



ENVIRONMENTAL PROTECTION AGENCY
CLIMATE CHANGE, FORESTRY, ENVIRONMENT
&
WILDLIFE DEPARTMENT
GOVERNMENT OF KHYBER PAKHTUNKHWA



No. EPA/EIA/PEDO/Madyan-HPP/157MW/Swat /24/ 429-31

Date: 13/03/2024

To

The Project Director,
Madyan Hydropower Project,
Plot NO. 38-B2, PEDO House, Phase-V,
Hayatabad, Peshawar.
Phone No. 091-9217004.

Subject: **DECISION ON ENVIRONMENTAL APPROVAL FOR ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT OF 157 MW (REVISED 207MW) MADYAN HYDROPOWER PROJECT, DISTRICT SWAT**

With reference to the subject cited above, please find enclosed herewith the Environmental Approval/Decision Note on EIA Report of the subject project for your information and further implementation.

Moreover, **Schedule-X** must be submitted to this Agency within a 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 EIA Report. (Copy enclosed).

Received on
14/03/2024
Koi

Zafar Ali

DD-Environment, PMO, KHRET

PEDO.

0321-9876702

Director General

13/3/24

Copy for information and necessary action to the;

- Director (Malakand), EPA Malakand Directorate, Swat.
- GIS Specialist/AD IT, EPA, HQ, Peshawar.

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SCHEDULE-VII
Decision on EIA

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1. Name, address of proponent:

The Project Director,
Madyan Hydropower Project,
Plot NO. 38-B2, PEDO House, Phase-V,
Hayatabad, Peshawar.
Phone No. 091-9217004.

2. Description of project.

Madyan Hydropower Project is planned to generate a power of approx. 157 MW (Revised 207MW). The proposed project area is located on the river Swat between Madyan town and Kedam village. It includes the 1.5 km long reservoir upstream the weir and the 13 km long river section between the weir and the power house. The headrace pressure tunnel is located parallel to the Swat River along its left bank with a length of about 11.8 km. the Ecological Flow (E Flow) to be maintained at 3.5 m³/s as determined level. the discharge through fish ladder is 0.16 m³/s. Fish ladder is proposed at low turbulence area. The length of the head race tunnel is 13.8 km.

3. Location of project.

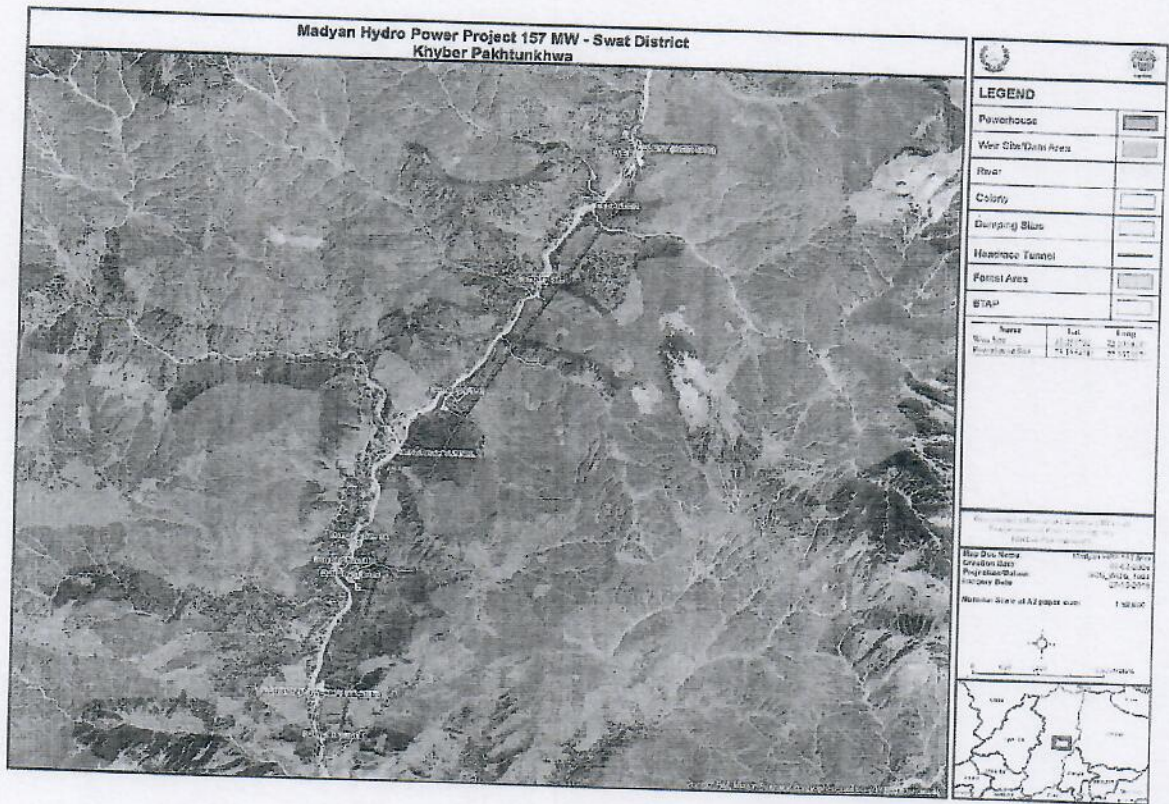
District Swat.

4. Date of filing of EIA.

13/07/2020 (Ref: EPA Diary No.752)

5. GPS Coordinates and Map.

Name	Lat	Long
Weir Site	35.255732°	72.595328°
Powerhouse Site	35.155438°	72.533917°



6. After careful review, the Environmental Protection Agency, Govt. of Khyber Pakhtunkhwa has decided to accord Construction Environmental Approval of the Environmental Impact Assessment (EIA) Report of "**157 MW (REVISED 207 MW) MADYAN HYDROPOWER PROJECT, DISTRICT SWAT**" in line with the Khyber Pakhtunkhwa Environmental Protection Act, 2014 and the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021, subject to the following Terms & Conditions;

- a) 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.
- b) All the emissions and effluents shall be kept with the NEQS permissible limits.
- c) Arrangement for compensation to the affectees, in case of loss of land, Crops, property, Schools, Water Springs, Water Supply Schemes, Hotels and Masjids will be finalized before the start of construction. Any money involved in compensation will be deposited with District Govt./Revenue Department for disbursement among the affectees. A committee shall be constituted ensuring fair representation of locals with properly documented grievance procedure. As far as possible recommendations of a committee comprising of land/house owners and tenants shall be taken into consideration during finalizing the compensation package. All conflicting issues regarding compensation, etc. should be settled before executing/commencing of the project activities and a certificate in this regard should be submitted to EPA;
- d) The Land Acquisition & Resettlement Plan (LARP) shall be properly implemented before execution of construction work. The proponent shall submit verified land acquisition and compensation documents prior to commencement of construction activities. A certificate of payment to the locals shall be generated

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- from the concerned Revenue Department and must be submitted to this Agency before commencement of the construction activity.
- e) In light of the LARP, in addition to other compensation measures, at least one male & one female from every affected household shall be offered employment and training on their willingness on priority basis.
 - f) The existing natural water springs, irrigation channels, the water supply scheme/spring affected from the Project shall be properly compensated and alternate water supply for the affectees shall be ensured. Detail of the same shall be shared with the Agency before commencement of the construction activity.
 - g) The spring channels disturbed during tunnel excavation shall be connected to pipes and shall be used as source of drinking water for the locals of the area. If required, alternate water supply arrangements shall be ensured for the locals.
 - h) All possible mitigation measures shall be taken to mitigate adverse impacts of the project on River.
 - i) The Right of Way (RoW) of the River Swat shall be protected. Moreover, the River shall also be protected from all type of pollution from project related activities.
 - j) Natural drainage pattern of the area shall not be disturbed.
 - k) The contaminated waste water of the tunnels shall be retained in confined pits of proper size ensuring proper treatment, complying with NEQS parameters before final disposal. Analysis reports of the same shall be submitted to this Agency on quarter basis.
 - l) A Committee shall be constituted under the supervision of District Administration comprising representatives of the affected villages. The Committee will look into issues arising from the Project.
 - m) In order to avoid the traffic congestion issues, the management of the project shall formulate Traffic Management Plan and be submitted to this Agency before commencement of Construction activity.
 - n) Proper mitigation plan shall be formulated and implemented to avoid soil erosion and land sliding before commencement of Construction activity.
 - o) Minimum environmental flow of 3.5 Cumec with 10% extra flow shall be maintained in the downstream. In light of the submitted EIA Report, the project management shall make maximum efforts to operate the dam on preferable option of base load high protection operation mode.
 - p) The muck/debris generated from the project shall be properly quantified and dumped at designated sites. Prior approval from concerned Forest Department shall be obtained where the site falls in protected area. Copy of the approval shall be submitted to this Agency prior to the execution of the site for the aforementioned purposes.
 - q) The proponent shall ensure to avoid dumping of debris into down slope or near River Swat Right of Way (RoW) or water bodies.
 - r) All the dumping sites shall be stabilized by proper plantation, bio engineering and engineering techniques. Retention walls of proper size shall be erected along the muck disposal material/sites.
 - s) The biodiversity action plan shall be implemented. Moreover, Wildlife, Forest Department and EPA shall be consulted in improvement of the Biodiversity

Action Plan to mitigate the impact of the project on aquatic life, fauna, flora and surrounding Environment.

- t) Safety zones shall be identified and adequate engineering measures should be provided to overcome fears of the residents regarding project activities to their houses.
- u) The construction/installations shall be carried out keeping in view seismicity of the project area & ensuring implementation of updated building by-laws/codes.
- v) Proper Flood Management Plan shall be prepared and updated after regular intervals for the project site & site specific mitigation measures shall be implemented during floods. Details of the same shall be submitted to this Agency.
- w) Analysis reports of surface water (River Swat/water bodies), ambient air, noise etc. of the project area shall be carried out from KP-EPA certified Lab biannually and reports of the same shall be submitted to this Agency.
- x) A sedimentation load study shall be carried out before, during and after the project along with mitigation measures for the control of sedimentation from upstream of the reservoir.
- y) Road/bridges/pathways/Highway to the nearby villages if submerged/damaged due to project activity should be reconstructed/repared/rehabilitated to another suitable place in consultation with concerned Govt. Department;
- z) In case, the blasting is inevitable, the controlled techniques, in accordance with Pakistan Explosive Act should be adopted in sliding and perspective sliding prone areas;
- aa) The camp site, asphalt plants, crush plants & batching plants shall be at least 500 m away from residential area/villages;
- bb) The proponent shall ensure the strict and efficient health and safety measures for the protection of workers and passersby backed by a comprehensive emergency response plan;
- cc) A comprehensive CSR policy shall be formulated keeping in view, the demands/needs of the locals and quantum of the project activity. In this regard, a detailed Social Development Plan (SDP) and Grievances Readressal Mechanism (GRM) shall be formulated and the details of the same shall be shared with this Agency before commencement of the construction activity.
- dd) Non-technical jobs shall be provided to local community/villages. Employment record for all positions shall be provided to EPA-Khyber Pakhtunkhwa and priority should also be given to locals in technical jobs. Regular trainings shall be arranged for the locals regarding acquiring knowledge of technical jobs.
- ee) Separate approval shall be obtained for establishment of Crushing Plant, Town/Colony, Asphalt plant, etc. under Khyber Pakhtunkhwa Environmental Protection Act, 2014 & the prevailing Rules/Regulations in-vogue. For temporary colony, proper treatment plant shall be constructed for municipal effluents treatment and bringing within the NEQS parameters before final discharge;
- ff) A comprehensive plantation plan, in consultation with Forest Department, shall be submitted to this Agency along with GPS Coordinates of the plantation sites. Moreover, a nursery shall be established in consultation with Forest Deptt. & a forester along with other supporting staff shall be hired for the same;

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- gg) The proponent shall provide guarantee for uninterrupted access to water for local farmers in form of alternative irrigation sources or methods in case the project affects existing water supplies for agriculture.
 - hh) Mitigation measures shall be incorporated into the project design to prevent damage during flood events.
 - ii) The proponent shall devise strategies and measures that will be implemented to protect the forest and ensure that the project does not facilitate illegal timber activities.
 - jj) An Environmentalist along with team shall be hired for the environmental issues readressal.
 - kk) The cultural values & social norms of the area shall be followed strictly.
 - ll) The Agency shall visit the project site from time to time for compliance checking. The proponent shall facility the Agency during the monitoring and shall create no hurdles in this regard.
 - mm) This Agency shall suggest any additional mitigation measures/updated technology for the control of Environmental Pollution/degradation at any stage (construction & operational phase) of the project.
 - nn) No extension would be permitted in the future in the existing hydropower project without prior approval of the EPA/Govt. of Khyber Pakhtunkhwa;
 - oo) The proponent shall provide the copy of this approval and EIA Report to the contractor for information and compliance.
7. As per GIS report prepared by the Agency on the basis of GPS coordinates provided by the project proponent, approximately 03km proposed headrace tunnel site falls in protected forest land and 2.5 Km falls in BTAP area. Besides, dumping site #1 totally falls in protected Forest land, dumping site# 2 partially falls in protected forest land and dumping site#3 falls in BTAP area. **NOC/Clearance from provincial Forest Department shall be obtained prior to commencement of activities and copy of the same shall be submitted to this Agency.**
8. There shall be no legal case pending in the courts against the project.
9. The Proponent shall be liable for correctness and validity of the information supplied by the environmental consultant.
10. The proponent shall be liable for compliance of Regulation 13, 14, 16, 17 and 18 of the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021 regarding approval, confirmation of compliance, entry, inspections and monitoring.
11. 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 (02) years from the date of issuance.
12. This approval is accorded only for the installation/construction phase of the project. The Proponent will obtain approval for operation of the hydro power project in accordance with the Regulation 13 (2) (b) and 18 of the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021.
13. Any change in the approved project shall be communicated to EPA, Khyber Pakhtunkhwa and shall be commenced after obtaining the approval.
14. This approval shall be treated as null and void if all or any of the conditions mentioned above is/are not complied with.

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14. 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.
 15. The quarterly progress/compliance report of the above conditions shall be submitted to EPA.
 16. 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 of "**157 MW (REVISED 207MW) MADYAN HYDROPOWER PROJECT, DISTRICT SWAT**" for construction phase of the project with above mentioned terms and conditions.

Dated: Peshawar 13/03 /2024

Tracking/File. No. EPA/EIA/PEDO/Madyan-HPP/207MW/Swat /24/ 429-31

Tracking Code:



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

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EPA, Khyber Pakhtunkhwa,
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Khyber Road, Peshawar Cantt.

13/3/24