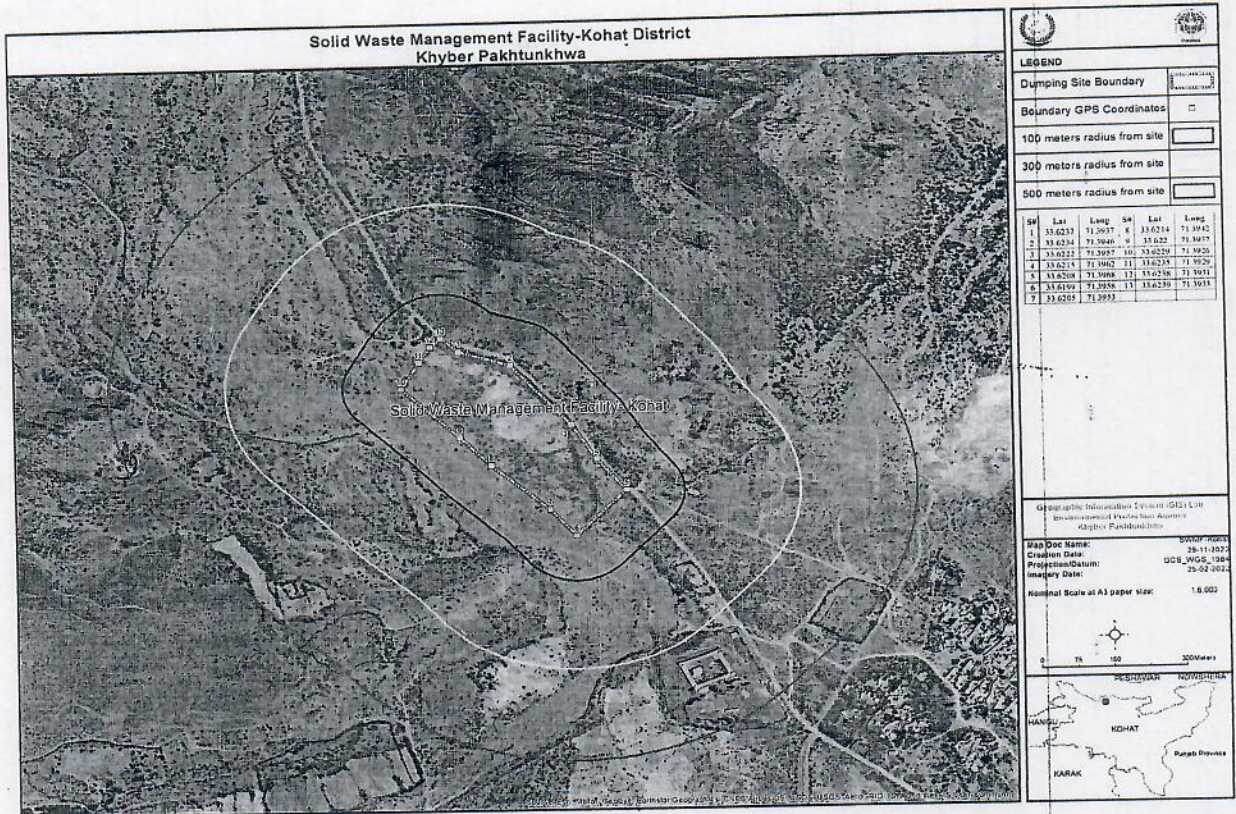


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SCHEDULE-VII
Decision on EIA

1. **Name and address of Proponent:** Project Director KPCIP,
Project Management Unit, Local Government Election and Rural Development,
Govt. of Khyber Pakhtunkhwa.
Ground floor, Afzal Apartments, Jamrud Road, Phase-III Chowk, Hayatabad Peshawar.
2. **Description of Project:** This is the project of establishing an integrated solid waste management facility in District Kohat. The Integrated Waste Management System IWMS within Kohat city is beneficial for successful operation of the Solid Waste Management Facility (SWMF) as it provides strategic approach to sustainable management of solid waste covering all sources and all aspects, including generation, segregation, transfer, sorting, treatment, recovery and disposal in an integrated manner, with an emphasis on maximizing resource use efficiency. The study estimates that approximately 150t/d waste is generated in the Kohat city and the waste generation is projected from 2020 to 2030. In this scheme installation of primary and secondary municipal solid waste collection systems and the development of an international standard MSW management facility have been designed to address SWM issues of Kohat city. The capacity of SWMF is estimated with sorting line having capacity of processing 120 to 150 tpd waste. The waste will be sorted out for anaerobic digestion/composting, RDF preparation, recyclables and landfilling. The landfill site is planned to contain 5 waste cells. Estimated project life is 20 years.
3. **Location of project and GPS Coordinates/GIS map:** The project is located in District Kohat.

S#	Lat	Long	S#	Lat	Long
1	33.6237	71.3937	8	33.6214	71.3942
2	33.6234	71.3946	9	33.622	71.3937
3	33.6222	71.3957	10	33.6229	71.3926
4	33.6215	71.3962	11	33.6235	71.3929
5	33.6208	71.3968	12	33.6238	71.3931
6	33.6199	71.3958	13	33.6239	71.3933
7	33.6205	71.3953			



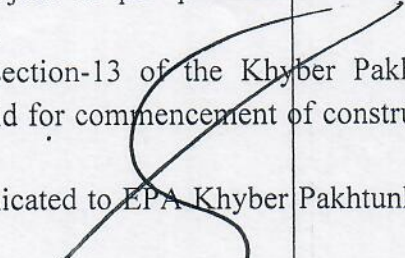
4. **Date of filing of EIA.**

20/12/2021 Ref. (EPA Diary No. 1715)

5. After careful review of the EIA and all the comments thereon, the Environmental Protection Agency, Govt. of Khyber Pakhtunkhwa has decided to accord approval of the Environmental Impact Assessment of **“Kohat Solid Waste Management Facility (SWMF) Development”** under Khyber Pakhtunkhwa Environmental Protection Act, 2014 and Khyber Pakhtunkhwa Environmental Assessment Rules, 2021, subject to the following terms & conditions: -

- i) The proponent shall adopt all precautionary and mitigation measures recommended in the EIA Report as well as replies of the proponent submitted to this Agency and any un-anticipated impacts arising during the construction and operation phase of the project.
- ii) The design of land fill must consider any nuisance that may arise during the construction and operation phase of the landfill including noise, odor, dust, littering, vermin or fire etc.
- iii) Final engineering designs and drawings shall be submitted to the Agency before commencement of the construction activities.
- iv) A boundary wall shall be constructed around the project site. Moreover, proper security arrangement shall be made to safeguard the dumping site.
- v) As the site is selected on the basis of Sector Specific Guidelines on Solid Waste Management of International Funds Corporation (IFC) and hence the same shall be followed in letter and spirit.
- vi) Ground water of the area shall be protected and a minimum distance of 1.5 meter shall be maintained between the ground water table and base of the dumping site.
- vii) In case of any contamination to ground waters, surface waters or surrounding human belongings, the proponent shall be responsible to compensate the same.

- viii) Residential development should typically be farther not less than 250 meters from the perimeter of the proposed landfill cell. Residential houses falling within the radius of 250m shall be acquired before commencement of project activities.
- ix) The landfill cells shall be properly bio-engineered & soil and ground water shall be protected from the solid waste/ leachate contamination.
- x) Prior to operation phase of the project, a buffer zone with having 10-meter plantation, as committed in the replies, inside the project area along the boundary shall be established. Thick plantation / buffer zone especially towards the human settlement must be maintained. Moreover, the plantation of Trees of 10-15 feet height shall be carried out around the boundary wall. Plantation of native / indigenous species shall be preferred.
- xi) The landfill cell shall have proper liners as identified in the design. The liner system must be provided at the bottom and sides of the waste cell to prevent any percolation of contamination into groundwater strata. The liner system can either be natural or synthetically made to meet the requirement of permeability and thickness.
- xii) Landfill gas shall not be allowed to escape directly to the atmosphere. The Landfill Gas needs to be collected through gas pipes & waste cell. The collected gas shall be treated / utilized or disposed of in a safe manner.
- xiii) The storm water drain shall be designed and constructed in such a way that the surface runoff water is diverted from the landfill site and leachate from solid waste do not get mixed with the surface runoff water.
- xiv) The ground water and surface water quality within 500-meter radius of landfill site, especially the down gradient site, shall be quarterly monitored to ensure that the ground water is not contaminated. Moreover, five (5) monitoring wells shall be constructed all around the project site for periodic monitoring of ground water, leachates and other leakages.
- xv) The landfill site shall have waste inspection facility to monitor waste brought in for landfilling; office facility for record keeping and shelter for keeping equipment and machinery including pollution monitoring equipment.
- xvi) The operator of the facility shall maintain record of waste received, processed and disposed of.
- xvii) Provisions like weigh bridge to measure quantity of waste brought at landfill site, fire protection equipment and other facilities as may be required shall be provided at the project site.
- xviii) A proper fumigation system shall be established on project site.
- xix) The Material Recovery Facility (MRF) shall be properly managed. Record registers shall be maintained for the same.
- xx) The hospital/ hazardous waste shall not be disposed of in the landfill site. The biomedical waste/ Hospital Hazardous and infectious waste shall be disposed of in accordance with the Hospital Waste Management Rules, 2005.
- xxi) All vehicles, generators and other equipment shall be properly tuned and maintained in good working condition in order to minimize emission of pollutants.
- xxii) The MSW trucks/ transportation vehicles shall be appropriately covered / sealed and the waste spillage on the roads during the transportation shall be prevented.

- xxiii) Health certificates of the workers working at the plant shall be submitted to this Agency after every six months. Safety provisions including health inspections of workers at landfill sites shall be carried out.
- xxiv) During land leveling, the muck/ debris material shall not be disposed of outside the project site. Cut & fill mechanism shall be adopted during construction / development of the project site.
- xxv) Internship and scholarship opportunities shall be provided to fresh environmental graduates.
- xxvi) The access road to the project site is narrow and may cause social issues. Hence, the same should be widened for smooth trafficking.
- xxvii) A Committee shall be notified prior to start of project activities comprising representatives from the locality. The Committee will look after all the issues pertaining to the project activities specifically environment & social sector.
- xxviii) All land/ building/ houses payment/ compensation/ relocation shall be completed before commencement of the project activities. A certificate in this regard shall be submitted to EPA.
- xxix) Ambient air quality at the landfill site and at the vicinity shall be regularly monitored.
- xxx) Landfill closure plan and the site restoration / reuse plan shall be submitted and duly approved from this Agency.
- xxxi) Non-technical jobs shall be provided to the locals and preference shall be given in technical jobs. Moreover, details of the same shall be submitted to EPA.
- xxxii) This approval is issued on the basis of information / documents including land ownership submitted to EPA. This Agency shall not be responsible for any issue related to land ownership, etc. All such issues to be resolved at proper forum like Revenue Department/ Courts, etc.
- xxxiii) Quarterly Compliance reports of the Environmental Approval including emissions & effluents analysis reports from EPA, Khyber Pakhtunkhwa certified laboratory shall be submitted to this Agency.
- xxxiv) Health & Safety sign boards/posters shall be installed in various places within the plant.
- xxxv) The management shall be bound to adopt any additional mitigation measures suggested by EPA from time to time during construction & operation of the project activities.
6. The proponent shall be liable for correctness and validity of the information supplied by the environmental consultant.
7. The proponent shall be liable for compliance of Rule 14, 15, 18, 19, 20 & 21 of Khyber Pakhtunkhwa Environmental Assessment Rules, 2021, regarding approval, confirmation of compliance, entry, inspections and monitoring.
8. This approval is accorded only for the construction phase of the project. Separate Approval shall be obtained for operational phase of the project as per provisions of the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021.
9. This approval is accorded by the Agency under section-13 of the Khyber Pakhtunkhwa Environmental Protection Act, 2014, and shall be valid for commencement of construction for a period of two years from the date of issuance.
10. Any change in the approved project shall be communicated to EPA Khyber Pakhtunkhwa and shall be commenced after obtaining the approval.
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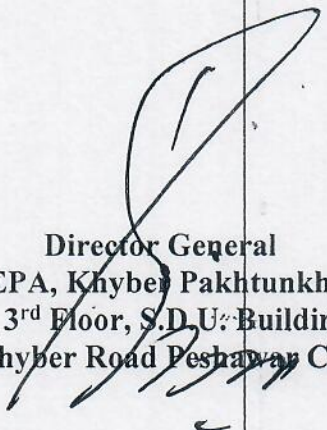
11. This approval shall be treated as null and void if all or any of the conditions mentioned above is/are not complied with.
12. This approval does not absolve the proponent of the duty to obtain any other approval or clearance that may be required under any law in force.
13. There shall be no legal case pending in the courts against the project.
14. In exercise of the power under Section 13 of the Khyber Pakhtunkhwa Environmental Protection Act, 2014, the undersigned is pleased to approve the EIA Report for construction phase of "**Kohat Solid Waste Management Facility (SWMF) Development**" with the above mentioned terms and conditions.

Dated: Peshawar: 08 / 04 / 2024

Tracking/File No. EPA/EIA/SWM/Kohat/24/742-44

QR Code:




Director General
EPA, Khyber Pakhtunkhwa
3rd Floor, S.D.U. Building
Khyber Road Peshawar Cantt

1. Consideration shall be given to the stability of the sub-grade, the base liner system, the waste mass and the capping system. The sub-grade and the base liner will be sufficiently stable to prevent excessive settlement or slippage.
2. An efficient leachate collection system must be provided to ensure leachate accumulation at the base of the landfill and keep it to a minimum.
3. Factors such as site capacity, accessibility, acceptability, stability, environmental sensitivity, land use, socio-economic receptors, and climate hazards shall be assessed and evaluated at the time of site selection.
4. Proposed selection of landfill site must take into account impacts from leachate, litter, dust, vector and odors on surrounding environment.
5. The use of proper planning while identifying locations for the labor camps will ensure there is minimal disturbance to all key receptors and the traffic is not disrupted by labor camps being set up roadside next to the construction sites.
6. PMU KP LGERDD shall ensure the project contractors are selected on merit and necessary funds has been allocated in the contract documents for EMP implementation and monitoring.
7. Method statements must be prepared by the Contractor and approved by the Construction Supervision Consultant (CSC) prior to commencement of construction works.
8. Periodically check and conduct maintenance of the construction machinery and haul vehicles. Generators, compressors and vehicles used during construction works will be maintained in a good condition to ensure that emissions are kept to a minimum level.
9. Work areas outside the project site, especially where machinery is involved, will be barricaded and will be constantly monitored to ensure that local residents, particularly children stay away while excavated areas being prepared for landfill related infrastructure will also be cordoned off. Also, no machinery will be left unattended, particularly in running condition.
10. Local communities in the project area will be briefed on traffic safety, especially women who are the main care providers to children.
11. The Contractor will be required to prepare and implement an effective OHS Plan that is supported by trained first aid personnel and emergency response facilities. Construction contracts will include standard OHS measures and contractors will be bound to implement these fully.
12. Designing machines to eliminate trap hazards and ensuring that extremities are kept out of harm's way under normal operating conditions.
13. Double insulating / grounding all electrical equipment used in environments that are, or may become, wet; using equipment with ground fault interrupter (GFI) protected circuits.
14. Future Land use of the site will be defined in consultation with local communities and government agencies.
15. It will be ensured that financial resources, and monitoring arrangements are in place for closure and post closure activities.
16. PMU KP LGE&RDD will ensure that financial instruments are in place to cover the costs of closure and post-closure care and monitoring.
17. Long term integrity and security of the site will be maintained.