Environment & Social Mitigation Plan for the Health Care Facilities East Jaintia Hills

The ESMP is applicable to any civil work activities leading to repair, renovation, and expansion in the HCFs under the project. This form is to be used by the project stakeholders PMU, JE in In-charge of the construction activities, and a health care facility in charge (ANM/ MO/ MS as applicable) to ensure ESMP discusses the risks and impacts and required mitigation measures as well as outlines the responsibilities and timelines for applying the suggested mitigation measures under the guidance of the Project Management Unit (PMU).

Name of the District	East Jaintia Hills
Name of the Block/ Town	Khliehriat Block
Category of health care facility/ Laboratory	Sub Centre
Name of health care facility	Ladrymbai Sub Centre
Activities	Construction Labour Room including (Internal Water Supply and Internal Electrification), Construction of Sharp Pit and Construction of Deep Burial Pit

ENVIRONMENT AND SOCIAL MITIGATION PLAN (ESMP)					
S.NO	**ACTIVITY**	**PARAMETER**	**MITIGATION (AS APPLICABLE)**	**RESPONSIBILITY**	**MONITORING**
1	Pollution management during repair, renovation, and retrofitting causing Impact on Land Use, Waste & Air due to Construction Activities	Risk of pollution from civil works including construction solid waste, dust, wastewater, noise, lubricants and oils, air emissions from diesel generators, Wastage of Water Resources,	1. Ensure the construction material is kept on paved surfaces, 2. Ensure all the material is properly covered to avoid dust pollution, 3. Ensure the placement of the concrete mixer, mixing of the concrete must be done on a paved surface, fresh land with good earth soil to be avoided damage to the soil and land pollution, 4. Water must be used from the authorized sources, 5. Proper accounting of the water to be done to ensure optimum usage of the water, 6. Ensure water is not directly drawn from any river, lake, pond, or other water body. 7. Generated waste water by washing the equipment's, machinery, and utility must be	Contractors to follow the instruction as provided in the mitigations measures as per ESMF. (Consult with JE in case of any queries)	JE deputed to the Site.

			disposed of through the proper drains connected to the wastewater treatment facility, 8. Use screens or nets to avoid flying debris and dust and use regular water sprays to suppress dust 9. Hazardous waste separated from non-hazardous waste on-site and disposed-off to designated sites 10. Measure and report noise (decibel) levels regularly Manage oil leaks/spills from diesel generators and machinery		
2	Management of Labor for civil work		1. Adequate hand washing and sanitization facilities at the construction site. 2. Consider ways to minimize/control movement in and out of construction areas/sites. 3. If workers are accommodated on-site, require them to minimize contact with people outside the construction area/site or prohibit them from leaving the area/site for the duration of their contract 4. Implement procedures to confirm workers are fit for work before they start work, paying special to workers with underlying health issues or who may be otherwise at risk, especially during the Covid-19 situation 5. Check and record temperatures of workers and other people entering the construction area/site or require self-reporting prior to or on entering 6. Provide daily briefings to workers prior to commencing work, focusing on COVID-19 specific considerations including cough etiquette, hand hygiene and distancing measures. 7. Require workers to self-monitor for possible symptoms (fever, cough) and to report to their supervisor if they have symptoms or are feeling unwell.	Contractor at the site;	JE deputed to the Site.

			8. Prevent a worker from an affected area or who has been in contact with an infected person from entering the construction area/site for 14 days 9. Sensitization construction workers and health care staff involved. 10. No child labor or forced labor is allowed to work as per the GoI norms and legislation. 11. Setting up gender-sensitive infrastructures such as segregated toilets and well-lit living areas/ camps (if any). 12. Ensuring the safety of women from any sexual exploitation and abuse (SEA) and sexual harassment (SH), sensitizing health care staff on SEA/ SH. 13. Follow Labor-Management Plan		
3	Civil Works / General Rehabilitation in the facility	Air quality / Dust	1. Keep demolition debris in a controlled area and spray with water mist to reduce debris dust 2. Suppress dust during pneumatic drilling/wall destruction by ongoing water spraying and/or installing dust screen enclosures at the site 3. ii. Keep surrounding environment (sidewalks, roads) free of debris to minimize dust 4. There will be no open burning of construction/waste material at the site 5. There will be no excessive idling of construction vehicles at sites	Contractor responsibility at the site; (Periodic Ambient Air Quality Monitoring to be carried out as per the National Ambient Air Quality Standards, CPCB by the contractor).	JE deputed to the Site.
		Noise	1. Construction noise will be limited to restricted times agreed to in the permit. 2. During operations the engine covers of generators, air compressors, and other powered mechanical 3. Equipment should be closed, and equipment placed as far away from residential areas as possible. 4. Materials such as sand, cement, or other fine particles should be kept properly covered. And moistened with sprays of water. 5. Unpaved, dusty roads should compact and	Contractor responsibility at the site;	JE deputed to the Site.

			then wet periodically.		
		Tree Cutting or Relocation	1. If any tree is falling into the project area then prima facie the drawing must be reviewed if there is a possibility to avoid the cutting or relocation then it must be given first priority, 2. If it is not feasible then the contractor must try to relocate the tree and monitor its survival, 3. If relocation is not possible then the contractor must obtain NOC from the Forest Department / Pollution Control Board Department to cut the tree and comply with the terms and conditions as provided in the necessary approvals as provided. a. Number of Trees to be identified and intimated to the concern JE In-charge. b. Necessary Permission to be obtained by the contractor for tree cutting from Forest Department / Pollution Control Board. c. All the permissions with proper compliance to be approved with the concerned person from PMU. 4. Quantity is captured in Annexure-1	Contractor responsibility at the site;	JE deputed to the Site.
		Drainage	1. The worksite site will establish appropriate erosion and sediment control measures to prevent sediment from moving off-site and causing excessive turbidity in nearby streams and rivers. 2. Keep all drains clear of silt and debris	Contractor responsibility at the site; He must ensure all the mitigation measures are regularly being complied with.	JE deputed to the Site.

		Construction Waste Management C&D Waste, Paint Peels, Construction Debris, Waste Excavated Soil, E-Waste (Electrical) Metal Scrap Waste Plastic Waste Wood Waste Glassware Waste	1. Waste collection and disposal pathways and sites will be identified for all major waste types expected from works activities. 2. Wastes will be separated from general refuse, organic, liquid, and chemical wastes by on-site sorting and stored in appropriate containers. 3. Construction waste will be collected and disposed of properly by licensed collectors. 4. E-Waste if generated is to be disposed of through the authorized e-waste collector/recycler approved by the Meghalaya Pollution Control Board, and all the legal compliance is to be followed as per the E-waste Rules 2016. 5. Metal Scrap, Plastic Waste, Wooden Waste, and glassware waste to be disposed of through the authorized recyclers or scrap dealers with a proper inventory of the waste. 6. Contractor must ensure proper segregation, storage, and disposal of the waste. 7. The waste must not be stored more than the regulatory limits as mentioned in the particular legislation. 8. PMU to provide a list of identified authorized sites for disposal of surplus waste of each category and account for the cost towards lifting and hauling of the same. Refer: Annexure 1 for Quantification	Contractor responsibility at the site; He must ensure all the mitigation measures are regularly being complied. All the quantity of the waste generated, stored, and disposed of must be accounted for on daily basis or as on generation basis.	JE deputed to the Site.

		Fire Hazard	1. Contractor must ensure proper fire extinguishers are placed in the HCF workplace area, and labor camp areas, 2. All the Fire extinguishers must be in working condition, the valid hydro-test certificate must be available, pressure gauge must be functional, 3. All the contractor personnel must be trained on basic firefighting skills.		
		Accessibility to the facility	1. Contractor need to ensure there is proper access to the facility as to mobilize the construction material and working personnel to the HCF 2. If the access is not suitable then he must ensure proper repair of the access and make it safer. 3. This must be approved by the site JE and HCF In-charge	Contractor responsibility at site;	JE deputed to the Site.
		Excavation Impacts, Soil Erosion, change in drainage pattern and Land Slides	***Note* If the hill slope angle is more than / equal to 20^0 then below mitigation measure must be considered*** 1. Propose for the construction of the retaining wall with a detailed estimate and drawing 2. Ensure that the slope of the retaining wall is constructed as per the design for the full support of the soil. 3. Ensure proper drainage of water streams.	Contractor responsibility at site;	JE deputed to the Site.
		Increase in the sediment load/wastewater drainage in receiving water	1. Contractor must ensure proper connection of the new drainage system to the old drainage system to maintain the streamline flow, 2. Ensure that no construction waste blocks the local drains, all the construction debris or any solid waste due to construction activities must be removed on regular basis.	Contractor responsibility at site;	JE deputed to the Site.
		Asbestos Management	***Note* If asbestos is located on the project site, the following provisions will apply*** 1. Mark clearly as hazardous material 2. When possible, the asbestos will be appropriately contained and sealed to minimize exposure. 3. The asbestos prior to removal (if removal is necessary) will be treated with a wetting agent to minimize asbestos dust Asbestos will be	Contractor responsibility at the site;	JE deputed to the Site.

			handled and disposed of by skilled and experienced professionals 4. If waste asbestos material is to be stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately 5. The removed asbestos will not be reused and will follow the IS 11768 (1986) Recommendations for disposal of asbestos waste material and CPCB Hazardous waste rules, 2016 (amended 2018).		
		Safety Hazards or Accidents	1. All the safety hazards related to the work to be identified, 2. Ensure all the safety PPE is provided to the workers, 3. All the portable handheld electrical or mechanical devices must be properly inspected prior to work, 4. Proper guarding to be provided on the cutting tools, 5. The contractor must provide proper safety gears to the working personnel for working at height, electrical safety, 6. Training to be provided to all the contractor personnel on basic construction safety.	Contractor responsibility at the site;	JE deputed to the Site.
4	Occupational Health & Safety (OHS) and Community Health & Safety	Health and safety risks to construction workers and other Sanitary related problems	1. The contractor (in cases of civil works) shall prepare a site-specific Action Plan for managing construction-related workplace occupational health and safety, community health and safety risks, and those associated with Covid-19 infections. 2. Provide relevant PPE to all workers with onsite toilet and washing facilities 3. Cordon off areas under construction and provide signage to warn of ongoing construction works 4. Plan and implement awareness sessions for workers and the community on health and safety hazards and risks and their role in their management including their responsibilities	Contractor responsibility at the site;	JE deputed to the Site.

			5. The guidance provided in the World Bank Guidance Note for borrowers on ESS4: Community health and safety, to be utilized		
5	Labor management for repair, renovation, and retrofitting activities, especially during the Covid-19 situation	• Though no labor influx anticipated given the small scale of civil work and that too in dispersed locations. Key labor-related concerns especially in Covid-19 situation will include: Workers coming from Covid-19 infected areas • Coworkers becoming infected Workers introducing infection into community/general public • Arrangements for employment and accommodation of workers to be engaged in project activities, and issues relating to working conditions (including in relation to periods of sickness and quarantine), particularly if these are impacted by emergency legislation Involvement of child labor and/or forced labor	1. Adequate hand washing and sanitization facilities are provided during construction. 2. Consider ways to minimize/control movement in and out of construction areas/sites. 3. If workers are accommodated on-site, require them to minimize contact with people outside the construction area/site or prohibit them from leaving the area/site for the duration of their contract 4. Implement procedures to confirm workers are fit for work before they start work, paying special to workers with underlying health issues or who may be otherwise at risk 5. Check and record temperatures of workers and other people entering the construction area/site or require self-reporting prior to or on entering 6. Provide daily briefings to workers prior to commencing work, focusing on COVID-19 specific considerations including cough etiquette, hand hygiene, and distance measures. 7. Require workers to self-monitor for possible symptoms (fever, cough) and to report to their supervisor if they have symptoms or are feeling unwell 8. Prevent a worker from an affected area or who has been in contact with an infected person from entering the construction area/site for 14 days 9. Sensitization construction workers and health care staff involved 10. No child labor or forced labor is allowed to work as per the GoI norms and legislation. 11. Setting up gender-sensitive infrastructures such as segregated toilets and well-lit living areas/ camps (if any). 12. Ensuring the safety of women from any sexual exploitation and abuse (SEA) and sexual harassment (SH), sensitizing health care staffs on SEA/ SH, and mechanism to access redressal	Contractor responsibility at site;	JE deputed to the Site.

			services including building linkages to One-stop center (where available). 13. Follow Labor-Management Plan		

Annexure-1

S. No.	Type of Waste	UoM	Quantity	Remarks (if any)
1	Construction & Demolition Waste	CuM	-	No demolition as it's a new work.
2	Construction Debris	CuM	1	As per the BOQ
3	Paint Peels	SqM	-	No paint peels as it’s a new work.
4	Waste Excavated Soil	CuM	161.4	Soil left after reuse in backfilling.
5	Metal Scrap	KG	-	No Metal Scrap as it’s a new work.
6	Plastic Waste	KG	10	General Plastic Waste generated from the material unpacking.
7	E-Waste (Electrical)	-	-	No Electrical Waste is Generated as there is a newly constructed building.
8	Glassware Waste	SqM	0.68	wastage from - window glass
9	Wood Waste	KG	375	wastage from Wooden Plank/ Plywood use for shuttering
10	Number of Trees for Cut / Replacement	Nos	-	No trees to be cut on that construction area