



File No: J-12011/04/2025-IA.I (R)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division

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Date 12/01/2026



To,

Mr. Basavraj Shivchalappa Munnoli  
M/s. TORRENT PSH 3 PRIVATE LIMITED  
Samanvay, 600 Tapovan , Ambawadi, Manekbag, Ahmedabad, Ahmadabad City, Gujarat ,  
AHMADABAD, GUJARAT, 380015  
tpsh3\_parivesh@torrentpower.com

**Subject: Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW) in an area of 377 Ha at Village Potal, Saidongar, Ambot, etc, Sub District Karjat, District Raigarh, Maharashtra by M/s Torrent Psh 3 Private Limited- Environmental Clearance - reg.**

Sir/Madam,

This is in reference to your online application No. IA/MH/RIV/552857/2025 submitted on 27/09/2025 to this Ministry for the grant of Environmental Clearance (EC) under the provisions of the EIA Notification, 2006, and its subsequent amendments. The application pertains to the Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW) in an area of 377 Ha at Village Potal, Saidongar, Ambot, etc, Sub District Karjat, District Raigarh, Maharashtra by M/s Torrent Psh 3 Private Limited.

2. The particulars of the proposal are as below :

<b>(i) EC Identification No.</b>	EC25A0000MH5680921N
<b>(ii) File No.</b>	J-12011/04/2025-IA.I (R)
<b>(iii) Clearance Type</b>	Fresh EC
<b>(iv) Category</b>	A
<b>(v) Project/Activity Included Schedule No.</b>	1(c) River Valley/Irrigation projects
<b>(vi) Sector</b>	River Valley and Hydroelectric Projects
<b>(vii) Name of Project</b>	Saidongar 1 - Karjat Pumped Storage Project
<b>(viii) Name of Company/Organization</b>	TORRENT PSH 3 PRIVATE LIMITED
<b>(ix) Location of Project (District, State)</b>	RAIGAD, MAHARASHTRA
<b>(x) Issuing Authority</b>	MoEF&CC
<b>(xi) Applicability of General Conditions as per</b>	No

3. In view of the particulars given in the Para 2 above, the project proposal inter-alia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the Expert Appraisal Committee (River Valley & Hydro-electric) under the provision of EIA notification 2006, as amended.

4. The above-mentioned proposal has been considered by the EAC in its 41<sup>st</sup> meeting held on 13.10.2025. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.

5. The EAC after examining the information submitted and detailed deliberations reiterated its earlier recommendation on the project and recommended the proposal for grant of prior Environmental Clearance to Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW) in an area of 377 Ha at Village Potal, Saidongar, Ambot, etc, Sub District Karjat, District Raigarh, Maharashtra by M/s Torrent Psh 3 Private Limited, under the provisions of EIA Notification, 2006 and as amended with subject to compliance of applicable Standard EC conditions with certain additional specific environmental safeguard conditions (Annexure - I).

6. The details of the project as per the information submitted by the Project proponent is given in Annexure – II.

7. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006, as amended and based on recommendation of EAC, the Ministry, hereby accords approval for grant of Environmental Clearance to the Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW) in an area of 377 Ha at Village Potal, Saidongar, Ambot, etc, Sub District Karjat, District Raigarh, Maharashtra by M/s Torrent Psh 3 Private Limited, under the provisions of EIA Notification, 2006, as amended subject to compliance of the Specific and Standard EC conditions as given in Annexure (1) for environmental safeguards.

8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006, as amended. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

10. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

11. The Validity of EC is upto 13 years to the start of production operations by the project or activity. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on

or before the In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006, as amended.

12. The Project Proponent is obligated to implement all commitments made in the Environmental Management Plan (EMP), which forms an integral part of this Environmental Clearance (EC).

13. General Instructions:

(a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

(b) 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.

(c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.

(d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(e) 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.

(f) 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.

(g) 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.

(h) PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign "EK Ped Ma ke Naam" (एक पेड़ माँ के नाम (and the details of the same shall be uploaded in the MeriLife portal (<https://merilife.nic.in>).

14. This issues with the approval of the Competent Authority.

**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 Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office,

Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001

4. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
5. The Chief Wildlife Warden, Govt. of Maharashtra, Van Bhawan, Police Gym Khana, Ramgiri Road Nagpur-440001
6. The Chairman, Maharashtra Pollution Control Board, Kalpatru Point, Sion Circle, Sion (East), Mumbai-400 022, Maharashtra.
7. Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
8. Guard File/Record File/Monitoring File/Website of MoEF&CC

## Annexure 1

### Specific EC Conditions for (River Valley/Irrigation Projects)

#### 1. Miscellaneous:

S. No	EC Conditions
1.1	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.
1.2	The conditions mentioned in the Western Ghats notification (draft notification no. S.O.3060(E) dated 31.07.2024) for development of hydro-power projects issued by the MOEF&CC shall be complied with.
1.3	A dedicated team to oversee environmental management activities (at project site) shall be set up comprising Environment Manager having post graduate qualification in Environmental Sciences/ Environment Engineering along with other supporting staff. The Environment Manager Shall report to Project Head directly.
1.4	PP shall procure construction material only from those Organizations having all valid legal/statutory clearances/permissions or necessary permission to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and as amended thereof.

#### 2. Socio-economic:

S. No	EC Conditions
2.1	Land acquired for the project shall be suitably compensated in accordance with the prevailing guidelines of the state government and provisions under Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
2.2	RO plant shall be installed in the nearby 5 villages and the maintenance shall be done by the project Authorities.
2.3	Solar panel be provided to the families living in rural areas within 10 km radius of project.
2.4	School up to 12 <sup>th</sup> Standard shall be established and managed to provide free quality education for children from project affected villages/Tribal villages. Adequate transportation facilities shall also

S. No	EC Conditions
	be provided to students to ensure connectivity and ease of access.
2.5	50 bed multi-specialty hospital shall be established to cater the need of tribal population/locals. The tribal population within 10 km radius of the project shall be given free of cost medical facility.
2.6	<p>Skill development Centre shall be established within 10 km radius of the project and regular training programmes for development and promotion of traditional art/products of tribal/local population. The Skill Development Plan shall mandatorily include the following components:</p> <ul style="list-style-type: none"> <li>· Capacity building and skill enhancement programs aligned with local livelihood opportunities.</li> <li>· Establishment of linkages with Industrial Training Institutes (ITIs) and other recognized training centres for imparting technical skills.</li> <li>· Provision of free or subsidized access to healthcare facilities in project-supported hospitals and health centres.</li> <li>· Support to educational institutions in the study area through free services, scholarships, infrastructure strengthening, and vocational guidance programs.</li> <li>· Special outreach initiatives for women, youth, and vulnerable groups within the SC/ST communities to ensure inclusive participation and benefits.</li> <li>· The Plan shall be implemented in a time-bound manner with clearly earmarked budgetary provisions, which shall not be diverted for any other purpose.</li> </ul>
2.7	The PP shall submit annual progress reports on the implementation of the Skill Development Plan and associated community welfare measures to the Regional Office of the Ministry.
2.8	Bio-Gas plant shall be installed in the Project affected area for Utilizing Cattle waste (Cow Dung) into renewable source of fuel.
2.9	Preference in employment opportunities and admission to ITI institutions shall be given to Project Affected Families (PAFs).
2.10	An institutional mechanism to be developed to ensure the preference of jobs to PAFs and SC/ST and also a policy for preferential treatment for award of sundry works to the PAFs and SC/ST and their dependents.
2.11	The compliance of above conditions shall be monitored by IRO, MoEF&CC and regularly site visit once in year. The compliance report of IRO shall be regularly submitted to MoEF&CC.

### 3. Disaster Management:

S. No	EC Conditions
3.1	Disposal of the excavated muck and its filling on the low-lying area with proper measures for the stabilization and greenery to minimize the impacts of the generated construction muck shall be taken up pari passu with construction work. A muck transportation plan shall be prepared and implemented. The movement of muck carrying vehicles shall be monitored through latest sensor-based technology to ensure the muck dumping at designated sites.
3.2	Stabilization of muck disposal sites using biological and engineering measures shall be taken up immediately to ensure that muck does not roll down the slopes and does not pollute the natural streams and water bodies in surrounding area. The plantation on muck disposal site with local

S. No	EC Conditions
	species for restoration of ecology and environment of the project site area.
3.3	Necessary control measures such as water sprinkling arrangements, and construction of paved roads leading to muck disposal sites etc. shall be taken up on priority to arrest fugitive dust at all the construction sites.
3.4	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.
3.5	Technical appraisal of project shall be obtained from CEA in terms of Office Memorandum no. 15-23/3/2021-Hydel-II dated 29.08.2025 issued by the Ministry of Power, before start of construction activities of the project.
3.6	Landslide and other heavy rain related disasters shall be taken care of through appropriate preventive measures during construction and operation of project.

#### 4. Environmental Management And Biodiversity Conservation:

S. No	EC Conditions
4.1	The water of rainfall yield of self-catchment of the reservoir shall be released to downstream through body of dam/ barrage/ embankment etc.
4.2	The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP reports. The budgetary provisions 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.
4.3	The contract clause limiting the No. of vehicles used during excavation and transportation shall be followed scrupulously and the same shall be informed to the ministry.
4.4	Ambient Air Quality Monitoring Stations for real time data to be installed at project site before commencement of the construction, shall be displayed at project site and its report to be submitted to IRO, MoEF&CC.
4.5	No vehicle purchase shall be allowed from funds earmarked for implementation of Wildlife Conservation plan. Measures for minimizing the human-animal conflict specially for black bear and leopard be suitably incorporated in the wildlife conservation plan in consultation with State Forest Department.
4.6	10000 plants shall be planted around the muck disposal area and the survival of plants shall be submitted with the 6 monthly compliance report.
4.7	Plantation of saplings shall be carried out as a part of the tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> ).
4.8	Watershed development plan prepared by ICAR-Indian Institute of Soil and Water Conservation Research Centre, Vasad-388306, Anand, Gujarat shall be implemented within 10 km radius of the

S. No	EC Conditions
	project. At least one existing water body in each village within the study area shall be conserved/rejuvenate/restore in consultation with the local authorities. Implementation status be submitted in the 6 monthly compliance report to the concerned regional office of the Ministry.
<b>4.9</b>	PP shall prepare time bound reclamation and restoration plan for restoration of batching plant in consultation with the Forest Department and same shall be submitted to IRO, MoEF&CC and shall be fully implemented within five years of commissioning of the project.
<b>4.10</b>	The reservoir sedimentation study shall be conducted periodically to determine the actual amount of water available in the reservoir.
<b>4.11</b>	PP shall optimize the road design by restricting the width to 7 meters along straight stretches and providing additional widening only at hairpin bends or U-turns, wherever essential, so as to minimize forest land diversion and reduce tree cutting to the extent possible.
<b>4.12</b>	Piped water supply will be provided to the project affected villages.
<b>4.13</b>	All ephemeral and seasonal rivulets and springs in and around the project area shall be preserved in their natural condition without obstruction or diversion. Necessary measures shall be undertaken for their conservation and rejuvenation to maintain natural drainage and ecological flow.
<b>4.14</b>	An Wildlife Conservation action Plan shall be prepared for the prominent species identified during the survey and investigation, in consultation with the State Forest and Wildlife Department, and implemented in letter and spirit with adequate budgetary provisions prior to commencement of project activities. The plan shall be submitted to the Regional office, MoEF&CC and implementation status of the same shall be submitted in six monthly compliance report.

#### Standard EC Conditions for (River Valley/Irrigation projects)

##### 1. Statutory Compliance

S. No	EC Conditions
<b>1.1</b>	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.
<b>1.2</b>	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
<b>1.3</b>	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).
<b>1.4</b>	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.
<b>1.5</b>	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of

S. No	EC Conditions
	CWC.
<b>1.6</b>	Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crores.

## 2. Air Quality Monitoring And Preservation

S. No	EC Conditions
<b>2.1</b>	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.
<b>2.2</b>	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.
<b>2.3</b>	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.
<b>2.4</b>	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 (if applicable).
<b>2.5</b>	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 (if applicable).
<b>2.6</b>	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.
<b>2.7</b>	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.
<b>2.8</b>	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.
<b>2.9</b>	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 (if applicable).
<b>2.10</b>	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 (if applicable).

### 3. Noise Monitoring And Prevention

S. No	EC Conditions
3.1	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.
3.2	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.

### 4. Catchment Area Treatment Plan

S. No	EC Conditions
4.1	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.

### 5. Waste Management

S. No	EC Conditions
5.1	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.
5.2	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.

### 6. Green Belt And Wildlife Management

S. No	EC Conditions
6.1	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.
6.2	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.
6.3	Wildlife Conservation Plan approved by the Chief Wildlife Warden shall be implemented in consultation with the local State Forest Department.

S. No	EC Conditions
6.4	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.
6.5	Compensatory afforestation programme shall be implemented as per the plan approved.
6.6	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.

## 7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.
7.2	Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.
7.3	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.
7.4	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.
7.5	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.

## 8. Risk Mitigation And Disaster Management

S. No	EC Conditions
8.1	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.
8.2	Drilling and blasting shall be done only either by licensed explosive agent or by the proponent after obtaining required approvals from Competent Authorities.
8.3	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Disaster Management Plan.
8.4	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. The engineering measures for the

S. No	EC Conditions
	muck disposal arrangements be evolved after carrying out required slope stability analysis.
8.5	Catchment area treatment plan shall be prepared and sufficient fund shall be provided for afforestation, rim plantation, pasture development, nursery development.

## 9. Corporate Environment Responsibility

S. No	EC Conditions
9.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30th September, 2020, as applicable, regarding Corporate Environment Responsibility.
9.2	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
9.3	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.
9.4	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.
9.5	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.
9.6	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.
9.7	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 the Committee shall be uploaded in the website of the Company.
9.8	Formation of Water User Association/Co-operative be made involvement of the whole community be ensured for discipline use of available water for irrigation purposes

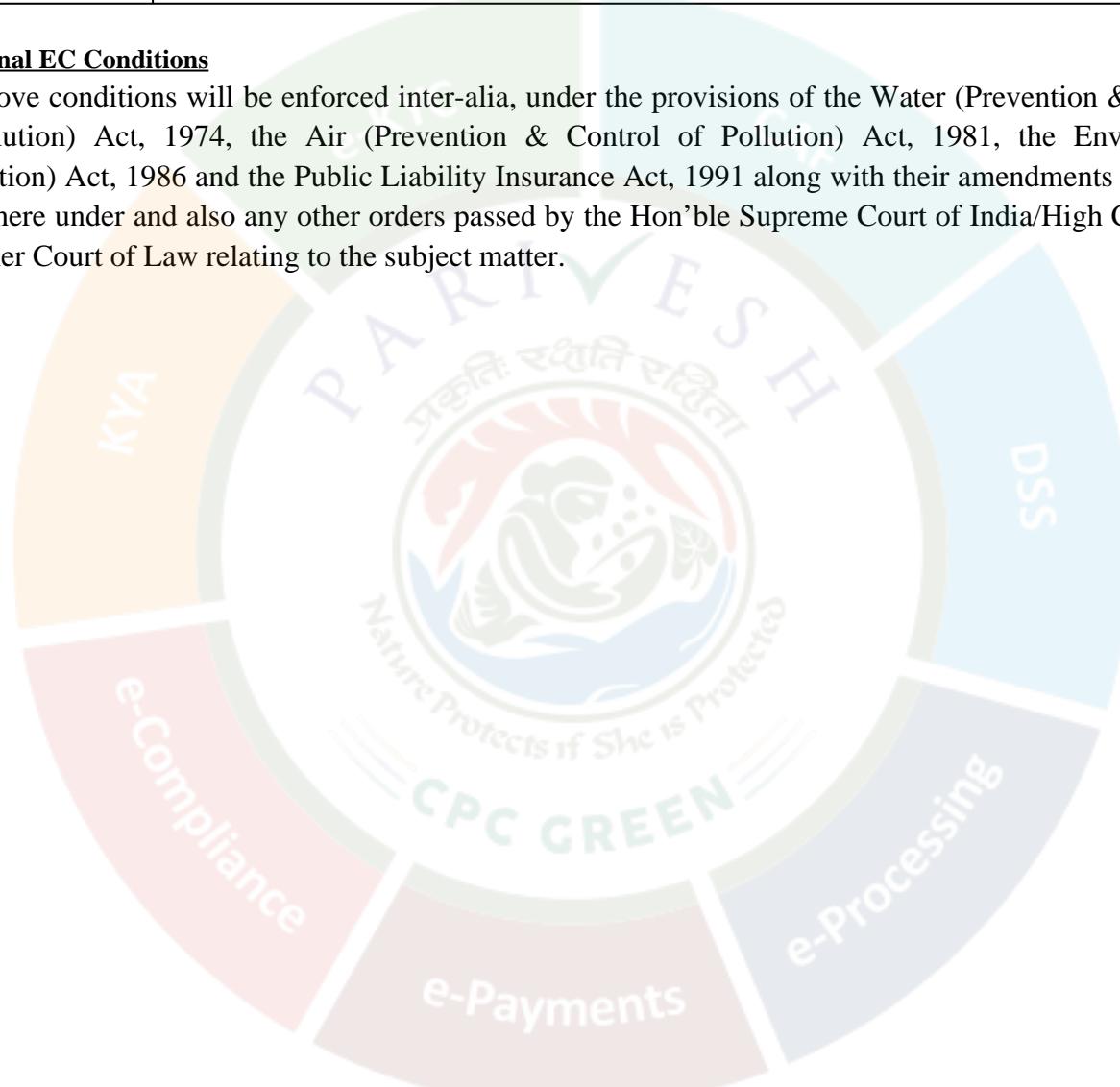
## 10. Miscellaneous

S. No	EC Conditions
<b>10.1</b>	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.
<b>10.2</b>	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.
<b>10.3</b>	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.
<b>10.4</b>	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.
<b>10.5</b>	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.
<b>10.6</b>	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.
<b>10.7</b>	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
<b>10.8</b>	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.
<b>10.9</b>	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).
<b>10.10</b>	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.
<b>10.11</b>	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<b>10.12</b>	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
<b>10.13</b>	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.

S. No	EC Conditions
10.14	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.
10.15	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.

#### Additional EC Conditions

The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.



## Annexure-II

### **Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW) in an area of 377 Ha at Village Potal, Saidongar, Ambot, etc, Sub District Karjat, District Raigarh, Maharashtra by M/s Torrent Psh 3 Private Limited.**

#### **The details of the project: -**

The Project Proponent and the accredited Consultant M/s. Aarvee Engineering Consultants Limited, Hyderabad made a detailed presentation on the salient features of the project and informed that:

- i. Saidongar 1 - Karjat Pumped Storage comprising of 3000MW is proposed to be located at village Pati T. Potal, Saidongar, Ambot, Dhak, Bhaliwadi, Sub district Karjat, Raigad District, Maharashtra. It will comprise of two reservoirs. Upper & lower reservoirs with a gross storage capacity of 15.87 MCM & 28.96 MCM respectively, upper reservoir will be constructed on the hilltop with maximum dam height of 27 m to create the desired storage capacity while the lower reservoir will have maximum height of 59 m and shall be constructed across River Pej. This Project envisages non-consumptive re-utilization of 14.77 MCM of water for re-circulation among these two reservoirs.
- ii. The proposed Saidongar 1 - Karjat Open Loop Pump Storage Project capacity is 3000 MW (9 x 300 MW + 2 x 150 MW), installed between the upper reservoir and lower reservoir. The proposed project is intended to meet the power demands during peaking time, and the reversible turbines would function as pumps during non-peaking time to pump the water from lower reservoir to upper reservoir.
- iii. Torrent PSH3 which is a subsidiary of Torrent Power Limited (TPL) has entered into a Memorandum of Understanding (MoU) with the Department of Water Resources, Government of Maharashtra on 03.09.2024 to establish Saidongar 1 - Karjat Open Loop Pumped Storage Project (PSP) of 3000 MW installed capacity located in district Raigad, Maharashtra.
- iv. The project has obtained Fresh ToR obtained from MoEF&CC vide letter No. J - 12011/04/2025-IA.I; dated 18.02.2025. Based on the ToR issued by MoEF&CC, the EIA Study has been conducted and detailed in the report considering proposed project as an Open loop project due to change in technical parameters of Project & formation of SPV. Earlier ToR was obtained for Closed loop project from MoEF&CC vide file no. J-12011/42/2023-IA.I (R), dated 23rd September 2023.

v. The geographical co-ordinate of the Upper & Lower Reservoir are:

**Upper reservoir:** Latitude 18°54'15"N and Longitude 73°24'32"E

**Lower reservoir:** Latitude 18°54'37"N and Longitude 73°25'34"E.

vi. **Land Requirement:** For the development of Saidongar-1 PSP, land would be required for construction of project components, reservoir area, muck dumping, construction camps and colony, etc. Total land required for the construction of proposed activities is approximately 377 ha (233 ha forest land and 144 ha of non-forest land)

vii. **Demographic details in 10 km radius of project area:**

The project is proposed in Karjat Taluka of Raigad district in Maharashtra. The project consists of land acquisition of 377 ha in which 233 ha is forest area and remaining 144 ha is private land. The table below shows the affected land areas land area (non-forest) due to the proposed project

**Affected Villages and Land Requirement**

S. No	Name of village	Area (Ha)
1.	Bhaliwadi	2.29
2.	Ambot	1.34
3.	Potal	6.87
4.	Pali	48.14
5.	Saiongar	11.79
6.	Dhak	73.55
<b>Total</b>		<b>144</b>

viii. **Water Requirement:**

Construction Activities: 1060 KLD will be sourced from the private water suppliers through water tankers.

Labour Camps: 540 KLD will be sourced from the private water suppliers through water tankers.

Operation Phase: Total water requirement for the project is 23 MCM for initial filling, and 3 MCM annually to compensate for evaporation losses. This water will be sourced from the self-catchment of Pej River. The Water Availability Certificate has been obtained from the Hydrology Department, WRD Nashik on 13.01.2025, which is the competent authority under the GoMH PSP Policy 2023. It is ensured that this project will not impact downstream existing water users like irrigation or drinking supply.

ix. **Project Cost:** The estimated project cost is Rs. 13,505.15 Crores. Total capital cost earmarked towards environmental management plan is Rs. 73.07 Crores (Capital Cost: Rs. 51.54 Crores & Recurring Cost: Rs. 21.53 Crores for four years).

x. **Project Benefits**

The Saidongar-1 Karjat Open Loop PSP will provide energy storage, load balancing, frequency control, and peak power generation, offering both economic and environmental benefits, including improved air quality through efficient and reliable power generation.

**1. Improvements in Physical Infrastructure:**

The Saidongar-1 Karjat PSP, with an installed capacity of 3000 MW & average annual generation of 6241.50 MU, is projected to yield total power sale benefits of ₹1,23,821.2 Crores over its 40-year lifespan. After accounting for operating costs, depreciation, and interest of ₹14,399.42 Crores, the net contribution to the national economy is estimated at ₹1,09,431.78 crore.

**2. Improvement in Social Infrastructure & Employment Potential:**

Local Area Development Plan: Local Area Development Plan will be addressing aspects of local sustainable development like community development & environment protection in and around the proposed Project, with budgetary estimate of **Rs. 500 Lakhs**

**3. Creation of Direct and Indirect Employment:**

The Saidongar 1 - Karjat PSP is envisaged to create direct & indirect employment of 2000 persons during construction phase of the project.

xi. **Environmental Sensitive area:** There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km radius from the project site.

xii. **MoU/any other clearance/permission signed with State government:** Torrent PSH3 Private Limited is a subsidiary of Torrent Power Limited (TPL). Torrent PSH3 has entered into a Memorandum of Understanding (MoU) with the Department of Water Resources, Government of Maharashtra on 03.09.2024 to establish Saidongar 1 - Karjat Open Loop Pumped Storage Project (PSP) of 3000 MW installed capacity located in district Raigad, Maharashtra.

xiii. **Resettlement and Rehabilitation:** Not Applicable

As per the Government of Maharashtra Gazette notification (Maharashtra Gazette notification No. LQN. 12/2013/C.R. 190/A-2 dated 27th August 2014) the provisions of Rehabilitation and Resettlement under RFCTLARR 2013 will apply only in case of private company purchases land through private negotiations to an extent equivalent or more than 1000 hectares and the project area is less than 1000 Ha.

xiv. **Alternative Studies:** A detailed alternative study has been carried out to find the best optimized location for lower reservoir. Detailed topographical survey was carried out for all the four (4) options and analyzed for optimum storage capacity of reservoirs.

The analysis of the alternatives for alignment is evaluated using Environmental Impact Assessment Decision Support System (EIADSS). The Impact scoring criteria are mainly categorized into five groups (*viz. Natural Resource Environment, Physical Environment, Biological Environment, Social Environment, & Engineering Environment*). For option-1, 2, 3 & 4, the cumulative weighted percentage is worked out to be 44%, 46%, 47% and 39% respectively. The minimum weighted percentage indicates the best alternative, and the maximum weighted percentage indicates the poor for the project. So, it is concluded that the minimum weighted percentage obtained to option-4 and is recommended for this project which will have social & environmental acceptability, technically viability and economic & financial feasibility.

xv. **Baseline Environmental Scenario:**

<b>Period</b>	<b>From October 2024 to May 2025</b>
AAQ parameters at 6 locations (min. & Max.)	PM10 = 57.4 to 96.3 $\mu\text{g}/\text{m}^3$ PM2.5 = 25.4 to 52.6 $\mu\text{g}/\text{m}^3$ SO2 = 7 to 18.9 $\mu\text{g}/\text{m}^3$ NOx = 14.6 to 33.7 $\mu\text{g}/\text{m}^3$ CO = 0.32 to 0.57 mg/m <sup>3</sup>
Incremental GLC Level	PM10 = Max. GLC : 81.2 $\mu\text{g}/\text{m}^3$
River & Pond water samples (14 samples)	pH: 6.96 to 8.19, Dissolved Oxygen: 6.1 to 7.8 mg/L Total Dissolved Solids: 96 to 986 mg/L Total Hardness (as CaCO <sub>3</sub> ): 12.8 to 259.4 mg/L Calcium (as Ca): 6.2 to 74.2 mg/L Magnesium (as Mg) : 1.8 to 23.8 mg/L Sulphate (as SO <sub>4</sub> ): 2 to 40 mg/L Nitrate (as NO <sub>3</sub> ) : 0.1 to 8.4 mg/L Chloride (as Cl) : 9.6 to 81.2 mg/L Iron (as Fe): 1.2 to 4.6 mg/L BOD 0.02 to 0.823 mg/L Heavy metals like Copper (as Cu), Lead (as Pb), Cadmium(as Cd), Chromium (as Cr), Manganese (as Mn), Arsenic (as As) and

	Mercury(as Hg) : Within the IS:2296 Class C Limits
Ground Water samples at 12 locations	<p>PH: 7.56 to 9.08;</p> <p>Total Dissolved Solids: 143 to 637 mg/L</p> <p>total Hardness (as CaCO<sub>3</sub>): 42 to 278 mg/L</p> <p>Total Alkalinity(asCaCO<sub>3</sub>): 8 to 256 mg/L</p> <p>Calcium (as Ca): 12.27 to 87.95 mg/L</p> <p>Magnesium (as Mg): 2.04 to 32.66 mg/L</p> <p>Sulphate (asSO<sub>4</sub>): 2.4to 78 mg/L</p> <p>Nitrate (as NO<sub>3</sub>): 0.1 to 1.5 mg/L</p> <p>Chloride (as Cl): 13.2 to177 mg/L</p> <p>Iron (as Fe): 0.01 to0.82 mg/L</p> <p>Heavy metals like Copper (as Cu), Lead (as Pb), Cadmium(as Cd),Chromium (as Cr), Manganese (as Mn), Arsenic (as As) and Mercury(as Hg) : Within the IS:10500 Standards</p>
Noise levels Leq (Day & Night) at 12 locations	The Leq values for day time was observed to be 52 to 55.1 dB (A) in residential area, while during night time 45.1 to 46.3 dB (A).
Soil Quality at 12 Locations	<p>Bulk density:1.31 to 1.6 gm/cm<sup>3</sup>;</p> <p>pH range 6.46 to 7.89;</p> <p>Electrical conductivity (EC); 53 to 298 <math>\mu</math>S/cm;</p> <p>calcium content: 80.4 to 3644 mg/kg;</p> <p>sodium: 54.2 to 134.3 mg/kg;</p> <p>potassium: 28.5 to 790 mg/kg;</p> <p>Nitrogen: 571 to 2528 mg/kg;</p> <p>Phosphorous: 3.2-to 31 mg/kg;</p>

	Magnesium: 29.2 to 763 mg/kg; Organic Matter: 0.28 to 3.7
Flora & Fauna	<p>Schedule-I species observed in the study area:</p> <p>Mammals (14): Indian Jackal, Indian Fox, Indian Wolf, Jungle Cat, Leopard, Indian Porcupine, Sloth Bear, Bonnet Macaque, Gray Langur, Asian Palm Civet, Small Indian Civet, Four-horned Antelope, and Sambar Deer, along with Indian Pangolin, have been reported from the study area.</p> <p>Birds (6): Indian Peafowl, Brahmini Kite, Osprey, Black Eagle, White-eyed Buzzard and Shikra.</p> <p>Reptiles (6): Asian Chameleon, Russell's Viper, Indian Cobra, Rat Snake, Indian Python, and Bengal Monitor.</p>

xvi. Details of Solid waste/ Hazardous waste generation/ Muck and its management, muck generated

- Municipal Solid Waste: 3000 kg/day
- Dispose camp solid waste at nearby municipal landfill sites.
- Hazardous Wastes: The construction activity will also generate hazardous waste like waste oils, used batteries, empty cans etc. These wastes should be collected, handled and disposed as per the Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016. This waste be handed over to the MPCB authorized recyclers.
- Biomedical Wastes: Tie up with a district or private hospital for biomedical waste disposal.

#### **Muck Generation**

The construction activities of the project would generate muck from excavation of various project structures. The total quantity of muck generated rock excavation is about 110.78 Lakh cum. Total quantity of muck proposed to be disposed in designated muck disposal area, after considering swelling factor, Compaction factor and reuse would be 65.69 Lakh cum. The entire excavated material is proposed to be dumped at three locations identified specifically for this purpose

xvii. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 03.09.2025. The main issues raised during the public hearing are related to Land Acquisition (Forest & Non-Forest Land), Environmental and Ecological Issues of Concern.

xviii. The salient features of the project are as under:-

<b>1. EAC MEETING DETAILS:</b>	
EAC meeting/s	: 41st Meeting of Expert Appraisal Committee (River Valley & Hydro-Electric Projects)
Date of Meeting/s	: 13.10.2025
Date of earlier EAC meetings	: 29.01.2025 (For Terms of Reference)

<b>2. PROJECT DETAILS:</b>	
Name of the Proposal	: Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW), Raigad District Maharashtra
Proposal No.	: IA/MH/RIV/552857/2025
Location (Including Coordinates)	: State: Maharashtra District: Raigad Tehsil: Karjat The geographical coordinates of the proposed Upper Reservoir Latitude: 18°54'15" N & Longitude: 73°24'32" E Lower Reservoir Latitude: 18°54'37" N & Longitude: 73°25'34" E
Company's Name	: Torrent PSH3 Private Limited
CIN no. of Company/user agency	: U35100GJ2023PTC147330
Accredited Consultant and certificate no.	: NABET/EIA/23-26/SA 0247
Project location (Coordinates /River/Reservoir)	: The geographical coordinates of the proposed Upper Reservoir at Dhak Village Latitude: 18°54'15" N & Longitude: 73°24'32" E Lower Reservoir at Pali T. Kothal Kalathi Latitude: 18°54'37" N & Longitude: 73°25'34" E
Inter- state issue involved	: No
Proposed on River/ Reservoir	: Pej River
Type of Hydro-electric project	: Open loop
Seismic zone	: III

<b>3. CATEGORY DETAILS:</b>	
Category of the project	: A
Capacity / Cultural command area (CCA)	: 3000 MW
Attracts the General Conditions (Yes/No)	: No

Additional information (if any) : Nil
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<b>4. ToR/EC Details</b>
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ToR Proposal No.	: IA/MH/RIV/517008/2025
EAC meeting date	: 29.01.2025
ToR Letter No.	: J-12011/04/2025-IA.I (R)
ToR grant Date	: 18.02.2025
Cost of project	: INR 13,505.15 Cr
Total area of Project	: 377Ha
Height of Dam from River Bed (EL)	: Lower Reservoir - 59m Upper Reservoir - 27m
Details of submergence area	: Nil
District to provide irrigation facility (if applicable)	: Not Applicable
Details of tunnels on upper level & lower level and length of canal (if applicable)	: Tail Race Tunnels Shape – Circular Lining - Concrete DTT & TRT (Big Unit) Numbers – 9 nos. Diameter – 5.8 m Length – 58.50 m Main TRT (Big Unit) Number – 4 nos. Diameter – 7.10 m Length – 275 m DTT & TRT (Small Unit) Number – 2 nos. Diameter – 3.6 m Length – 43 m Intermediate TRT (Small Unit) Numbers – 1 no. Diameter – 5 m Length – 30 m Main TRT (Small Unit) Numbers – 1 no. Diameter – 7.10 m Length – 367 m
No. of affected Village.	: Nil (No Rehabilitation is envisaged in project)
No. of Affected Families	: Nil (No Rehabilitation is envisaged in project)
Project Benefits	: Contribution to the Growth of National Economy Creation of Direct and Indirect Employment Reduction of Carbon Emissions

	<p>Local Area Development under CER Other Tangible benefits include Green Belt Development Large Scale Plantation Subsidiary Industrial Opportunities</p>
R&R details	: The proposed project does not involve R&R activities
Catchment area/ Command area	: 23.4km <sup>2</sup>
Types of Waste and quantity of generation during construction/Operation	: Muck waste generated during the construction phase is 110.78 lakh cum
Material used for blasting and its Composition as per DGMS standards.	: Cartridge of Gelatine (Nitrate mixture)
E-Flows for the Project	
Is Projects earlier studied in Cumulative Impact assessment & Carrying Capacity studies (CIA&CC) for River in which project located. If yes then E-flow with TOR/Recommendation by EAC as per CIA&CC study of River Basin.	: Not Applicable
If not the E-Flows maintain criteria for sustaining river ecosystem.	: The proposed project envisages a non-consumptive utilization of 23 MCM (one time filling requirement) which will be sourced in 2-3 year of time during monsoon season. 3 MCM (Annual recoupment requirement) will be sourced each year in the monsoon season. Water availability studies by Water Resource Department, Nasik, Maharashtra was carried out and water availability certificate is issued to the project on 13.01.2025 ensuring the ecological flow & requirement of downstream user
Details on provision of fish pass	: Specific Fisheries Management Plan is not proposed for the river Pej as the water flows only during the monsoon season or rainy days otherwise remains almost dry, therefore, this stream does not support a significant aquatic life. However, to promote Pisciculture in the surrounding villages, a budgetary estimate of Rs. 60 Lakhs is proposed as per Fisheries Management Plan.
Project benefit including employment details (no of employee)	: Construction of the proposed project would create several direct employment opportunities. The construction phase will last

for about 45-48 months. The total number of persons engaged in the project including the service population will be about 2000 nos.	
Area of Compensatory Afforestation (CA) with tentative no. of plantation.	: Compensating for the loss of 233 hectares of Class I forest category in Maharashtra requires plantation with native trees at a density of 0.7. The estimated budget for this compensatory plantation is ₹ 4.86 crores including the land preparation, saplings, labor, irrigation & four years of maintenance.
Previous EC details	: Not applicable
EC Compliance Report by R.O, MOEF&CC	: Not applicable

## **5. ELECTRICITY GENERATION CAPACITY:**

Powerhouse Installed Capacity	: 3000 MW
Generation of Electricity Annually	: 6241.50 MU
No. of Units	: 11nos (9x300 MW + 2x150 MW)

## **6. MUCK DISPOSAL DETAILS:**

No. of proposed disposal area/ (type of land- Forest/Pvt land)	: 3 muck disposal sites with an area of 41.88 ha (Non-forest land)
Cross section of proposed muck area, Height of muck with slope.	: Slope - 30° Height - 26m
Distance of muck disposal area(location), from muck generation sources (project area)/River, HFL of proposed muck disposal area.	: Proposed Muck disposal Site (Site 5C) 1.60 km from the HFL of proposed lower reservoir. 300 m from HFL of Pej River Other Muck disposal sites (5A & 5B) are 200 & 500 m away from the HFL of the Upper Reservoir
Total Muck Disposal Area	: 41.88 ha
Estimate Muck to be generated	: 110.78 lakh cum
Transportation	: The generated muck will be carried in dumper trucks covered properly tied to the vehicle in line with international best practices. All precautionary measures will be followed during the dumping of muck. All dumpers will be well maintained to avoid any chances of loose soil from being falling during the transportation. All routes will be periodically wetted with the help of sprinklers prior to the movement of dump trucks. Dumping would be avoided during the

Monitoring mechanism for Muck Disposal Transportation	high-speed wind, so that suspended particulate matter (PM10) levels could be maintained.  <ul style="list-style-type: none"> <li>• Muck shall be dumped from bottom in layers of 500-700mm depending on size of boulders</li> <li>• Each layer shall be rolled compacted.</li> <li>• A layer of soil shall be spread on top of it to make it suitable for plantation.</li> <li>• All norms of Forest department, SPCB and MoEF&amp;CC and their acts related to muck disposal shall be complied with.</li> <li>• Design consultant shall be engaged for designing of retaining structures.</li> <li>• Plantation shall be done on the reclaimed land and native variety of plants and trees shall be planted.</li> </ul>
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#### 7. LAND AREA BREAKUP

Private land	: 144ha
Government land/Forest Land	: 233 Ha
Submergence area/Reservoir area	: Upper Reservoir: 115.78 Ha Lower Reservoir: 123.61 Ha
Land required for project components	: Upper Reservoir: 115.78 Ha Lower Reservoir: 123.61 Ha Water Conductor System: 38.63 Ha

#### 8. PRESENCE OF ENVIRONMENTALLY SENSITIVE AREAS IN THE STUDY AREA

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/ letter/Remarks
Reserve Forest/Protected Forest Land	Yes	Based on the recommendations of the Additional PCCF & Nodal Officer, Maharashtra State, Nagpur the Revenue & Forest Department, Mantralaya, Mumbai, forwarded the file to the Secretary, MoEF&CC, GoI on 19.09.2025 vide No. FLD-1325/CR-106/F-10, duly recommending the diversion of 233 ha of forest land for the proposed project.
National Park	No	None within 10km radius
Wildlife Sanctuary	No	As per letter dated: 06.06.2025 of the Deputy Conservator of Forest, Alibag, The aerial distance from the project site to the Bhimashankar WLS is 15.53 Km and Bhimashankar WLS ESZ is 15.168 Km.

		The same has been confirmed by the Revenue & Forest Department, Mantralaya, Mumbai on 19.09.2025
Archaeological sites monuments/historical temples etc	No	None within 100 – 200 m radius
Additional information (if any)	-	-

#### Availability of Schedule-I species in study area:

**Mammals (14):** Indian Jackal, Indian Fox, Indian Wolf, Jungle Cat, Leopard, Indian Porcupine, Sloth Bear, Bonnet Macaque, Gray Langur, Asian Palm Civet, Small Indian Civet, Four-horned Antelope, and Sambar Deer, along with Indian Pangolin, have been reported from the study area.

**Birds (6):** Indian Peafowl, Brahmini Kite, Osprey, Black Eagle, White-eyed Buzzard and Shikra.

**Reptiles (6):** Asian Chameleon, Russell's Viper, Indian Cobra, Rat Snake, Indian Python, and Bengal Monitor.

<b>9. PUBLIC HEARING (PH) DETAILS</b>	
Advertisement for PH with date	02.08.2025
Date of PH	03.09.2025
Venue	Gaurkamath Village, Taluka Karjat, District Raigad, Maharashtra
Chaired by	Additional District Magistrate Shri Sandesh Shirke, in the presence of Shri Bhosale Saheb, Regional Officer, MPCB and Smt. Rutuja Bhalerao, Sub-Regional Officer, MPCB
Main issues raised during PH	Land Acquisition (Forest & Non-Forest Land), Environmental and Ecological Issues of Concern
No. of people attended	442

#### 10. BRIEF OF BASELINE ENVIRONMENT:

<b>Particulars</b>	<b>Details</b>
Period of baseline data collection/ Sampling period.	Winter (December 2023 to February 2024), Post monsoon (October to December 2024) Pre-monsoon (March to May 2025)
Number of Sampling Locations for Air, noise, water, land	Air Quality – 6 locations Surface Water – 14 locations Ground Water – 12 locations Soil Quality – 12 locations Noise Level – 12 locations
Flora and fauna of the project area,	A mix of thorny, succulent and xerophytic bushes are common such as Chromolaena odorata, Urena lobata and Hygrophila serpyllum whereas on the slopes and

	foothills trees such as Butea monosperma, Cassia fistula, Azadirachta indica etc are found. The slopes at the sides of the stream (i.e. lower reservoir) shows good presence of greenery with tree species like Careya arborea, Terminalia alata, Terminalia arjuna, Terminalia bellerica, Euphorbia nivulia Madhuca longifolia var. latifolia, and Diospyros melanoxylon and Ficus hispida etc. In detail is provided in the EIA& EMP report
Aquatic ecology, etc.	The lower reservoir will be constructed on the river Pej in which water flows only during the monsoon season or rainy days otherwise remains almost dry, therefore, this stream does not support a significant aquatic life and no migratory fish aspects is observed. In detail is provided in the EIA& EMP report
Brief description on hydrology and water assessment as per the approved Pre-DPR:	The proposed PSP is being planned on the allocated water from Pej river reservoir, for utilization by recirculation. The upper reservoir is away from any river course and do not have any natural streams draining into the reservoirs. The yield into the upper reservoir & lower reservoirs are assumed to be exactly proportional to area, which of the reservoir is 1.15 & 1.23 Sq.km respectively, 3 MCM of water is available at 90% dependability to recoup losses (with one-time filling requirement of 23 MCM) for lower dam of Saidongar-1 PSP of 3000 MW at Karjat, Raigad in Ulhas River sub basin if west flowing river basin. Yield available at proposed Lower dam of Saidongar-1 PSP at 90% dependability is 34.177 MCM as against the demand of 3.0 MCM. The Chief Engineer, Hydrology & Dam safety, Nashik issued a Water availability certificate to the project on 13.01.2025
Additional detail (If any)	--

#### 11. COURT CASE DETAILS:

Court Case	: Nil
Additional information (if any)	: --

#### 12. STATUS OF OTHER STATUTORY CLEARANCES

Particulars	Letter no. and date

Status of Stage- I FC	Stage-I FC for 233 Ha forest land has been issued by the MoEF&CC vide online Proposal No. FP/MH/HYD/IRRIG/515850/2024, dated 31.12.2025 for Saidongar 1 - Karjat Open Loop Pumped Storage Project (3000 MW)
Approval of Central Water Commission	-
Approval of Central Electricity Authority	CEA-PS-11-23(23)/2/2025-PSPA-IDivision I/46058/2025 dated 10.01.2025
Additional detail (If any)	Wildlife conservation Plan has been prepared and obtained approval on 23.06.2025 from PCCF Maharashtra State, Nagpur. Approval for the Large-Scale Plantation obtained from the Forest Range Officer Karjat East on 19.09.2025
Is FRA done for FC-I	The FRA process is initiated and gram sabha approval for Dhak village is pending with SDM, Karjat

### 13. DETAILS OF EMP

S. No	Environmental Plans	Capital Cost (Lakh)	Recurring Cost (Lakh)				Total Cost (Rs. Lakh)
			Y1	Y2	Y3	Y4	
1	Biodiversity Conservation & Wildlife Conservation Plan	326.00	0.00	0.00	0.00	0.00	326.00
2	Fisheries Development Plan	60.00	0.00	0.00	0.00	0.00	60.00
3	Muck Dumping & Management Plan	668.20	626.20	626.20	626.20	626.20	3173.00
4	Landscaping, Restoration of Construction Sites	100.00	25.00	25.00	25.00	25.00	200.00
5	Sanitation and Solid Waste Management Plan	120.00	10.00	10.00	10.00	10.00	160.00
6	Public Health Delivery System	270.00	15.00	15.00	15.00	15.00	330.00
7	Energy Conservation Measures	175.00	20.00	10.00	10.00	10.00	225.00
8	Labour Management Plan	100.00	5.00	5.00	5.00	5.00	120.00

S. No	Environmental Plans	Capital Cost (Lakh)	Recurring Cost (Lakh)				Total Cost (Rs. Lakh)
			Y1	Y2	Y3	Y4	
9	Green Belt Development Plan	115.00	10.00	10.00	7.50	7.50	150.00
10	Pollution Mitigation Measures	81.30	5.00	5.00	5.00	5.00	101.30
11	Environmental Monitoring Program with administrative and logistic costs	0.00	38.00	38.00	38.00	34.35	148.35
12	Reservoir Rim Treatment Plan	50.00	100.00	100.00	100.00	100.00	450.00
13	Disaster Management Plan	250.00	15.00	5.00	5.00	5.00	280.00
14	Watershed Development Plan	359.00	0.00	0.00	0.00	0.00	359.00
15	Catchment Area Treatment plan	382.25	0.00	0.00	0.00	0.00	382.25
16	Large scale Plantation	384.00	0.00	0.00	0.00	0.00	384.00
17	Local Area Development Plan	100.00	200.00	100.00	50.00	50.00	500.00
18	Net Present Value, CA land & CA plantation*	0.00	0.00	0.00	0.00	0.00	0.00
19	Resettlement and Rehabilitation*	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>5154.25</b>	<b>663.00</b>	<b>533.00</b>	<b>480.50</b>	<b>476.85</b>	<b>7307.60</b>
	<b>Capital</b>	<b>5154.25</b>		<b>Recurring</b>	<b>2153.35</b>		<b>7307.60</b>