

ANNEX D1

ESMP for Basic Infrastructure Projects (Construction).

Ph.	Topic	Measure	Means of Verification	Responsibility	Monitoring procedure
Preparation (conception, planning)	E&S Risk Management Project setting	MSDSP's engineering team will visit the proposed area for construction and select land that is not wet and does not have high levels of groundwater, based on available data and observation. They will carry out a physical inspection to select land that does not have dense vegetation and has the potential to connect to basic services, such as water supply and electricity. The site will also be assessed for vulnerability to natural hazards including such as flooding, mudflows and landslide. The engineering team, together with representatives from relevant governmental agencies will ensure the identified site is free of erosion. MSDSP will also ensure that there will be no unintended, harmful consequences for both the physical and social environment. For example, an appropriate waste management plan will be developed in parallel with equipment selection and facility design to ensure appropriate waste management to avoid pollution and threats to human health. As a greenfield site has been selected for construction, an inventory of the flora/fauna, protected species will be considered during the feasibility assessment as part of the detailed design. However, the land allocated by government for site construction is in an area that was already cleared of trees and vegetation during the Soviet era, so there is minimal presence of flora and fauna that might be disturbed. The site is also not located in a residential area, so it will not disturb the livelihoods of nearby people.	E&S Checklist MoU with Government of Tajikistan (GoT), GPS point, Site pictures	MSDSP, Contractor, GoT	Site visits, Construction reports
	Project setting	Before construction starts up contaminated soil or source of contamination of soil will be removed through best practices whether replacing the contaminated soil or removing vegetation. For example, inappropriate removal of vegetation will lead to destruction of the ecosystem on the construction site and around. MSDSP designated engineer and other specialists will ensure the vegetation is removed appropriately through observation in the site and explaining best practices. For safely removing of contaminated soil or safe removing of vegetation, MSDSP designated engineer will include all these measure in the project plan.	E&S Checklist Site pictures	MSDSP, Contractor	Site inspection
	Project design	In order to ensure low-maintenance solutions in the design of construction and use of local materials, MSDSP will hire a reputable design company through a competitive tendering process that will minimise all potential health hazards during operation of the plant as well as operation and maintenance costs. Based on the contract, the design company will be obligated to ensure all construction norms like ventilation, water and electricity installation and fire emergency	Tender report, PDD	MSDSP, Contractor	Construction report

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		evacuation are in place and meet the requirements of the Republic of Tajikistan and PATRIP Foundation.			
	Indigenous People Stakeholder Engagement	Before construction begins, MSDSP GBAO management staff, will conduct a meeting with local authorities in Roshtqala and inform them about the construction plan/timeline. Also, MSDSP will regularly communicate with local authorities on the construction progress and potential unforeseen circumstances faces during construction process. Local communities living nearby the construction will also be informed on the construction activities that in case of disturbance to thier social environment. For example, during special events the construction activities will be temporarily suspended if deemed to disturb the social environment.	Stakeholder Engagement minutes	MSDSP, Contractor	Grievance records
	Grievance Mechanism	Before construction of the facility as well as after construction, during operation, MSDSP will introduce book of complaints for tracking grievances and reporting on them. Before construction activities, MSDSP will conduct public hearing or stakeholder engagement to present the project to all interested stakeholders including local government and local community. Also, during construction, MSDSP will assign the selected construction company to register grievances from construction workers as well as communities and to respond on time. It will be put in the contract between MSDSP and the construction company for tracking grievancies and will be monitored further. Also, the template on this mechanism shared by Donor will be translated into local language and disseminated among workers and communities. The Grievance mechanism will also be set after completion of the construction in the operation of the future plan/workshop through introducing the book of complaint and mentioned template.	Grievance Mechanism	MSDSP, Contractor	Review of grievance register
	Occupational Health & Safety	MSDSP before start of the construction will provide health and safety training for future construction company workers and future employees of the plant/ workshop to avoid accidents in the construction and during operation. In addition, specific safety instructions will be developed and explained among workers with further monitorings.	Training records, Incident documentation	MSDSP, Contractor	Review of training records and incident reports
Impl emen	Grievance Mechanism	Please refer to "Grievance mechanism" under "Preparation" above.			

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	Labour Conditions	As per Tajikistan law and PATRIP Foundation rules on labor protection, MSDSP will enter into a contract with a local reputable construction company that guarantee labor conditions. MSDSP designated person will closely monitor the conditions of construction workers and surprise visits to the site and report on these issues to MSDSP management and local government. Ensuring minimum labor conditions, MSDSP will put it in a contract between MSDSP and future construction company for execution of the work. In case of violation of the contract by the construction company MSDSP might terminate the contract and fine the construction company.	Contracts, Site inspections	MSDSP, Contractor	Inspection reports, Review of contracts
	Labour Conditions	Before construction starts up, MSDSP will explain once again all required labor conditions according to the Tajikistan law and PATRIP foundation rules on labor conditions and ILO convention requirements. MSDSP will ensure that first aid kits are kept at the construction site before construction. Also the construction workers will be made aware of the closest health facility and its contact information. MSDSP will inform health professionals about the construction plan and in case of emergency they should be responsive to unforeseen circumstances. Also, during operation process of the workshopplant, a first aid kit, contacts of emergency services and emergency equipment should be available at the facility.	Incident documentation	MSDSP, Contractor	Incident reports
Implementation / Construction	Occupational Health & Safety	MSDSP will provide health and safety training for the selected construction company, regardless of its prior knowledge and experience in occupational health and safety. The construction workers awareness will be raised on health and safety related to work place on site and they will be reminded about safe work practices. In addition, an incident reporting template will be introduced and translated to local language and disseminated among contractors and workers.	Training reports, Incident documentation	MSDSP, Contractor	Review of training records and incident reports
	Occupational Health & Safety	MSDSP project technical team in the process of contract development with a construction company include recording of accidents in the process of construction and reporting on them. During operation of the plant MSDSP introduce special book for recording accidents and strong preventive measures. MSDSP will ensure that the construction company during construction not only report on the accidents but also provide explanation for those accidents and strong preventive measures are developed and implemented.	Accident register	MSDSP, Contractor	Review of accident reports

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	Occupational Health & Safety	MSDSP will ensure the future workshop has clear anti-fire and evacuation plan in place and workers clearly understanding of evacuation plan and can communicate well among themselves and to the outsiders. Also, anti-fire equipment is kept in the facility as per Tajiksitan regulations. MSDSP will ensure that use of anti-fire equipment by the employees is explained by anti-fire department specialists. Moreover, the facility upon completion is checked by anti-fire department specialists and certificate of anti-fire for operation of the plant/workshop is provided as per Tajiksitan regulations.	Training records, Incident documentation	MSDSP, Contractor	Review of training records and incident reports
	Occupational Health & Safety	MSDSP will check the PPE of the selected construction company in advance before the construction activities begin. The project technical team from time to time will visit the construction site in a surprise visits and ensure each workers use PPE such as head protector, ear, eyes protector, gloves and other necessary equipment as per need. During operation of the future workshop, MSDSP will ensure that each employee have PPE and can use them properly. Training on the use of PPE will provide by relevant company or state control agency.	Site observations	MSDSP, Contractor	Random site inspections
	Emissions (dust, noise, gases)	MSDSP will deploy best practices in transportation management to avoid air pollution form the movement of construction vehicles. The project technical team will discuss use of transporation and technics/mechanism in the construction facility. For example, construction materals will be transported to the area after raining or during free hours when roads is free and open to trafic. For transportation of the construction materals of excavation working MSDSP will hire mechanisms in appropriate conditions to be ensured by MSDSP designated person .	Site observations	MSDSP, Contractor	Random site inspections
	Noise and vibration impacts	MSDSP will ensure that the noise and vibration impacts will be minimized through the proposed mitigation measures applicable to the area where the site was selected. The proposed mitiation measure will be contextualized to the area and to be explained to the selected construction company. Monitoring on the noise and vibration will be conducted by project technical team and in the event of identification of noise hours of operation of the equipment will be adusted.	Site observations	MSDSP, Contractor	Random site inspections Review of griavance docs
	Soil and groundwater contamination	MSDSP engineer responsible for oversee of the construction activities of the workshop/plant will soil and groundwater contamination on the site through application of minimum stockpile and appropriate storage of construction materials. Construction materials will be resued and recycled appropriately by construction company to ensure safe use of resources. In addition the contractor will be insructed to maintain fuel storage if any, for avoiding soil/groundwater contamination from accidental leaks or spills of stored fuel and transformer oil at construction sites	Fuel Storage	MSDSP, Contractor	Review of waste inventories

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	Water Resources Protection	The construction company will be instructed on not using of excavation during rainfall. As per preliminary observations, there is no any risk of sediment, oil or chemical spills to the receiving waters.	Site observations during rainy days	MSDSP, Contractor	Random site inspection
Implementation / Construction	Community Health & Safety	There will not be excessive movement of construction mechanism in the site except transportation of construction materials to the site. Also the facility is not on the main road which will not involve health risks however MSDSP will take into account the movement of the people around and during rush hour into account to avoid health hazards.	Site inspections Griavance mechanism	MSDSP, Contractor	Random site inspection
	Community Health & Safety	The site of construction is selected in a place that is not so close to residential houses, but the fencing of site will be ensured on all four sides; The contractor will be instructor to develop and disseminate signage for the workers. Moreover, all stakeholders will be informed about access restrictions to the site and the contractor will be responsible for following up of that restrictions.	Site inspections Griavance mechanism	MSDSP, Contractor	Random site inspection
	Community Health & Safety	The contractor will be obligated to train staff on ensuring safety engineering of personnel based on point added into the contract.	Training records, Incident documentation	MSDSP, Contractor	Review of training records and incident reports

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Operation	Waste Management	<p>Waste management practices will be discussed with the selected construction company and local government authorities to ensure the construction waste will not pollute the surrounding environment close to the facility or endenger livelihoods. Construction waste will be properly sorted out and never be buried at the construction site. Septic tanks will be incorporated into facility design to mitigate risks posed by the discharge of effluent into local waterways and the construction company will be obligated by MSDSP to make sure those septic tanks will be water seepage proof to avoid any groundwater contamination. Waste from site clearing shall be managed in accordance with the Contractor's approved Waste Management Plan. During the operation of the facility for safeguard employee health, dehairing and yarn spinning operations will be equipped with strong air ventilation and employees will be equipped with protective materials such as respirator masks, glasses, gloves and special uniform. This will prevent dust and particulate from having a negative impact on workers' health. Trainings on operation and maintenance (O&M) will be conducted for the employees by consultants and company engineers selected for purchasing of needed equipment. As per the contracts, those companies will be requested to develop manuals or video footage on O&M in order to ensure safety on employees and proper usage of the equipment.</p> <p>The waste management plan will also include mitigation measures for protecting the surrounding environment from the negative impact of the project. The mitigation measures will focus on protecting the environment from the waste generated in this project.</p>	Site observations; Waste management plan; Training records	MSDSP, Contractor	Random site inspection

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