



**Environmental Protection Agency**  
Forestry, Environment & Wildlife Department  
Govt. of Khyber Pakhtunkhwa

EPA/EIA/HPP/238MW/Kalam-Asrit/Swt/22/303-06

Date: 04/07/2022



To

Mr. Oh Inhwan,  
CEO KA Power Limited,  
23<sup>rd</sup> Floor, Ufone Tower, Jinnah Avenue, Blue Area, Islamabad,  
Contact No. 051-2726703

Subject: **EIA REPORT FOR 238MW HYDROPOWER PROJECT IN SWAT DISTRICT, KHYBER PAKHTUNKHWA**

Kindly refer to the subject cited above and to enclose herewith Environmental Approval/Decision Note on EIA Report of "**238 MW Kalam Asrit Hydro Power Project, District Swat**" 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).

  
**Director General**

**Copy for information and necessary action to the;**

- PS to Secretary FE&WD, Govt. of Khyber Pakhtunkhwa
- PS to Secretary Energy & Power Department, Govt. of Khyber Pakhtunkhwa
- ✓ GIS Specialist, EPA, HQ, Peshawar

E:\EIA #Sectoral\Waste Companies\Waste Water Treatment (Chashma Sugar Mills Limited Dera Ismail Khan)

**3<sup>rd</sup> Floor, Old Courts Building, Khyber Road, Peshawar Cantt.**

**Tel: 92(91) 9210263-9210148, Fax: 92 (91) 9210280**

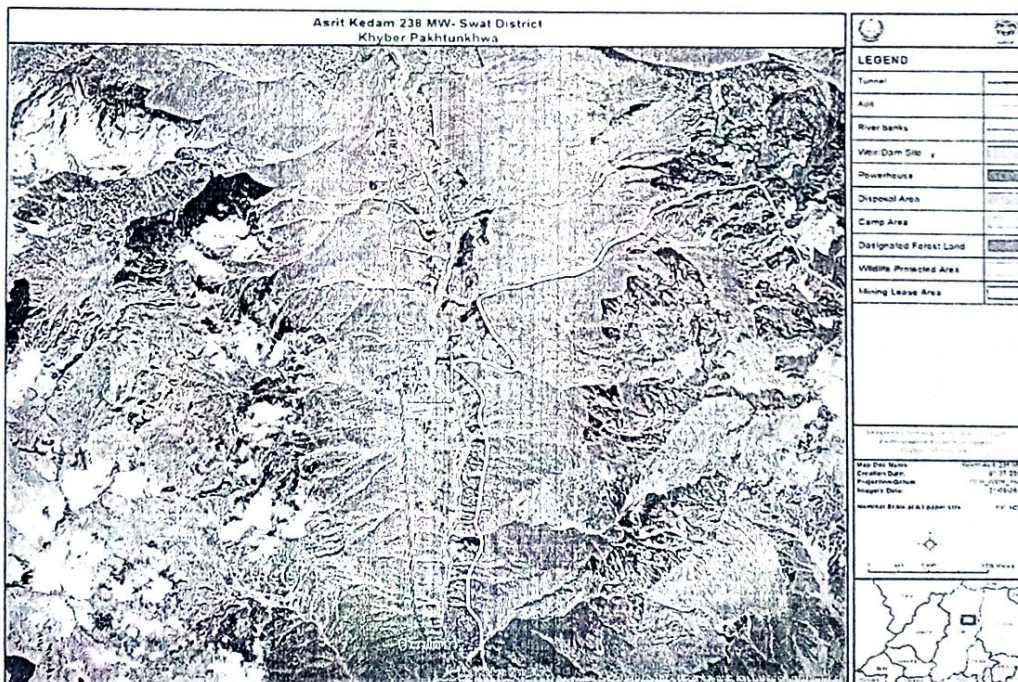
**SCHEDULE-VI**  
**Decision on EIA**

**1. Name, address of proponent:** Mr. Oh Inhwon,  
CEO KA Power Limited,  
23<sup>rd</sup> Floor, Ufone Tower, Jinnah Avenue,  
Blue Area, Islamabad, Islamabad.  
Contact No. 051-2726703

**2. Description of project.** The proposed 238MW Hydropower project is located on river Swat. The project weir will be located at Kalam, Swat district of KPK province at approximately 2 km downstream from the confluence of Gabral and Ushu Rivers. The powerhouse is located upstream of Asrit Khwar, which is about 600m downstream from the intake. It is run of the river project and will be operated on the base load. The E Flow study adopts 2.6 cumec using CHEMGRAPH method for calculation of E-Flow. The project is a run of a river project and will be operated on base load.

**3. Location of project.** District Swat.

**GIS Map & Coordinates** Powerhouse (35°21'45.62"N 72°36'6.20")  
Weir (35°27'52.65"N 72°35'52.42"E)



**4. Date of filing of EIA.** 15/02/2022 (Ref: EPA Diary No.166)

**5.** 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 **"238 MW Kalam Asrit Hydro Power 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) Arrangement for compensation to the affectees in case of loss of agriculture land, Crops and property, Schools, Graveyards, 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 will be constituted as per laid out procedure in EIA report 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 this Agency.
- c) In light of the LARP, in addition to other compensation measures, at least one male from every affected household will be given employment or loan based on their willingness, based on the project requirement.
- d) The existing irrigation channels, natural water springs, 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 shared with the Agency before commencement of the construction activity;
- e) The spring channels disturbed during tunnel excavation shall be connected to pipes and shall be used as source of drinking water or other purposes for the locals of the area. Details of the same shall be submitted to this Agency.
- f) Detail of steps/mitigation measures shall be taken to mitigate impacts of the project on River Swat/natural water streams;
- g) The Right of Way (RoW) of the River Swat shall be protected. Moreover, the River shall be also protected from all type of pollution from project related activities;
- h) The natural rainwater water sheds RoW shall not be disturbed;
- i) The contaminated waste water of the tunnels shall be retained in confined pits of proper size ensuring proper treatment, complying NEQS parameters before final disposal.
- j) The existing routes going to the nearby villages shall not be affected or alternate routes shall be provided to the villagers;



- k) The affected existing structures shall be relocated & compensated to other appropriate area before start of construction work;
- 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 submitted traffic management plan shall be properly implemented.
- n) Proper mitigation plan shall be formulated and implemented to avoid soil erosion / land sliding and sedimentation to the nearby river/water channel before commencement of Construction activity.
- o) Minimum environmental flow of 2.6Cumecs with 10% extra flow shall be maintained in the downstream in case of emergency or as recommended by EPA KP. In light of the submitted EIA Report, the project management shall operate the dam on option of base load / high protection operation run of river mode. The amount of E. Flow may be revised on the basis of findings of the Cumulative Impacts Assessment study of Hydropower Projects on river Swat that is planned to be conducted in near future. Moreover, E.flow meters shall be installed on site and online access of the same shall be provided to EPA KP as and when required.
- p) The muck/debris generated from the project shall be properly quantified, dumping sites for the same shall be properly identified & selected and this Agency shall be informed prior commencement of the construction activities. The proponent shall ensure to avoid dumping of debris into down slope or in the River Swat Right of Way (RoW) or other water bodies. The same shall be stabilized by proper plantation, bio engineering and engineering techniques. Retention walls of proper size shall be erected along the muck disposal material/site;
- q) The biodiversity management plan shall be implemented. Fisheries, 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 Environment. Moreover, Biodiversity Action Plan (BAP) shall be formulated in future if recommended by EPA KP at any stage on the basis of findings during monitoring of the instant project.
- r) Clearance from Wildlife Department Govt. of Khyber Pakhtunkhwa shall be obtained if impacts of the project activities are identified / reported on the nearest wildlife park in future.
- s) Safety zone/adequate engineering measures should be provided to overcome fears of the residents regarding project activities to their houses;
- t) The construction/installations shall be carried out keeping in view seismicity of the project area & ensuring implementation of updated building by-laws/codes;

- u) Proper Flood Management Plan shall be identified for the project site & site specific mitigation measures shall be implemented during floods;
- v) Primary baseline data comprising analysis reports of surface water (River Swat/water bodies), Soil, ambient air, noise, ground water etc. of the project area shall be carried out on quarter basis from KP-EPA certified Lab before commencement of the construction activity. Moreover, the analysis reports shall be submitted to EPA on quarterly basis.
- w) A sedimentation load study shall be carried out along with mitigation measures for the control of sedimentation from upstream of the reservoir;
- x) Road/Highway Submerged/damaged due to project activity should be reconstructed/repared/rehabilitated to another suitable place in consultation with concerned Govt. Department;
- y) 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;
- z) A comprehensive CSR policy shall be formulated keeping in view, the demands/needs of the locals and quantum of the project activity. The detail of the same shall be shared with this Agency before commencement of the construction activity. A committee with representation from locals and EPA shall be finalized for this reason before commencement of physical activities.
- aa) Funds shall be allocated for environmental improvement, monitoring facilitation and protection of natural resources of the area.
- bb) Non-technical jobs shall be provided to local community/villages. Priority should also be given to locals in technical jobs. Employment record for all positions shall be provided to EPA-Khyber Pakhtunkhwa. Regular trainings shall be arranged for the locals regarding acquiring knowledge of technical jobs.
- cc) The camp site, asphalt plants, crush plants & batching plants shall be located at a safe distance as recommended by the Agency.
- dd) Separate approval shall be obtained for establishment of Crushing Plant, permanent Colony, Asphalt plant, etc. under Khyber Pakhtunkhwa Environmental Assessment Rules, 2021. For temporary colony and camps, proper treatment plant shall be constructed for municipal effluents treatment to bring it within the NEQS parameters before final discharge;
- ee) A comprehensive plantation plan, in consultation with Forest Department, shall be submitted to this Agency along with GPS Coordinates of the plantation sites.
- ff) De-notification of the Forest land from the concerned Govt. Authority shall be submitted to this Agency before commencement

of physical activities. Moreover, all the conditions / recommendations of the de-notification shall be implemented in letter & spirit and compliance report of the same shall be submitted to this Agency.

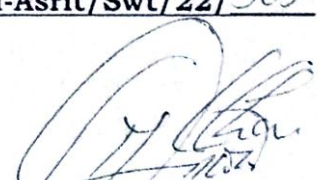
- gg) As committed only TBM shall be used for establishment of tunnel and control blasting techniques shall be adopted only at start and end points of the tunnel in accordance with prevailing explosive laws.
- hh) Fisheries department recommendations communicated vide letter No. 1068/DGF/R-3, dated 18/04/2022 shall be implemented in letter and spirit and compliance of the same shall be submitted to EPA KP.
- ii) Mines & Mineral Department letter No. 1704/MDW/SWT/Kalam Asrit Hydropower Project, dated; 21/06/2022 shall be implemented in letter and spirit and compliance of the same shall be submitted to EPA KP.
- jj) Proper plan shall be submitted for safe disposal of hazardous waste before commencement of physical activities.
- kk) Cumulative Impacts Assessment study of the project on river Swat shall be conducted or the proponent shall pay the due share as and when decided for a cumulative impacts assessment study for all the Hydropower projects located on river Swat. Moreover, the proponent will facilitate the Agency in research activities / studies through allocation of scholarship for proper assessment of the HPPs on different rivers and its mitigation.
- ll) Boulders trap shall be installed at upstream of Asrit nala and sand trap shall installed for control of sedimentation.
- mm) An Environmentalist along with team shall be hired for proper and effective implementation of the Environmental Management Plan.
- nn) The cultural values & social norms of the area shall be followed strictly;
- oo) No extension would be permitted in the future in the existing hydropower project without prior approval of the EPAGovt. of Khyber Pakhtunkhwa.
- pp) The proponent shall adopt all the possible mitigation measures to prevent ground water contamination at any cost.
- qq) River bed mining shall not be conducted without prior approval of this Agency.
- rr) A proper flood protection and management plan duly approved from Provincial Disaster Management Authority (PDMA) shall be submitted to this Agency before commencement of physical activities.



- ss) The proponent shall provide the copy of this approval and EIA Report to the contractor for information and compliance. Applicable conditions of this approval shall be made part of the contract agreement. However, compliance of this approval shall be the sole responsibility of the proponent of this project.
- tt) This Agency may suggest any additional mitigation measures/updated technology for the control of Environmental Pollution/degradation at any stage (construction & operational phase) of the project;
6. The Proponent shall be liable for correctness and validity of the information supplied by the environmental consultant.
  7. There shall be no legal case pending in any court against the project
  8. The proponent shall be liable for compliance of rules 14, 15, 18, 19, 20 & 21 of the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021 regarding approval, confirmation of compliance, entry, inspections and monitoring.
  9. This approval is accorded only for the construction phase of the project. The Proponent will obtain approval for operation of the hydro power project in accordance with the rule-15 and 18 of the Khyber Pakhtunkhwa Environmental Assessment Rules, 2021.
  10. Any change in the approved project shall be communicated to EPA, Khyber Pakhtunkhwa and shall be commenced after obtaining the approval.
  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. The quarterly progress/compliance report of the above conditions shall be submitted to EPA.
  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 of **"Kalam-Asrit 238 MW Hydro Power Project, District Swat"** for construction phase of the project with above mentioned terms and conditions.

Dated: Peshawar 04 / 07 /2022

Tracking/File.No. EPA/EIA/HPP/238MW/Kalam-Asrit/Swt/22/303-06

  
**DIRECTOR GENERAL,  
EPA, Khyber Pakhtunkhwa,  
3<sup>rd</sup> Floor, SDU Building,  
Khyber Road, Peshawar Cantt.**