportunities as arising from project works.</li> <li>Regular consultation and coordination will keep all stakeholders engaged and updated about project activities</li> </ul>	Project Documentation Stakeholder Engagement Minutes	AKRSP	Document review Grievance records
	Grievance Mechanism	<ul style="list-style-type: none"> <li>Formation of committee to address grievance</li> <li>Complaint box will be established on the project site</li> <li>Document all grievances from workers, communities and other stakeholders on a register along with the responses given.</li> <li>Incident reporting mechanism</li> </ul>	Grievance Mechanism	AKRSP	Review of grievance register
	Occupational Health & Safety	<ul style="list-style-type: none"> <li>Sensitize Implementation Partners on OHS.</li> <li>Provide H&amp;S training to contractors and workers.</li> <li>Incident reporting mechanism</li> <li>Develop SOPs relating to COVID 19 for safety of people associated with project activities.</li> </ul>	Trainings record.	Consultant AKRSP	Check Training records Check incidents reports
	Land Acquisition and Resettlement	<ul style="list-style-type: none"> <li>Land will be voluntarily donated</li> <li>No local conflict over land entitlement</li> <li>Least vulnerable to natural hazards.</li> <li>Land should not be located near to important habitat</li> </ul>			

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
	Natural Habitats / Biodiversity	<ul style="list-style-type: none"> <li>• Avoid or provide a sufficient distance between structures and important ecological hot spots in the planning and adopt mitigation measures to address impacts of infrastructures on hotspots areas</li> <li>• Training or orientation of staff to The applicable guidelines, regulations and acts related to national parks</li> <li>• Regulations or acts relating to national park should be made part of contracts agreement.</li> </ul>	Site Observations	Contractor	Site inspections
Implementation / Construction	Grievance Mechanism	<ul style="list-style-type: none"> <li>• Awareness and orientation to complaint mechanism</li> <li>• Document all grievances from workers, communities and other stakeholders formulated on a register along with the responses given. Anonymity, if required, shall be guaranteed.</li> </ul>	Grievance Mechanism	AKRSP Contractor	Review of grievance register
	Labour Conditions	<ul style="list-style-type: none"> <li>• Ensure minimum labour conditions (child labour, forced labour, non-discrimination) required by Country Laws and ILO Conventions</li> <li>• As a minimum, first aid kits need to be available on every construction site.</li> <li>• Ensure the workforce has information of the closest primary healthcare facility, providing prescriptions.</li> <li>• Emergency services (next hospital, health center or doctor) identified and information made available to workers in case of need</li> </ul>	TORs and	Contractor and AKRPS	Inspection reports (also from labour authorities), training record

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
	Occupational Health & Safety	<ul style="list-style-type: none"> <li>• Provide H&amp;S training to contractors and workers on the main risks on workers' health and safety. The Contractor will need to have an effective workers health and safety Plan and also train his workers on first aid and other emergency response.</li> <li>• Contractors will install adequate road signage showing construction work in visible places for the people to see.</li> <li>• Adequate sanitation and hygiene systems will be maintained in the construction site to reduce or control the spread of diseases.</li> <li>• The contractor will provide protective materials to all its employees and impose their use.</li> <li>• Close supervision of the workers to ensure that they are putting on protective clothing and ensure that workers are standing away from harms way during activities such as blasting or machinery operations.</li> <li>• Record accidents and near misses continuously.</li> <li>• Implement incentive programme for incident recording.</li> <li>• Monitor the security warnings and adapt a proactive attitude vis a vis security situation. Evacuate workers if necessary.</li> <li>• Ensure availability of Personal Protection Equipment (PPE) for working on the project site.</li> </ul>	<p>Trainings record.  Incident documentation.  Project reporting.</p>	Contractor/ AKRSP	<p>Check Training records  Check incidents reports</p>

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
	Emissions (dust, noise, gases)	<ul style="list-style-type: none"> <li>Excavation and construction sites will be sprayed to keep them moist for dust control.</li> <li>Trucks carrying earth, sand or stone will be covered with tarpaulin sheets to avoid spilling.</li> <li>No construction contractor's plants will be established near water bodies, important geographic point.</li> <li>No firewood for cooking and heating bitumen, and incineration of wastes will be allowed by the Contractor</li> <li>Using equipment and vehicles in appropriate technical conditions.</li> <li>Provide emissions control equipment where applicable (e.g. filters). Use low sulphur content fuels, in line with legal provisions in force as well as local availability.</li> </ul> <p>Ensure vehicles and equipment are switched off when not in use.</p>	Observations	Contractor	Random site inspection
	Noise and vibration impacts	<ul style="list-style-type: none"> <li>Establishing noise sources away from the communities and sensitive ecosystems</li> <li>Timing of construction activities only between 7 AM to 6 PM to avoid disturbance to nearby communities at night</li> </ul>	No work conducted between 10pm and 7 am/ Grievance Mechanism	Contractor	Random site inspection, Review of filed grievances, review of timesheets of workers

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
	Soil and groundwater contamination	<ul style="list-style-type: none"> <li>Prohibit disposal of excavated spoils and debris into river / stream water.</li> <li>All chemicals and oil will be stored away from water and concreted platform with catchments pits for spills collection.</li> <li>All wastes arising from the construction sites will be disposed in an environmentally accepted manner. Wastes will be collected, treated (e.g. sewage through septic tank) or stored (e.g. waste oil, lubricants, and paints) prior to disposal or transported to the approved disposal sites.</li> <li>No vehicle or equipment will be washed, parked or refueled near river water</li> <li>No untreated sanitary waste water will be discharged into the river water.</li> <li>Construction waste and debris will be either reused if possible or disposed off in proper designated locations.</li> <li>Construction sites will be provided with proper waste management facilities such as dust bins and earthen pits.</li> <li>All waste fuel, oils, lubricants etc. will be stored separately and sold to or given for relevant recycling use.</li> </ul>	Dedicated storage areas in place	Contractor	Random site inspection, Review of waste inventories
	Soil Management	<ul style="list-style-type: none"> <li>Soil erosion will be controlled by standards soil stabilization techniques</li> <li>Reinstatement of construction working area to possible extent after construction activities are completed.</li> <li>If construction takes place on inclined surfaces/slopes, ensure preventive erosion control measures are applied</li> </ul>		Contractor	Random site inspection

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
Implementation / Construction	Water Resources Protection	<ul style="list-style-type: none"> <li>• Reuse wastewater wherever feasible.</li> <li>• Restrict excavation activities during periods of intense rainfall.</li> <li>• Use temporary binding to reduce the risk of sediment, oil or chemical spills to the receiving waters</li> <li>• Existing natural drainage system, such as streams will not be disturbed.</li> <li>•</li> </ul>	Applicable guidelines available on project site Types of measures adopted	Contractor	Random site inspection, Project planning documents
	Community Health & Safety	<ul style="list-style-type: none"> <li>• Prevent physical access to the site by fencing and/or guarding during construction and use appropriate signage</li> <li>• Find alternative routing in case passing near/close to site is unavoidable and may potentially endanger the passers-by.</li> <li>• Inform site users, community leaders, authorities (informal/official) during stakeholder meetings about access restrictions</li> <li>• Avoid as much as possible work, transportation, vehicle operations during dark.</li> </ul>	Access controlled, Observations Training attendance lists Grievance Mechanism	AKRSP, Contractor	Random site inspection

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
	Biodiversity and Natural Habitats	<ul style="list-style-type: none"> <li>Any activity such as blasting causing huge disturbance should be avoided and in place it machine excavation should be used.</li> <li>All project / organizational staff, contractors and labor should ensure cleanliness within the park and all kinds of waste materials should be properly disposed at designated points.</li> <li>Engage with local community institutions (village and women organizations, CO/LSO) in conservation and awareness raising including watch and ward in the Broghil area.</li> <li>Educational measures aimed at informing the travelling public about the reasons for not feeding wildlife, removing plants, littering, etc., and to instill a general appreciation of the desirability of conservation.</li> <li>Awareness on laws prohibiting hunting, use of hazardous substances, and removal of plant materials from the park</li> <li>Identification of rest areas with garbage cans and toilet facilities to discourage littering.</li> <li>The conservation activities measures should be supported to reduce impacts of increasing human activity on wildlife population.</li> <li>Use visibility enhancement objects such as marker balls, bird deterrents, or diverters should help to prevent bird collision and mortality with electric lines.</li> </ul>	Vegetation clearing minimal	Contractor	Random site inspection

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	Social and Culture	<ul style="list-style-type: none"> <li>All the non-local labour and staff should be given orientation on local cultural practices.</li> <li>The contractors should ensure that their labour should not be engaged in any uncultured activities</li> <li>Avoid any unnecessary movement of non-local people in community centers</li> <li>Emphasis on engaging local labours</li> </ul>	Grievance Mechanism	Contractor/ AKRSP	review of filed Grievance
Operation	Occupational Health and Safety	<ul style="list-style-type: none"> <li>Minimise risks of electrocution for workers: only qualified personal equipped with adequate protection equipment perform the works on power infra development and maintenance</li> </ul>	Site Observations	Contractor/AKRSP	Random site inspection
	Community Health & Safety	<ul style="list-style-type: none"> <li>Proper sensitization of tourists and locals to conserving the environment and wildlife habitat has to be a continuous process etched through an agreement between, District Authorities / Wildlife Department and LSO /CO / VOs / WO</li> <li>Access to climb electricity pylons needs to be restricted By Use of signs, barriers</li> <li>Education / public outreach to prevent public contact with potentially dangerous equipment</li> </ul>	Site Observations	Contractor	Random site inspection
	Biodiversity and Natural Habitats	<ul style="list-style-type: none"> <li>In Broghil area, it is very difficult to establish plantation due to harsh weather and limited growing season, therefore to reduce impacts of pollution, plantation should be established in lower areas.</li> <li>Proper sensitization of tourists and locals to conserving the environment and wildlife habitat has to be a continuous process etched through an agreement between, District Authorities / Wildlife Department and LSO / CO /VOs / WOs</li> </ul>	Pesticide Specification sheet	Contractor	Random site inspection



## Appendix 1 – Generic Stakeholder Engagement Plan (PAK-AKDN-CHI-003)

For this project, different stakeholders have been consulted as indicated in engagement activities in following lines and key findings / suggestions have also been documented accordingly. This will also be a continuous process throughout the project implementation where key stakeholders including District Authorities, Wildlife Department and Local communities will be regularly engaged for effective and smooth implementation of the project activities. Implementation approach will be designed in best interest of the locals ensuring their complete ownership and following a do no harm philosophy. In design and execution of the activities it will ensure to possible extent that physical environment is not negatively affected and proper mitigation measures are considered where there is chance of such adverse impact. The project has received the required NOC from DC Office in Chitral, to undertake these works in Broghil. Wildlife Department concerned with management of Broghil National Park has important role in ensuring activities do not adversely affect flora and fauna in the park for which an MoU of collaboration, collaboration, public awareness and monitoring has already been agreed to and is at an advance stage of formal inking. Meetings have also taken place with communities and their representatives to discuss their role, participation, labor works and other opportunities as arising from project and sustainability mechanism of actions. A formal agreement for their role and contribution/participation will be signed between AKRSP and communities (through representative organizations: VO/WO/CO/LSO). AKRSP is already implementing another PATRIP funded initiative in Broghil valley, for which a detailed ESMP was developed and is being executed. This ESMP and stakeholder engagement plan in essence draws from efforts already in place and will amplify the positive impact on local social and physical environment.

### ENGAGEMENT ACTIVITIES

During preparation of this project (design and ESA/ESMP preparation) following activities were organized to disclose information and engage stakeholders:

Stakeholder	Date	Method
District Administration of Upper Chitral	15 <sup>th</sup> August 2020	Consultation and sharing project details to get Project NOC
Wildlife Department	10 <sup>th</sup> August 2020	Discussion around project activities and seeking Project NOC
Community Organizations/ Village Conservation Committee(VCC)	8 <sup>th</sup> August 2020	Sharing project activities and site selection for infrastructural activities.

### KEY FINDINGS

Concern/Suggestion	Stakeholder	Responses by the Project	Limitations
<ul style="list-style-type: none"> <li>Engage communities at all stages of project implementation</li> <li>Facilitate communities and government in resolution of Broghil National Park conflict</li> <li>Fully comply with District Administration SOPs for COVID 19.</li> <li>Provide all information related to project to administration if and when</li> </ul>	<ul style="list-style-type: none"> <li>District Administration</li> </ul>	<ul style="list-style-type: none"> <li>On the basis of government recommendation, AKRSP will incorporate these suggestions into organizational and project implementation SOPs.</li> <li>Project related information, fact sheets and other related will be shared the administration.</li> <li>COVID 19 SOPs of Government will be</li> </ul>	Broghil is a sensitive border area and actions of the project / implementation approach has to be tailored to conditions set by authorities through NOC or at a later stage.

<p>required.</p> <ul style="list-style-type: none"> <li>• Provide technical assistance to District Administration for carrying out developmental activities in the Broghil area</li> <li>• Engage local labour for the execution of the project works</li> <li>• Do not engage any foreigner without prior permission from the Competent Authority</li> </ul>		<p>provided to Staff and contractors working on the project site</p>	
<ul style="list-style-type: none"> <li>• Securing Project NOC and Signing of MoU with Wildlife department</li> <li>• The applicable guidelines, regulations and acts related to national parks should be duly followed by all project staff, contractors and other associated people working in the project area.</li> <li>• The environmental integrity of the area should not be disturbed and project(s) should be implemented in consultation with wildlife department.</li> <li>• Flora and Fauna of the park should fully protected and due care will be taken while implementing the project.</li> <li>• All project / organizational staff, contractors and labor should ensure cleanliness within the park and all kinds of waste materials should be properly disposed at designated points</li> <li>• Facilitate Wildlife</li> </ul>	<ul style="list-style-type: none"> <li>• Wildlife Department (KPK)</li> </ul>	<ul style="list-style-type: none"> <li>• Formal letter for Project NOC and Revised MoU will be forwarded for approval</li> <li>• Provide orientation and information of ongoing developmental activities in the project area.</li> <li>• Develop required Environmental and Social Management Plan (ESMP) in consultation and consensus of the local wildlife department.</li> <li>• Share designs of the infrastructure project with wildlife department when/if required.</li> <li>• Facilitate community mobilization during construction work.</li> <li>• Facilitate wildlife department staff in periodic visit(s) to project activities.</li> <li>• Coordinate project</li> </ul>	<p>The National Park Plan has been not formally declared due to community disagreement regarding demarcation of the park.</p>

<p>Department for mobilization of communities for conservation and sustainable management of the National Parks</p>		<p>activities with concerned Wildlife Department officer.</p> <ul style="list-style-type: none"> <li>Organize awareness sessions about parks management</li> </ul>	
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<ul style="list-style-type: none"> <li>• Engagement of local labour in construction works in place of non-local labour</li> <li>• Involvement of community in project implementation</li> <li>• Project Sustainability</li> </ul>	<ul style="list-style-type: none"> <li>• Community/Village Conservation Committee (VCC)</li> </ul>	<ul style="list-style-type: none"> <li>• AKRSP will hold dialogues with communities to share each and every details of projects and create broader understanding about project.</li> <li>• Project committee having representation of community organizations will oversee the construction work</li> <li>• AKRSP will facilitate both Administration, Cluster organization and VCC to collectively work for sustainability of the project.</li> </ul>	<ul style="list-style-type: none"> <li>• Remote location. And thinly distributed population.</li> <li>• Lack of technical skills</li> <li>• Trust deficit between wildlife department and Communities</li> </ul>
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