



सत्यमेव जयते

File No:J-12011/12/2021-IA.I (R)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 19/05/2025



To,

Mr. RAMANA REDDY SIDDU
M/s. NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA
PRADESH LTD (NREDCAP)
#12-464/5/1, RIVER OAKS APARTMENT, CSR KALYANA MANDAPAM ROAD, TADEPALLI,
GUNTUR DISTRICT, AP STATE , Tadepalli, GUNTUR, ANDHRA PRADESH, CSR KALYANA
MANDAPAM ROAD, 522501
we@nredcap.in

Subject: Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapur and Sri Sathya Sai, Andhra Pradesh)- Transfer of Environmental Clearance (EC) from by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) to M/s Adani Renewable Energy Forty Two Limited - reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/RIV/459841/2025 dated 04/02/2025 and documents submitted for transferring the Environmental Clearance (EC) dated 27/08/2023 of Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapur and Sri Sathya Sai, Andhra Pradesh) from “M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)” to “M/s Adani Renewable Energy Forty Two Limited”, under the provision of para 11 of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	
(ii) File No.	J-12011/12/2021-IA.I (R)
(iii) Clearance Type	Transfer of EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(c) River Valley/Irrigation projects
(vi) Sector	River Valley and Hydroelectric Projects
(vii) Name of Project	Chitravathi Pumped Storage Hydro-Electric Project Sri Sathya Sai District of Andhra Pradesh

(2*250=500 MW)

(viii) Name of Company/Organization

(ix) Location of Project (District, State)

(x) Issuing Authority

(xi) EC Date

(xiii) Details of Transferee

(xiv) Details of Transferor

SRI SATHYA SAI, ANDHRA PRADESH

MoEF&CC

17/03/2025

Adani Corporate House, Shantigram, S G Highway,Ahmedabad,438,24,Near Vaishno Devi Circle,382421

NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA PRADESH LTD (NREDCAP), #12-464/5/1, RIVER OAKS APARTMENT, CSR KALYANA MANDAPAM ROAD, TADEPALLI, GUNTUR DISTRICT, AP STATE ,Tadepalli,506,28,CSR KALYANA MANDAPAM ROAD,522501

3. In view of the particulars given in the Para 2 above, the project proposal interalia including Form-8 were submitted to the MoEF&CC under the provision of Para 11 of the EIA notification 2006 and its subsequent amendments. Details in Form 8 can be accessed on PARIVESH portal by scanning the QR Code above.

4. The instant proposal seeks the transfer of the Environmental Clearance (EC) dated 27.08.2023 for the Chitravathi (Open Loop) Pumped Storage Hydro-Electric Project (500 MW) over an area of 136 hectares, located in Village Peddakotla, Tehsil Tadimarri, District Ananthapur, and Sri Sathya Sai, Andhra Pradesh, from **M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)** (CIN: U40108AP1969SGC001295) to **M/s Adani Renewable Energy Forty Two Limited** (CIN: U40106GJ2022PLC135847).

5. The documents as submitted by the applicant are listed as under:

i. No Objection Certificate' dated 08.01.2024 from transferor company M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP).

ii. Certificate of Incorporation pursuant to change of name with Corporate Identification Number (CIN): U40106GJ2022PLC135847 dated 29/09/2022.

iii. Undertaking on non-judicial stamp no. 1280/2024 signed on dated 08.02.2024 by M/s Adani Renewable Energy 42 Limited stating that the same terms and conditions, obligations and responsibilities under the EC dated 27/08/2023 are acceptable and the conditions will be complied with.

iv. Certified true copy of the resolution passed by the board of directors of Adani Renewable Energy Forty Two Limited at its meeting held on 20th January, 2024.

6. The Government of Andhra Pradesh vide order no. G.O.Ms No. 12 dated 29.06.2022 mentioned that Chitravathi, Sri Satya Sai District of capacity 500 Mw allotted to M/s Adani Green Energy Limited. However, at S.No. 8.2 of the order states that "*Mega Industrial Project Status has been accorded to the project to facilitate single window clearances. NREDCAP will be the Nodal Agency. However, no incentives will be provided*" and at S. No. 8.9 states that "*Actual expenditure incurred by the NREDCAP in preparation of the DPRs and carrying out various field investigations of the said PSP projects and expenditure towards obtaining various clearances shall be reimbursed /paid by M/s Adani Green Energy Limited*".

7. The Ministry has examined the requisite information/ documents required for transfer of EC in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and hereby accords the transfer of Environmental Clearance (EC) dated 27/08/2023 from by "M/s New and Renewable Energy

Development Corporation of Andhra Pradesh Ltd. (NREDCAP)” to “M/s Adani Renewable Energy Forty Two Limited”, under the provisions of EIA Notification, 2006 and its amendments therein, along with following additional conditions:

i. Any change in scope of work will attract the provisions of the Environment (Protection) Act, 1986 and Environmental Impact Assessment Notification, 2006 in conjunction with the subsequent amendments / circulars.

ii. All the conditions stipulated in the Environmental Clearance (EC) letter no. J-12011/12/2021-IA.I (R) dated 27/08/2023 shall remain unchanged.

iii. The project proponent shall be liable, if any, for any act of violation of the EP Act, 1986 / EIA Notification 2006 /subsequent amendments and circulars which it has inherited during the transfer.

iv. The project proponent shall be liable for compliance of all court directions, if any.

8. The Ministry may revoke or suspend the clearance, if implementation of any of the EC conditions is not satisfactory. The MoEF&CC reserves the right to stipulate additional conditions, if found necessary.

9. The Ministry reserves the right to revoke the EC at any stage if any discrepancy is found in the submitted documents, their validity, legal compliance, or in case of any concealment of factual information by the Project Proponent.

10. The name of the addressee with respect to above mentioned project in the Environmental Clearance dated 27/08/2023 shall be substituted by the following:

M/s Adani Renewable Energy Forty Two Limited
Adani Corporate House, Shantigram,
Nr. Vaishno Devi Circle, S. G. Highway,
Khodiyar, Ahmedabad – 382 421, Gujarat, India
(CIN: U40106GJ2022PLC135847)

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

Copy To

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, NewDelhi - 110 001.
2. The Chairman, Central Electricity Authority, SewaBhawan, R. K. Puram, New Delhi - 110 066.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office(SZ), Kendriya Sadan, IVth Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore-560034 (Karnataka)
4. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Hyderabad (Andhra Pradesh)
5. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 010
7. District Collector, District Ananthapuramu, Andhra Pradesh
8. District Collector, District Sri Sathya Sai, Andhra Pradesh
9. Guard file/Monitoring file/ Website of MoEF&CC.

Additional EC Conditions

i. Any change in scope of work will attract the provisions of the Environment (Protection) Act, 1986 and Environmental Impact Assessment Notification, 2006 in conjunction with the subsequent amendments / circulars.

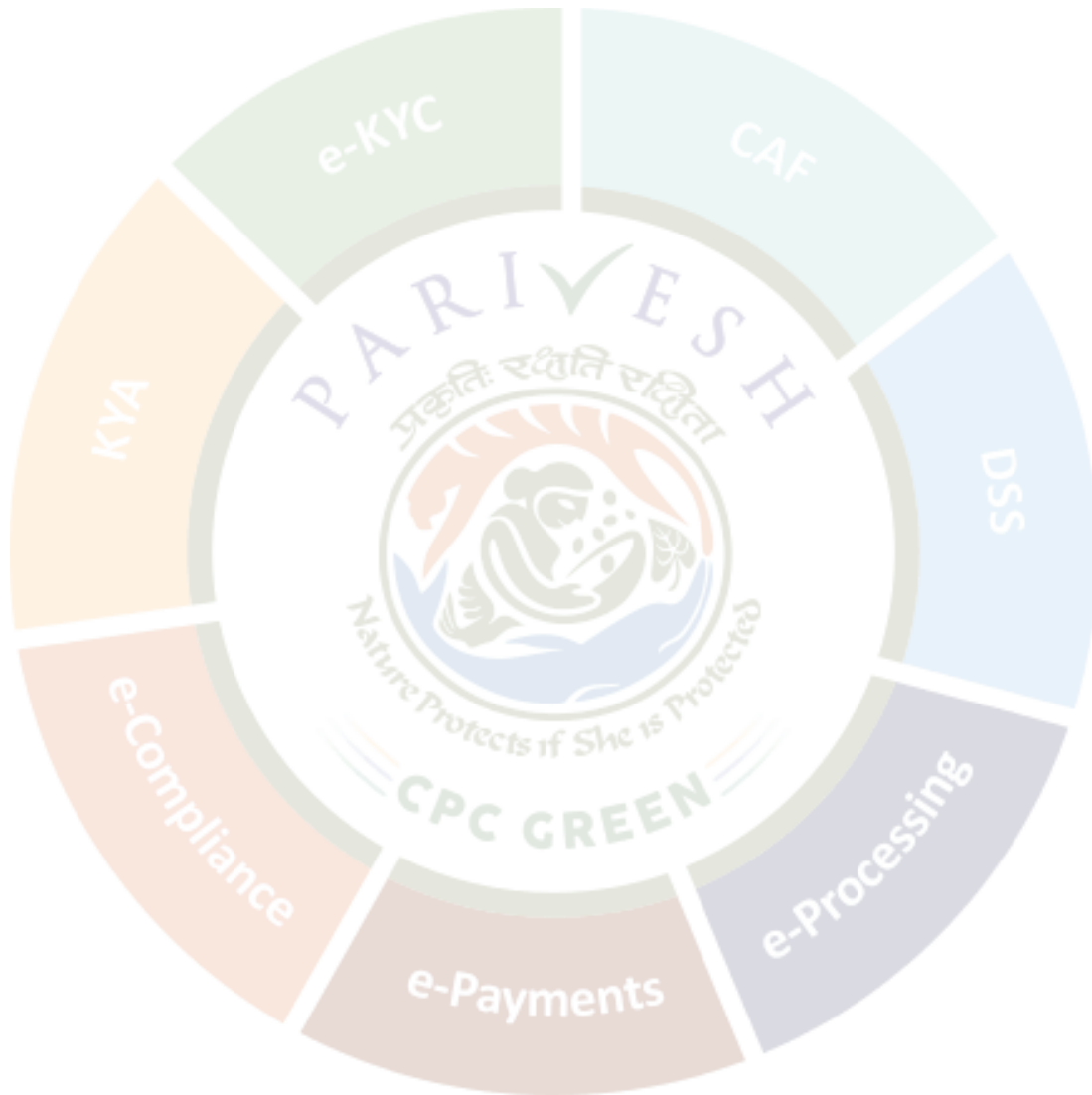
ii. All the conditions stipulated in the Environmental Clearance (EC) letter no. J-12011/12/2021-IA.I (R) dated 27/08/2023 shall remain unchanged.

iii. The project proponent shall be liable, if any, for any act of violation of the EP Act, 1986 / EIA Notification 2006 /subsequent amendments and circulars which it has inherited during the transfer.

iv. The project proponent shall be liable for compliance of all court directions, if any.

v. It is also directed to obtain Consent to Establish from the State Pollution Control Board in the name of **M/s Adani Renewable Energy Forty Two Limited**

Send Approval Copy To (In case of multiple use comma as separator)



Validity unknown

Digitally Signed by : Yogendra Pal Singh
Member Secretary, MoEFCC (EC)

Date: 19/05/2025





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File No: J-12011/12/2021-IA.I (R)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 27/08/2023



To,

Shri Ramana Reddy Siddu
M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd (NREDCAP)
#12-464/5/1, RIVER OAKS APARTMENT, CSR KALYANA MANDAPAM ROAD, TADEPALLI,
GUNTUR DISTRICT, AP STATE, Tadepalli, GUNTUR, ANDHRA PRADESH, CSR KALYANA
MANDAPAM ROAD, 522501
Email id: we@nredcap.in

Subject: Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapur and Sri Sathya Sai, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) – Environmental Clearance (EC) – reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/RIV/430371/2023 dated 29/05/2023 for grant of Environmental Clearance (EC) to the project cited in the subject, as per provision of the Environment Impact Assessment (EIA) Notification, 2006, as amended.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A0501AP5311226N
(ii) File No.	J-12011/12/2021-IA.I (R)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(c) River Valley/Irrigation projects
(vi) Sector	River Valley and Hydroelectric Projects Chitravathi Pumped Storage Hydro-Electric Project
(vii) Name of Project	Sri Sathya Sai District of Andhra Pradesh (2*250=500 MW)
(viii) Name of Company/Organization	M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd (NREDCAP)
(ix) Location of Project (District, State)	SRI SATHYA SAI, ANDHRA PRADESH

(x) Issuing Authority

MoEF&CC

(xi) Applicability of General Conditions as per
EIA Notification, 2006

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 Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance to the project for Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapur and Sri Sathya Sai, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP).
5. The above-mentioned proposal has been considered by the EAC in its 48th meeting held on 26th -27th June, 2023. 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 or through the following web link [click here](#).
6. The brief about configuration of Proposed Project as submitted by the Project Proponent in Form-1 (Part A, B and C)/ EIA & EMP Reports / presented during 48th meeting held on 26th -27th June, 2023 are annexed to this EC as **Annexure 3**.
7. The sectoral Expert Appraisal Committee in its 48th meeting held on 26th -27th June, 2023 considered the proposal, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance.
8. 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 project for Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapur and Sri Sathya Sai, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP), 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.
9. 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.
10. 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.
11. 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.
12. 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.

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 perational 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.

14. This issues with the approval of the Competent Authority

Copy To

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, NewDelhi - 110 001.
2. The Chairman, Central Electricity Authority, SewaBhawan, R. K. Puram,New Delhi - 110 066.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office(SZ), Kendriya Sadan, IVth Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore-560034 (Karnataka)
4. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, **Hyderabad** (Andhra Pradesh)
5. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** – 32
6. The Member Secretary, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise

Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 010
 7. District Collector, District Ananthapuramu, Andhra Pradesh
 8. Guard file/Monitoring file/ Website of MoEF&CC.

Annexure 1

Specific EC Conditions for (River Valley/Irrigation projects)

1. Disaster Management:

S. No	EC Conditions
1.1	<ol style="list-style-type: none"> 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. 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 species for restoration of ecology and environment of the project site area. 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. 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.

2. Environmental management and Biodiversity conservation:

S. No	EC Conditions
2.1	<ol style="list-style-type: none"> 1. The water of rainfall yield of self-catchment of the reservoir shall be released to downstream through body of dam/ barrage/ embankment etc. 2. The water for filling of reservoir/ recoupment of evaporation and recirculation losses shall be met from a source other than the rainfall yield of catchment of non-perennial stream/ nallah. 3. 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. The contract clause limiting the No. of vehicles used during excavation and transportation shall followed scrupulously and the same shall informed to the ministry. 5. Ambient Air Quality Monitoring Stations for real time data to be installed at project site, shall be displayed at project site and its report to be submitted to IRO, MoEF&CC. 6. 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. 7. 10000 plants shall be planted around the muck disposal area and the survival of plants shall be submitted with the 6 monthly compliance report.

S. No	EC Conditions
	<p>8. Watershed development plan shall be prepared in consultation with ICAR/expert Govt. institute and be implemented within 10 km radius of the projects. Implementation status be submitted in the 6 monthly compliance report.</p> <p>9. Plant Nursery for Red Sanders (Pterocarpus santalinus) shall be developed and 1000 Red Sanders saplings/year shall be planted along the watershed areas within 10 km radius of the project.</p> <p>10. Environmental Management Cell under supervision of a Environment Manager having post graduate qualification in Environmental Sciences/Environmental Engineering shall be established. The Environment Manager will directly report to Plant head.</p>

3. Miscellaneous:

S. No	EC Conditions
3.1	<p>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.</p> <p>2. Bio-Gas plant (Deenn Bandhu Model of Bio-Gas) shall be installed in the Project affected area for Utilizing Cattle waste (Cow Dung) into renewable source of fuel.</p> <p>3. RO plant shall be installed in the nearby 5 villages and the maintenance shall be done by the project Authorities.</p> <p>4. Solar panel be provided to the families living in rural areas within 10 km radius of project.</p> <p>5. The compliance of above conditions shall be monitored by IRO, MoEF&CC and regularly site visit thrice in year. The compliance report of IRO shall be regularly submitted to MoEF&CC.</p> <p>6. 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.</p> <p>7. An institutional mechanism to be developed to ensure the preference of jobs to PAFs and also a policy for preferential treatment for award of sundry works to the PAFs and their dependents.</p>

4. Socio-economic:

S. No	EC Conditions
4.1	<p>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.</p> <p>2. The area is ecologically fragile therefore Project Proponent shall ensure that safety measures as mentioned in the EMP shall be fully implemented.</p>

Standard EC Conditions for (River Valley/Irrigation projects)

1 Statutory compliance

S. No	EC Conditions
1.1	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).
1.2	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.
1.3	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.
1.4	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
2.1	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.
2.2	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.
2.3	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.
2.4	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).
2.5	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).
2.6	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.
2.7	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.
2.8	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

S. No	EC Conditions
	be submitted to the Regional Office, MoEF & CC and to the CWC on weekly basis.
2.9	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).
2.10	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.
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 it 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 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.

S. No	EC Conditions
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 involment of the whole community be ensured for discipline use of available water for irrigation purposes

10 Miscellaneous

S. No	EC Conditions
10.1	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.
10.2	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.
10.3	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.
10.4	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.
10.5	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.
10.6	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.
10.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.8	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.
10.9	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).
10.10	Concealing factual data or submission of false/fabricated data may result in revocation of this

S. No	EC Conditions
	environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
10.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.13	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.
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.

Annexure 2

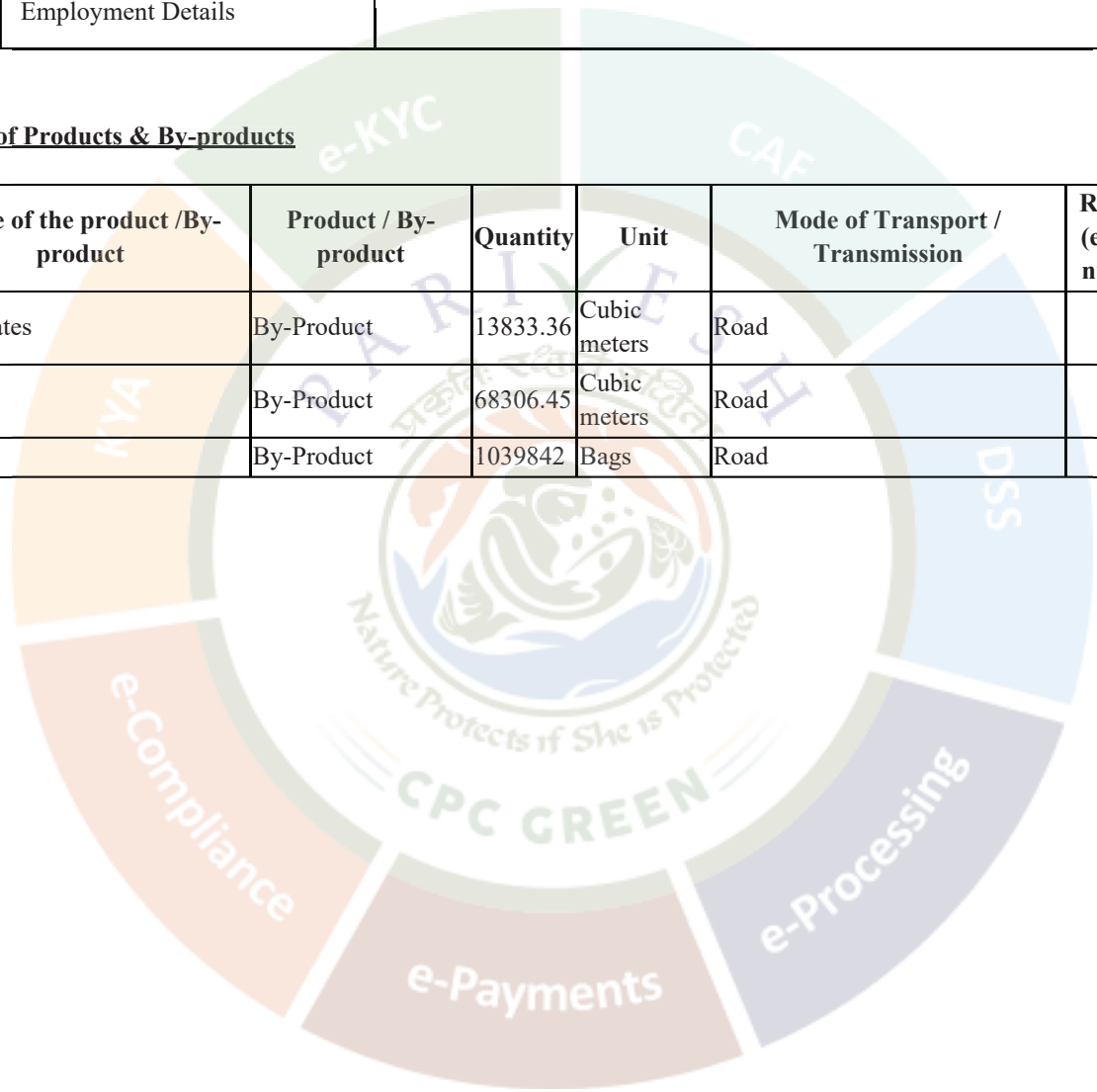
Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	Chitravathi Pumped Storage Hydro-Electric Project Sri Sathya Sai District of Andhra Pradesh (2*250=500 MW)	
b.	Latitude and Longitude of the project site	14.46368817190383,77.8373776343382 14.67101823890764,78.04776876599075	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	0
		Forest Land (B)	136
		Total Land (A+B)	136.0
d.	Date of Public Consultation	Public consultation for the project was held on	

S. No.	Particulars	Details
e.	Rehabilitation and Resettlement (R&R) involvement	NO
f.	Project Cost	240662
g.	EMP Cost	1923.08
h.	Employment Details	

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Aggregates	By-Product	13833.36	Cubic meters	Road	
Sand	By-Product	68306.45	Cubic meters	Road	
Cement	By-Product	1039842	Bags	Road	



The salient features of the project

The Project Proponent and the accredited Consultant M/s. Aarvee Associates Architects Engineers & Consultants Pvt. Ltd., Hyderabad. made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for grant of environmental clearance to the project for Chitravathi (Open loop) Pumped Storage Hydro-Electric Project (500 MW) in an area of 136 ha at Village Peddakotla, Tehsil Tadimarri, District Ananthapuramu, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP).
- ii. The project proposal was considered by the Expert Appraisal Committee (Hydro River Valley Sector) in its 17th meeting held during 27/09/2021 and recommended for grant of Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter No.J -12011/12/2021-IA.I; dated 18/10/2021.
- iii. The project is listed at S.N. 1 (c) of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- iv. The proposed project is a New Construction project with a total area of 136 Ha. The land use in the project area is Unused waste lands. The proposed pumped storage project will have Proposed upper reservoir, Underground structures, Project facilities & Roads. The land use in the project area is Unused waste land and barren lands. Land required for project components 1. Land required for Upper Reservoir and Embankment: 43.71 Ha, Land required for Underground Structure:18.23 Ha. Land required for Project Facilities including plantation: 62.56 Ha. The proposed project does not have any forest land. Project will develop greenbelt in an area of 33 % i.e.,4,60,000 m² out of total area of the project. Project will be comprised of two reservoirs. The existing Chitravathi balancing reservoir will be the lower reservoir and a new reservoir to be constructed on the hilltop with embankment of maximum height 57.3m to create the desired storage capacity and used cyclically for energy storage and discharge. Evaporation losses if any will be recouped periodically. This Project envisages non-consumptive re-utilization of 0.216 TMC of water for recirculation among these two reservoirs.
- v. The estimated project cost is Rs. 2,406.42 cr. Total capital cost earmarked towards environmental pollution control measures is Rs 1,923 Lakhs and the Recurring cost (operation and maintenance) will be about Rs. 5.5 lakhs per annum.
- vi. Total Employment will be 220 personnel. Industry proposes to allocate Rs. 2 Cr towards CER (as per Ministry's OM dated 30.09.2020).
- vii. Approval of NOC from GoAP & GoK and an Undertaking from NREDCAP declared vide their letter no. NREDCAP/WE/PSP/Chitravathi/2023, Dated 23.01.2023 suggest that water for utilizing the solar power generated during the daytime will be utilized for pumping of water from lower reservoir to upper reservoir (6.26 MCM (0.22 TMC) i.e. 2.2% of storage capacity of existing lower reservoir Capacity of 283.1MCM (10TMC)) will be utilized.
- viii. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River/ water body Chitravati is flowing at a distance of 431.26 m in East direction.

- ix. Ambient air quality monitoring was carried out at 5 locations during Winter, Pre-Monsoon and Monsoon from December 2021 to November 2022 and the baseline data indicates the ranges of concentrations as: PM10 (49.5-34.6µg/m3), PM2.5 (23.3-16.5µg/m3), SO2 (4.9-4µg/m3) and NO2 (14.4-7.8µg/m3). No any adverse impact on Air quality during the operation phase.
- x. The project would generate substantial quantity of muck from the excavation of various structures. The total quantity of muck likely to be generated from excavation including construction of roads is about 4.4 Mcum. However, after the utilization of muck for different project components and also considering the swell factor total estimated quantity to be disposed of is about 3 MCum. An area of 30 Ha has been earmarked downstream of the existing reservoir area. The total cost of the project is 2406.62 Cr.
- xi. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 06.05.2023. The main issues raised during the public hearing are related to employment opportunities.
- xii. Status of Litigation Pending against the proposal, if any. Not Applicable
- xiii. The silent features of the project are as under: -

Project details:

Name of the Proposal	Chitravathi Pumped Storage Hydro-Electric Project Sri Sathya Sai District of Andhra Pradesh (2*250=500 MW)
Location (Including coordinates)	State: Andhra Pradesh District: Sri Sathya Sai. The geographical coordinates of the proposed upper reservoir are at Lat. N- 14° 34' 26.74" and Long. E- 77° 56'7.20" and for existing lower reservoir are at Lat. N-14° 33'41" and Long. E-77° 57'32".
Inter- state issue involved	No issue
Seismic zone	II

Category details:

Category of the project	A
Provisions	-
Capacity / Cultural command area (CCA)	500 MW
Attracts the General Conditions (Yes/No)	No
Additional information (if any)	-

Electricity generation capacity:

Powerhouse Installed Capacity	500 MW
Generation of Electricity Annually	941.81 MU/year
No. of Units	2

Additional information (if any)	-
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EC Details:

Cost of project	2406.62 cr
Total area of Project	136
Height of Dam from River Bed (EL)	EL 495 m
Length of Tunnel/Channel	300 m
Details of Submergence area	51 Ha
Types of Waste and quantity of generation during construction/ Operation	Muck waste, 5.13 Mcum
E-Flows for the Project	A certain Environmental Flows is to be maintained in the downstream by releasing of the required water quantity as follows: <ul style="list-style-type: none"> • Monsoon Season- May to September - 30% of the average flows during 90 % dependable year. • Non-monsoon Non lean Season- October & April - 25% of the average flows during 90% dependable year. • Lean Season- November to March - 20% of the average flows during 90% dependable year.
Is Projects earlier studies in Cumulative Impact assessment & Carrying Capacity studies (CIA&CC) for River in which project located. If yes, then e) E-flow with TOR /Recommendation by EAC as per CIA&CC study of River Basin. f) If not the E-Flows maintain criteria for sustaining river ecosystem.	

Muck Management Details:

No. of proposed disposal area/(type of land-Forest/Pvt. land)	1 site of 30 Ha
Muck Management Plan	Details of muck management plan is provided in EMP.
Monitoring mechanism for Muck Disposal	The muck disposal plan along with Engineering and biological measures; monitoring and compliance; and financial requirements are detailed in the EIA report.

Land Area Breakup:

Private land	0
Government land	136 Ha (Total required)
Submergence area/Reservoir area	51 Ha
Land required for project components	1. Land required for Upper Reservoir and Embankment: 43.71 Ha 2. Land required for Underground Structure: 18.23 Ha 3. Land required for Project Facilities including plantation : 62.56 Ha
Additional information (if any)	-

Presence of Environmentally Sensitive areas in the study area

Forest Land/ Area/ Environmental Sensitivity Zone	Protected	Yes/No	Details of Certificate/letter/Remarks
Reserve Forest/Protected Forest Land		No	
National Park		No	
Wildlife Sanctuary		No	

Court case details:

Court Case	No case
Additional information (if any)	-

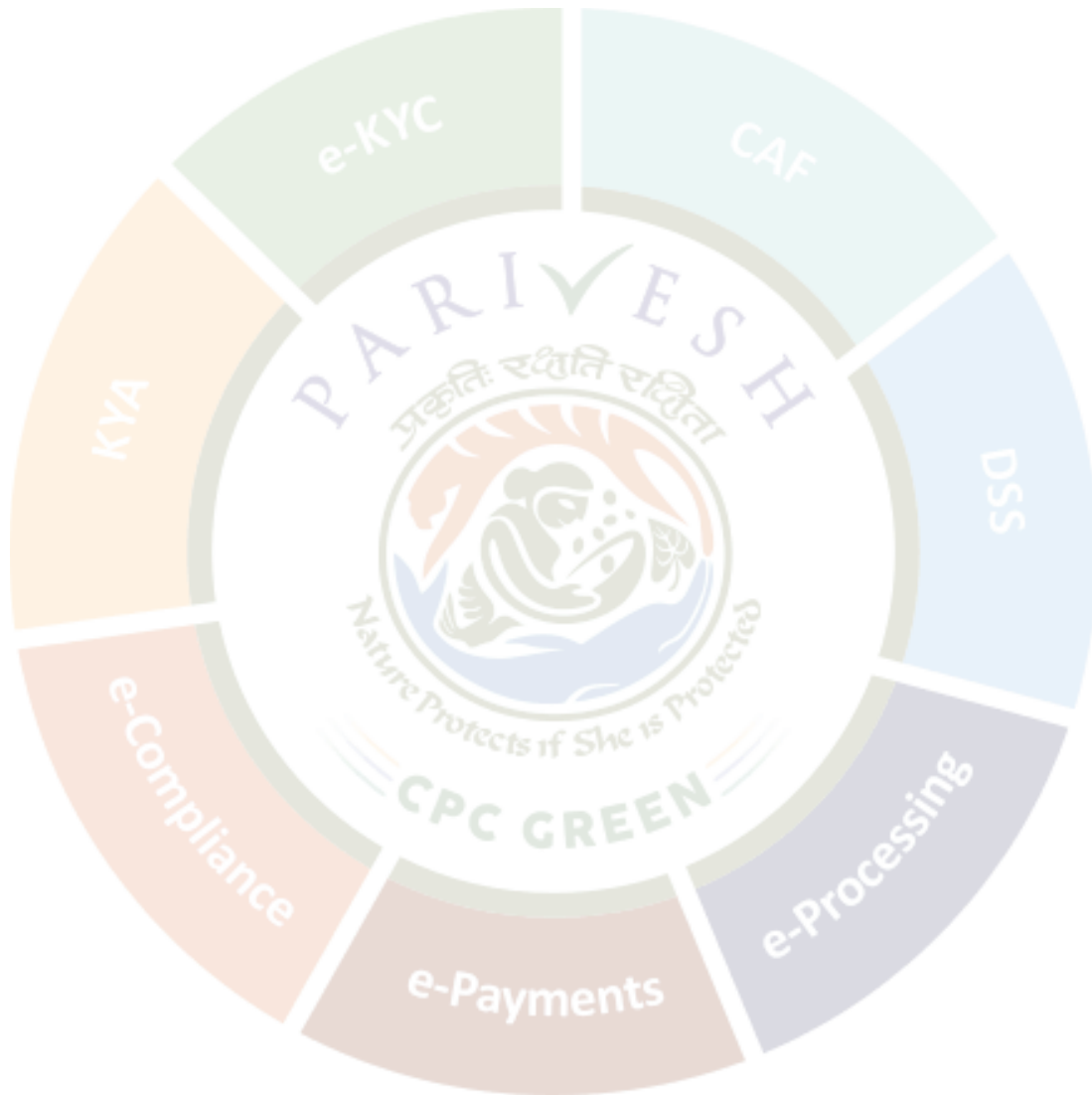
Affidavit/Undertaking details:

Affidavit/Undertaking	Attached as Annexures with the EIA report.
Additional information (if any)	

Miscellaneous

Particulars	Details
Details of consultant	M/s. Aarvee Associates Architects Engineers & Consultants Pvt. Ltd., Hyderabad
Project Benefits	1. Increase productivity attributable to project 2. An estimated amount of 201.24 cr of benefit due to project

Status of other statutory clearances	--
R&R details	No R&R activity
Additional detail (If any)	-



Validity unknown

Digitally Signed by : Yogendra Pal Singh
Member Secretary, MoEFCC (EC)

Date: 28/08/2023

