



सत्यमेव जयते

File No:J-12011/16/2021-IA.I (R)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 04/05/2026



To,

Mr. M Kamalakar Babu
M/s. NEW & RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA
PRADESH LIMITED
#12-464/5/1, RIVER OAKS APARTMENT, CSR KALYANA MANDAPAM ROAD, TADEPALLI,
GUNTUR DISTRICT, AP STATE , GUNTUR, ANDHRA PRADESH, CSR KALYANA
MANDAPAM ROAD, 522501
vc@nredcap.in

Subject: Transfer of Environmental Clearance (EC) for Gandikota Pumped Storage Project (1000 MW) in an area of 254.32 Ha located at Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh from 'M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)' to 'M/s Adani Renewable Energy Fifty One Limited' - Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/RIV/562600/2026 dated 22/01/2026 and documents submitted for transferring the Environmental Clearance (EC) dated 31.07.2025 of Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh from 'M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)' to 'M/s Adani Renewable Energy Fifty One 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.	EC25A0000AP5772405T
(ii) File No.	J-12011/16/2021-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	Gandikota Pumped Storage Project (1000 MW)
(viii) Location of Project (District, State)	Y.S.R., ANDHRA PRADESH

(ix) Issuing Authority	MoEF&CC
(x) EC Date	14/04/2026
(xi) Details of Transferee	Adani Corporate house, Shantigram, S G Highway, Khodiyar, Daskroi, AHmedabad,Ahmedabad,438,24,382421 NEW & RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA PRADESH LIMITED, #12-464/5/1, RIVER OAKS APARTMENT, CSR KALYANA MANDAPAM ROAD, TADEPALLI, GUNTUR DISTRICT, AP STATE ,Tadepalli,506,28,CSR KALYANA MANDAPAM ROAD,522501
(xii) Details of Transferor	

3. In view of the particulars given in the Para 2 above, the project proposal inter-alia including Form-7 were submitted to the MoEF&CC under the provision of Para 11 of the EIA notification 2006 and its subsequent amendments, which can be accessed on PARIVESH portal by scanning the QR Code above.

4. In the current proposal, it has been noted that the transfer the Environmental Clearance (EC) dated 31.07.2025 of Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh from 'M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)' (CIN: U40108AP1969SGC001295) to 'M/s Adani Renewable Energy Fifty One Limited' (CIN: U35105GJ2023PLC146936).

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

- i. No Objection Certificate/ permission from transferor company M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) vide letter dated 30.1.2025, for execution of 1000 MW Gandikota PSP Project through M/s Adani Renewable Energy Fifty One Limited, which is 100 % subsidiary of M/s Adani Green Energy Limited.
- ii. Undertaking on non-judicial stamp no. IN-GJ74553980549702X signed on dated 26.12.2025 by M/s Adani Renewable Energy Fifty One Limited stated that they undertake to comply with all the Environment Safeguards/the terms and conditions of the Environment clearance granted by MoEF&CC dated 31.07.2025.
- iii. Certificate of Incorporation of M/s Adani Renewable Energy Fifty One Limited' with Corporate Identification Number (CIN): U35105GJ2023PLC146936 dated 13.12.2023.
- iv. Certificate of Incorporation of M/s New and Renewable Energy Development Corporation of Andhra Pradesh Limited with Corporate Identification Number (CIN): U40108AP1969SGC001295 dated 20.05.2011.
- v. A letter dated 21.02.2026 to Andhra Pradesh Pollution Control Board requesting to transfer the Consent to Establish (CTE) to M/s Adani Renewable Energy Fifty One Limited, submitted dated 06.02.2026.

6. The Project Proponent submitted that as per the Government of Andhra Pradesh G.O. Ms. No. 12 dated 29.06.2022, NREDCAP was designated as the nodal agency for facilitating single-window clearances for Pumped Storage Projects and accordingly initiated and coordinated all statutory processes for the 1000 MW Gandikota PSP. The Terms of Reference (ToR) for the project was granted by MoEF&CC on 04.01.2022, and the EC proposal was subsequently appraised by the Expert Appraisal Committee (EAC) in its 5th meeting held on 19-20 December 2023, wherein the project was recommended for EC subject to conditions. However, issuance of EC was conditional upon obtaining Stage-I Forest Clearance (FC) due to diversion of forest land, which was granted on 20.06.2025 for 139.38 ha. Following submission of responses to ADS, MoEF&CC issued the EC on 31.07.2025. Meanwhile, NREDCAP, vide letter dated 30.01.2025, permitted execution of 1000 MW Gandikota PSP Project through M/s Adani Renewable Energy Fifty One Limited, which is 100 % subsidiary of M/s Adani Green Energy Limited. Subsequently, upon receipt of the EC, the proposal for transfer of EC was submitted on the PARIVESH Portal on 21.01.2026 for further necessary action.

7. The Ministry has examined the application and hereby accept the transfer of Environmental Clearance (EC) dated 31.07.2025 of Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh from 'M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)' to 'M/s Adani Renewable Energy Fifty One 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-12011/16/2021-IA.I (R) dated 31-07-2025 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 name of the addressee with respect to above mentioned project in the Environmental Clearance dated 31-07-2025 shall be substituted by the following:

M/s Adani Renewable Energy Fifty One Limited
Adani Corporate House, Shantigram,
Nr. Vaishno Devi Circle, S. G. Highway,
Khodiyar, Ahmedabad – 382 421, Gujarat, India
(CIN: U35105GJ2023PLC146936)

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

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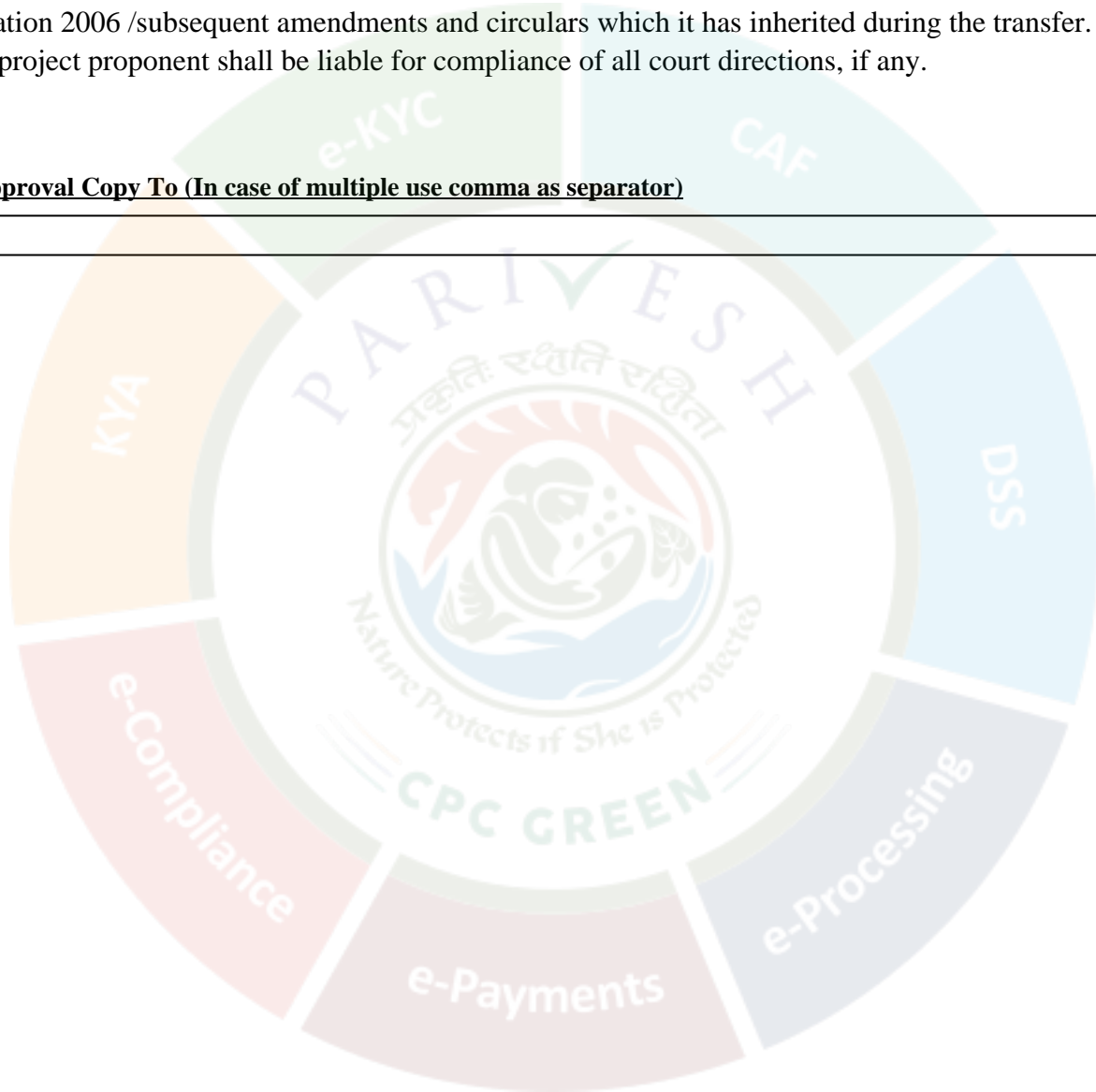
1. The Secretary, Ministry of Power, Sharm Shakti Bhawan, Rafi Marg, New Delhi 110 001
2. The Chairman, Central Electricity Authority, Sewa Bhawan R.K. Puram, New Delhi - 110 066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD Cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
4. The Principal Chief Conservator of Forests & Head of Forest Force, Aranya Bhavan, K.M. Munshi Road, Nagarampalem, Guntur – 522 004, Andhra Pradesh.
5. The Principal Secretary (DF S&T)Energy Forests and S&T Dept., D-Block, 2nd floor, A.P. Secretariat, Government of Andhra Pradesh, Hyderabad-500 022 Andhra Pradesh.
6. The DDG, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Green House Complex, Vijayawada – 520010
7. The Chairman, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamalavari Street, Kasturibaipet, Vijayawada – 520 010
8. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
9. Guard File/Record 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-12011/16/2021-IA.I (R) dated 31-07-2025 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.

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

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File No: J-12011/16/2021-IA.I (R)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 31/07/2025



To,

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, GUNTUR, ANDHRA PRADESH, CSR KALYANA MANDAPAM ROAD, 522501
we@nredcap.in

Subject: Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) - Environmental Clearance (EC) - reg.

Sir/Madam,

This has reference to your online proposal no. IA/AP/RIV/447249/2023 dated 9th October, 2023 submitted to the Ministry for grant of environmental clearance to the project for Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP).

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A0000AP5212509N
(ii) File No.	J-12011/16/2021-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
(vii) Name of Project	Gandikota Pumped Storage Project (1000 MW) NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA PRADESH LTD (NREDCAP)
(viii) Name of Company/Organization	
(ix) Location of Project (District, State)	Y.S.R., ANDHRA PRADESH

(x) Issuing Authority

MoEF&CC

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

No

3. The project/activity is covered under category A of item 1 (c) 'River Valley projects' of the Schedule to the Environmental Impact Assessment Notification, 2006 and requires appraisal at Central level by the sectoral EAC in the Ministry.

4. The Project Proponent and the accredited Consultant M/s WAPCOS, New Delhi, made a detailed presentation on the salient features of the project and informed during the EAC meetings that:

i. **Location:** The proposed Gandikota Pumped Storage Project is located near K Bommepalli & Nenanthala Villages, Kondapuram mandal of YSR Kadapa district of Andhra Pradesh. The project area falls in the toposheet number 57J/1 and bounded by North latitudes 14°46' to 14°50' and East longitudes 77°10' to 78°16'.

ii. The proposed project planned by using the existing Gandikota Reservoir as lower reservoir for the Pumped storage scheme with Full Reservoir Level of 212 m and Minimum draw down level of 202.9 m. A new upper reservoir of composite bund and pit type will be developed. The optimum possible live storage capacity for pumped storage scheme required is 8.592 MCM, which has been finalised based on the topography and geology of the upper dam. The proposed project will generate 1000 MW of power. The Gandikota reservoir with a Gross Storage of 26.85 TMC (760.02 MCM) acts as a balancing reservoir on Pennar river. It receives water from self-catchment together with water from Chitravathi River.

iii. **Land requirement:** The total land to be acquired for the project is 270.11 ha. The forest land and private land to be acquired is 151.18 ha and 20.38 ha. About 98.55 ha of revenue land shall also be acquired.

iv. **Hydrology:** The lower reservoir is existing as Gandikota Reservoir which is the primary source of one time water requirement for proposed upper reservoir during daily pumping and generation cycle. Assessment for availability of water in lower existing reservoir has been done and concurrence on Hydrological aspects of the project has been obtained from Hydrology (south) Directorate vide CWC U.O. 7/AP-106/2021-Hyd(S)/221 Dated 16.12.2021.

v. **Ecologically Sensitive Areas:** There is no wildlife sanctuary, Biosphere reserve or any Ecological Sensitive Zone identified within the 10 km radius of the project areas

vi. **Public Hearing: 18.08.2023 at Tirumalayyapalli (Village)** by Joint collector and Addl. Dist. Magistrate. Main issued was Employment and Infrastructure development

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

Project Details

Name of the Proposal	Gandikota Pumped Storage Project (1000 MW)
Proposal No.	IA/AP/RIV/447249/2023
Location (Including Coordinates)	Kondapuram (M), YSR District Lat. N 14° 48' 38" and Long. E 78° 15' 30".
Company's Name	New & Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP)
Accredited Consultant and certificate no.	WAPCOS LIMITED, NABET/EIA/21124/RA0222
Project location (Coordinates) /River/Reservoir	Lat. N 14° 48' 38" and Long. E 78° 15' 30".
Inter- state issue involved	No
Proposed on River/ Reservoir	Reservoir

Category details:

Category of the project	A
Capacity / Cultural command area (CCA)	1000 MW
Attracts the General Conditions (Yes/No)	No

EC Details:

ToR Proposal No.	IA/AP/RIV/235841/2021
EAC meeting date	15.11.2021
ToR Letter No.	F.No. J-12011/16/2021-IA.I(R)
ToR grant Date	04.01.2022
Cost of project	5017.48 Crore (Incl. IDC)
Total area of Project	270.11 ha.,
Height of Dam from Bed (EL)	21.5m
Details of submergence area	NA, as proposed upper reservoir is not on any nala
District to provide irrigation facility (if applicable)	Nil
Details of tunnels on upper level & lower level and length of canal (if applicable)	Two Underground water conductor system in the form of Tunnel Details of WCS: Intake Tunnel: 2 No. x 8.90m dia. X 51m (L) Inclined Pressure Shaft: 2 No. x 7.00m dia. X 443m (L) Unit Pressure Shaft: 4 No. x 5.50m dia. X 73m (L) Tail Race Tunnel: 2 No. x 8.90m dia. X 1267m (L)
No. of affected Village.	02
No. of Affected Families	07
Project Benefits	Power Generation of 1872.5 MU annually, Up-liftment of Socio economic condition of Study area villages
R&R details	Yes, Yet to start
Catchment area/ Command area	Upper Reservoir is proposed as a table top artificial pond fed by lower reservoir does not have regulated flow of water and no catchment area is being intercepted. Hence, for upper reservoir no catchment area treatment is required. Lower reservoir is existing and in operation since 2013.
Types of Waste and quantity of generation during construction/ Operation	Waste water: 0.17 MLD Solid waste: 0.57 t/day
Material used for blasting and its Composition as per DGMS standards.	Will be finalised during pre-construction market survey
E-Flows for the Project	NA
Is Project earlier studied in Cumulative Impact assessment & Carrying Capacity studies(CIA&CC) for River in which project located. If yes then a) E-flow with TOR/Recommendation by EAC as per CIA&CC study of River Basin. b) If not the E-Flows maintain criteria for sustaining river ecosystem.	NA
Details on provision of fish pass	NA
Project benefit including employment details (no	During construction phase: 1600

of employee)	During operation phase: 100
Area of Compensatory Afforestation (CA) with tentative no of plantation.	156.62 ha
Previous EC details	NA
EC Compliance Report by R.O, MOEF&CC	NA

Electricity Generation capacity

Powerhouse Installed Capacity	1000MW
Generation of Electricity Annually	1872.49 MU
No. of Units	04 of 250 MW each

Muck Management Details:

No. of proposed disposal area/ (type of land-Forest/Pvt land)	Government land – 57.37 Ha., Forest land – 6.80Ha.,
Cross section of proposed muck area, Height of muck with slope.	MA 1: 10m height in trapezoidal shape and 45 degree slope MA 2A; Deposition on natural slope upto 12 height MA 2B: Deposition on natural slope upto 10 height MA 3: Deposition on natural slope with varying height from 15m to 0m
Distance of muck disposal area (location), from muck generation sources (project area)/River, HFL of proposed muck	MA1: Approx. 1 km. MA2A&B: Approx. 05 km. MA3: Approx. 8 km.
Total Muck Disposal Area	64.17 ha.,
Estimate Muck to be generated	6.99MCM (actual quantity will be less depending upon usage during construction activities) Considering 30% expansion during transportation and dumping)
Transportation	By road
Monitoring mechanism for Muck Disposal	Enclosed in EIA/EMP report

Land Area Breakup:

Private land	20.38Ha.,
Government land/Forest Land	139.38 Ha., Forest- 94.56 Ha., Government land
Submergence area/Reservoir area	Reservoir area in reserve forest land
Land required for project components	143.42Ha.,

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, Reserve Forest	Application submitted for FC, In progress Proposal No. FP/AP/OTHERS/407446/ 2022, Dated: 23.11.2022
National Park	No	
Wildlife Sanctuary	No	
Archaeological sites	No	

monuments/historical temples etc		
Additional information (if any)	No	

Availability of Schedule-I species in study area: Yes

Public Hearing (PH) Details

Advertisement for PH with date	17.07.2023
Date of PH	18.08.2023
Venue	Tirumalayyapalli (Village)
Chaired by	Joint collector and Addl. Dist. Magistrate
Main issues raised during PH	Employment and Infrastructure development

Court cases details: nil.

5. The sectoral Expert Appraisal Committee considered the proposal in its 2nd and 5th meeting held on 26th October, 2023 and 19th -20 December, 2023. The EAC after examining the information submitted and detailed deliberations **recommended** the proposal for grant of Environmental Clearance for setting up of Gandikota Pumped Storage Project of capacity 1000 MW in an area of 270.11 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP), under the provisions of EIA Notification, 2006 and as amended subject to compliance of applicable standard EC conditions along with the certain additional environmental safeguard conditions.

6. The Stage - I FC granted by the Ministry vide letter dated 20.06.2025 shows diversion of 139.38 Ha forest land only. The PP has submitted the land requirement as per details given below:

Comparison of Land Requirement after Stage-1 FC Clearance

S.No.	Land Type	As per EC proposal (ha)	After Stage 1 FC Clearance (ha)
1.	Forest Land	151.18	139.38
2.	Revenue Land	98.55	94.56
3.	Private Land	20.38	20.38
	Total Area	270.11 ha	254.32 ha

7. Based on recommendation of EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for grant of Environmental Clearance to the project for Gandikota Pumped Storage Project of capacity 1000 MW in an area of 254.32 Ha in Village Kondapuram, Tehsil Muddanur, District Kadapa, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP), under the provisions of EIA Notification, 2006 and as amended along with the applicable standard EC conditions along with the additional environmental safeguard conditions mentioned at Annexure 1.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary.

9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. 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. 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.

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. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, **Hyderabad** (Andhra Pradesh)
4. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SZ), Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34
5. Head of the Office, Ministry of Env., Forest and Climate Change, Sub-Office, Vijayawada, Green House, Gopalareddy Road, Vijayawada – 520010, Andhra Pradesh
6. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** – 32
7. 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
8. District Collector, Kadapa YSR District, Andhra Pradesh
9. Guard file/Monitoring file/ Website of MoEF&CC.

Annexure 1

Specific EC Conditions for (River Valley/irrigation Projects)

1. Environmental Management And Biodiversity Conservation:

S. No	EC Conditions
1.1	The water of rainfall yield of self-catchment of the reservoir shall be released to downstream through body of dam/ barrage/ embankment etc.
1.2	The water for filling of reservoir/ recoupment of evaporation and recirculation losses shall be met

S. No	EC Conditions
	from a source other than the rainfall yield of catchment of non-perennial stream/ nallah.
1.3	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
1.4	The contract clause limiting the No. of vehicles used during excavation and transportation shall followed scrupulously and the same shall informed to the ministry.
1.5	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.
1.6	Extensive Plantation of indigenous plant species with 90 % survival rate shall be done within 10 km radius of the project in association with State Forest Department. A time bound action plan shall be prepared in this regard. Plant Survival status report shall be submitted to the IRO along with 6 monthly compliance report.
1.7	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.

2. Disaster Management:

S. No	EC Conditions
2.1	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.
2.2	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.
2.3	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.
2.4	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. Socio-economic:

S. No	EC Conditions
3.1	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

S. No	EC Conditions
	Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
3.2	The area is ecologically fragile therefore Project Proponent shall ensure that safety measures as mentioned in the EMP shall be fully implemented.
3.3	The commitments made by the PP during Public hearing shall be implemented in time bound manner. A time bound implementation plan shall be prepared and submitted before IRO. Implementation status shall be provided to the RO, MoEF&CC in 6 monthly compliance report.

4. Miscellaneous:

S. No	EC Conditions
4.1	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.
4.2	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.
4.3	RO plant shall be installed in the nearby 5 villages and the maintenance shall be done by the project Authorities.
4.4	Solar panel be provided to the families living in rural areas within 10 km radius of project.

Standard EC Conditions for (River Valley/Irrigation projects)

1. Statutory Compliance

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

S. No	EC Conditions
1.6	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 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 Cummulative 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

S. No	EC Conditions
	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 muck disposal arrangements be evolved after carrying out required slope stability analysis.

S. No	EC Conditions
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 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

S. No	EC Conditions
	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 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

S. No	EC Conditions
	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

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Hydro Electric Power	Product	1000	Mega Watt (MW)	Transmission Line	

