



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



No. EPA/ROS/GEA/320 KW MMHPP Riyal/ Buner/ 5286-91

Date: 12/09/2023

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/ 0332-9699644

Subject: **DECISION ON GENERAL ENVIRONMENTAL APPROVAL (GEA) REPORT OF 320 KW MINI/MICRO HYDRO POWER PROJECT.**

Kindly refer to the subject cited above and to enclose herewith Environmental Approval/ Decision Note on GEA Report of project titled "320 KW Mini/Micro Hydro Power Project located in the village of Riyal, Union Council Gulono Bowray, Tehsil Chagharzai, District Buner." 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 (IEE) Report, please.

[Signature]
12/9/2023
Director (Malakand)

Copy for information to the;

1. Director General, EPA, Government of Khyber Pakhtunkhwa.
2. Chief Executive, PEDO, Peshawar.
3. Deputy commissioner, District Buner.
- ✓ 4. GIS Specialist, EPA- Peshawar Khyber Pakhtunkhwa for uploading on EPA official website.
5. Assistant Manager (Environment Social and Gender Empowerment) MMHPPs, PEDO Peshawar.

As per request of GIS the EA is uploaded on official website and return to GIS for keep on record.

GIS

A. Ak
14/9/23

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/ 0332-9699644

2. Description of project:

The proposed "**320 KW Mini/Micro Hydro Power Project**" is located in the village of Riyal, Union Council Gulono Bowray, Tehsil Chagharzai, District Buner, situated on the right bank of the Barandu River in Buner. This project falls under the "Construction of Mini/Micro Hydropower Project/ Access to Clean Energy Investment Programme (ACEIP), Package -II (Stream), Lot-III," with financial support from the **Asian Development Bank (ADB)**. It will have a total installed capacity of 320 KW, utilizing a gross head of 10 meters and a net head of 8.7 meters. The design discharge is 4.75 cusecs. This is a run-of-the-river project designed to minimize environmental impact by maintaining the natural flow of the river. The project includes essential components such as a weir intake, spill channel, bypass channel, powerhouse a Turbine and Generator, tailrace channel arrangement, allied structures for protective works, as well as surface access and approach roads. The primary objective of this project is to provide electricity to off-grid areas.

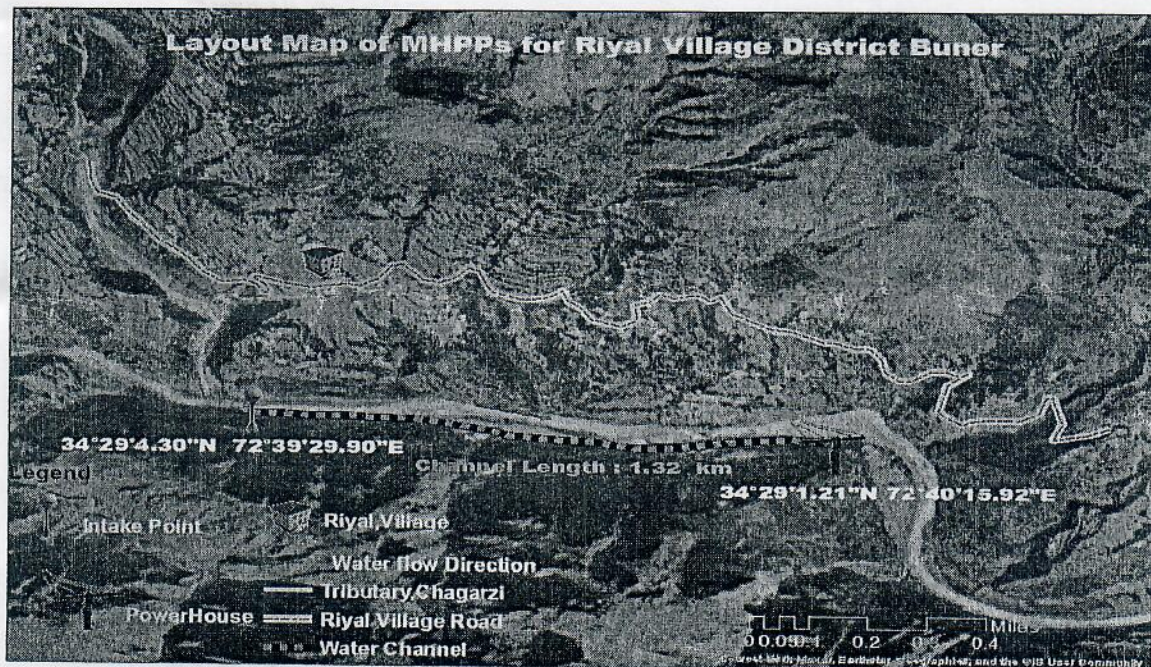
3. Location of project:

The project is located at Riyal, Union Council Gulono Bowray, Tehsil Chagharzai, District Buner on right side of Brandu River.



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

Intake structure : N 34.484593°, E 72.657099°
Power House Site : N 34.483758°, E 72.671271°



4. Date of filing of GEA:

08/03/2023 (Ref. EPA, RO Swat Diary No. 3068)

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 "320 KW Mini/Micro Hydro Power Project located in the village of Riyal, Union Council Gulono Bowray, Tehsil Chagharzai, District Buner." 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 require compliance with guidelines. Once these guidelines are formulated, they shall be meticulously followed in both letter and spirit 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) Ensure fish passage by incorporating a fish ladder or any other way into the weir structure to preserve aquatic habitats and support seasonal fish migration.
 - h) Personal Protective Equipments shall be provided to all workers to ensure health and safety with first aid box for emergency medical use.
 - i) Fencing/ railing or equivalent protection shall be provided for settling basin, forbay, manholes etc. to keep livestock and public access protected and away from the water ponds/channel.
 - j) 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.
 - k) Proper mitigation measures shall be formulated and implemented to avoid soil erosion, land sliding and sedimentation to nearby water bodies or other properties.
 - l) 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.
 - m) Conventional blasting is prohibited unless approved by the relevant authority. Alternative techniques shall be preferred.
 - n) River bed mining shall not be conducted without prior approval of concerned Department and this Agency.
 - o) The Right of Way (RoW) of river, natural water sheds and roads shall not be disturbed. Moreover, ensure river protection from project-related pollution.
 - p) Proper flood protection and management plan shall be identified and site specific mitigation measures shall be implemented during rainy flood, and flash flooding.
 - q) An environmentalist along with team shall be hired for proper and effective implementation of Environmental Management Plan of GEA Report.

- r) The cultural values and social norms of the area shall be strictly followed.
 - s) 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.
 - t) Water rights of the existing beneficiaries for irrigation and other purposes shall be protected.
 - u) Provide local employment in non-technical jobs.
 - v) **The proponent shall obtain NOCs from/ Consultation with Irrigation and Forest Departments prior to commencing construction, and provide copies to EPA.**
 - 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.

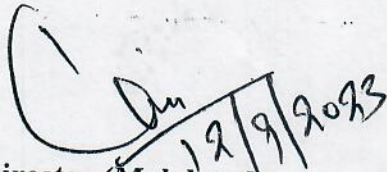
Dated: Swat 12/09/2023

Tracking/File. No. EPA/ROS/GEA/320 KW MMHPP Riyal/ Buner/ 5292-97

Tracking Code:



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


12/9/2023
Director (Malakand),
EPA, Regional office Swat,
Govt. of Khyber Pakhtunkhwa.