



ENVIRONMENTAL PROTECTION AGENCY
REGIONAL OFFICE SWAT
Climate Change, Forestry, Environment & Wildlife Department
Govt. of Khyber Pakhtunkhwa



No. EPA/ROS/GEA/702 KW MMHPP Kishore Kalay, Kalkot, Upper Dir/ 314-19

Date: 03/05/2024



To,

Chief Executive/ Project Director,
Pakhtunkhwa Energy Development Organization (PEDO),
Access to clean energy Programme (ACEP), PMU MMHPP Project House,
No. D13/1, Syed Jamal Uddin Afghani Road, University Town Peshawar,
Khyber Pakhtunkhwa.
Contact # 091-7252099/ 0348-5230238

Subject:

DECISION ON GENERAL ENVIRONMENTAL APPROVAL (GEA)
REPORT OF 702 KW MINI/MICRO HYDRO POWER PROJECT
(MMHPP) LOCATED AT KISHORE KALAY, KALKOT, TEHSIL
KALKOT, DISTRICT DIR UPPER.

Kindly refer to the subject cited above and to enclose herewith Environmental Approval/ Decision Note on GEA Report of project titled "**702 KW Mini/Micro Hydro Power Project (MMHPP) located at Kishore Kalay, Kalkot, Tehsil Kalkot, District Dir Upper.**" for your information and further implementation.

Moreover, Schedule-X (Copy enclosed) must be submitted to this office within one month on Stamp Paper as an undertaking for the compliance of terms and conditions as mentioned in the Environmental Approval as well as mitigation measures proposed in the General Environmental Approval (GEA) Report, please.

Director (Malakand)

Copy for information to the;

1. Deputy Commissioner, District Upper Dir.
2. P.A to Director General, EPA, Government of Khyber Pakhtunkhwa.
- ✓ 3. Assistant Director (IT), EPA- Peshawar Khyber Pakhtunkhwa for uploading on EPA official website.
4. Manager (Environment Social and Gender Empowerment) MMHPPs, PEDO Peshawar.
5. Project Manager, 702 KW Mini/Micro Hydro Power Project (MMHPP) located at Kishore Kalay, Kalkot, Tehsil Kalkot, District Dir Upper.

Faiz Abad Opposite Chinnar (Jamia Masjid Siddiqui) Saidu Sharif, Swat
Phone No. 0946-920098

SCHEDULE - IX
Decision on GEA

1. Name and address of the proponent:

The Project Director,
Pakhtunkhwa Energy Development Organization (PEDO),
Access to clean energy Project (ACEP), PMU MMHPP Project,
House No.D13/1, Syed Jamal Uddin Afghani Road, University
Town Peshawar, Khyber Pakhtunkhwa.
Contact # 091-7252099

2. Description of project:

The proposed "702 KW Mini/Micro Hydro Power Project (MMHPP)" is located on the left bank of the Panjkora River in Kishore Kalkot, Tehsil Kalkot, District Dir Upper. It proposed to upgrade an existing hydropower facility from 400 KW to 702 KW to fulfill community energy requirements. Enhancements will encompass infrastructure, equipment, and operational aspects. Post-generation, water will be returned to the stream, spanning around 920 meters. This project falls under the "Construction of Mini/Micro Hydropower Project under the Access to Clean Energy Investment Programme (ACEIP)" with financial support from the Asian Development Bank (ADB). The primary objective of this project is to provide electricity to off-grid areas by installing and utilizing two Francis turbines with a gross head of 23.49 meters and a design discharge of 3.94 cumecs. To minimize environmental impact and preserve the natural flow of the river, this project is designed as a run-of-the-river system. Key components include a weir intake, spill channel, bypass channel, powerhouse with a turbine and generator, tailrace channel arrangement, allied structures for protective works, as well as surface access.

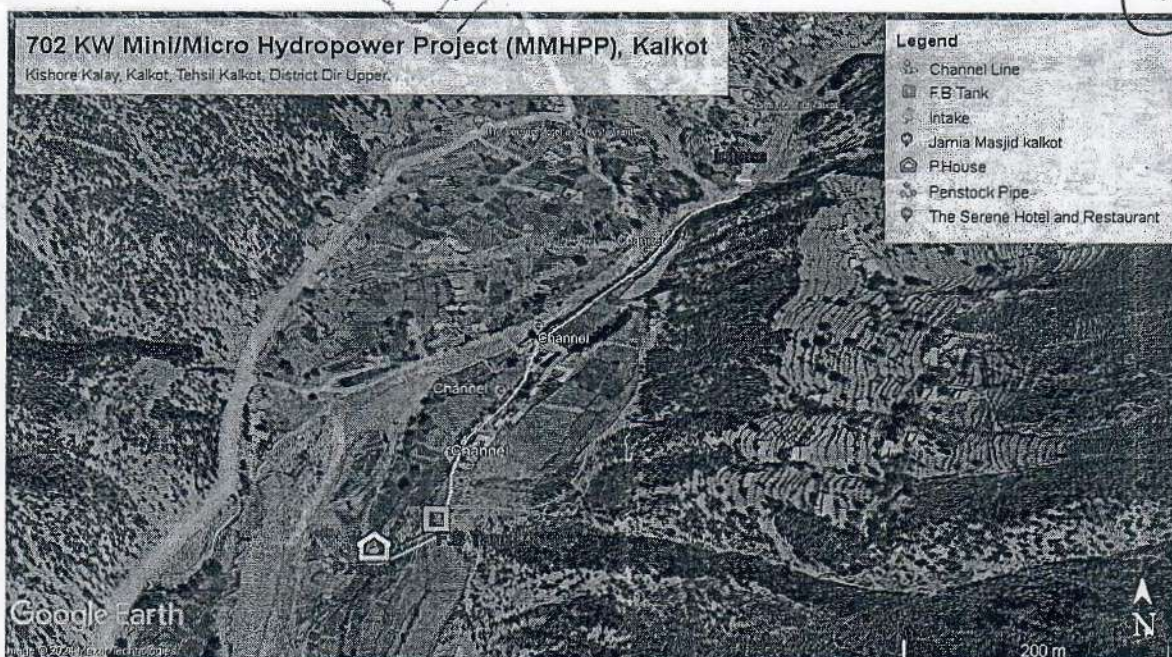
3. Location of project:

The project is located at village Kishore Kalay, Kalkot, Tehsil Kalkot, District Dir Upper.

GPS Coordinates and GIS Map (As per KMZ file):

Intake structure : N 35.408659°, E 72.181205°

Power House Site : N 35.401728°, E 72.174952°



4. Date of filing of GEA:

25/01/2024 (Ref. EPA, RO Swat Diary No. 4512)

5. After careful review, the Environmental Protection Agency, Regional Office, Swat Government of Khyber Pakhtunkhwa, has decided to grant construction phase Environmental Approval for the

General Environmental Approval (GEA) Report of the project titled "702 KW Mini/Micro Hydro Power Project (MMHPP) located at Kishore Kalay, Kalkot, Tehsil Kalkot, District Dir Upper". This decision is in accordance with the guidelines issued by the Khyber Pakhtunkhwa Environmental Protection Act, 2014, and the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021 (KPEA Rules, 2021). The approval is subject to the following terms and conditions:

- a) The proponent shall adopt and implement all precautionary and mitigatory measures identified in GEA report and commitments made in subsequent correspondences as well as any unanticipated impacts during the construction and operation phase of the project.
- b) The project falls within Schedule-IV of the KPEA Rules, 2021, which requires compliance with guidelines. Once these guidelines are formulated by EPA, they shall be meticulously followed in both letter and spirit by the proponent to ensure full compliance with environmental regulations.
- c) All effluents, emissions, and noise, if any, must remain within the permissible limits defined by the National Environmental Quality Standards (NEQS).
- d) Adhere to building by-laws and site plan, considering natural and man-made disasters during project design and implementation.
- e) The proponent must comply with national and provincial Climate Change Policies, including the implementation of proposed adaptation and mitigation measures.
- f) Prevent any disturbance to the public and environment due to noise, dust, odor, sedimentation or contamination during construction and operation of the project.
- g) Personal Protective Equipments shall be provided to all workers to ensure health and safety with first aid box for emergency medical use.
- h) Residential houses and agricultural land exist in the near surroundings where children and livestock are normally found. Therefore, safety mechanisms/measures like proper signage fencing, railings, safety barriers or equivalent protective measures are needed around structures such as the intake, gravel trap, sand trap, forebay, manholes, and any other relevant areas to prevent livestock and public access to the water ponds and machinery.
- i) Ensure proper disposal of soil and excavated material at designated sites, avoiding dumping on slopes, riverbanks, or water bodies. Implement stabilization measures including engineering techniques, proper plantation, and bioengineering.
- j) Proper mitigation measures shall be formulated and implemented to avoid soil erosion, land sliding and sedimentation to nearby water bodies or other properties.
- k) The proponent shall ensure site rehabilitation, including planting ten trees for every one tree cut during construction. Cash compensation and replanting will be provided when removal is necessary, and a tree record register must be maintained for each tree cut and replanted, with all affected sites restored to their natural condition at the end of the construction period.
- l) Conventional blasting is prohibited unless approved by the relevant authority. Alternative techniques shall be preferred.
- m) River bed mining shall not be conducted without prior approval of concerned Department and this Agency.
- n) The Right of Way (RoW) of streams and natural water sheds and roads shall not be disturbed. Moreover, ensure river/stream protection from project-related pollution.
- o) Proper flood protection and management plan shall be identified and site specific mitigation measures shall be implemented during rainy flood, and flash flooding.
- p) An environmentalist along with team shall be hired for proper and effective implementation of Environmental Management Plan of GEA Report.
- q) The cultural values and social norms of the area shall be strictly followed.
- r) A minimum flow regime equivalent to 10-15% of the Mean Annual Flow (MAF), in conjunction with consideration for existing water usage within the bypass stretch, shall be released as needed to support the ecosystem and related requirements in each season and time.
- s) Water rights of the existing beneficiaries for irrigation and other purposes shall be protected.

- t) The proponent must obtain a No Objection Certificate (NOC) from the Irrigation Department or consult with them, and then submit it to the EPA.
 - u) As committed by the proponent, the construction of the project shall be managed to minimize the duration of temporary electricity supply closure from the existing Mini Hydropower Project during the construction period to the minimum possible time.
 - v) Provide local employment in non-technical jobs.
 - w) A copy of this approval and the GEA report shall be provided to the contractor/operator at the Project site for information and implementation. Additionally, a biannual (six-month) performance/compliance report shall be submitted to this agency.
6. The proponent shall be liable for the correctness and validity of the information provided to the EPA in the GEA report and subsequent correspondences.
 7. EPA will regularly visit the project site. The proponent must facilitate monitoring and comply with additional EPA conditions if required.
 8. The proponent shall be liable for the compliance of Rules 14(2), 15, 18, 19, and 20 of the KPEA Rules, 2021, regarding approval, confirmation of compliance, validity, entry, inspections, and monitoring.
 9. The proponent must inform the EPA office in writing about the construction/ installation start date and project operation for monitoring purposes
 10. This approval is accorded only for the installation/construction phase of the project. The proponent **will also obtain approval for the operation phase** in accordance with Rule 15 of the KPEA Rules, 2021.
 11. Any alteration/expansion of the approved project shall be communicated to the EPA and shall commence only after obtaining approval. Likewise, no other activities should be undertaken other than what is stipulated in the GEA Report.
 12. This approval shall be treated as null and void under Rule 21 of the KPEA Rules, 2021 mentioned above if all or any of the conditions mentioned above are not complied with.
 13. This approval shall not absolve the proponent of the duty to obtain any other approval or clearance that may be required under any law in force.
 14. There shall be no pending legal cases against the project.
 15. In exercise of the powers conferred upon the undersigned under Section 13 of the Khyber Pakhtunkhwa Environmental Protection Act, 2014, the undersigned is pleased to have approved the GEA Report for the construction phase of the project with the above-mentioned terms and conditions.

Dated: Swat 03/05/2024

Tracking/File. No. EPA/ROS/GEA/702 KW MMHPP Kishore Kalay, Kalkot, Upper Dir/ 313

Tracking Code:



<https://epakp.gov.pk/environmental-approvals/>

[Signature]
Director (Malakand),
EPA, Regional office Swat,
Govt. of Khyber Pakhtunkhwa.

[Signature]