

SCHEDULE-VIII

Decision on IEE

1. **Name, address of Proponent:** Chief Engineer (CE)/ Project Director,
Dargai Rehabilitation Project, Pakistan Water and Power
Development Authority (WAPDA),
Address: WAPDA Colony Tehsil Dargai, District
Malakand, Khyber Pakhtunkhwa.
Contact # 0932-331766/ 0345-4033608

2. **Description of Project:**

The Dargai Hydro Electric Power Project, situated downstream of Jabban HPP in Dargai, District, was initially commissioned in 1951-52 with a 20 MW capacity. It utilizes water from the upper Swat Canal, redirected through the "Trifurcator" regulating structure, where excess water from the outlet of Benton Tunnel, discharge from Jabban generating units and spillage from the forebay of Jabban power station gathers. A maximum discharge of 1200 cusecs is diverted to the Dargai power channel, while the surplus is directed to the pitched irrigation channel. Presently, the aging infrastructure, equipments, breakdowns, and efficiency challenges de-rated the existing power station, hence need rehabilitation.

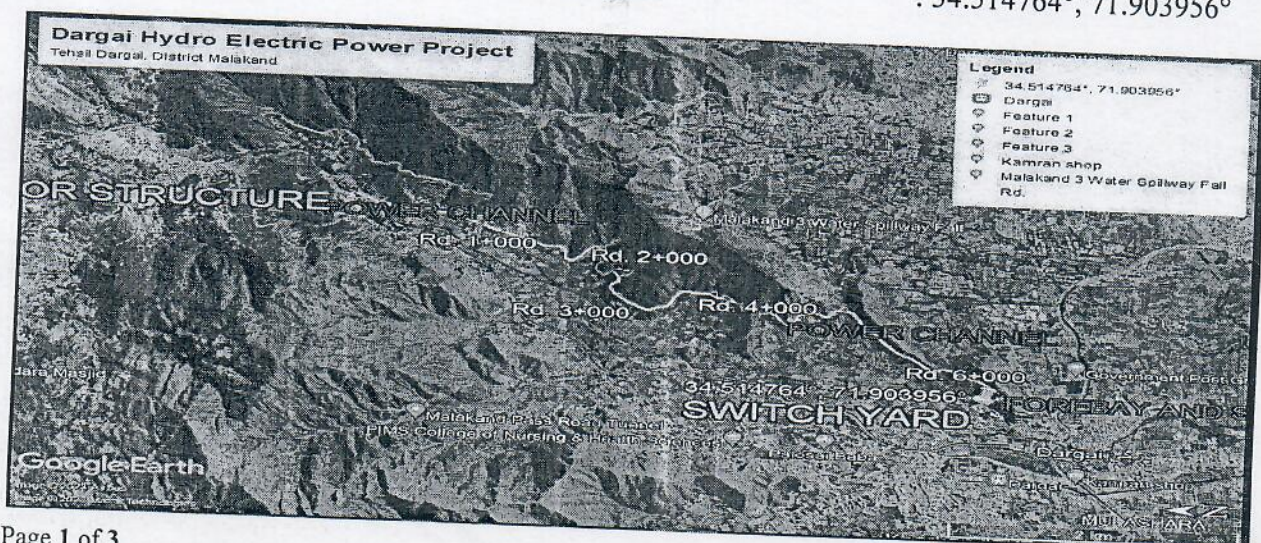
The proposed Dargai Rehabilitation Power project aims to address these issues, enhancing reliability and efficiency. Components such as the Power House, Trifurcator, Penstocks, turbine, Control Building, and switchyard will be dismantled and upgraded. Simultaneously, the Power channel will undergo repairs and the renewal of turbines and equipment without increasing water diversion. The project also aims to increase capacity from 20 MW to 22 MW, utilizing WAPDA-owned land and eliminating the need for new acquisitions. WAPDA will oversee the construction of the project. The rehabilitation of the project will enhance and improve its sustainability and performance, contributing significantly to clean energy in the province and Pakistan.

3. **Location of Project:**

The Project is located at Dargai, Tehsil Dargai, District Malakand- Khyber Pakhtunkhwa.

GPS Coordinates and Google Earth Map:

(Trifurcator/ Regulator structure) : 34.555261°, 71.929280°
Power House : 34.514764°, 71.903956°



4. **Date of filing of IEE**

07/06/2023 (Ref: EPA Diary No.4089)

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 Initial Environmental Examination (IEE) Report of the proposed project titled "**Dargai Rehabilitation Power Project, located at Dargai, Tehsil Dargai, District Malakand**". 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 IEE report and commitments made in subsequent correspondences as well as any unanticipated impacts during the construction and operation phase of the project.
- b) All effluents, emissions, and noise, if any, must remain within the permissible limits defined by the National Environmental Quality Standards (NEQS).
- c) The proponent shall always strictly adhere to building by-laws and site plan during implementation of this project so that the risk or danger in case of any calamity can be avoided or minimized.
- d) The proponent must comply with national and provincial Climate Change Policies, including the implementation of proposed adaptation and mitigation measures.
- e) No nuisance by way of noise, dust, odor, soil and/or ground water contamination shall be caused to the public and surrounding environment during construction and operation of the activity.
- f) The dismantling process of existing structures shall adhere to safety best practices and for minimizing environmental impact. Measures such as controlled demolition, dust suppression, noise & vibration control measures shall be implemented to prevent and minimize disruption to the surrounding ecosystem and nearby communities and Govt. Primary Scholl Dragai.
- g) The proponent is obligated to avoid dumping waste, muck, excavated or dismantled materials into water channels, agricultural land, or near communities. All disposals must strictly follow designated sites and adhere to safe management practices.
- h) The proponent/contractor is obligated to minimize tree and vegetation removal, and if unavoidable, then adequate planting with a ratio of 1:10 and re-vegetation of the area damaged during construction shall be undertaken. Additionally, a minimum of 100 local plants or trees will be planted within the project footprint. A separate register for tree records must be maintained for each tree cut and new plantation.
- i) The proponent shall ensure that all public utilities, including roads, water supply pipes, water courses, phone lines, and natural drainages systems etc., are not disturbed during the construction activities of the project. In cases where interference is unavoidable, suitable alternatives shall be implemented in consultation with and with the consent of the relevant authorities, with intimation to the EPA.
- j) The proponent shall make sure that construction and operation activities do not negatively impact the water quality of the channel or other nearby water bodies.
- k) The closure of the canal due to project activities or power channel repair shall be managed in consultation with the Irrigation Department to prevent adverse impacts on agriculture and ensure unhampered irrigation during construction.
- l) Fencing/ railing or equivalent protection shall be provided for, Trifurcate/ intake structures, tailrace, manholes etc. to keep livestock and public access protected and away from the water ponds/channel.
- m) Any identified risks or concerns associated with the hydropower project must be promptly addressed. If necessary, the operations of the project may be temporarily suspended. In the event of incidents or damages caused by the hydropower project, the proponent will be legally liable for compensation and restoration.

- n) Personal Protective Equipments shall be provided to all workers to ensure health and safety with first aid box for emergency medical use.
 - o) Maintain transparent & proactive communication with the local community on environmental issues and complaints. Establish a redressal and feedback mechanism and keep records.
 - p) The cultural values and social norms of the area shall be strictly followed.
 - q) Provide local employment in non-technical jobs.
 - r) Water rights of the existing beneficiaries for irrigation and other purposes shall be protected.
 - s) An environmentalist along with team shall be hired for proper and effective implementation of Environmental Management Plan of IEE Report.
 - t) A copy of this approval and IEE report shall be provided to the contractor/ operator at petrol pump site for information & implementation and a biannual (six months) 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 IEE 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 IEE 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 IEE Report for the construction phase of the project with the above-mentioned terms and conditions.

Dated:

14/11/2023

Tracking/ File.

No.EPA/ROS/IEE/Dargai Rehab HPP/Malakand/ 178

Tracking Code:



[Signature]
14/11/2023
Director (Malakand)
EPA, Regional office Swat
Khyber Pakhtunkhwa

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