



F. No. J-12011/39/2014-IA.I
Government of India
Ministry of Environment, Forest and Climate Change
(IA.I Division)

2nd Floor, Vayu Block,
Indira Paryavaran Bhawan,
Aliganj, Jor Bagh Road,
New Delhi-110003

Dated: 18th March, 2021

To,

The Chief Engineer (CI&D Wing)
J & K State Power Development Corporation Limited
18 C/C, Gandhinagar
Jammu -180 012
Jammu & Kashmir

Sub: Ujh Multipurpose (196 MW) Project in Kathua and Samba District of Jammu & Kashmir by M/s J&K State Power Development Corporation Limited - Environmental Clearance (EC) - regarding.

Sir,

This has reference to your, online Proposal No. IA/JK/RIV/84991/2018, and letter no CI&D/UJH-XI/2475 Dated 06.11.2020 submitted to the Ministry for EC to the project on the above-mentioned subject.

The above referred proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric projects in its 5th meeting held on 30th December, 2020. The comments and observations of EAC on the project may be seen in the Minutes of the meeting which are available on the web-site of this Ministry.

2. Project proponent submitted that the Ujh Multipurpose Project is located (Lat. 32°33' to 32°40'N & long. 75°5' to 75°35'E) in district Kathua of Jammu and Kashmir, is proposed on river Ujh which is one of the main tributaries of River Ravi. The proposed dam site is located at village Barbari about 1.6km downstream of Panchtirthi. The Powerhouse site is downstream of dam site near village Deoli. A Barrage has been proposed 1.5km d/s of Power house which also lies in tehsil and district Kathua. Two canals, Right Main Canal (RMC) and Left Main Canal (LMC) shall offtake from barrage from both the banks to meet the irrigation requirements in districts Kathua and Samba. A barrage has been proposed 1.5 km d/s of Power house. Two canals, Right Main Canal (RMC) and Left Main Canal (LMC) will offtake from the barrage along both the banks of river Ujh. About 10 cusec of water has been earmarked for RMC and LMC for meeting drinking water requirements of district Kathua. The RMC will provide irrigation in Kathua and Samba districts, while, LMC will provide irrigation in district Kathua. The CCA of RMC and LMC is 5595 ha and 3053 ha respectively. In addition to that, the RMC will irrigate an additional area of 8095ha in Kharif season and 5989ha in Rabi season from Samba to Vijaypur in the command area of existing Ravi and Tawi canals.

3. Project proponent submitted that the major project components includes the main dam comprises of a compacted rock fill section with a concrete face slab on the

upstream slope and a concrete toe slab on the plinth. The FRL has been fixed at 608m and MWL at 609.5m with gross storage of 925 MCM. The top of dam has been kept as EL 619.0m. The average existing river bed level at dam axis is about EL 503.0 m. The total length of dam at its top will be 420.0m. For the construction of Concrete Faced Rockfill Dam, Ujh River would be diverted through 4 diversion tunnels, each of 12.0m diameter and approximately 450m in length. A chute spillway has been proposed in a saddle on the hill at left flank of the dam. This spillway will have five bays controlled by radial gates of size 13.00m (W) X 19.16m (H). The length of the proposed overflow structure shall be 81.00m. From the intake, a 2.474km long lined Head Race Tunnel of 7.3m dia has been provided. A surge shaft of 87 m height, 25 meter dia has been provided. After surge shaft, a steel lined 6.3m dia vertical drop shaft of 85.35m height followed by a 397.10m long horizontal pressure shaft has been provided. Three penstocks of 4 m dia each have been provided to feed three Francis Turbines of 62 MW capacities of each to be installed in a surface power house located on the right bank of river Ujh. The size of power house at the turbine floor level is 72.25m × 35.50m. A dam toe powerhouse comprising of 4 units of 2.5MW has also been proposed to generate hydro-power of the water meant for mandatory environmental releases.

4. Project proponent submitted that the land requirement of Ujh Multipurpose project is 4350 ha, out of which submergence area is 3450.0 (Govt land: 329 ha; Forest land: 680.1 ha and Private land: 2441 ha). The Jasrota Wildlife Sanctuary, with an area of 10.04 km², is situated on the right bank of Ujh River in district Kathua, between 32°27' and 32°31'N latitudes and 75°22' and 75°26' longitudes. State Board of Wildlife has approved for clearance vide letter dated 7th August 2020. Ujh Multipurpose Project does not involve any interstate aspect as the River Ujh, does not cross any other Indian state except Jammu & Kashmir. Stage I FC for 680.1 ha of Forest land was accorded vide dated 04.02.2021. Total cost of the project is 5850.00 crores.

5. Proposed project is covered under under Schedule 1 (c) of the EIA notification 2006 and as amended thereof. The TOR was granted by MOEF&CC vide letter dated 06.12.2018 for conducting the CEIA Study for the proposed Ujh Multipurpose (196 MW). Most of the land acquisition for construction of dam, submergence and canal network will be in Kathua district. However, some land acquisition will be required for canal portion in Samba district also. Therefore, JKPCB conducted the public hearing in both the districts on 16.07.2020 and 26.08.2020, respectively.

6. Above proposal for EC was considered by the EAC in the 5th meeting held on 30.12.2020. EAC deliberated on the information submitted (Form 2, EIA/EMP report, Public Hearing issues, kml file, etc.) and as presented in the meeting. EAC observed that it's a Multipurpose Project and instant application for hydroelectric and irrigation components involved in the project. Further, the total land requirement of Ujh Multipurpose project is 4350 ha, out of which submergence area is 3450.0 (Govt land: 329 ha; Forest land: 680.1 ha and Private land: 2441 ha). The Jasrota Wildlife Sanctuary is within 10 km of project site. State Board of Wildlife has given approval vide letter dated 07.08.2020. Ujh Multipurpose Project does not involve any interstate aspect as the River Ujh, does not cross any other Indian state except Jammu & Kashmir. EAC after detailed deliberation on the information submitted by the PP and as presented before them, **recommended** the proposal for grant of Environmental Clearance subject to submission of certain information to the Ministry including Stage I Forest Clearance at the earliest prior to grant of EC. In compliance to the EAC recommendation, Project Proponent has submitted the




information including Stage I Forest Clearance to the Ministry. Accordingly, the Ministry of Environment, Forests and Climate Change hereby **accords Environmental Clearance** to the **Ujh Multipurpose (196 MW) Project** as per the provisions of EIA Notification, 2006 and its subsequent amendments, subject to compliance of the standard Environmental Conditions as enumerated in the Annexure-I and following specific conditions:

- i. The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP reports. The budgetary provisions (Rs 4034.04 crores) for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the project cost or due to price level change, the cost of EMP shall also be updated proportionately.
- ii. After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment. The study shall be undertaken by an independent agency.
- iii. Necessary permission to be obtained for quarrying construction materials, if any required, for the project as per the EIA Notification, 2006 and as amended thereof.
- iv. Necessary control measures such as water sprinkling arrangements at all the construction sites, etc. and construction of paved roads leading to muck disposal sites shall be taken up on priority to arrest fugitive dust.
- v. Stabilization of muck disposal sites using biological and engineering measures shall be taken up to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area.
- vi. Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged.
- vii. Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- viii. Conservation plan for Schedule I species shall be implemented with the approval of the concerned CWLW.
- ix. Possibility of fish pass/ladder for migration of fish shall be explored in consultation with CIFRI/WII.
- x. Real time monitoring of e-flow to be done in consultation with State PCB or any other institution.
- xi. The clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.
- xii. The EC granted is strictly under the provisions of EIA Notification, 2006 and amendments thereof. It does not amount to be approval under any other acts

or rules applicable for the project. The requisite approvals/clearances from any other organization/department as applicable to the proposed project shall be ensured by the Project Proponent.


7. This has approval of the Competent Authority.

Yours faithfully,


18.3.2021
(Yogendra Pal Singh)
Scientist 'E'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Secretary, Ministry of Water Resources, RD&GR, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
3. The Secretary, Department of Power, Government of Jammu and Kashmir, Civil Secretariat, Jammu, Jammu & Kashmir.
4. The Secretary, Department of Forest, Environment & Wildlife Management, Government of Jammu and Kashmir, Civil Secretariat, Jammu, Jammu & Kashmir
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, RK Puram, New Delhi - 110 066.
6. The DDG of Forests (Central), Ministry of Environment, Forest & Climate Change, Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh - 30
7. The Member Secretary, Jammu and Kashmir State Pollution Control Board, Gladini, Narwal, Jammu, Jammu & Kashmir
8. NIC Cell - uploading in MoEFCC's website.
9. Guard file.


18.3.2021
(Yogendra Pal Singh)
Scientist 'E'

Standard EC Conditions for River Valley and Hydroelectric projects

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area).
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.
- vi. Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crores.

II. Air quality monitoring and preservation

- i. Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction EIA / Monitoring purposes.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.
- iii. Necessary control measures such as water sprinkling arrangements, etc. bet taken up to arrest fugitive dust at all the construction sites.

III. Water quality monitoring and preservation

- i. Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with natural drainage system.

- ii. Remodelling of existing natural drains (link drains) and connecting them with irrigated land through constructed field drains, collector drains, etc. are to be ensured on priority basis.
- iii. Before impounding of the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.
- iv. As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project.
- v. Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF & CC and to the CWC on weekly basis.
- vi. Mixed irrigation shall be practised and necessary awareness be given to all the farmers and trained in the use of such systems. Proper crops selection shall be carried out for making irrigation facility more effective.
- vii. On Farm Development (OFD) works like landscaping, land levelling, drainage facilities, field irrigation channels and farm roads, etc. should be taken up in phased manner prior to the start of irrigation in the entire command area. The Command Area Development Plan should be strictly implemented as proposed in the EIA/EMP report

IV. Noise monitoring and prevention

- i. All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Catchment Area Treatment Plan

- i. Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.

VI. Waste management

- i. Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.
- ii. Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.

VII. Green Belt and Wildlife Management

- i. Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of river basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months, whichever value is higher, shall be released as environmental flow.
- ii. Detailed information on species composition particular to fish species from previous study/literature be inventoried and proper management plan shall be prepared for insitu conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.
- iii. Wildlife Conservation Plan approved by the Chief Wildlife Warden shall be implemented in consultation with the local State Forest Department.
- iv. To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.
- v. Compensatory afforestation programme shall be implemented as per the plan approved.
- vi. Fish ladder/pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.

VIII. Public hearing and Human health issues

- i. Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.
- ii. Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.
- iii. Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools,

etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.

- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.
- vi. Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.
- vii. Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Disaster Management Plan.

IX. Miscellaneous

- i. Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation.
- ii. The Company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.
- vi. Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO,

- etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.
- vii. Formation of Water User Association/Co-operative be made involment of the whole community be ensured for discipline use of available water for irrigation purposes
 - viii. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
 - ix. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 - x. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
 - xi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
 - xii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 - xiii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - xiv. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - xv. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - xvi. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

- xvii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xviii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xix. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xx. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xxi. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xxii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
