

Ref: Pinnapuram/Stage-I Compliance/210414

Dated: 14.04.2021

To,

The Prl. Chief Conservator of Forests (HoFF),
A.P. Forest Dept., Aranya Bhavan,
K.M. Munshi Road, Guntur-522504,
Andhra Pradesh.

Sub: Diversion of 365.66 Ha of forest land from Ghani RF, Kurnool for establishment of Pumped Storage Component of Integrated Renewable Energy Project (1200 MW), Pinnapuram in Kurnool District, Andhra Pradesh being implemented by M/s Greenko Energies Pvt. Ltd.- Submission of compliance report to In-principle (Stage-I) Forest Clearance stipulations- reg.

- Ref: 1. MoEF&CC In-Principle Stage Clearance F.No 8-32/2019-FC dated 23.04.2020.
2. Your Office letter No Rc.No. EFS02/15036/2/2018-FCA SEC-PCCF/FCA-3 dated 28.06.2020.
3. DFO, Kurnool Office letter No Rc.No.1100/2018/H5 dated 18.07.2020.

Dear Sir,

In reference (1) to the above subject matter, the State Govt vide ref (3) above has raised demand note along with directions to submit compliance report to the conditions stipulated in Stage I Forest Clearance letter.


Accordingly, the necessary compliance report to the conditions stipulated in Stage-I Forest Clearance letter is herewith submitted for your kind consideration.

Thanking You,
Yours faithfully
For M/s Greenko Energies Private Limited

Authorised Signatory

Encl: As above

N. Gov. Kone



Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

S.No	Condition	Reply
i	Legal Status of the diverted forest land shall remain unchanged;	It is submitted that, the Legal status of the forest land proposed for the diversion will remain unchanged. (Refer Annexure-1)
ii	User Agency shall submit the approved Detailed Project Report (DPR) through the State Government;	The Detailed Project Report has been submitted to Central Electricity Authority (CEA), Government of India for clearance and is at advanced stage of approval, wherein statutory approvals regarding Planning, Hydrology, Capacity/Power Potential, Design and Safety aspects of the project has been approved by concerned Department of CEA/CWC/GSI/CSMRS. Copy of the DPR submitted to CEA. (Refer Annexure-2A) Further, CEA has accorded permission to start the excavation activities in the project. (Refer Annexure-2B).
iii	The forest compartments (compartment Nos.113, 114, 115, 116 and 117), which are getting adversely affected will be taken care of and afforestation (for improving canopy density from "open" to moderately dense forest) will be taken up by the Forest Department at the cost of User Agency only to stabilize the rim of the reservoir i.e., 100 mts from the periphery of the HFL. Rest of the forest areas of affected compartments shall be taken up for improving canopy density through NPV, collected from this project	An amount of Rs 3,19,25,300 (three Crore Nineteen lakhs twenty-five thousand and three hundred only) towards scheme for afforestation (for improving canopy density from open to moderately dense forest) and Rs 2,53,99,400 (two Crore fifty-three lakhs ninety-nine thousand and four hundred only) towards gap plantation and soil moisture conservation activities (total Rs 5,73,24,700) has been deposited on dated 02.02.2021 (UTR No. SBINR52021020209356492 in Ad-hoc CAMPA account of Andhra Pradesh. (Refer Annexure-3)
iv	User agency will allow use of road infrastructure within project area to common public	Will be complied, User agency will allow the common public into the alternate road proposed under diversion. (Refer Annexure-4)
v	As per site inspection report, over an extent of 8.15 Ha within the 408.68 ha of non-forest land surveyed for compensatory afforestation are in the nature of streams/cart road/government	The land (8.15 Ha) has been suitably marked on map and submitted in the forest diversion proposal. (Refer Annexure-5)

Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

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	lands etc. Hence, this 8.15 Ha area shall be demarcated suitably	
vi	The User Agency shall raise avenue plantation on either side of the road proposed in the proposal, at the project cost;	Avenue plantation on either side of the road proposed will be undertaken under the Green Belt provisions of EMP, after completion of the road works. (Refer Annexure-6)
vii	Compensatory Afforestation:	
	a) Compensatory afforestation shall be taken up by the Forest Department over 400.53 ha Non-forest land (land in Mangupalli Village, Sy.no.1 to 65 and Kamireddipadu in Sy.no.3 to 170 Ananthapuram Mandal, of SPSR Nellore District) at the cost of the User Agency. As far as practicable a mixture of local indigenous species will be planted and monoculture of a species has to be avoided.	<p>The DFO, SPSR Nellore prepared the scheme to raise the afforestation on non-forest land i.e., 400.53 Ha. identified in Mangupalli and Kamireddipadu Villages, Ananthapuram Mandal, of SPSR Nellore District for Rs.35,92,00,000/-</p> <p>The cost of the C.A scheme has been deposited through RTGS UTR NO: SBINR52020122904000831, dated 29.12.20 (Refer Annexure-7)</p>
	b) The non-forest land proposed for CA shall be transferred and mutated in the name of Forest Department and notified as RF/PF prior to Stage-II approval. A copy of the original notification declaring the non-forest land under Section 4 or Section 29 of the Indian Forest Act, 1927, or under the relevant section of the State Forest Act as the case may be, will be submitted by the State Government prior to Stage-II approval;	<ul style="list-style-type: none"> • The non-forest land of an extent 62.99 Ha (155.66 Acr) proposed for CA has been transferred and mutated in the name of "Government of Andhra Pradesh (State Forest Department) through Mutation Order No: Rc.B No 30/2021, Mutation date: 30/01/21 & 26/03/2021 (Refer Annexure-8). • Notification of Kamireddypadu Block as protected Forest U/s 24 of A.P forest Act, 1927 is under process with the State Government of A.P

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Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

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viii	The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars if required on the CA land shall be deposited in advance with the Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years;	The cost of the C.A scheme has been deposited through RTGS UTR NO: SBINR52020122904000831, dated 29.12.20 (Refer Annexure-7)
ix	NPV:	
	a) The State Government shall charge the Net Present Value (NPV) for the 365.66 ha forest area to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA No.566 in WP (C) No.202/1995 and as per the guidelines issued by the Ministry vide letters No.5-1/1998-FC (pt.II) dated 18/09/2003, as well as letter No.5-2/2006-FC dated 03/10/2006 and 5-3/2007-FC dated 05/02/2009 in this regard.	It is submitted that, an amount of Rs.22,89,03,160/- (Rupees Twenty two crores eighty nine lakhs three thousand one hundred and sixty only) towards Net Present Value (NPV) in "State CA Fund" of A.P State through e-challan vide application no.5635371040, Dt.14.08.2020 vide UTR No.SBIN220227550707. Copy of the e-challan/payment receipt. (Refer Annexure-9.)
	b) Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.	It is submitted that an undertaking for Payment of additional NPV as per Supreme Court Order (Refer Annexure-9A)



Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

S.No	Condition	Reply
x	The State Government shall submit a certificate certifying that no schemes/programmes with respect to plantation have been proposed or undertaken in the land identified for taking up Compensatory afforestation in last 10 years;	As per the land suitability certificate, the land is free from all sorts of encumbrances and encroachments. The proposed land identified by GEPL is a Non-forest land and that there are no schemes/programmes with respect to plantation have been proposed/undertaken by State Forest Department in the non-forest land identified for the purpose of CA in the last 10 Years. (Refer Annexure-10&10A)
xi	The cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	An amount of Rs 25,72,000 (Twenty-Five Lakhs Seventy-Two Thousand Only) vide cheque no. no 868550 dated 02.02.2021 in favour of DFO , Kurnool towards tree valuation, logging and transportation for the forest area diverted had been deposited to the State Forest Department. Copy of the e-challan/payment receipt (Refer Annexure-11)
xii	Copy of approved Catchment Area Treatment (CAT) Plan, if applicable shall be submitted in accordance to para no.4.8(i) of Forest (Conservation) Act, 1980 Handbook and commensurate funds shall be deposited in the account of CAMPA through on-line portal:	It is submitted that; the Catchment Area Treatment (CAT) plan is not applicable to this proposal. The Government of India has exempted in their letter MoEF & CC No.J-12011/12/2018-IA.IR, Dt.25.09.2018. (Refer Annexure-12)
xiii	The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.	Complied as per MoEF&CC guidelines, necessary FRA certificates have been already obtained from District collector on dated 07.12.2018. The copies of the same were also submitted along with proposals at the time of processing Part-II. (Refer Annexure-13)
xiv	All the funds received from the user agency under the project shall be transferred/deposited to CAMPA fund only through e-portal (http://parivesh.nic.in/)	The Net Present Value of an amount Rs.22,89,03,160/- (Rupees Twenty two crores eighty nine lakhs three thousand one hundred and sixty only)has been deposited in "State CA fund" of the Andhra Pradesh State through e-challan vide application no.5635371040, dt.14.08.2020 vide UTR No.SBIN220227550707. Copy of the e-challan/payment receipt (Refer Annexure-9)
xv	The land identified for the purpose of CA shall be clearly depicted on	The land identified for the purpose of CA has been clearly depicted on a Survey of India topo-sheet in 1:50,000 scale as part of Forest Diversion Proposal.



Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

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	Survey of India topo-sheet of 1:50,000 scale;	(Refer Annexure-14)
xvi	The admissible non-forest land shall be identified for raising compensatory afforestation and the same shall be transferred and mutated in favour of the State Forest Department before issue of the Stage-II clearance. The non-forest land identified for raising Compensatory Afforestation shall be notified by the State Government as Reserve Forest under Section-4 or Protected Forest under Section-29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act, as the case may be, within a period of six months.	The non-forest land of an extent 62.99 Ha (155.66 Acr) in a single patch from the proposed for CA has been transferred and mutated in the name of "Government of Andhra Pradesh (State Forest Department) (Refer Annexure-8).
xvii	The User Agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of Ad-hoc CAMPA of the concerned State through online portal. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years;	The cost of the C.A scheme (Rs.35,92,00,000/-)has been deposited through RTGS UTR NO: SBINR52020122904000831, dated 29.12.20 (Refer Annexure-7).
xviii	At the time of payment of the Net Present Value (NPV) at the then prevailing rate, the User Agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;	It is submitted that, Necessary Undertaking for payment of additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India (Refer Annexure-9A)
xix	The Forest clearance will be for a period coterminous with the lease period specified in the lease agreement. The State Government will submit the lease agreement	It is submitted that UA will follow the terms and conditions specified and approved by the Government in this regard scrupulously.



Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

S.No	Condition	Reply
	document specified in the lease agreement;	
xx	The user agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work. The said R&R Plan will be monitored by the State Government /Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones, if applicable;	<p>With regard to the applicability of the provisions relating to R&R for the Project as per the Section 2 (3) (a) of The Right To Fair Compensation And Transparency In Land Acquisition, Rehabilitation And Resettlement Act, 2013 the Act and its provisions applies in case:</p> <p><u>(a) a private company purchases land, equal to or more than such limits in rural areas or urban areas, as may be prescribed by the appropriate Government, through private negotiations with the owner of the land in accordance with the provisions of section 46; (RFCTLARR 2013 attached).</u></p> <p><u>As AP State Govt. rule (29), "The limits on extent of land beyond which provisions of Rehabilitation and Resettlement under the Act apply, in Cases of purchase by a private company through Private Negotiation with the owner of the land shall be five thousand acres of dry land or equivalent extent of Irrigated Dry or Wet lands in rural areas subject to any further notification as may be notified by Government. However, the provisions of Rehabilitation and Resettlement shall be applicable wherever any habitation is part of such land".</u></p> <ul style="list-style-type: none"> • In view of the above, the total private land proposed to be purchased through private negotiations for the Standalone Pumped storage component of Pinnapuram IRE Project is well within the prescribed limits as specified above. Further the land procured for the Project does not involve any habitation. • Based on the provisions of RFCTLARR, 2013 and Rules issued by the Government of Andhra Pradesh as specified above the provisions relating to Rehabilitation and Resettlement are not applicable for the proposed Project. <p>(Refer Annexure-15 (a&b))</p>



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Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

S.No	Condition	Reply
xxi	The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;	Environmental Clearance has been obtained vide letter no. J-12011/12/2018-IA-I(R) dated 14.07.2020. (Refer Annexure-16)
xxii	The User Agency shall carry out muck disposal at predesignated sites in such a manner so as to avoid its rolling down;	The muck disposal sites have been identified in the Non-Forest Land. Ministry of Environment, Forest & Climate Change (MoEF & CC), IA-Division while granting Environmental Clearance to the Project has duly approved the Muck Disposal Plan. It is submitted that muck disposal will be carried out at pre-designated sites in such a manner to avoid its rolling down. (Refer Annexure 17)
xxiii	The dumping area for muck disposal shall be stabilized and reclaimed by planting suitable species by the user agency at the cost of project under the supervision of State Forest Department. Retaining walls and terracing shall be carried out to hold the dumping material in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the State Forest Department in a time bound manner as per Plan;	Muck disposal plan as approved by MoEF&CC is attached (Refer Annexure 18) It is submitted that the user agency will stabilize and reclaim the dumping area for muck disposal by planting suitable species under the supervision of State Forest Department. Further, user agency will construct retaining walls and terracing to hold the dumping material as proposed under EMP.
xxiv	The State Government and the user agency shall ensure that the trees available between full reservoir level (FRL) and FRL-4 meters are not felled;	Shall be complied. (Refer Annexure 19)
xxv	The User Agency shall undertake afforestation along the periphery of the reservoir;	Rs 3,19,25,300 (three Crore Nineteen lakhs twenty-five thousand and three hundred only) towards scheme for afforestation (for improving canopy density from open to moderately dense forest) (Refer Annexure-3)
xxvi	User Agency shall provide free water for the forestry related projects;	Agreed to provide free water for forest related projects, based on availability. (Refer Annexure-20)
xxvii	No labour camp shall be established on the forest land and the User Agency shall provide fuels preferably alternate fuels to the	Agreed not to establish labour camp(s) in forest land. UA will provide alternate fuels to the workers. (Refer Annexure-21)

Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

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	labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;	
xxviii	The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates;	It is submitted that the boundary of the diverted forest land demarcation on ground is under progress. (Refer Annexure-22)
xxix	The layout plan of the proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal;	Agreed, (Refer Annexure-23)
xxx	The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;	Agreed, (Refer Annexure-24)
xxxi	No damage to the flora and fauna of the adjoining area shall be caused;	Agreed, (Refer Annexure-25)
xxxii	The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department;	Will be evaluated and implemented in consultation with the local forest department wherever required. (Refer Annexure-26)
xxxiii	User Agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities. The plan for plantation and SMC activities will be prepared and submitted to	Rs 2,53,99,400 (two Crore fifty-three lakhs ninety-nine thousand and four hundred only) towards gap plantation and soil moisture conservation activities on dated 02.02.2021 (UTR No. SBINR52021020209356492 in Ad-hoc CAMPA account of Andhra Pradesh.



Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

S.No	Condition	Reply
	MoEF&CC prior to Stage-II Clearance;	(Refer Annexure-3)
xxxiv	The User agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year regularly;	It is submitted that; UA is Agreed to submit the annual self-compliance report. (Refer Annexure-27)
xxxv	The violation of any of the conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the para 1.21 of comprehensive guidelines issued vide this Ministry F.no.5-2/2017-FC dt.28 th March, 2019;	Agreed. (Refer Annexure-28)
xxxvi	Any other condition that the concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife; and	Agreed. (Refer Annexure-29)
xxxvii	The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court order(s) and NGT order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.	Agreed. (Refer Annexure-30)
xxxviii	The compliance report shall be uploaded on e-portal (http://parivesh.nic.in/);	Compliance report has been uploaded in PARIVEASH website.



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Compliance Report to the In-Principle (Stage-I) Forest Clearance conditions stipulated for Pumped Storage Component of Pinnapuram Integrated Renewable Project; Kurnool granted vide letter No. 8-32/2019-FC dated 23-04-2020

In addition to the above, the following conditions also complied.

1	Publish the entire forest clearances granted in verbatim along with the conditions and safeguards imposed by the Central Government in two widely circulated daily newspapers, one in vernacular language and another in English language so as to make people aware of the permission granted to the project proponent for use of forest land for non-forestry purposes.	It is submitted that, the forest clearances granted by the Central Government was published in two widely circulated daily newspapers one in vernacular language i.e. Telugu in Eenadu, dt.18.08.2020 in main edition and another in English language i.e. Indian Express, dt.18.08.2020. (Refer Annexure-31)
2	The copies of the Forest clearances should also be submitted to the Heads of local bodies, Panchayats and Municipal Bodies by the project proponents in addition to the relevant officers of the Government, who in turn has to display the same for 30 days	The copies of the Forest clearance letter have been submitted to the following officers and local bodies. <ol style="list-style-type: none"> 1. Environmental Engineer, Kurnool, AP Pollution Control Board; 2. District Revenue Officer, Kurnool. 3. Executive Officer, Gram panchayat Office, Pinnapuram village, Orvakal Mandal, Kurnool District. 4. Chief Executive Officer, Zilla Parishad, Kurnool 5. Joint Chief Environmental Engineer, Zonal Office, Kurnool 6. General Manager, District Industries Centre, Kurnool 7. Executive Officer, Gram panchayat Office, Bramhanapalli village, Orvakal Mandal, Kurnool District. 8. Thasildar Officer, Panyam Mandal, Kurnool District. (Refer Annexure-32)

Date: 14.04.21
Place: Hyderabad



N. Gopinath
Gopi Krushna Nikku
Authorised Signatory

Annexure-1

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that legal status of the forest land proposed for diversion will be remain unchanged.

Date:


Name: Gopi Krushna N
Authorized Signatory

GREENKO ENERGIES PRIVATE LIMITED

(CIN: U40109TG2000FTC074990)

Phone No. 040-40301000, Fax No. 040-23540287, Email: info@greenkogroup.com

Ref No.: GEPL/PINNAPURAM/2019/01

Date: 29th March 2019

Member (Hydro)
Central Electricity Authority,
Sewa Bhawan, R.K Puram,
New Delhi – 110 066

Sir,

Sub: Techno economic clearance for Standalone Pumped Storage project of Pinnapuram IREP (1200 MW) in Andhra Pradesh – Submission of Compendium of Field Investigations, Alternative Studies, Hydrology & Power Potential Study thereof.

Ref.: GO. Ms No. 24 Received from Energy, Infrastructure & Investment (Power –II) Department, Govt. of Andhra Pradesh dated 19-07-2018

With reference to above it is submitted that Proposed Pinnapuram Integrated Renewable Energy Project (IREP) with Standalone Pumped Storage Project is located in Kurnool District of Andhra Pradesh. Pinnapuram IREP has been conceived as Gigawatt scale integrated project with Solar, Wind and Pumped Storage components all collocated. The Project will integrate the Renewable generation from solar and wind projects with the storage element and provide dispatchable and schedulable Renewable energy to the grid.

Presently Government of AP has allotted this project as 1000 MW Solar, 550 MW Wind and 1200 MW of Standalone Pumped Storage Projects to be developed in the Phase – I with possibility of all three segments of IREP to be enhanced in subsequent stages depending on technical feasibility, site suitability and associated requirements.

All three components of Pinnapuram IREP are in close vicinity therefore power from all three components will be pooled in a common pooling station and will be connected to PGCIL/CTU sub-station at Orvakallu.

This entire project is a self-identified project and is a first of its kind in the country and can supply Schedulable Power on Demand (SPOD) which is dispatchable&schedulable renewable energy to the DISCOMs/Grid to address various requirements. With this configuration of project, we have complete flexibility to supply power which can meet the dynamic needs of DISCOMs/STUs through:

- 1 24 Hours Round TheClock (RTC) Base Load Energy
- 2 18 Hours Base Load Energy as per Demand
- 3 12 Hour Peak Load Energy (6 Hours + 6 Hours)
- 4 Energy Storage Service, Grid Management, Frequency Management & Ancillary Services

*Received
Sewa Bhawan
29/3/19*

GREENKO ENERGIES PRIVATE LIMITED

(CIN: U40109TG2000FTC034990)

Phone No. 040-40301000, Fax No. 040-23540287, Email: info@greenkogroup.com

For developing 1200 MW of Pumped Storage Project, GOAP has given approval for allocation of 1 TMC of water on non-consumptive use basis from Gorakallu Reservoir as per the Industrial Water Supply Policy / guidelines and is subject to guidelines issued by the Irrigation Department. Water requirement for present capacity of 1200 MW with 9 hours of storage is 1.3 TMC and matter has already been taken up with GOAP to enhance the allocation to 1.3 TMC for desired operation of the proposed pumped storage project. Based on discussion with GOAP and advanced stage of processing of our request it is expected that revised allocation will be available to us shortly the DPR is being prepared for 1200 MW capacity and 9Hrs. of storage.

We had initiated work on this project in Nov-2017 when first Pre-feasibility report was prepared and same was submitted to GOAP for allotment of project. Application for grant of TOR was submitted to MOEF in March-2018 and TOR was accorded to us in May-2018 and revised TOR for the increased capacity was accorded to us in September 2018. EIA/EMP studies required for Environment clearance were completed in September 2018 and Public Hearing has been conducted successfully in November 2018. EAC considered the project for grant of Environment Clearance in their Nov meeting held on 27th November and agreed to recommend for grant of clearance.

As Solar and Wind Projects have very low gestation period, the completion period of IREP is being controlled by the construction period of Pumped Storage Project alone. Keeping this in view action was initiated on PSP first of all, we have initiated lot of activities in advance especially on surface and sub surface investigations for establishing the layout of Pumped Storage Project by studying various alternative layouts in consultation with Design Consultants.

Till date we have completed substantial field investigations of activities on the project which are required for finalization of most optimal alternative of the scheme for the preparation of Detailed Project Report.

As required under the procedure for grant of Techno economic clearance a Compendium of Field Investigations, Alternative Studies, Hydrology and Power Potential Studies have been prepared and copy of the same is submitted herewith for your kind perusal and examination please.

List of activities already completed / nearing completion are as below:

- Topographical Survey for the entire project area has been completed
- Pre-Feasibility studies completed
- Surface Geological Mapping is completed
- Land Identification completed
- Geological exploration is in process at site
- Construction material sources have been identified and required quantity is also established
- Site Specific Design Parameter Study is started

GREENKO ENERGIES PRIVATE LIMITED

(CIN: U40109TG2000FTC034990)

Phone No. 040-40301000, Fax No. 040-23540287, Email: info@greenkogroup.com

kindly give us a convenient date for consultation meeting to discuss our proposed project and way forward to complete the Detailed Project Report in time to get the Techno Economic Clearance expeditiously.

Thanking You,

Yours faithfully

For Greenko Energies Private Limited

Authorized Signatory

CC: Chairperson Central Electricity Authority, Sewa Bhawan R.K.Puram Delhi

Encl:

1. Copy of GO received from Govt. of AP
2. Copy of Report of the project



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
जल परियोजना आयोजन एवंअन्वेषणप्रभाग
Hydro Project Planning & Investigation Division

No. 81/3/2020-HPP&I/ 850

Date: 27.05.2020

✓ M/s Greenko Energies Private Limited,
Plot No. 1071, Road No. 44,
Jubilee Hills, Hyderabad-500033,
Telangana.

Sub: Pinnapuram Standalone Pumped Storage Project-request for support for expeditious construction of the project.

Sir,

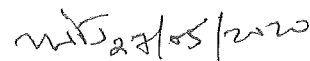
Reference is invited to M/s Greenko letter no. GEPL/ 2019-2020/BD/20191021 dated 21.10.2019 on the above mentioned subject wherein permission has been sought to take up excavation activities on certain critical components including the embankments and the deep seated power house etc. of the above cited Pumped Storage Project (PSP) before accord of concurrence by CEA. It has been stated in the letter that this will compress the construction period of the project by about 6 months, thereby making it competitive with other technologies of energy storage. Subsequently, as desired during the meeting held in CEA on 07.11.2019, M/s Greenko also submitted the quantum and extent of the proposed excavation activities.

In this connection, it is to mention that majority of clearances/ conditional clearances required for submission of DPR for Pinnapuram Standalone Pumped Storage Project have already been accorded including the same by GSI, CSMRS as well as CWC (for civil designs & embankment designs etc.). It is also to add that the issue of taking up excavation activities on certain critical project components had been discussed at length with the other appraising agencies viz. GSI, CSMRS and CWC in the meetings held in CEA and it was noted that no separate permission was being granted by CEA to any developer for start of construction or excavation. As such, it was felt that there should be no need for any such permission in case of Pinnapuram project as well. However, keeping in view the need for faster implementation of the PSP component of the Pinnapuram Integrated Renewable Energy Project for providing

balancing support to its Solar and Wind generator components, thereby, helping in maintaining the overall grid security and stability in general, CEA does not have any objection to the aforesaid advance excavation before concurrence, subject to the following conditions:

- i) Advance excavation would be carried out by M/s GREENKO at their own risk & cost and they would be solely responsible for the loss of men & material, if any, in the process.
- ii) Due permissions/ clearances from all concerned authorities shall be obtained by M/s GREENKO before carrying out any advance excavations.
- iii) Necessary safety and support measures required during excavation, as advised by GSI, shall be ensured by M/s GREENKO.
- iv) The project site would be restored to its original condition by M/s GREENKO, in case the project is abandoned for any reason, whatsoever, at a later date.

Yours Sincerely,



(Manoj Tripathi)

Director (HPP&I)

Copy to:

1. Special Chief Secretary & Head (Energy Dept.), Government of Andhra Pradesh, Secretariat, Hyderabad-500001.
2. Director, EPE Division, DGCO, Geological Survey of India, A-II, Pushpa Bhawan, Madangir Road, New Delhi.
3. Director, CSMRS, Olof Palme Marg, Hauz Khas, New Delhi.
4. Chief Engineer, Designs (NW&S), Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi.
5. SA to Chairperson, CEA
6. SA to Member (Hydro), CEA.

AGENCY COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 02-02-2021	
Agency Name.	GREENKO ENERGIES PRIVATE LIMITED
Application No.	5635371633
MoEF/SG File No.	8-32/2019-FC
Location.	ANDHRA PRADESH
Address.	Plot no-1071, Road No-44, Jubilee Hills, HyderabadHyderabad
Amount(in Rs)	57324700/-
Amount in Words :Five Crore Seventy-Three Lakh Twenty-Four Thousand Seven Hundred Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ANDHRA PRADESH CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150595635371633 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003
<ul style="list-style-type: none"> This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only 	

After making successful payment, User Agencies may
Email: helpdeskcompa@corpbank.co.in



As per DFO's Demad Note Dated 21.12.2020

1. As per condition-iii (improving canopy density) of Stage-I Rs-3,19,25,300/-
2. As per condition xxx-iii (gap plantation & Soil moisture conservation) of Stage-I Rs-2,53,99,400/-

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes to allow the common public into the alternate road proposed under road infrastructure within the project area.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

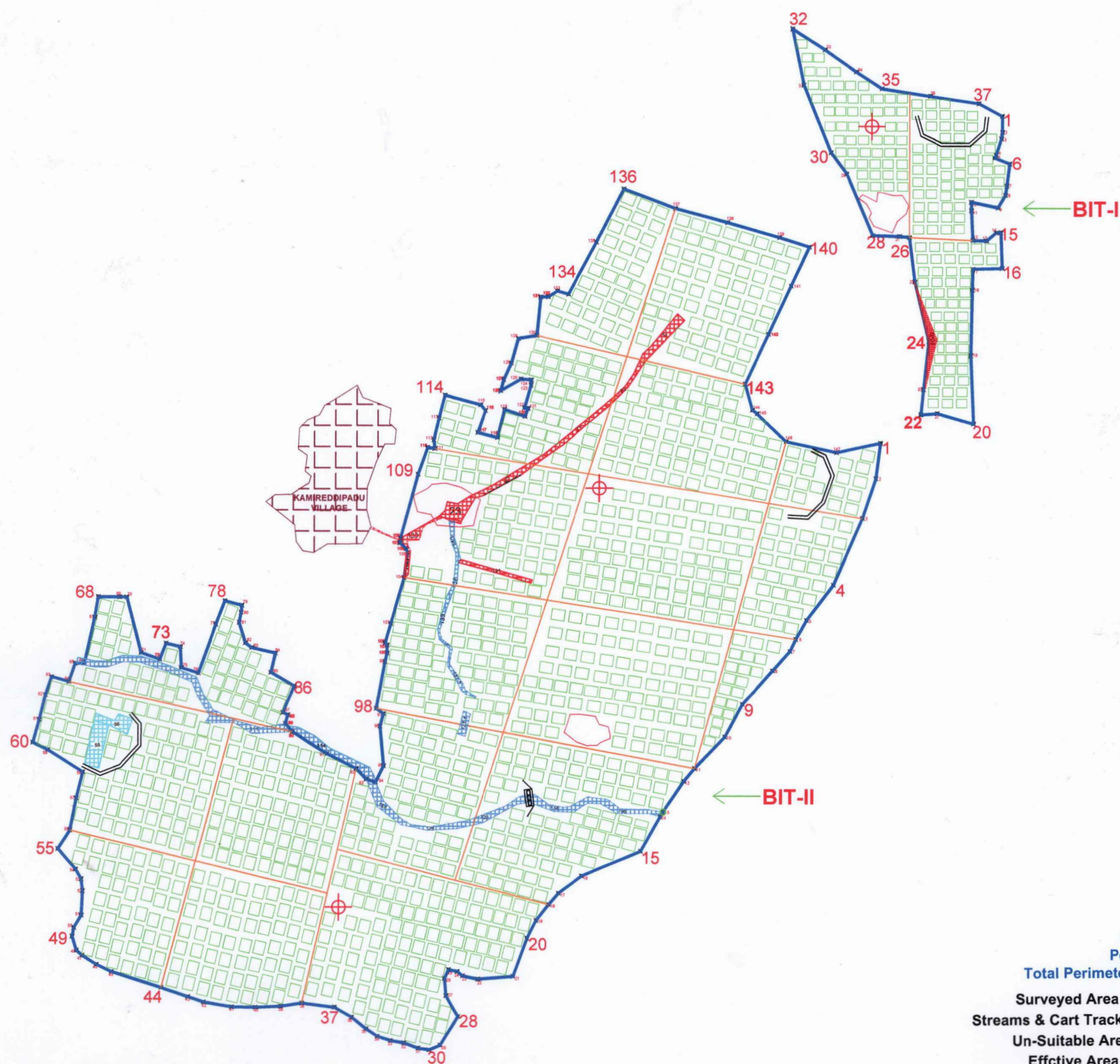
Name: Gopi Krushna N

Authorised Signatory

Treatment Map Showing 408.68 Ha.(or) 1009.85 Acres of Proposed Non-Forest Lands in (2 Bits) Sy.Nos.02,162 to 170 in Bit-I and Sy.Nos. 03 to 20,24 to 29,31 to 33,35,36,107 to 110,115 to 125 etc. in Kamireddipadu Village and Sy.Nos. 01 (Part) to 54 & 57 to 65 in Bit-II of Mangupalli Village Fields in Ananthasagaram Mandal of Nellore District near Compartment No. 385 of Gowraram RF in Atmakur Range of Nellore Division - Offered by M/s. Greenko Energies Pvt. Ltd., Hyderabad, in lieu of Diversion of 365.66 Ha. Forest Land in Compartment Nos. 113,114,115,116 & 117 of Gani RF in Gani Beat of Bethamcherla Section in Kurnool Range and Division for Establishment of Standalone Component of Pinnapuram IREP Project.



SCALE 1:10000
MAP DATUM : WGS 84



Perimeter(Bit-I) : 3797 Mtrs.
Perimeter(Bit-II) : 11878 Mtrs.
Total Perimeter(Bit-I & Bit-II) : 15675 Mtrs.

Surveyed Area - 408.68 Ha.(or) 1009.85 Ac.
Streams & Cart Tracks,etc.-7.62 Ha.(or) 18.82 Ac.
Un-Suitable Area - 43.02 Ha.(or) 106.31 Ac.
Effective Area - 365.66 Ha. (or) 903.54 Ac.

INDEX

- PROPOSED C.A. LAND BOUNDARY
- ⊗ SURVEY POINTS
- NALLAH / STREAMS
- CART TRACKS
- PLANTING PITS
- BOX CULVERT
- MPT's
- ⊕ BOREWELL POINTS
- UN-SUITABLE AREA
- INSPECTION PATH / SECTOR LINE

SK. Anandachari
Forest Beat Officer,
Gowraram Beat.

Deputy Range Officer,
Ananthasagaram.

Forest Range Officer,
Atmakur.

Asst.Conservator of Forest's,
Kavali.

ABSTRACT					
Village	Bit No	Total Surveyed Area in Ac.	Govt.Lands in Acres	Proposed Patta Lands in Ac.	Proposed Patta Lands Area in Ha
Kamireddipadu	I	93.44	1.31	92.13	37.28
Kamireddipadu	II	713.16	16.13	697.03	282.08
Mangupalli		203.25	2.69	200.56	81.17
	Total	1009.85	20.13	989.72	400.53
		or 408.68 Ha.	or 8.15 Ha.		

Divisional Forest Officer
Sri Pottisriramulu Nellore.

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that avenue plantation on either side of the road proposed shall be undertaken under the Green Belt provisions of EMP, after completion of the road works.

Date: 14.04.21

Place: Hyderabad




N. Gopi Krishna

Name: Gopi Krishna N

Authorised Signatory

RTGS UTR NO: SBINR52020122904000831,
Dated 29.12.20

SBINR52020122904000831

 भारतीय स्टेट बैंक State Bank of India <small>The Banker to Every Indian</small>	
PBB FILMNAGAR BR - 06130	Date <u>29.12.2020</u>
<u>GREENKO ENERGIES PVT LTD</u>	
Bank	<u>CORPORATION BANK</u>
Branch	<u>NEW DELHI</u>
Favouring	<u>ANDHRA PRADESH GOVT</u>
A/c No.	<u>15059563337105</u>
IFSC Code	<u>CORP0000371</u>
Cheque No	<u>868543</u>
Amount Rs.	35,92,00,000.00
Bank Charges	47.20
Total	35,92,00,047.20
#NAME?	

AGENCY COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 29-12-2020	
Agency Name.	GREENKO ENERGIES PRIVATE LIMITED
Application No.	5635371851
MoEF/SG File No.	8-32/2019-FC
Location.	ANDHRA PRADESH
Address.	Plot no-1071, Road No-44, Jubilee Hills, HyderabadHyderabad
Amount(in Rs)	359200000/-
Amount in Words :Thirty-Five Crore Ninety-Two Lakh Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ANDHRA PRADESH CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150595635371851 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003
<ul style="list-style-type: none"> This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only 	

After making successful payment, User Agencies ma
Email: helpdeskcompa@corpbank.co.in



PROCEEDINGS OF THE TAHSILDAR, ANANTHASAGARAM

PRESENT: Smt A. PADMAVATHI, B.Sc.,

Rc.B No.: 30 /2021

Dated: 31.01.2021

Sub: Transfer of land –SPS Nellore District Ananthasagaram Mandal – Kamireddipadu Village – Total measuring an extent of **10~~5~~.56 Acres (Hectors 41.10)** in certain Sy. Nos. transferred from M/s. Greenko AP 01 IREP Pvt. Ltd., Hyderabad to State Forest Department (classification as Reserve Forest), Government of Andhra Pradesh – Orders issued – Regarding.

Read: District Forest Officer, SPSR Nellore letter Rc. No. 1937/2018/F11, Dt.28.01.2021.

ORDERS:

In the reference read above the District Forest Officer, SPSR Nellore has requested for transfer of Non-Forest Land total an extent **10~~5~~.56 Acres** in the below shown Sy. Nos. of Kamireddipadu Village in Ananthasagaram Mandal from M/s. Greenko AP01 IREP Pvt. Ltd., Hyderabad to Forest Department, Government of Andhra Pradesh with classification as "Reserve Forest" for implementation of the condition imposed by the Government of India.

M/s. Greenko AP 01 IREP Pvt. Ltd., Plot No. 1366, Road No. 45, Jubilee Hills, Hyderabad – 500033, Telangana State represented by its Authorized signatory Sri D. Ramakrishna, Manager, has transferred the land in favour of "Government of Andhra Pradesh (State Forest Department)" without any consideration in lieu of vide Registered Transfer Deed Document No. 150/2021, Dt. 20-01.2021.

In view of the above, the following lands related to M/s. Greenko AP 01 IREP Pvt. Ltd., Hyderabad, are here by transferred and mutated in favour of the State Forest Department with classification "Reserve Forest" as requested in the reference read above.

Sl. No.	Name of the Village	1-B No.	Sy. No.	Extent in Acres	Classification
1	2	3	4	5	6
1	Kamireddipadu	20000222	118	1.50	Reserve Forest
2	Kamireddipadu	20000222	117-2A	1.58	Reserve Forest
3	Kamireddipadu	20000222	9-5A ✓	0.71	Reserve Forest
4	Kamireddipadu	20000222	85-4A	0.44	Reserve Forest
5	Kamireddipadu	20000222	85-3	0.32	Reserve Forest
6	Kamireddipadu	20000222	85-2	0.36	Reserve Forest
7	Kamireddipadu	20000222	85-1	0.85	Reserve Forest
8	Kamireddipadu	20000222	7-2 ✓	0.19	Reserve Forest
9	Kamireddipadu	20000222	61-5A	0.52	Reserve Forest
10	Kamireddipadu	20000222	115-1	2.50	Reserve Forest
11	Kamireddipadu	20000222	5-1	1.70	Reserve Forest
12	Kamireddipadu	20000222	50-1A	0.16	Reserve Forest
13	Kamireddipadu	20000222	4-A	3.98	Reserve Forest
14	Kamireddipadu	20000222	48-1A	0.48	Reserve Forest
15	Kamireddipadu	20000222	45-3	0.56	Reserve Forest

16	Kamireddipadu	20000222	3-G	4.97	Reserve Forest
17	Kamireddipadu	20000222	39-1	1.27	Reserve Forest
18	Kamireddipadu	20000222	3	2.04	Reserve Forest
19	Kamireddipadu	20000222	28-1a ✓	0.74	Reserve Forest
20	Kamireddipadu	20000222	25-1	3.00	Reserve Forest
21	Kamireddipadu	20000222	112-1	2.00	Reserve Forest
22	Kamireddipadu	20000222	19-A	3.81	Reserve Forest
23	Kamireddipadu	20000222	173 ✓	2.97	Reserve Forest
24	Kamireddipadu	20000222	170-5	4.50	Reserve Forest
25	Kamireddipadu	20000222	169-8	3.49	Reserve Forest
26	Kamireddipadu	20000222	169-2-1	0.28	Reserve Forest
27	Kamireddipadu	20000222	167-A	2.31	Reserve Forest
28	Kamireddipadu	20000222	166-2	1.03	Reserve Forest
29	Kamireddipadu	20000222	166-1	1.28	Reserve Forest
30	Kamireddipadu	20000222	16-5	1.00	Reserve Forest
31	Kamireddipadu	20000222	16-4	1.68	Reserve Forest
32	Kamireddipadu	20000222	110-1	0.08	Reserve Forest
33	Kamireddipadu	20000222	162-1	3.32	Reserve Forest
34	Kamireddipadu	20000222	160-2A	0.24	Reserve Forest
35	Kamireddipadu	20000222	160-2	3.12	Reserve Forest
36	Kamireddipadu	20000222	160-1	1.97	Reserve Forest
37	Kamireddipadu	20000222	159-1	1.80	Reserve Forest
38	Kamireddipadu	20000222	159	1.50	Reserve Forest
39	Kamireddipadu	20000222	155-3	2.89	Reserve Forest
40	Kamireddipadu	20000222	154-9A	0.48	Reserve Forest
41	Kamireddipadu	20000222	154-8	0.39	Reserve Forest
42	Kamireddipadu	20000222	154-7	0.65	Reserve Forest
43	Kamireddipadu	20000222	109-1A	0.20	Reserve Forest
44	Kamireddipadu	20000222	154-6A	1.09	Reserve Forest
45	Kamireddipadu	20000222	154-6	0.20	Reserve Forest
46	Kamireddipadu	20000222	154-5	0.43	Reserve Forest
47	Kamireddipadu	20000222	154-10	0.85	Reserve Forest
48	Kamireddipadu	20000222	153-1A	0.55	Reserve Forest
49	Kamireddipadu	20000222	153-1	0.52	Reserve Forest
50	Kamireddipadu	20000222	152-2	7.73	Reserve Forest
51	Kamireddipadu	20000222	151-4	0.25	Reserve Forest
52	Kamireddipadu	20000222	151-3A	1.60	Reserve Forest
53	Kamireddipadu	20000222	151-2A	0.07	Reserve Forest
54	Kamireddipadu	20000222	108-2A	1.06	Reserve Forest
55	Kamireddipadu	20000222	151-2	0.20	Reserve Forest
56	Kamireddipadu	20000222	151-1A	0.12	Reserve Forest
57	Kamireddipadu	20000222	151-1	0.30	Reserve Forest
58	Kamireddipadu	20000222	148-5A	0.18	Reserve Forest
59	Kamireddipadu	20000222	148-5	0.50	Reserve Forest
60	Kamireddipadu	20000222	148-3	1.00	Reserve Forest
61	Kamireddipadu	20000222	148-2	2.00	Reserve Forest
62	Kamireddipadu	20000222	145-2	0.70	Reserve Forest
63	Kamireddipadu	20000222	145-17	0.20	Reserve Forest
64	Kamireddipadu	20000222	145-12	0.33	Reserve Forest
65	Kamireddipadu	20000222	107-5A	1.42	Reserve Forest
66	Kamireddipadu	20000222	145-10	0.33	Reserve Forest
67	Kamireddipadu	20000222	144-3	0.84	Reserve Forest
68	Kamireddipadu	20000222	131-4	0.92	Reserve Forest
69	Kamireddipadu	20000222	131-12	1.83	Reserve Forest
70	Kamireddipadu	20000222	130-6	1.19	Reserve Forest
71	Kamireddipadu	20000222	125-1	0.99	Reserve Forest

72	Kamireddipadu	20000222	124-5	0.03	Reserve Forest
73	Kamireddipadu	20000222	124-2	3.50	Reserve Forest
74	Kamireddipadu	20000222	119-1	0.40	Reserve Forest
75	Kamireddipadu	20000222	118-1	1.02	Reserve Forest
76	Kamireddipadu	20000222	105-1A	0.35	Reserve Forest
			Total :	101.56 Acs.	Hectors. 41.10

31/01/2021
Tahsildar,
Ananthasagaram.

To:

The District Forest Officer, SPSR Nellore along with Mutation Certificate and 1B Adangal.

Copy to M/s. Greenko AP 01 IREP Pvt. Ltd., plot No. 1366, Road No. 45, Jubilee Hills, Hyderabad – 500033, Telangana State.

Copy to Village Revenue Officer Kamireddipadu Village, Ananthasagaram Mandal.

Copy to Mandal Revenue Inspector-II, Ananthasagaram.

Copy submitted to the Revenue Divisional Officer, Atmakur for favour of information.

Copy submitted to the District Collector, SPS Nellore District for favour of information.

Forest Range Officer
ATMAKUR.

Shammukh
District Forest Officer
SPSR NELLORE

COUNTER SIGNED

CONSERVATOR OF FORESTS
GUNTUR CIRCLE, GUNTUR

COUNTERSIGNED

Principal Chief Conservator of Forests
(Head of Forest Force)
Andhra Pradesh, Guntur

1.4.2021

Certificate of Mutation

This is to certify that, the Patta lands (Non-Forest Land) measuring an extent of 101.56 Acres (41.10 Hecs.) in the following Sy. Nos. of Kamireddipadu Village in Ananthasagaram Mandal, SPSR Nellore District has been registered in favour of Government of Andhra Pradesh (State Forest Department) vide Registered Transfer Deed Document No. 150/2021, Dt. 20.01.2021 for the purpose of "Compensatory Afforestation" in lieu of requirement of Forest Land for establishment of Integrated Renewable Energy Project at Pinnapuram in Compartment Nos. 113, 114, 115, 116 & 117 of Ghani RF in Kurnool Division in favour of M/s. Greenko Energies Pvt. Ltd., as shown below.

Sl. No.	Name of the Village	1-B No.	Sy. No.	Extent in Acres	Classification
1	2	3	4	5	6
1	Kamireddipadu	20000222	118	1.50	Reserve Forest
2	Kamireddipadu	20000222	117-2A	1.58	Reserve Forest
3	Kamireddipadu	20000222	9-5A ✓	0.71	Reserve Forest
4	Kamireddipadu	20000222	85-4A	0.44	Reserve Forest
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6	Kamireddipadu	20000222	85-2	0.36	Reserve Forest
7	Kamireddipadu	20000222	85-1	0.85	Reserve Forest
8	Kamireddipadu	20000222	7-2 ✓	0.19	Reserve Forest
9	Kamireddipadu	20000222	61-5A	0.52	Reserve Forest
10	Kamireddipadu	20000222	115-1	2.50	Reserve Forest
11	Kamireddipadu	20000222	5-1	1.70	Reserve Forest
12	Kamireddipadu	20000222	50-1A	0.16	Reserve Forest
13	Kamireddipadu	20000222	4-A	3.98	Reserve Forest
14	Kamireddipadu	20000222	48-1A	0.48	Reserve Forest
15	Kamireddipadu	20000222	45-3	0.56	Reserve Forest
16	Kamireddipadu	20000222	3-G	4.97	Reserve Forest
17	Kamireddipadu	20000222	39-1	1.27	Reserve Forest
18	Kamireddipadu	20000222	3	2.04	Reserve Forest
19	Kamireddipadu	20000222	28-1a ✓	0.74	Reserve Forest
20	Kamireddipadu	20000222	25-1	3.00	Reserve Forest
21	Kamireddipadu	20000222	112-1	2.00	Reserve Forest
22	Kamireddipadu	20000222	19-A	3.81	Reserve Forest
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25	Kamireddipadu	20000222	169-8	3.49	Reserve Forest
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30	Kamireddipadu	20000222	16-5	1.00	Reserve Forest
31	Kamireddipadu	20000222	16-4	1.68	Reserve Forest
32	Kamireddipadu	20000222	110-1	0.08	Reserve Forest
33	Kamireddipadu	20000222	162-1	3.32	Reserve Forest
34	Kamireddipadu	20000222	160-2A	0.24	Reserve Forest
35	Kamireddipadu	20000222	160-2	3.12	Reserve Forest
36	Kamireddipadu	20000222	160-1	1.97	Reserve Forest
37	Kamireddipadu	20000222	159-1	1.80	Reserve Forest
38	Kamireddipadu	20000222	159	1.50	Reserve Forest

39	Kamireddipadu	20000222	155-3	2.89	Reserve Forest
40	Kamireddipadu	20000222	154-9A	0.48	Reserve Forest
41	Kamireddipadu	20000222	154-8	0.39	Reserve Forest
42	Kamireddipadu	20000222	154-7	0.65	Reserve Forest
43	Kamireddipadu	20000222	109-1A	0.20	Reserve Forest
44	Kamireddipadu	20000222	154-6A	1.09	Reserve Forest
45	Kamireddipadu	20000222	154-6	0.20	Reserve Forest
46	Kamireddipadu	20000222	154-5	0.43	Reserve Forest
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65	Kamireddipadu	20000222	107-5A	1.42	Reserve Forest
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71	Kamireddipadu	20000222	125-1	0.99	Reserve Forest
72	Kamireddipadu	20000222	124-5	0.03	Reserve Forest
73	Kamireddipadu	20000222	124-2	3.50	Reserve Forest
74	Kamireddipadu	20000222	119-1	0.40	Reserve Forest
75	Kamireddipadu	20000222	118-1	1.02	Reserve Forest
76	Kamireddipadu	20000222	105-1A	0.35	Reserve Forest
Total :				101.56	Hectors. 41.10

The above mentioned lands have been mutated in favour of State Forest Department as "Reserve Forest" in Revenue records of Kamireddipadu Village in Ananthasagaram Mandal, SPSR Nellore District.

COUNTERSIGNED

Principal Chief Conservator of Forests
(Head of Forest Section)
To Andhra Pradesh, Guntur
The District Forest Officer,
SPSR Nellore.



TAHSILDAR
Ananthasagaram Mandal
SPSR Nellore District

Forest Range Officer
ATMAKUR

COUNTER SIGNED

CONSERVATOR OF FORESTS
GUNTUR CIRCLE, GUNTUR

Shamshul
District Forest Officer
SPSR NELLORE

PROCEEDINGS OF THE TAHSILDAR, ANANTHASAGARAM

PRESENT: Smt A. PADMAVATHI, B.Sc.,

Rc.B No.: 30/2021

Dated: 26.03.2021

Sub: Transfer of land –SPS Nellore District Ananthasagaram Mandal –
Kamireddipadu Village – Total measuring an extent of **174.21Acres**
in certain Sy. Nos. transferred from M/s. Greenko AP 01IREP Pvt. Ltd.,
Hyderabad to State Forest Department (classification as Reserve
Forest), Government of Andhra Pradesh – Orders issued – Regarding.

Read: District Forest Officer, SPSR Nellore letter Rc. No. 1937/2018/F11,
Dt.26.03.2021.

ORDERS:

In the reference read above the District Forest Officer, SPSR Nellore has requested for transfer of Non-Forest Land total an extent **174.21Acres** in the below shown Sy. Nos. of Kamireddipadu Village in Ananthasagaram Mandal from M/s. Greenko AP01 IREP Pvt. Ltd., Hyderabad to Forest Department, Government of Andhra Pradesh with classification as "Reserve Forest" for implementation of the condition imposed by the Government of India.

M/s. Greenko AP 01 IREP Pvt. Ltd., Plot No. 1366, Road No. 45, Jubilee Hills, Hyderabad – 500033, Telangana State represented by its Authorized signatory Sri D. Ramakrishna, Manager, has transferred the land in favour of "Government of Andhra Pradesh (State Forest Department)" without any consideration in lieu of vide Registered Transfer Deed Document No. 482/2021, Dt. 24-02.2021 and 773/2021, Dt. 25.03.2021.

In view of the above, the following lands related to M/s. Greenko AP 01 IREP Pvt. Ltd., Hyderabad, are here by transferred and mutated in favour of the State Forest Department with classification "Reserve Forest" as requested in the reference read above.

Sl. No.	Name of the Village	1-B No.	Sy. No.	Extent in Acres	Classification
1	2	3	4	5	6
1	Kamireddipadu	20000222	3-C	4.00	Reserve Forest
2	Kamireddipadu	20000222	3-E	3.70	Reserve Forest
3	Kamireddipadu	20000222	9-5	0.70	Reserve Forest
4	Kamireddipadu	20000222	120-2A	0.05	Reserve Forest
5	Kamireddipadu	20000222	123	1.00	Reserve Forest
6	Kamireddipadu	20000222	123-1	6.10	Reserve Forest
7	Kamireddipadu	20000222	124-7A	1.97	Reserve Forest
8	Kamireddipadu	20000222	125-1A	1.00	Reserve Forest
9	Kamireddipadu	20000222	125-1B	0.25	Reserve Forest
10	Kamireddipadu	20000222	125-1C	0.99	Reserve Forest
11	Kamireddipadu	20000222	154-9	0.48	Reserve Forest
12	Kamireddipadu	20000222	160-2A	0.24	Reserve Forest
13	Kamireddipadu	20000222	162	3.33	Reserve Forest
14	Kamireddipadu	20000222	7-1	1.18	Reserve Forest
15	Kamireddipadu	20000222	7-1A	1.17	Reserve Forest
16	Kamireddipadu	20000222	7-2-1	2.09	Reserve Forest
17	Kamireddipadu	20000222	7-3	1.00	Reserve Forest

18	Kamireddipadu	20000222	7-3A	1.00	Reserve Forest
19	Kamireddipadu	20000222	8-1	1.96	Reserve Forest
20	Kamireddipadu	20000222	8-2	0.50	Reserve Forest
21	Kamireddipadu	20000222	8-3	1.32	Reserve Forest
22	Kamireddipadu	20000222	8-4	3.64	Reserve Forest
23	Kamireddipadu	20000222	9-1	1.17	Reserve Forest
24	Kamireddipadu	20000222	9-3	4.90	Reserve Forest
25	Kamireddipadu	20000222	9-4	2.82	Reserve Forest
26	Kamireddipadu	20000222	10	1.50	Reserve Forest
27	Kamireddipadu	20000222	10-1	0.75	Reserve Forest
28	Kamireddipadu	20000222	10-2	1.50	Reserve Forest
29	Kamireddipadu	20000222	13-1a	2.16	Reserve Forest
30	Kamireddipadu	20000222	14-1	2.89	Reserve Forest
31	Kamireddipadu	20000222	14-1A	1.44	Reserve Forest
32	Kamireddipadu	20000222	14-3	1.68	Reserve Forest
33	Kamireddipadu	20000222	20-2	1.30	Reserve Forest
34	Kamireddipadu	20000222	20-3	2.23	Reserve Forest
35	Kamireddipadu	20000222	20-5A	1.30	Reserve Forest
36	Kamireddipadu	20000222	26-1	4.42	Reserve Forest
37	Kamireddipadu	20000222	26-2	6.46	Reserve Forest
38	Kamireddipadu	20000222	28-1	2.47	Reserve Forest
39	Kamireddipadu	20000222	28-1-1	0.75	Reserve Forest
40	Kamireddipadu	20000222	28-2	3.41	Reserve Forest
41	Kamireddipadu	20000222	28-2A	1.13	Reserve Forest
42	Kamireddipadu	20000222	29-1	1.70	Reserve Forest
43	Kamireddipadu	20000222	29-2	2.20	Reserve Forest
44	Kamireddipadu	20000222	29-3A	1.00	Reserve Forest
45	Kamireddipadu	20000222	31-1	5.28	Reserve Forest
46	Kamireddipadu	20000222	31-2A	1.65	Reserve Forest
47	Kamireddipadu	20000222	32	5.84	Reserve Forest
48	Kamireddipadu	20000222	33-1	2.00	Reserve Forest
49	Kamireddipadu	20000222	33-2	4.94	Reserve Forest
50	Kamireddipadu	20000222	35-1	0.58	Reserve Forest
51	Kamireddipadu	20000222	35-1B	1.74	Reserve Forest
52	Kamireddipadu	20000222	35-2	2.24	Reserve Forest
53	Kamireddipadu	20000222	35-3	1.32	Reserve Forest
54	Kamireddipadu	20000222	35-4	1.47	Reserve Forest
55	Kamireddipadu	20000222	35-5	1.34	Reserve Forest
56	Kamireddipadu	20000222	35-6	1.20	Reserve Forest
57	Kamireddipadu	20000222	36-1	0.76	Reserve Forest
58	Kamireddipadu	20000222	36-2	0.83	Reserve Forest
59	Kamireddipadu	20000222	36-3	2.24	Reserve Forest
60	Kamireddipadu	20000222	36-4	0.74	Reserve Forest
61	Kamireddipadu	20000222	36-5	0.83	Reserve Forest
62	Kamireddipadu	20000222	36-6	0.78	Reserve Forest
63	Kamireddipadu	20000222	173	20.58	Reserve Forest
64	Kamireddipadu	20000222	173-1	2.00	Reserve Forest
65	Kamireddipadu	20000222	173-1a	10.00	Reserve Forest
66	Kamireddipadu	20000222	173-1a2	5.00	Reserve Forest
67	Kamireddipadu	20000222	173-2	14.00	Reserve Forest
			Total :	174.21 Acs.	

COUNTERSIGNED

Principal Chief Conservator of Forests
(Head of Forest Force)
Andhra Pradesh, Guntur

Forest Range Officer
ATMAKUR

District Forest Officer
SPSR NELLORE

COUNTERSIGNED

CONSERVATOR OF FORESTS
GUNTUR CIRCLE, GUNTUR
Tahsildar,
Ananthasagaram.

Certificate of Mutation

This is to certify that, the Patta lands (Non-Forest Land) measuring an extent of 174.21Acres in the following Sy. Nos. of Kamireddipadu Village in Ananthasagaram Mandal, SPSR Nellore District has been registered in favour of Government of Andhra Pradesh (State Forest Department) vide Registered Transfer Deed Document No. 482/2021, Dt. 24-02.2021 and 773/2021, Dt. 25.03.2021, for the purpose of "Compensatory Afforestation" in lieu of requirement of Forest Land for establishment of Integrated Renewable Energy Project at Pinnapuram in Compartment Nos. 113, 114, 115, 116 & 117 of Ghani RF in Kurnool Division in favour of M/s. Greenko Energies Pvt. Ltd., as shown below.

Sl. No.	Name of the Village	1-B No.	Sy. No.	Extent in Acres	Classification
1	2	3	4	5	6
1	Kamireddipadu	20000222	3-C	4.00	Reserve Forest
2	Kamireddipadu	20000222	3-E	3.70	Reserve Forest
3	Kamireddipadu	20000222	9-5 ✓	0.70	Reserve Forest
4	Kamireddipadu	20000222	120-2A	0.05	Reserve Forest
5	Kamireddipadu	20000222	123	1.00	Reserve Forest
6	Kamireddipadu	20000222	123-1	6.10	Reserve Forest
7	Kamireddipadu	20000222	124-7A	1.97	Reserve Forest
8	Kamireddipadu	20000222	125-1A	1.00	Reserve Forest
9	Kamireddipadu	20000222	125-1B	0.25	Reserve Forest
10	Kamireddipadu	20000222	125-1C	0.99	Reserve Forest
11	Kamireddipadu	20000222	154-9	0.48	Reserve Forest
12	Kamireddipadu	20000222	160-2A	0.24	Reserve Forest
13	Kamireddipadu	20000222	162	3.33	Reserve Forest
14	Kamireddipadu	20000222	7-1 ✓	1.18	Reserve Forest
15	Kamireddipadu	20000222	7-1A ✓	1.17	Reserve Forest
16	Kamireddipadu	20000222	7-2-1 ✓	2.09	Reserve Forest
17	Kamireddipadu	20000222	7-3 ✓	1.00	Reserve Forest
18	Kamireddipadu	20000222	7-3A ✓	1.00	Reserve Forest
19	Kamireddipadu	20000222	8-1 ✓	1.96	Reserve Forest
20	Kamireddipadu	20000222	8-2 ✓	0.50	Reserve Forest
21	Kamireddipadu	20000222	8-3 ✓	1.32	Reserve Forest
22	Kamireddipadu	20000222	8-4 ✓	3.64	Reserve Forest
23	Kamireddipadu	20000222	9-1	1.17	Reserve Forest
24	Kamireddipadu	20000222	9-3	4.90	Reserve Forest
25	Kamireddipadu	20000222	9-4	2.82	Reserve Forest
26	Kamireddipadu	20000222	10 ✓	1.50	Reserve Forest
27	Kamireddipadu	20000222	10-1 ✓	0.75	Reserve Forest
28	Kamireddipadu	20000222	10-2 ✓	1.50	Reserve Forest
29	Kamireddipadu	20000222	13-1a	2.16	Reserve Forest
30	Kamireddipadu	20000222	14-1 ✓	2.89	Reserve Forest
31	Kamireddipadu	20000222	14-1A ✓	1.44	Reserve Forest
32	Kamireddipadu	20000222	14-3 ✓	1.68	Reserve Forest
33	Kamireddipadu	20000222	20-2	1.30	Reserve Forest
34	Kamireddipadu	20000222	20-3	2.23	Reserve Forest
35	Kamireddipadu	20000222	20-5A	1.30	Reserve Forest
36	Kamireddipadu	20000222	26-1	4.42	Reserve Forest
37	Kamireddipadu	20000222	26-2	6.46	Reserve Forest

38	Kamireddipadu	20000222	28-1	2.47	Reserve Forest
39	Kamireddipadu	20000222	28-1-1	0.75	Reserve Forest
40	Kamireddipadu	20000222	28-2	3.41	Reserve Forest
41	Kamireddipadu	20000222	28-2A	1.13	Reserve Forest
42	Kamireddipadu	20000222	29-1	1.70	Reserve Forest
43	Kamireddipadu	20000222	29-2	2.20	Reserve Forest
44	Kamireddipadu	20000222	29-3A	1.00	Reserve Forest
45	Kamireddipadu	20000222	31-1	5.28	Reserve Forest
46	Kamireddipadu	20000222	31-2A	1.65	Reserve Forest
47	Kamireddipadu	20000222	32	5.84	Reserve Forest
48	Kamireddipadu	20000222	33-1	2.00	Reserve Forest
49	Kamireddipadu	20000222	33-2	4.94	Reserve Forest
50	Kamireddipadu	20000222	35-1	0.58	Reserve Forest
51	Kamireddipadu	20000222	35-1B	1.74	Reserve Forest
52	Kamireddipadu	20000222	35-2	2.24	Reserve Forest
53	Kamireddipadu	20000222	35-3	1.32	Reserve Forest
54	Kamireddipadu	20000222	35-4	1.47	Reserve Forest
55	Kamireddipadu	20000222	35-5	1.34	Reserve Forest
56	Kamireddipadu	20000222	35-6	1.20	Reserve Forest
57	Kamireddipadu	20000222	36-1	0.76	Reserve Forest
58	Kamireddipadu	20000222	36-2	0.83	Reserve Forest
59	Kamireddipadu	20000222	36-3	2.24	Reserve Forest
60	Kamireddipadu	20000222	36-4	0.74	Reserve Forest
61	Kamireddipadu	20000222	36-5	0.83	Reserve Forest
62	Kamireddipadu	20000222	36-6	0.78	Reserve Forest
63	Kamireddipadu	20000222	173	20.58	Reserve Forest
64	Kamireddipadu	20000222	173-1	2.00	Reserve Forest
65	Kamireddipadu	20000222	173-1a	10.00	Reserve Forest
66	Kamireddipadu	20000222	173-1a2	5.00	Reserve Forest
67	Kamireddipadu	20000222	173-2	14.00	Reserve Forest
			Total :	174.21 Acs.	

The above mentioned lands have been mutated in favour of State Forest Department as "Reserve Forest" in Revenue records of Kamireddipadu Village in Ananthasagaram Mandal, SPSR Nellore District.

Tahsildar,
Ananthasagaram.

To
The District Forest Officer,
SPSR Nellore.

26/6/2021
DT

To:

The District Forest Officer, SPSR Nellore along with Mutation Certificate and 1B Adangal.

Copy to M/s. Greenko AP 01 IREP Pvt. Ltd., plot No. 1366, Road No. 45, Jubilee Hills, Hyderabad – 500033, Telangana State.

Copy to Village Revenue Officer Kamireddipadu Village, Ananthasagaram Mandal.

Copy to Mandal Revenue Inspector-II, Ananthasagaram.

Copy submitted to the Revenue Divisional Officer, Atmakur for favour of information.

Copy submitted to the District Collector, SPS Nellore District for favour of information.

[Signature]
Forest Range Officer
ATMAKUR

[Signature]
District Forest Officer
SPSR NELLORE

COUNTERSIGNED
[Signature]
CONSERVATOR OF FORESTS
GUNTUR CIRCLE, GUNTUR

COUNTERSIGNED

[Signature]
Principal Chief Conservator of Forests
(Head of Forest Force)
Andhra Pradesh, Guntur

01.04.21 28/33

[Signature]
01/4

[Signature]
14

[Signature]
1.4.2021

POSSESSION CERTIFICATE

Today I have inspected and perambulated the Non – Forest lands over an extent of 155.66 acres (or) 62.99 Ha. in Kamireddipadu Village of Ananthasagaram Mandal in below mentioned Survey numbers along with Mr. D. Ramakrishna, Authorized Signatory and has taken possession of the land as a part of compliance for the 'in – principle' (Stage – I) approval accorded by Government of India, Ministry of Environment and Forests, for the proposed Diversion of 365.66 Ha. Forest land in Compartment Nos. 113,114,115,116 & 117 of Gani RF, Kurnool Range and Kurnool Division for establishment of integrated Renewable Energy Project, Pinnapuram in favour of M/s. Greenko Energies Pvt. Ltd., Hyderabad.


Sl. No.	Name of the Village	Sy. No.	Extent (Ac. Cents)	Regd. Transfer Deed No. & Date
1	2	3	4	5
1	Kamireddipadu	7-2	0.19	150/2021, Dt.20.01.2021
2	Kamireddipadu	9-5	0.70	482/2021, Dt.24.02.2021
3	Kamireddipadu	9-5A	0.71	150/2021, Dt.20.01.2021
4	Kamireddipadu	28-1a	0.74	150/2021, Dt.20.01.2021
5	Kamireddipadu	173	2.97	150/2021, Dt.20.01.2021
6	Kamireddypadu	7-1	1.18	773/2021, Dt.25.03.2021
7	Kamireddypadu	7-1A	1.17	-do-
8	Kamireddypadu	7-2-1	2.09	-do-
9	Kamireddypadu	7-3	1.00	-do-
10	Kamireddypadu	7-3A	1.00	-do-
11	Kamireddypadu	8-1	1.96	-do-
12	Kamireddypadu	8-2	0.50	-do-
13	Kamireddypadu	8-3	1.32	-do-
14	Kamireddypadu	8-4	3.59	-do-
15	Kamireddypadu	9-1	1.17	-do-
16	Kamireddypadu	9-3	4.90	-do-

17	Kamireddypadu	9-4	2.82	-do-
18	Kamireddypadu	10	1.50	-do-
19	Kamireddypadu	10-1	0.75	773/2021, Dt.25.03.2021
20	Kamireddypadu	10-2	1.50	-do-
21	Kamireddypadu	13-1a	2.16	-do-
22	Kamireddypadu	14-1	2.89	-do-
23	Kamireddypadu	14-1A	1.44	-do-
24	Kamireddypadu	14-3	1.68	-do-
25	Kamireddypadu	20-2	1.30	-do-
26	Kamireddypadu	20-3	2.23	-do-
27	Kamireddypadu	20-5A	1.30	-do-
28	Kamireddypadu	26-1	4.42	-do-
29	Kamireddypadu	26-2	6.46	-do-
30	Kamireddypadu	28-1	2.47	-do-
31	Kamireddypadu	28-1-1	0.75	-do-
32	Kamireddypadu	28-2	3.41	-do-
33	Kamireddypadu	28-2A	1.13	-do-
34	Kamireddypadu	29-1	1.70	-do-
35	Kamireddypadu	29-2	2.20	-do-
36	Kamireddypadu	29-3A	1.00	-do-
37	Kamireddypadu	31-1	5.28	-do-
38	Kamireddypadu	31-2A	1.65	-do-
39	Kamireddypadu	32	5.84	-do-
40	Kamireddypadu	33-1	2.00	-do-
41	Kamireddypadu	33-2	4.94	-do-
42	Kamireddypadu	35-1	0.58	-do-
43	Kamireddypadu	35-1B	1.74	-do-
44	Kamireddypadu	35-2	2.24	-do-
45	Kamireddypadu	35-3	1.32	-do-
46	Kamireddypadu	35-4	1.47	-do-
47	Kamireddypadu	35-5	1.34	-do-
48	Kamireddypadu	35-6	1.20	-do-
49	Kamireddypadu	36-1	0.76	-do-
50	Kamireddypadu	36-2	0.83	-do-
51	Kamireddypadu	36-3	2.24	-do-
52	Kamireddypadu	36-4	0.74	-do-
53	Kamireddypadu	36-5	0.83	-do-
54	Kamireddypadu	36-6	0.78	-do-
55	Kamireddypadu	173	20.58	-do-
56	Kamireddypadu	173-1	2.00	-do-

57	Kamireddypadu	173-1a	10.00	-do-
58	Kamireddypadu	173-1a2	5.00	-do-
59	Kamireddypadu	173-2	14.00	-do-
Grand Total:-			155.66 Ac. (or) 62.99 Ha.	

Handed over by

For M/s. Greenko AP01 IREP Pvt. Ltd.


Authorised Signatory

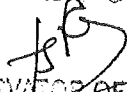
Taken over by


27/3/2021
Forest Range Officer,
Atmakur.



Forest Range Officer
ATMAKUR



District Forest Officer
SPSR NELLORE

COUNTER SIGNED


CONSERVATOR OF FORESTS
GUNTUR CIRCLE, GUNTUR

COUNTERSIGNED


Principal Chief Conservator of Forests
(Head of Forest Force)
Andhra Pradesh, Guntur


1.4.2021

14-Aug-2020 (14-Aug-2020)
 CHQ TRANSFER
 NEFT UTR NO: SBIN220227550707
 447592 ANDHRA PRADESH CAMPA
 Rs 22,89,03,160.00

AGENCY COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 14-08-2020	
Agency Name.	GREENKO ENERGIES PRIVATE LIMITED
Application No.	5635371040
MoEF/SG File No.	8-32/2019-FC
Location.	ANDHRA PRADESH
Address.	Plot no-1071, Road No-44, Jubilee Hills, HyderabadHyderabad
Amount(in Rs)	228903160/-
Amount in Words :Twenty-Two Crore Eighty-Nine Lakh Three Thousand One Hundred and Sixty Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ANDHRA PRADESH CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150595635371040 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003
<ul style="list-style-type: none"> This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only 	

After making successful payment, User Agencies ma
 Email: helpdeskampa@corpbank.co.in



Handwritten signature: *[Signature]*

Journal No.	06130
Checker ID No.	
CASH/	
SBT	14 AUG 2020
Charge No.	5650097
User ID No.	MD. IRFAN
PBB	
PLC	
Agar	
Hyd.	

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes to pay additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, which shall be charged by the State Government from the User Agency.



Date: 14.04.21

Place: Hyderabad

N. Gopi Krishna

Name: Gopi Krushna N

Authorised Signatory

LAND SUITABILITY CERTIFICATE BY DIVISIONAL FOREST OFFICER,
S.P.S.R. NELLORE.

This is to certify that, 400.53 Ha. land bearing the following survey numbers of Mangupalli and Kamireddipadu villages of Ananthasagaram Mandal, SPSR Nellore District which are identified for Compensatory Afforestation in two bits are suitable for plantation from management point of view and is **free and all sorts of encumbrances and encroachments.**

Sl. No.	Name of the Mandal	Name of the Village	Sy.No.	Total Extent	Proposed Extent in Acres	Proposed Extent in Ha.	Classification
1	2	3	4	5	6	7	8
1	Ananthasagaram	Kamireddipadu	2	5.86	5.86	2.37	Patta
2	Ananthasagaram	Kamireddipadu	162	13.30	13.30	5.38	Patta
3	Ananthasagaram	Kamireddipadu	163	10.24	10.24	4.14	Patta
4	Ananthasagaram	Kamireddipadu	164	5.50	5.50	2.23	Patta
5	Ananthasagaram	Kamireddipadu	165	8.12	8.12	3.29	Patta
6	Ananthasagaram	Kamireddipadu	166	8.01	8.01	3.24	Patta
7	Ananthasagaram	Kamireddipadu	167	10.38	10.38	4.20	Patta
8	Ananthasagaram	Kamireddipadu	168	5.33	5.33	2.16	Patta
9	Ananthasagaram	Kamireddipadu	169	9.79	9.79	3.96	Patta
10	Ananthasagaram	Kamireddipadu	170 (P)	16.91	15.60	6.31	Patta
	Kamireddipadu BIT - I Total			93.44	92.13	37.28	
1	Ananthasagaram	Kamireddipadu	3	35.35	35.35	14.31	Patta
2	Ananthasagaram	Kamireddipadu	4	8.98	8.98	3.63	Patta
3	Ananthasagaram	Kamireddipadu	5	8.64	8.64	3.50	Patta
4	Ananthasagaram	Kamireddipadu	6	10.03	10.03	4.06	Patta
5	Ananthasagaram	Kamireddipadu	7	8.52	8.52	3.45	Patta
6	Ananthasagaram	Kamireddipadu	8	7.93	7.93	3.21	Patta
7	Ananthasagaram	Kamireddipadu	9	11.32	11.32	4.58	Patta
8	Ananthasagaram	Kamireddipadu	10	10.60	10.60	4.29	Patta
9	Ananthasagaram	Kamireddipadu	11	3.91	3.91	1.58	Patta
10	Ananthasagaram	Kamireddipadu	12	9.62	9.62	3.89	Patta
11	Ananthasagaram	Kamireddipadu	13	8.66	8.66	3.50	Patta
12	Ananthasagaram	Kamireddipadu	14	11.11	11.11	4.50	Patta
13	Ananthasagaram	Kamireddipadu	15	9.37	9.37	3.79	Patta
14	Ananthasagaram	Kamireddipadu	16	7.62	7.62	3.08	Patta
15	Ananthasagaram	Kamireddipadu	17	6.25	6.25	2.53	Patta
16	Ananthasagaram	Kamireddipadu	18	15.84	15.84	6.41	Patta
17	Ananthasagaram	Kamireddipadu	19	11.44	11.44	4.63	Patta
18	Ananthasagaram	Kamireddipadu	20	12.40	12.40	5.02	Patta
19	Ananthasagaram	Kamireddipadu	24	6.96	6.96	2.82	Patta
20	Ananthasagaram	Kamireddipadu	25	13.55	13.55	5.48	Patta
21	Ananthasagaram	Kamireddipadu	26	10.88	10.88	4.40	Patta
22	Ananthasagaram	Kamireddipadu	28	8.50	8.50	3.44	Patta
23	Ananthasagaram	Kamireddipadu	29	8.00	8.00	3.24	Patta
24	Ananthasagaram	Kamireddipadu	31	10.22	10.22	4.14	Patta

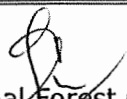
Sl. No.	Name of the Mandal	Name of the Village	Sy.No.	Total Extent	Proposed Extent in Acres	Proposed Extent in Ha.	Classification
1	2	3	4	5	6	7	8
25	Ananthasagaram	Kamireddipadu	32	5.84	5.84	2.36	Patta
26	Ananthasagaram	Kamireddipadu	33	7.94	7.94	3.21	Patta
27	Ananthasagaram	Kamireddipadu	35	9.89	9.89	4.00	Patta
28	Ananthasagaram	Kamireddipadu	36	6.18	6.18	2.50	Patta
29	Ananthasagaram	Kamireddipadu	107	8.46	8.46	3.42	Patta
30	Ananthasagaram	Kamireddipadu	108	5.82	5.82	2.36	Patta
31	Ananthasagaram	Kamireddipadu	109	7.96	7.96	3.22	Patta
32	Ananthasagaram	Kamireddipadu	110	8.20	8.20	3.32	Patta
33	Ananthasagaram	Kamireddipadu	115	9.50	9.50	3.84	Patta
34	Ananthasagaram	Kamireddipadu	116	7.19	7.19	2.91	Patta
35	Ananthasagaram	Kamireddipadu	117	10.26	10.26	4.15	Patta
36	Ananthasagaram	Kamireddipadu	118	7.63	7.63	3.09	Patta
37	Ananthasagaram	Kamireddipadu	119	8.07	8.07	3.27	Patta
38	Ananthasagaram	Kamireddipadu	120	7.09	7.09	2.87	Patta
39	Ananthasagaram	Kamireddipadu	121	4.36	4.36	1.76	Patta
40	Ananthasagaram	Kamireddipadu	122	5.23	5.23	2.12	Patta
41	Ananthasagaram	Kamireddipadu	123	8.10	8.10	3.28	Patta
42	Ananthasagaram	Kamireddipadu	124	12.05	12.05	4.88	Patta
43	Ananthasagaram	Kamireddipadu	125	10.36	10.36	4.19	Patta
44	Ananthasagaram	Kamireddipadu	127	10.24	10.24	4.14	Patta
45	Ananthasagaram	Kamireddipadu	130	10.19	10.19	4.12	Patta
46	Ananthasagaram	Kamireddipadu	131 (P)	12.47	11.98	4.85	Patta
47	Ananthasagaram	Kamireddipadu	132 (P)	10.23	9.87	3.99	Patta
48	Ananthasagaram	Kamireddipadu	133	5.53	5.53	2.24	Patta
49	Ananthasagaram	Kamireddipadu	134	4.98	4.98	2.02	Patta
50	Ananthasagaram	Kamireddipadu	137 (P)	10.19	9.99	4.04	Patta
51	Ananthasagaram	Kamireddipadu	138	3.37	3.37	1.36	Patta
52	Ananthasagaram	Kamireddipadu	142	5.14	5.14	2.08	Patta
53	Ananthasagaram	Kamireddipadu	143	6.61	6.61	2.68	Patta
54	Ananthasagaram	Kamireddipadu	144	6.66	6.66	2.70	Patta
55	Ananthasagaram	Kamireddipadu	145	8.96	8.96	3.63	Patta
56	Ananthasagaram	Kamireddipadu	146	9.62	9.62	3.89	Patta
57	Ananthasagaram	Kamireddipadu	147	7.22	7.22	2.92	Patta
58	Ananthasagaram	Kamireddipadu	148	6.74	6.74	2.73	Patta
59	Ananthasagaram	Kamireddipadu	149	9.91	9.91	4.01	Patta
60	Ananthasagaram	Kamireddipadu	150	10.28	10.28	4.16	Patta
61	Ananthasagaram	Kamireddipadu	151	8.73	8.73	3.53	Patta
62	Ananthasagaram	Kamireddipadu	152	18.40	18.40	7.45	Patta
63	Ananthasagaram	Kamireddipadu	153	11.50	11.50	4.65	Patta
64	Ananthasagaram	Kamireddipadu	154	8.63	8.63	3.49	Patta
65	Ananthasagaram	Kamireddipadu	155	7.38	7.38	2.99	Patta
66	Ananthasagaram	Kamireddipadu	157	8.03	8.03	3.25	Patta
67	Ananthasagaram	Kamireddipadu	159	18.20	18.20	7.37	Patta
68	Ananthasagaram	Kamireddipadu	160	9.44	9.44	3.82	Patta

Sl. No.	Name of the Mandal	Name of the Village	Sy.No.	Total Extent	Proposed Extent in Acres	Proposed Extent in Ha.	Classification
1	2	3	4	5	6	7	8
69	Ananthasagaram	Kamireddipadu	161	9.05	9.05	3.66	Patta
70	Ananthasagaram	Kamireddipadu	173(P)	86.07	54.55	22.08	Patta
	Kamireddipadu Bit- II Total			729.60	697.03	282.08	
71	Ananthasagaram	Mangupalli	1-1	0.32	0.32	0.13	Patta
72	Ananthasagaram	Mangupalli	1-2	1.27	1.27	0.51	Patta
73	Ananthasagaram	Mangupalli	2	4.44	4.44	1.80	Patta
74	Ananthasagaram	Mangupalli	3	1.75	1.75	0.71	Patta
75	Ananthasagaram	Mangupalli	4	2.57	2.57	1.04	Patta
76	Ananthasagaram	Mangupalli	5	2.61	2.61	1.06	Patta
77	Ananthasagaram	Mangupalli	6	1.62	1.62	0.66	Patta
78	Ananthasagaram	Mangupalli	7	4.71	4.71	1.91	Patta
79	Ananthasagaram	Mangupalli	8	3.55	3.55	1.44	Patta
80	Ananthasagaram	Mangupalli	9	3.08	3.08	1.25	Patta
81	Ananthasagaram	Mangupalli	10	4.34	4.34	1.76	Patta
82	Ananthasagaram	Mangupalli	11	2.76	2.76	1.12	Patta
83	Ananthasagaram	Mangupalli	12	2.00	2.00	0.81	Patta
84	Ananthasagaram	Mangupalli	13	3.29	3.29	1.33	Patta
85	Ananthasagaram	Mangupalli	14	2.94	2.94	1.19	Patta
86	Ananthasagaram	Mangupalli	15	2.10	2.10	0.85	Patta
87	Ananthasagaram	Mangupalli	16	2.90	2.90	1.17	Patta
88	Ananthasagaram	Mangupalli	17	1.95	1.95	0.79	Patta
89	Ananthasagaram	Mangupalli	18	2.16	2.16	0.87	Patta
90	Ananthasagaram	Mangupalli	19	1.74	1.74	0.70	Patta
91	Ananthasagaram	Mangupalli	20	2.62	2.62	1.06	Patta
92	Ananthasagaram	Mangupalli	21	6.62	6.62	2.68	Patta
93	Ananthasagaram	Mangupalli	22	5.86	5.86	2.37	Patta
94	Ananthasagaram	Mangupalli	23	3.94	3.94	1.59	Patta
95	Ananthasagaram	Mangupalli	24	4.04	4.04	1.63	Patta
96	Ananthasagaram	Mangupalli	25	4.23	4.23	1.71	Patta
97	Ananthasagaram	Mangupalli	26	5.94	5.94	2.40	Patta
98	Ananthasagaram	Mangupalli	27	3.32	3.32	1.34	Patta
99	Ananthasagaram	Mangupalli	28	3.78	3.78	1.53	Patta
100	Ananthasagaram	Mangupalli	29	1.99	1.99	0.81	Patta
101	Ananthasagaram	Mangupalli	30	2.67	2.67	1.08	Patta
102	Ananthasagaram	Mangupalli	31	5.66	5.66	2.29	Patta
103	Ananthasagaram	Mangupalli	32	3.26	3.26	1.32	Patta
104	Ananthasagaram	Mangupalli	33	2.59	2.59	1.05	Patta
105	Ananthasagaram	Mangupalli	34	2.48	2.48	1.00	Patta
106	Ananthasagaram	Mangupalli	35	2.35	2.35	0.95	Patta
107	Ananthasagaram	Mangupalli	36	2.90	2.90	1.17	Patta
108	Ananthasagaram	Mangupalli	37	2.12	2.12	0.86	Patta
109	Ananthasagaram	Mangupalli	38	6.28	6.28	2.54	Patta
110	Ananthasagaram	Mangupalli	39	1.80	1.80	0.73	Patta
111	Ananthasagaram	Mangupalli	40	2.01	2.01	0.81	Patta

Sl. No.	Name of the Mandal	Name of the Village	Sy.No.	Total Extent	Proposed Extent in Acres	Proposed Extent in Ha.	Classification
1	2	3	4	5	6	7	8
112	Ananthasagaram	Mangupalli	41	7.44	7.44	3.01	Patta
113	Ananthasagaram	Mangupalli	42	3.00	3.00	1.21	Patta
114	Ananthasagaram	Mangupalli	43	1.33	1.33	0.54	Patta
115	Ananthasagaram	Mangupalli	44	1.87	1.87	0.76	Patta
116	Ananthasagaram	Mangupalli	45	1.40	1.40	0.57	Patta
117	Ananthasagaram	Mangupalli	46	3.27	3.27	1.32	Patta
118	Ananthasagaram	Mangupalli	47	5.04	5.04	2.04	Patta
119	Ananthasagaram	Mangupalli	48	2.46	2.46	1.00	Patta
120	Ananthasagaram	Mangupalli	49	4.73	4.73	1.91	Patta
121	Ananthasagaram	Mangupalli	50	1.64	1.64	0.66	Patta
122	Ananthasagaram	Mangupalli	51	4.11	4.11	1.66	Patta
123	Ananthasagaram	Mangupalli	52	3.18	3.18	1.29	Patta
124	Ananthasagaram	Mangupalli	53	3.73	3.73	1.51	Patta
125	Ananthasagaram	Mangupalli	54	2.92	2.92	1.18	Patta
126	Ananthasagaram	Mangupalli	57	1.83	1.83	0.74	Patta
127	Ananthasagaram	Mangupalli	58	3.06	3.06	1.24	Patta
128	Ananthasagaram	Mangupalli	59	3.84	3.84	1.55	Patta
129	Ananthasagaram	Mangupalli	60	5.33	5.33	2.16	Patta
130	Ananthasagaram	Mangupalli	61	1.79	1.79	0.72	Patta
131	Ananthasagaram	Mangupalli	62	1.26	1.26	0.51	Patta
132	Ananthasagaram	Mangupalli	63	0.98	0.98	0.40	Patta
133	Ananthasagaram	Mangupalli	64	3.50	3.50	1.42	Patta
134	Ananthasagaram	Mangupalli	65	4.29	4.29	1.74	Patta
Mangupalli Bit- II Total				200.56	200.56	81.17	

ABSTRACT

Sl. No.	Name of the Village / Bit No.	Net CA proposed in Acres	Net CA proposed in Ha.	Remarks
1	2	3	4	5
1	Kamireddipadu - Bit -I	92.13	37.28	
2	Kamireddipadu - Bit -II	697.03	282.08	
3	Mangupalli	200.56	81.17	
Total Area in Acres		989.72	400.53	


 Divisional Forest Officer,
 SPSR Nellore.

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes that an area of 400.53 ha identified towards Compensatory Afforestation (CA) scheme in Mangupalli and Kamireddipadu villages of Ananthasagaram Mandal of SPSR Nellore District of Andhra Pradesh is a Non-Forest land and no schemes/programmes with respect to plantation have been proposed or undertaken by the State Forest Department in the CA land identified for taking up Compensatory Afforestation in the last 10 years.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

Name: Gopi Krishna N

Authorised Signatory

SBI **DEPOSIT / PAY IN SLIP**

Branch : _____ Date 2/2/2021

SB/CA/RD/OD/CC/TL/DL A/c No./Credit Card No. _____

Name 10937211822

Tel. No. District Forest Officer

Amount ₹ 25,72,000/- P. _____

Rupees in words _____

Cash/Cheque No./Date & Name of Bank & Branch	₹	P.
<u>868550</u>	<u>25,72,000/-</u>	
<u>REPL-KMS</u>		
Total		

SWO / Passing Officer _____

SBI toll free, 24 Hours Call Centre
No. 18004253800, 1800112211



(06130) - PBB FILM NAGAR
APPOLO HOSPITAL ROAD: JOURNALIST COLONY B-48, APOLLO CENTRE
, JUBILLEE HILLS
HYDERABAD 500034
Tel: 40-2355441 IFS Code : SBIN0006130

		0	2	0	2	2	0	2
D	D	M	M	Y	Y	Y	Y	Y

District Forest Officer Kurnool SBI-10937211822

को या उनके आदेश पर OR ORDER

रुपये RUPEES

Twenty Five Lakh Seventy Two Thousand Only

अदा करें



****25,72,000.00**

आ. सं.
A/c No.

31114331489

VALID UPTO ₹ 50 LACS AT NON-HOME BRANCH

CURRENT A/C

PREFIX:
2109100021

GREENKO ENERGIES PRIVATE LIMITED

MULTI-CITY CHEQUE Payable at Par at All Branches of SBI

Please sign above

110868550110 50000206210 000192110 29

Annexure-12

No. J-12011/12/2018-IA.I(R)

Ministry of Environment, Forest & Climate Change
Government of India
(IA-I Division)

Indira Paryavaran Bhawan
3rd Floor, Vayu Wing
Jor Bagh Road
New Delhi-110 003

Date: 25th September, 2018

To,

Shri. Gopi Krushna
Assistant General Manager
M/s Greenko Energies Private Limited
Plot no.1071, Road No.44,
Jubilee Hills,
Hyderabad-500033 (Telangana)

Subject: Pinnapuram IREP (1200 MW) - Pumped Storage Project in Kurnool District of Andhra Pradesh by M/s Greenko Energies Pvt. Ltd - Amendment in TOR- regarding.

Sir,

This is with reference to your online application no. IREP-Pinnapuram/MoEF & CC/TOR Amendment/20180810 dated 13.8.2018, 14.8.2018 and 15.9.2018 on the above mentioned subject. The Terms of Reference (TOR) for Pinnapuram IREP (1000 MW) in Kurnool District of Andhra Pradesh was accorded on 17.5.2018 for 4 years. Your request for approval for change of scope in the project and enhancement of capacity of the project from 1000 MW to 1200 MW has been examined by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Projects in its meeting held on 27.8.2018.

2. The EAC duly considered the relevant documents submitted by you and have recommended the enhancement of capacity of the project from 1000 MW to 1200 MW and agreed for changes in the scope of the project. Accordingly, the Ministry hereby accords amendment ToR for enhancement of capacity from 1000 MW to 1200 MW in respect of Pinnapuram IREP (1200 MW) in Kurnool District of Andhra Pradesh with the same TOR as communicated vide letter dated 17.5.2018 with the following corrections:

- i. The committee noted the changes in project component locations, capacity increased from 1000 MW to 1200 MW. The comparative statement with reference to earlier proposal and revised proposal are presented below:

S.No.	Details	Original	Revised
1	Capacity	1000 MW	1200 MW
2	Project type	Pinnapuram IRESP - Storage Project	Standalone Pumped Storage Component of Pinnapuram IREP
a	Upper Reservoir	Pinnapuram IRESP	Pinnapuram IREP
b	Lower reservoir	Gorakallu Reservoir	Pinnapuram IREP

c	Live Storage	1.00 TMC	1.20 TMC
d	Dead Storage	0.32 TMC	0.17 TMC
e	Full Reservoir level (FRL) – Upper Reservoir	EL +392.00 m	EL +463.00 m
3	Powerhouse	Underground	Surface Powerhouse
4	Number of units	6 Units (4 x 200 MW + 2 x 100 MW)	7 Units (5 x 200 MW + 2 x 100 MW)
5	Turbine Design Discharge	86.25 cumec for each unit	96.9 cumec for each unit

ii. The land required for the proposed pumped storage project are as follows:

S. No	Details	Land requirement (ha)	
		As per original	As per revised
1	Forest land	283.38	364.79
2	Non-Forest land	97.10	348.90
	Total	380.48	713.69

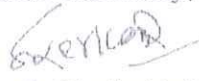
3. You have requested EAC that this being a pump storage scheme & not typically river valley project as this is not located on any river course, some of the standard TOR conditions are not applicable and delete from the earlier TOR dated 17.5.2018. The EAC agreed on the suggestion and the following items are deleted from the TOR in the present case:

S. No.	TOR conditions
1	• Para Nos. 2 – (ii), (vii), (viii) & (xiii) (related to river, drainage and catchment delineation)
2	• Para No.6 (b) related to hydrology studies approved by CWC, Flow series of 90%, 75% and 50% dependable years discharge, Minimum of 1 km distance from tip of the reservoir, norms for release of e-flows, etc.
3	• Para No.6 (d) related to (ii) & (iii) related to fish, their migration and conservation
4	• Para No. 8 related to CAT Plan
5	• Para No.9 related to CAD
6	• Para No. 10 related to Fisheries Conservation and Management
7	• Para No. 11 related to CAD Plans for distributary outlet and Dam Break Analysis

4. All other terms and conditions of the Scoping/TOR clearance stipulated in letter No. J-12011/12/2018-IA-1 (R) dated 17.5.2018 and 6.7.2018 shall remain unchanged.

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

Yours faithfully,


(Dr. S. Kerketta)
Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi - 1.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R. K. Puram, New Delhi - 110 066.
5. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), 1st and 2nd Floor, Handloom Export Promotion Council, 34 Cathedral Garden Road, Numgambakkam, Chennai - 600 034.
6. The Principal Secretary, Environment, Science & Technology, Government of Andhra Pradesh, Secretariat Office, 4th Block, Ground Floor, Room No. 187, Velagapudi, Amaravathi - 522 238, Andhra Pradesh.
7. The Member - Secretary, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamavari Street, Kasturibaipet, Vijayawada - 520 008.
8. Guard file.

(Dr. S. Kerketta)
Director

No- J-12011/12/2018-IA-I (R)
Ministry of Environment, Forests and Climate Change
Government of India
[IA-I Division]

Indira Paryavaran Bhawan
3rd Floor, Vayu Wing
Jor Bagh Road
New Delhi-110003

Dated: 10th July, 2018

CORRIGENDUM

Subject: Pinnapuram HEP (1000 MW) Integrated Renewable Energy with Pumped Storage Project in Karnool District of Andhra Pradesh by M/s. Greenko Energies Pvt. Ltd. - regd.

Reference: (1) TOR letter dated 17.5.2018 (2) Your letter of Nil number dated 30.5.2018.

With reference to the subject cited above, it is to inform that the Ministry has reviewed the content of your letter and the following correction at Sl.No.4 of the ToR letter has been made and it may be read as:

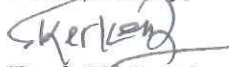
1. *"The scheme envisages non-consumptive re-utilization of 1 TMC of water of the Gorakallu reservoir by circulation. The water in the Gorakallu reservoir (lower reservoir) will be pumped up and stored in the Pinnapuram reservoir IRESP reservoir (upper reservoir) and will be utilized for power generation. The proposed rating of the Pinnapuram pump storage project is 1000 MWH by utilizing a design discharge of 862.50 cumec and rated head of 142.75 m. The pinnapuram IRESP will utilize 1140 MW to pump 1 TMC of water to the upper reservoir in 9.2 hours"*

Instead of

"The scheme envisages non-consumptive re-utilization of 1 TMC of water of the Renuka Sagar reservoir by circulation. The water in the Renuka Sagar reservoir (lower reservoir) will be pumped up and stored in the Saundatti IRESP reservoir (upper reservoir) and will be utilized for power generation. The proposed rating of the Saundatti pump storage project is 1200 MWH by utilizing a design discharge of 925.68 cumec and rated head of 149.82 m. The pinnapuram IRESP will utilize 1360 MW to pump 1 TMC of water to the upper reservoir in 9.2 hours"

2. Annexure is a Standard TOR for River Valley Projects and cannot be modified.
3. All other terms and conditions of the Scoping /ToR Clearance stipulated in Letter No. J-12011/12/2018-IA.I (R) dated 17.5.2018 shall remain unchanged.
4. This issues with the approval of Competent Authority.

Yours faithfully,


(Dr. S. Kerketta)
Director

Copy to:

1. Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi – 1.
2. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi -1.



No. J-12011/12/2018-IA.I(R)
Ministry of Environment, Forest & Climate Change
Government of India

Indira Paryavaran Bhawan
3rd Floor, Vayu Wing
Jor Bagh Road
New Delhi-110 003.
Date: 17th May, 2018

To,

The Authorised Signatory
M/s Greenko Energies Private Limited
Plot no.1071, Road No.44,
Jubilee Hills, Hyderabad-500033, Telangana.

Sub: 1000 MW Pinnapuram HEP (Integrated Renewable Energy with Pumped Storage Project) near Village Pinnapuram in Karnool District of Andhra Pradesh by M/s Greenko Energies Private Limited.- reg. Terms of Reference (ToR).

Sir,

This has reference to online application no. IA/AP/RIV/74608/2018 dated 16.4.2018 on the above mentioned subject.

2. It has been noted that Proposed Pinnapuram Integrated Renewable Energy with Storage Project (IRESP) located in Kurnool District of Andhra Pradesh which will have a 4 GW project i.e. 2 GW of Solar Project and 2 GW of wind project with storage capacity of 1000/ 8000 MWH. The Storage Project will comprise of two reservoirs i.e. Gorakallu Reservoir (already existing) and Pinnapuram Reservoir (to be constructed in natural depression). This project is a one of its kind because both the reservoirs are not located on river course i.e. Gorakallu reservoir (existing) is a balancing reservoir and is located on a canal network and Proposed Pinnapuram reservoir in a natural depression. These reservoirs are far away from any river course.

3. It has been informed that the Pumped Storage Scheme stores energy in the form of gravitational potential energy of water, pumped from a lower elevation reservoir to a higher elevation. Low-cost surplus off-peak electric power generated from wind energy and solar energy is typically used to run the pumps. During periods of high electrical demand, the stored water is released through turbines to produce electric power. Although the losses of the pumping process make the plant a net consumer of energy overall, the system increases revenue by selling more electricity during periods of peak demand, when electricity prices are highest which will supply firm dispatchable renewable power to the grid for 24 hrs.

4. The scheme envisages non-consumptive re-utilization of 1 TMC of water of the Renuka Sagar reservoir by recirculation. The water in the Renuka Sagar reservoir (lower reservoir) will be pumped up and stored in the proposed Saundatti IRESP reservoir (upper Reservoir) and will be utilized for power generation. The Proposed Rating of the Saundatti Pump storage project is 1200 MWH by utilizing a design discharge of 925.68 Cumec and rated head of 149.82 m. The Saundatti IRESP will utilize 1360 MW to pump 1.0 TMC of water to the upper reservoir in 9.2 hours.

5. The Salient Features of the Project are as below:

1	Pinnapuram IRESP Reservoir -Upper (Now Proposed)	
	Catchment Area	9.45 sq. km
	Live Storage	1.00 TMC

	Dead Storage	0.32 TMC
	Gross Storage	1.32 TMC
	Full Reservoir level (FRL)	EL +392.00 m
	Dimensions of earthen dam (Length x Height x Width)	510.0 m x 49.0 m x 6.0 m
2	Gorakallu Lower Reservoir (Existing)	
	Live Storage	10.29 TMC (291.38 Mcum)
	Dead Storage	2.15 TMC (60.88 Mcum)
	Gross Storage	12.44 TMC (352.26 Mcum)
	Full Reservoir level (FRL)	EL +261.00 m
3	Power Intake	
	Type	Open Semi Circular
	Elevation of Intake center line	EL +357.25 m
4	Tail Race Tunnel	Concrete Lined
	Type of tunnel & Nos.	Modified Horse Shoe & Twin Tunnels
	Diameter & Length of each Tunnel	12.0 m & 3860m each
5	Powerhouse	
	Type	Underground 'D' Shape
	PH cavern Dimensions	L 270 m x B 25 m x H 49 m
6	Parameters of Storage Plant	
	Storage Capacity	8000 MWH
	Rating	1000 MWH
	No. of Units	6 (4 x 200 MW + 2 x 100 MW)
	Turbine Capacity	200 MW / 100 MW
	Total Design Discharge	862.50 Cumec
	Rated Head in Turbine mode	134.00 m
	Pump Capacity	220 MW / 130 MW

6. Total land required for the construction of various components is about 380.48 Ha including submergence by formation of Pinnapuram reservoir. About 283.38 Ha (Surface: 263 ha & Under Ground: 20 ha) out of 380.48 Ha is part of Gani forest under Kurnool Range. Application for diversion of forest land is yet to be submitted. There are no wildlife sanctuaries, national parks and other protected areas within 10 km radius of proposed project.

7. By constructing a 3860m long twin tunnel and Power house complex, Surge chamber, Transformer cavern, Pressure shaft etc. the quantity of muck to be generated is estimated to be about 73.40 lakh Cum. It is expected that about 37.71 lakh Cum of this will be used for making aggregates which will be used in construction of various roads and buildings. The rest will require to be disposed-off in a planned manner. It is proposed to dump about 18.00 Lakh Cum of muck in the reservoir bed as there is no water course is existing and the remaining quantity of muck is proposed to dump in 3 different locations of dumping sites and they are identified at suitable places.

8. The Pinnapuram IRESP is envisaged to be completed in a period of 3.5 years. The project cost works out to Rs. 4,829.22 Crores. About 400 workers and 100 technical staff are likely to work during the peak construction phase in the project area.

9. The above proposal was appraised by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Power Projects (RV & HEP) in its 13th meeting held on 27.4.2018. The comments and observations of EAC may be seen in the Minutes of the meeting that are available on the Ministry's website.



10. In view of the recommendations made by the EAC (RV&HEP) in its 13th meeting held on 27.4.2018 and the information/clarifications submitted by you with regard to the above-mentioned project proposal, **the Ministry hereby accords a fresh clearance for pre-construction activities at the proposed site along with the following Terms of Reference (ToR) for the proposed project under Schedule 1(c) of the EIA Notification, 2006 and its amendments issued time to time, for the preparation of EIA/ EMP report:**

- a) The EIA/EMP report should contain the information in accordance with provisions & stipulations as given in the **Annexure-I**.
- b) The consultant engaged for preparation of EIA/EMP report has to be registered with Quality Council of India (QCI/ NABET under the scheme of Accreditation & Registration of MoEF. This is a pre-requisite.
- c) Consultant shall include a "Certificate" in EIA/EMP report regarding portion of EIA/EMP prepared by them and data provided by other organisation(s)/ laboratories including status of approval of such laboratories.
- d) The draft EIA/EMP report prepared as per **Annexure-I** should be submitted to the State Pollution Control Board Committee concerned for conducting Public Consultation as per the provisions stipulated in EIA Notification of 2006. Public Hearing, which is a component of Public Consultation, shall be held district wise at the site or in its close proximity as prescribed in Appendix (IV) of EIA Notification, 2006. The draft EIA/EMP report is to be submitted to SPCB etc. sufficiently before the expiry of the ToR validity so that necessary amendments in EIA/EMP can be undertaken based on public hearing and the same is submitted to MoEF&CC before expiry of validity.
- e) All issues discussed in the Public Hearing / Consultations should be addressed and incorporated in the EIA/EMP report. Final EIA/EMP report should be submitted to the Ministry for Environmental Clearance only after incorporating these issues before the expiry of validity of ToR.
- f) The ToR will remain valid for a period of 4 years from the date of issue of this letter for submission of EIA/EMP report along with public consultation. The ToR will stand lapsed on completion of 4 years in case final EIA/EMP is not submitted and the validity is not extended.
- g) In case of any change in the scope of the project such as capacity enhancement, change in submergence, etc., fresh scoping clearance has to be obtained by the project proponent.
- h) The PP should submit a copy of TEC of the DPR along with EIA/EMP report.
- i) Information pertaining to Corporate Environmental Responsibility and Environmental Policy shall be provided in the EIA/EMP Report as per this Ministry's OM No. 22-65/2017-IA.III dated 1.8.2018 (Reference as **Annexure-II**)
- j) The EIA/ EMP report must contain an Index showing details of compliance of all TOR conditions. the Index will comprise of page no. etc., vide which compliance of a specific ToR is available. It may be noted that without this index, EIA/ EMP report will not be accepted.
- k) In case the validity is to be extended, necessary application is to be submitted to Regulatory Authority before expiry of validity period together with an updated Form-I based on proper justification.

This has approval of the Competent Authority.

Yours faithfully,

(Dr. S. Kerketta)
Director, IA.I

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi - 1.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R. K. Puram, New Delhi - 110 066.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment Forests and Climate Change, Regional Office, (SEZ), Ist and IInd Floor, Handloom Export Promotion Council, 34 Cathedral Garden Road, Nungambakkam, Chennai-600034.
7. The Principal Secretary Environment, Science and Technology, Government of Andhra Pradesh, Secretariat Office, 4th Block, Ground Floor, Room no.187, Velagapudi, Amaravathi-522238, Andhra Pradesh.
8. The Chairman, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada - 520 008.
9. The District Collector, Karnool District, Collectorate Lane, Alluri Sitarama Raju Nagar, Opp. Govt. General Hospital, Kurnool, Andhra Pradesh 518002.
10. Guard file/Monitoring file.
11. Website of MoEF&CC.


(Dr. S. Kerketta)
Director, IA.I

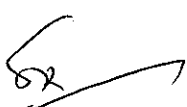
TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR 'A' CATEGORY RIVER VALLEY PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

(1) Scope of EIA Studies

The EIA Report should identify the relevant environmental concerns and focus on potential impacts that may change due to the construction of proposed project. Based on the baseline data collected for three (3) seasons (Pre-monsoon, Monsoon and Winter seasons), the status of the existing environment in the area and capacity to bear the impact on this should be analyzed. Based on this analysis, the mitigation measures for minimizing the impact shall be suggested in the EIA/EMP study.

(2) Details of the Project and Site

- General introduction about the proposed project.
- Details of project and site giving L-sections of all U/S and D/S projects of River with all relevant maps and figures. Connect such information as to establish the total length of interference of Natural River and the committed unrestricted release from the site of diversion into the main river.
- A map of boundary of the project site giving details of protected areas in the vicinity of project location.
- Location details on a map of the project area with contours indicating main project features. The project layout shall be superimposed on a contour map of ground elevation showing main project features (viz. location of dam, Head works, main canal, branch canals, quarrying etc.) shall be depicted in a scaled map.
- Layout details and map of the project along with contours with project components clearly marked with proper scale maps of at least a 1:50,000 scale and printed at least on A3 scale for clarity.
- Existence of National Park, Sanctuary, Biosphere Reserve etc. in the study area, if any, should be detailed and presented on a map with distinct distances from the project components.
- Drainage pattern and map of the river catchment up to the proposed project site.
- Delineation of critically degraded areas in the directly draining catchment on the basis of silt Yield Index as per the methodology of All India Soil and Land Use Survey of India.
- Soil characteristics and map of the project area.
- Geological and seismo-tectonic details and maps of the area surrounding the proposed project site showing location of dam site and powerhouse site.
- Remote Sensing studies, interpretation of satellite imagery, topographic sheets along with ground verification shall be used to



develop the land use/land cover pattern of the study using overlaying mapping techniques viz. Geographic Information System (GIS), False Color composite (FCC) generated from satellite data of project area.

- Land details including forests, private and other land.
- Demarcation of snow fed and rain fed areas for a realistic estimate of the water availability.

(3) Description of Environment and Baseline Data

To know the present status of environment in the area, baseline data with respect to environmental components air, water, noise, soil, land and biology & biodiversity (flora & fauna), wildlife, socio-economic status etc. should be collected with 10 km radius of the main components of the project/site i.e. dam site and power house site. The air quality and noise are to be monitored at such locations which are environmentally & ecologically more sensitive in the study area. The baseline data should be collected for 3 seasons (Pre-Monsoon, Monsoon and Post Monsoon). Flora -Fauna in the Catchment and command area should be documented. The study area should comprise of the following:

- Catchment area up-to the dam site.
- Submergence Area
- Project area or the direct impact area should comprise of area falling within 10 km radius from the periphery of reservoir, land coming under submergence and area downstream of dam upto the point where Tail Race Tunnel (TRT) meets the river.

(4) Details of the Methodology

- The methodology followed for collection of base line data along with details of number of samples and their locations in the map should be included.
- Study area should be demarcated properly on the appropriate scale map.
- Sampling sites should be depicted on map for each parameter with proper legends.
- For forest classification, Champion and Seth (1968) classification should be followed.

(5) Methodology for collection of Biodiversity Data

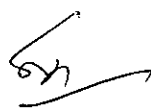
- The number of sampling locations should be adequate to get a reasonable idea of the diversity and other attributes of flora and fauna. The guiding principles should be the size of the study area (larger area should have larger number of sampling locations) and inherent diversity at the location, as known from secondary sources (e.g. eastern Himalayan and low altitude sites should have a larger number of sampling locations owing to higher diversity).

5/2

- The entire area should be divided in grids of 5km X 5km preferably on a GIS domain. There after 25% of the grids should be randomly selected for sampling of which half should be in the directly affected area (grids including project components such as reservoir, dam, powerhouse, tunnel, canal etc.) and the remaining in the rest of the area (areas of influence in 10 km radius form project components). At such chosen location, the size and number of sampling units (e.g. quadrats in case of flora/transects in case of fauna) must be decided by species area curves and the details of the same (graphs and cumulative number of species in a tabulated form) should be provided in the EIA report. Some of the grids on the edges may not be completely overlapping with the study area boundaries. However, these should be counted and considered for selecting 25% of the grids. The number of grids to be surveyed may come out as a decimal number (i.e. it has an integral and a fractional part) which should be rounded to the next whole number.
- The conventional sampling is likely to miss the presence of rare, endangered and threatened (R.E.T.) species since they often occur in low densities and in case of faunal species are usually secretive in behaviour. Reaching the conclusion about the absence of such species in the study area based on such methodology is misleading. It is very important to document the status of such species owing to their high conservation value. Hence likely presence of such species should be ascertained from secondary sources by a proper literature survey for the said area including referring to field guides which are now available for many taxonomic groups in India. Even literature from studies/surveys in the larger landscapes which include the study area for the concerned project must be referred to since most species from adjoining catchments is likely to be present in the catchments in question. In fact such literature form the entire state can be referred to. Once a listing of possible R.E.T. species form the said area is developed, species specific methodologies should be adopted to ascertain their presence in the study area which would be far more conclusive as compared to the conventional sampling. If the need be, modern methods like camera trapping can be resorted to, particularly for areas in the eastern Himalayas and for secretive/nocturnal species. A detailed listing of the literature referred to, for developing lists of R.E.T. species should be provided in the EIA reports.
- The R.E.T. species referred to in this point should include species listed in Schedule I and II of Wildlife (Protection) Act, 1972 and those listed in the red data books (BSI, ZSI and IUCN).

(6) Components of the EIA Study

Various aspects to be studied and provided in the EIA/EMP report are as follows:



A. Physical and Chemical Environment

(i) Geological & Geophysical Aspects and Seismo – Tectonics:

- Physical geography, Topography, Regional Geological aspects and structure of the Catchment.
- Tectonics, seismicity and history of past earthquakes in the area. A site specific study of the earthquake parameters will be done. The results of the site specific earthquake design shall be sent for approval of the NCSDP (National committee of Seismic Design Parameters, Central water commission, New Delhi for large dams.
- Landslide zone or area prone to landslide existing in the study area should be examined.
- Presence of important economic mineral deposit, if any.
- Justification for location & execution of the project in relation to structural components (dam height).
- Impact of project on geological environment.

(ii) Meteorology, Air and Noise:

- Meteorology (viz. Temperature, Relative humidity, wind speed/direction etc.) to be collected from nearest IMD station.
- Ambient Air Quality with parameters viz. Suspended Particulate Matter (SPM), Respirable Suspended Particulate Matter (RSPM) i.e. suspended particulate materials <10 microns, Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NO_x) in the study area at 6 locations.
- Existing noise levels and traffic density in the study area at 6 locations.

(iii) Soil Characteristics

- Soil classification, physical parameters (viz., texture, porosity, bulk density and water holding capacity) and chemical parameters (viz. pH, electrical conductivity, magnesium, calcium, total alkalinity, chlorides, sodium, potassium, organic carbon, available potassium, available phosphorus, SAR, nitrogen and salinity, etc.) (6 locations).

(iv) Remote sensing and GIS Studies

- Generation of thematic maps viz., slope map, drainage map, soil map, land use and land cover map, etc. Based on these, thematic maps, an erosion intensity map should be prepared.
- New configuration map to be given in the EIA Report.

(v) Water Quality

- History of the ground water table fluctuation in the study area.
- Water quality for both surface water and ground water for (i) Physical parameters (pH, temperature, electrical conductivity,

- TSS); (ii) Chemical parameters (Alkalinity, Hardness, BOD, COD, NO₂, PO₄, Cl, SO₄, Na, K, Ca, Mg, Silica, Oil & Grease, phenolic compounds, residual sodium carbonate); (iii) Bacteriological parameter (MPN, Total coliform) and (iv) Heavy Metals (Pb, As, Hg, Cd, Cr-6, total Cr, Cu, Zn, Fe) (10 locations).
- Delineation of sub and micro-watersheds, their locations and extent based on the All India Soil and Land Use Survey of India (AISLUS), Department of Agriculture, Government of India. Erosion levels in each micro-watershed and prioritization of micro-watershed through silt yield index (SYI) method of AISLUS.

B. Water Environment & Hydrology

- Hydro-Meteorology of the project viz. precipitation (snowfall, rainfall), temperature, relative humidity, etc. Hydro-meteorological studies in the catchment area should be established along-with real time telemetry and data acquisition system for inflows monitoring.
- Run off, discharge, water availability for the project, sedimentation rate, etc.
- Basin characteristics
- Catastrophic events like cloud bursts and flash floods, if any, should be documented.
- For estimation of Sedimentation Rate, direct sampling of river flow is to be done during the EIA study. The study should be conducted for minimum one year. Actual silt flow rate to be expressed in ha-m km² year⁻¹.
- Sedimentation data available with CWC may be used to find out the loss in storage over the years.
- Set up a G&D monitoring station and a few rain gauge stations in the catchment area for collecting data during the investigation.
- Flow series, 10 daily with 90%, 75% and 50% dependable years discharges.
- A table of 10-daily water discharges corresponding to 90% dependable year showing the intercepted discharge at the barrage, the environmental flow to be released and the other flow releases downstream of the barrage and spills to be provided in hydrology section of EIA.
- Norms for release of Environmental flows, i.e. 30% in monsoon season, 20% in lean season and 25% in non-monsoon & non-lean season to be followed corresponding to 90% dependable year. A site specific study on minimum environment flow should be carried out.
- Hydrological studies/data as approved by CWC shall be utilized in the preparation of EIA/EMP report. Actual hydrological annual yield may also be given in the report.

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- A minimum of 1 km distance from the tip of the reservoir to the tail race tunnel should be maintained between upstream and downstream projects.

C. Biological Environment

Besides primary studies, review of secondary data/literature published for project area on flora & fauna including RET species shall be reported in EIA/EMP report.

(i) Flora

- Characterization of forest types (as per Champion and Seth method) in the study area and extent of each forest type as per the Forest Working Plan.
- Documentation of all plant species i.e. Angiosperm, Gymnosperm, Pteridophytes, Bryophytes, Lichens (all groups). All species list may be provided.
- General vegetation profile and floral diversity covering all groups of flora including lichens and orchids. A species wise list may be provided.
- Assessment of plant species with respect to dominance, density, frequency, abundance, diversity index, similarity index, importance value index (IVI), Shannon Weiner index etc. of the species to be provided. Methodology used for calculating various diversity indices along with details of locations of quadrates, size of quadrates etc. to be reported within the study area in different ecosystems.
- Existence of National park, Sanctuary, Biosphere Reserve etc in the study area, if any, should be detailed.
- Economically important species like medicinal plants, timber, fuel wood etc.
- Details of endemic species found in the project area.
- Flora under RET categories should be documented using International Union for the Conservation of Nature and Natural Resources (IUCN) criteria and Botanical Survey of India's Red Data list along-with economic significance. Species diversity curve for RET species should be given.
- Biodiversity study, a sub-component of EIA study, is to be carried-out by associating a reputed organisation/institution as recommended by WII, Dehradun or by ICFRE, Dehradun. A list of such institutes is available on MoEF's website.
- Cropping pattern and Horticultural Practices in the study area.

(ii) Fauna

- Fauna study and inventorisations should be carried out for all groups of animals in the study area. Their present status along-with Schedule of the species.

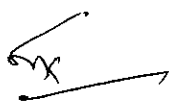
- Documentation of fauna plankton (phyto and zooplankton), periphyton, benthos and fish should be done and analysed.
- Information (authenticated) on Avi-fauna and wildlife in the study area.
- Status of avifauna their resident/ migratory/ passage migrants etc.
- Documentation of butterflies, if any, found in the area.
- Details of endemic species found in the project area.
- RET species-voucher specimens should be collected along-with GPS readings to facilitate rehabilitation. RET faunal species to be classified as per IUCN Red Data list and as per different schedule of Indian Wildlife (Protection) Act, 1972.
- Existence of barriers and corridors, if any, for wild animals.
- Compensatory afforestation to compensate the green belt area that will be removed, if any, as part of the proposed project development and loss of biodiversity.
- Collection of primary data on agricultural activity, crop and their productivity and irrigation facilities components.

D Aquatic Ecology

- Documentation of aquatic fauna like macro-invertebrates, zooplankton, phytoplanktons, benthos etc.
- Fish and fisheries, their migration and breeding grounds.
- Fish diversity composition and maximum length & weight of the measured populations to be studied for estimation of environmental flow.
- Conservation status of aquatic fauna.

E Socio-Economic

- Collection of baseline data on human settlements, health status of the community and existing infrastructure facilities for social welfare including sources of livelihood, job opportunities and safety and security of workers and surroundings population.
- Collection of information with respect to social awareness about the developmental activity in the area and social welfare measures existing and proposed by project proponent.
- Collection of information on sensitive habitat of historical, cultural and religious and ecological importance.
- The socio-economic survey/ profile within 10 km of the study area for demographic profile; Economic Structure; Developmental Profile; Agricultural Practices; Infrastructure, education facilities; health and sanitation facilities; available communication network etc.
- Documentation of demographic, Ethnographic, Economic Structure and development profile of the area.
- Information on Agricultural Practices, Cultural and aesthetic sites, Infrastructure facilities etc.



- Information on the dependence of the local people on minor forest produce and their cattle grazing rights in the forest land.
- List of all the Project Affected Families with their name, age, educational qualification, family size, sex, religion, caste, sources of income, land & house holdings, other properties, occupation, source of income, house/land to be acquired for the project and house/land left with the family, any other property, possession of cattle, type of house etc.
- In addition to socio-economic aspects of the study area, a separate chapter on socio-cultural aspects based upon study on Ethnography of the area should be provided.

(7) Impact Prediction and Mitigation Measures

The adverse impact due to the proposed project should be assessed and effective mitigation steps to abate these impacts should be described.

(i) Air Environment

- Changes in ambient and ground level concentrations due to total emissions from point, line and area sources.
- Effect on soil, material, vegetation and human health.
- Impact of emissions from DG set used for power during the construction, if any, on air environment.
- Pollution due to fuel combustion in equipments and vehicles
- Fugitive emissions from various sources
- Impact on micro-climate

(ii) Water Environment

- Changes in surface and ground water quality
- Steps to develop pisci-culture and recreational facilities
- Changes in hydraulic regime and downstream flow.
- Water pollution due to disposal of sewage
- Water pollution from labour colonies/ camps and washing equipment.

(iii) Land Environment

- Adverse impact on land stability, catchment of soil erosion, reservoir sedimentation and spring flow (if any) (a) due to considerable road construction / widening activity (b) interference of reservoir with the inflowing stream (c) blasting for commissioning of HRT, TRT and some other structures.
- Changes in land use / land cover and drainage pattern.
- Immigration of labour population.
- Quarrying operation and muck disposal.
- Changes in land quality including effects of waste disposal.
- River bank and their stability.
- Impact due to submergence.

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(iv) Biological Environment

- Impact on forests, flora, fauna including wildlife, migratory avi-fauna, rare and endangered species, medicinal plants etc.
- Pressure on existing natural resources.
- Deforestation and disturbance to wildlife, habitat fragmentation and wild animal's migratory corridors.
- Compensatory afforestation-identification of suitable native tree species for compensatory afforestation and green belt.
- Impact on fish migration and habitat degradation due to decreased flow of water.
- Impact on breeding and nesting grounds of animals and fish.

(v) Socio-economic aspects

- Impact on local community including demographic profile.
- Impact on socio-economic status.
- Impact on economic status.
- Impact on human health due to water / vector borne disease
- Impact on increase traffic.
- Impact on Holy Places and Tourism.
- Impacts of blasting activity during project construction which generally destabilize the land mass and leads to landslides, damage to properties and drying up of natural springs and cause noise population will be studies. Proper record shall be maintained of the baseline information in the post project period.
- Positive and negative impacts likely to be accrued due to the project are listed.

(8) Environmental Management Plans

- **Catchment Area Treatment (CAT) Plan** should be prepared micro-watershed wise. Identification of free draining/ directly draining catchment based upon Remote Sensing and Geographical Information System (GIS) methodology and Sediment Yield Index (SYI) method of AISLUS, Deptt. of Agriculture, Govt. of India coupled with ground survey. Areas or watersheds falling under 'very severe' and 'severe' erosion categories should be provided and required to be treated. Both biological as well as engineering measures should be proposed in consultation with State Forest Department for areas requiring treatment. Year-wise schedule of work and monetary allocation should be provided. Mitigation measures to check shifting cultivation in the catchment area with provision for alternative and better agricultural practices should be included.
- **Command Area Development (CAD) Plan** giving details of implementation schedule with a sample CAD plan.
- **Compensatory Afforestation** shall be prepared by the State Forest Department in lieu of the forest land proposed to be diverted for construction of the project as per the Forest (Conservation) Act, 1980.

Choice of plants for afforestation should include native and RET species, if any.

- **Biodiversity and Wildlife Conservation and Management Plan** for the conservation and preservation of rare, endangered or endemic floral/ faunal species or some National Park/Sanctuary/ Biosphere Reserve or other protected area is going to get affected directly or indirectly by construction of the project, then suitable conservation measures should be prepared in consultation with the State Forest Department.
- **Fisheries Conservation and Management Plan** – a specific fisheries management measures should be prepared for river and reservoir. If the construction of fish ladder/ fish-way etc. is not feasible then measures for reservoir fisheries will be proposed. The plan will detail out the number of hatcheries, nurseries, rearing ponds etc. proposed under the plan with proper drawings. If any migratory fish species is getting affected then the migratory routes, time/season of upstream and downstream migration, spawning grounds etc will be discussed in details.
- **Resettlement and Rehabilitation Plan** needed to be prepared on the basis of findings of the socio-economic survey coupled with the outcome of public consultation held. The R&R package shall be prepared after consultation with the representatives of the project affected families and the State Government. Detailed budgetary estimates are to be provided. Resettlements site should be identified. The plan will also incorporate community development strategies. *R&R Plan is to be formulated as per Land Acquisition, Rehabilitation and Resettlement Act, 2013 which came into force w.e.f. 1.1.2014.*
- **Green Belt Development Plan** along the periphery of the reservoir, approach roads around the colonies and other project components, local plant species must be suggested with physical and financial details. Local plant species suitable for greenbelt should be selected.
- **Reservoir Rim Treatment Plan** for stabilization of land slide/ land slip zones, if any, around the reservoir periphery is to be prepared based on detailed survey of geology of the reservoir rim area. Suitable engineering and biological measures for treatment of identified slip zones to be suggested with physical and financial schedule.
- **Muck Disposal Plan** suitable sites for dumping of excavated materials should be identified in consultation with State Pollution Control Board and State Forest Department. All muck disposal sites should be minimum 30 m away from the HFL of river. Plan for rehabilitation of muck disposal sites should also be given. The L-section/cross section of muck disposal sites and approach roads should be given. The plan shall have physical and financial details of the measures proposed.



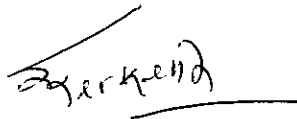
- **Restoration Plan for Quarry Sites and landscaping** of colony areas, working areas, roads etc. Details of the coarse/fine aggregate/clay etc. required for construction of the project and the rock/clay quarries/river shoal sites identified for the project should be discussed along-with the Engineering and Biological measures proposed for their restoration with physical and financial details. Layout map showing quarry sites vis-à-vis other project components, should be prepared.
- **Study of Design Earthquake Parameters:** A site specific study of earthquake parameters should be done. Results of the site specific earthquake design parameters should be approved by National Committee of Seismic Design Parameters, Central Water Commission (NCSDP), New Delhi.
- **Dam Break Analysis and Disaster Management Plan** The outputs of dam break model should be illustrated with appropriate graphs and maps clearly bringing out the impact of Dam Break scenario. The action plan will include Emergency Action and Management plan including measures like preventive action notification, warning procedure and action plan for co-ordination with various authorities.
- **Water, Air and Noise Management Plans** to be implemented during construction and post-construction periods.
- Mitigating measures for **impacts due to Blasting** on the structures in the vicinity.
- **Ground Water Management Plan.**
- **Public Health Delivery Plan** including the provisions of drinking water supply for local community.
- **Labour Management Plan** for their Health and Safety.
- **Sanitation and Solid waste Management plan** for domestic waste from colonies and labour camps etc.
- **Local Area Development Plan** to be formulated in consultation with the Revenue Officials and Village Panchayats. Local skill development schemes should be given. Details of various activities to be undertaken along with its financial outlay should be provided.
- Environmental safeguards during construction including Road Construction.
- **Energy Conservation Measures.**
- **Environmental Monitoring Programme** with physical & financial details covering all the aspects of EMP. A summary of Cost Estimates for all the plans, cost for implementing all the Environmental Management Plans.

(9) In the EMP, a sample CAD plan for a distributary outlet command is also included. Such a plan is to show the alignment of irrigation and

drainage channels. The components of the On Farm Development (OFD) works to be undertaken may be clearly mentioned along with a time schedule for their completion vis-&-vis the progress of irrigation development.

(10) Additional ToR

- i. Three (3) season's data should be collected for the entire project.
- ii. Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provision of Right to Fair Compensation and Transparency in Land acquisition, Rehabilitation and Resettlement Act, 2013.
- iii. The project involves about 238.38 ha of forest land. Forest clearance should be obtained as per the prevailing norms of FC Act, 1980.

A handwritten signature in black ink, appearing to read 'S. K. Singh', is written over a horizontal line.

F.No.22-65/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi – 110003

Dated: 1st May, 2018

Office Memorandum

Sub: Corporate Environment Responsibility (CER) – reg.

The Environment Impact Assessment (EIA) Notification, 2006, issued under the Environment (Protection) Act, 1986, as amended from time to time, prescribes the process for granting prior environment clearance (EC) in respect of certain development projects/activities listed out in the Schedule to the Notification.

1. Sustainable development has many important facets/components like social, economic, environmental, etc. All these components are closely inter-related and mutually re-enforcing. Therefore, the general structure of EIA document, under Appendix-III to the notification, prescribes inter-alia public consultation, social impact assessment and R&R action plan besides environment management plan (EMP).

2. Section 135 of the Companies Act, 2013 deals with Corporate Social Responsibility (CSR) and Schedule-VII of the Act lists out the activities which may be included by companies in their CSR Policies. The concept of CSR as provided for in the Companies Act, 2013 and covered under the Companies (Corporate Social Responsibility Policy) Rules, 2014 comes into effect only in case of companies having operating projects and making net profit as also subject to other stipulations contained in the aforesaid Act and Rules. The environment clearance given to a project may involve a situation where the concerned company is yet to make any net profit and/or is not covered under the purview of the aforesaid Act and Rules. In such cases, the provisions of aforesaid act and Rules will not apply.

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4. In the past, it has been observed that different Expert Appraisal Committees / State Expert Appraisal Committees (EACs/SEACs) have been prescribing different formulation of the Corporate Environment Responsibility (CER) and no common principles are followed. Several suggestions have also been received in this regard which inter-alia states that Greenfield projects and Brownfield projects should be treated differently; no CER should be prescribed whereas there is no increase in air pollution load, R&R, etc., besides streamlining percentage of CER.

5. The Ministry has carried out a detailed stakeholder consultation which inter-alia included meeting with Ministry of Petroleum & Natural Gas, Ministry of Power, Chairmen EACs, FICCI, ASSOCHAM, Gujarat Chamber of Commerce and Industry amongst others.

6. In order to have transparency and uniformity while recommending CER by Expert Appraisal Committee (EAC) / State level Expert Appraisal Committee (SEAC) / District level Expert Appraisal Committee (DEAC), the following guidelines are issued:


- (I) The cost of CER is to be in addition to the cost envisaged for the implementation of the EIA/EMP which includes the measures for the pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV and Compensatory Aforestation, required, if any, and any other activities, to be derived as part of the EIA process.
- (II) The fund allocation for the CER shall be deliberated in the EAC or SEAC or DEAC, as the case may be, with a due diligence subject to **maximum percentage** as prescribed below for different cases:

S.No	Capital Investment / Additional Capital Investment (in Rs)	Greenfield Project - % of Capital Investment	Brownfield Project - % of Additional Capital Investment
I	II	III	IV
1.	≤ 100 crores	2.0%	1.0%
2.	> 100 crores to ≤ 500 crores	1.5%	0.75%
3.	> 500 crores to ≤ 1000 crores	1.0%	0.50%
4.	> From 1000 crores to ≤ 10000 crores	0.5%	0.25%
5.	> 10000 crores	0.25%	0.125%

- (III) The activities proposed under CER shall be worked out based on the issues raised during the public hearing, social need assessment, R&R plan, EMP, etc.
- (IV) The proposed activities shall be restricted to the affected area around the project.
- (V) Some of the activities which can be carried out in CER, are infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, etc.
- (VI) The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.
- (VII) The District Collector may add or delete the activities as per the requirement of the District.
- (VIII) The EAC can vary the above percentage of CER subject to proper diligence, quantification and justification. The EAC based on appraisal, should clearly suggest the activities to be carried out under CER.
- (IX) This CER is not applicable in name change, transfer and amendment involving no additional project investment. In case of amendment in EC involving additional expenditure, CER will be applicable only on the additional expenditure as per column-IV of the table given in para 6(II) above.

7. This issues in supersession of all earlier OMs and guidelines issued in this regard.

8. This issues with the approval of competent authority.


(Sharath Kumar Pallerla)
Director (IA-III-Policy)

- 1. Chairman, CPCB
- 2. Chairmen of all the Expert Appraisal Committees
- 3. Chairperson/Member Secretaries of all the SEIAA/SEACs
- 4. Chairpersons/Member Secretaries of all SPCBs/UTPCCs
- 5. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS (EF&CC)
3. PPS to Secretary (EF&CC)
4. PPS to AS(AKJ) / AS(AKM)
5. PPS to JS(GB) / JS(JT)
6. Website, MoEF&CC
7. Guard File.

FORM-II

(for projects other than linear projects)

Government of Andhra Pradesh

Office of the District Collector

No. 1100/2018/H5 (DFO, Kurnool) *****

Dated 7-12-2018

TO WHOSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment, Forest and Climate Change and Forests (MoEF), Government of India's letter No.11-9/98-FC (pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Right) Act, 2006 ('FRA', for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that 365.66 hectares of Forest land proposed to be diverted in favor of M/s Greenko Energies Private Limited for Proposed Standalone Pumped storage component of Pinnapuram Integrated Renewable Energy Project (IREP) in Kurnool district falls within jurisdiction of Pinnapuram village of Panyam Mandal, Gani village of Gadivemula Mandal, Bramhanapalli and Kalva villages of Orvakal Mandal of Kurnool District of Andhra Pradesh State.

It is further certified that:

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 365.66 hectares of forest area proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub-Division Level Committee(s) and the District Level Committee are enclosed as annexure A to H
- The proposal for such diversion (with full details of the project and its implications, in vernacular/ local language) have been placed before each concerned Gram Sabha of forest-dwellers, who eligible under the FRA;
- The each of concerned Gram Sabha(s), has certified that all formalities/processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion.
- The discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present;
- The diversion of forest land for facilities managed by the Government as required under section 3 (2) of the FRA have been completed and the Gram Sabhas have given their consent to it;
- The rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3 (1) (e) of the FRA.

Encls: As above.

Signature



(Full name and official seal of the District Collector)

 Collector & District Magistrate,
Kurnool District.

Location Map showing 408.68 Ha. (or) 1009.85 Acres of proposed Non-Forest Lands in (2 Bits) in Sy. Nos. 02, 162 to 170 in Bit - I and in Sy. Nos. 03 to 20, 24 to 29, 31 to 33, 35, 36, 107 to 110, 115 to 125 etc., in Kamireddypadu Village and Sy. No. 01 (Part) to 54 & 57 to 65 in Bit - II of Mangupalli Village fields in Ananthasagaram Mandal of Nellore District near Compartment No. 385 of Gowraram RF in Atmakur Range of Nellore Division - Offered by M/s. Greenko Energies Pvt. Ltd., Hyderabad, in lieu of Diversion of 365.66 Ha. Forest Land in Compartment Nos. 113, 114, 115, 116 & 117 of Gani RF in Gani Beat of Bethamcherla Section in Kurnool Range and Division for Establishment of "Standalone component of Pinnapuram IREP" Project.



AREA STATEMENT

	Acres	Ha.
Surveyed Area	: 1009.85	408.68
Govt. Lands	: 20.13	8.15 (-)
Patta lands	: 989.72	400.53

REFERENCE

- Proposed CA Land
- RF Boundary Line

Proposed Compensatory Afforestation lands Bit No. I is approximately 0.29 Kms and Bit - II is Approx. 0.85 Kms. away from the Compartment No. 385 of Gowraram RF.

SK. Arunachal
Forest Beat Officer,
Gowraram Beat.

Y. Mohan
Dy. Range Officer,
Ananthasagaram.

[Signature]
Forest Range Officer,
Atmakur.

Govind
Asst. Conservator of Forests,
KAVALI.

[Signature]
Divisional Forest Officer
Sri Pottisriramulu Nellore

THE RIGHT TO FAIR COMPENSATION AND TRANSPARENCY IN LAND
ACQUISITION, REHABILITATION AND RESETTLEMENT ACT, 2013

ARRANGEMENT OF SECTIONS

CHAPTER I

PRELIMINARY

SECTIONS

1. Short title, extent and commencement.
2. Application of Act.
3. Definitions.

CHAPTER II

DETERMINATION OF SOCIAL IMPACT AND PUBLIC PURPOSE

A.—PRELIMINARY INVESTIGATION FOR DETERMINATION OF SOCIAL IMPACT AND PUBLIC PURPOSE

4. Preparation of Social Impact Assessment study.
5. Public hearing for Social Impact Assessment.
6. Publication of Social Impact Assessment study.

B.—APPRAISAL OF SOCIAL IMPACT ASSESSMENT REPORT BY AN EXPERT GROUP

7. Appraisal of Social Impact Assessment report by an Expert Group.
8. Examination of proposals for land acquisition and Social Impact Assessment report by appropriate Government.
9. Exemption from Social Impact Assessment.

CHAPTER III

SPECIAL PROVISION TO SAFEGUARD FOOD SECURITY

10. Special provision to safeguard food security.

CHAPTER IV

NOTIFICATION AND ACQUISITION

11. Publication of preliminary notification and power of officers thereupon.
12. Preliminary survey of land and power of officers to carry out survey.
13. Payment for damage.
14. Lapse of Social Impact Assessment report.
15. Hearing of objections.

manufacturing zones, as designated in the National Manufacturing Policy;

(iv) project for water harvesting and water conservation structures, sanitation;

(v) project for Government administered, Government aided educational and research schemes or institutions;

(vi) project for sports, health care, tourism, transportation or space programme;

(vii) any infrastructure facility as may be notified in this regard by the Central Government and after tabling of such notification in Parliament;

(c) project for project affected families;

(d) project for housing for such income groups, as may be specified from time to time by the appropriate Government;

(e) project for planned development or the improvement of village sites or any site in the urban areas or provision of land for residential purposes for the weaker sections in rural and urban areas;

(f) project for residential purposes to the poor or landless or to persons residing in areas affected by natural calamities, or to persons displaced or affected by reason of the implementation of any scheme undertaken by the Government, any local authority or a corporation owned or controlled by the State.

(2) The provisions of this Act relating to land acquisition, consent, compensation, rehabilitation and resettlement, shall also apply, when the appropriate Government acquires land for the following purposes, namely:—

(a) for public private partnership projects, where the ownership of the land continues to vest with the Government, for public purpose as defined in sub-section (1);

(b) for private companies for public purpose, as defined in sub-section (1):

Provided that in the case of acquisition for—

(i) private companies, the prior consent of at least eighty per cent, of those affected families, as defined in sub-clauses (i) and (v) of clause (c) of section 3; and

(ii) public private partnership projects, the prior consent of at least seventy per cent. of those affected families, as defined in sub-clauses (i) and (v) of clause (c) of section 3,

shall be obtained through a process as may be prescribed by the appropriate Government:

Provided further that the process of obtaining the consent shall be carried out along with the Social Impact Assessment study referred to in section 4:

Provided also that no land shall be transferred by way of acquisition, in the Scheduled Areas in contravention of any law (including any order or judgment of a court which has become final) relating to land transfer, prevailing in such Scheduled Areas.

(3) The provisions relating to rehabilitation and resettlement under this Act shall apply in the cases where,—

(a) a private company purchases land, equal to or more than such limits in rural areas or urban areas, as may be prescribed by the appropriate Government, through private negotiations with the owner of the land in accordance with the provisions of section 46;

(b) a private company requests the appropriate Government for acquisition of a part of an area so prescribed for a public purpose:

Provided that where a private company requests the appropriate Government for partial acquisition of land for public purpose, then, the rehabilitation and resettlement entitlements under the Second Schedule shall be applicable for the entire area which includes the land purchased by the private company and acquired by the Government for the project as a whole.

appropriate Government, the following members, namely:—

- (a) a representative of women residing in the affected area;
- (b) a representative each of the Scheduled Castes and the Scheduled Tribes residing in the affected area;
- (c) a representative of a voluntary organisation working in the area;
- (d) a representative of a nationalised bank;
- (e) the Land Acquisition Officer of the project;
- (f) the Chairpersons of the panchayats or municipalities located in the affected area or their nominees;
- (g) the Chairperson of the District Planning Committee or his nominee;
- (h) the Member of Parliament and Member of the Legislative Assembly of the concerned area or their nominees;
- (i) a representative of the Requiring Body; and
- (j) Administrator for Rehabilitation and Resettlement as the Member-Convenor.

(3) The procedure regulating the discharge of the process given in this section and other matters connected thereto of the Rehabilitation and Resettlement Committee shall be such as may be prescribed by the appropriate Government.

46. Provisions relating to rehabilitation and resettlement to apply in case of certain persons other than specified persons.—(1) Where any person other than a specified person is purchasing land through private negotiations for an area equal to or more than such limits, as may be notified by the appropriate Government, considering the relevant State specific factors and circumstances, for which the payment of Rehabilitation and Resettlement Costs under this Act is required, he shall file an application with the District Collector notifying him of—

- (a) intent to purchase;
- (b) purpose for which such purchase is being made;
- (c) particulars of lands to be purchased.

(2) It shall be the duty of the Collector to refer the matter to the Commissioner for the satisfaction of all relevant provisions under this Act related to rehabilitation and resettlement.

(3) Based upon the Rehabilitation and Resettlement Scheme approved by the Commissioner as per the provisions of this Act, the Collector shall pass individual awards covering Rehabilitation and Resettlement entitlements as per the provisions of this Act.

(4) No land use change shall be permitted if rehabilitation and resettlement is not complied with in full.

(5) Any purchase of land by a person other than specified persons without complying with the provisions of Rehabilitation and Resettlement Scheme shall be void *ab initio*:

Provided that the appropriate Government may provide for rehabilitation and resettlement provisions on sale or purchase of land in its State and shall also fix the limits or ceiling for the said purpose.

(6) If any land has been purchased through private negotiations by a person on or after the 5th day of September, 2011, which is more than such limits referred to in sub-section (1) and, if the same land is acquired within three years from the date of commencement of this Act, then, forty per cent. of the compensation paid for such land acquired shall be shared with the original land owners.

Explanation.—For the purpose of this section, the expression—

- (a) “original land owner” refers to the owner of the land as on the 5th day of September, 2011;

GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Act, 2013 (No. 30 of 2013) – Andhra Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2014 – Notification – Orders – Issued.

REVENUE (LAND ACQUISITION) DEPARTMENT

G.O.MS.No. 389,

Dated: 20-11-2014.
Read the following:-

- 1) The Gazette of India No.40, dated 27-09-2013 of Ministry of Law & Justice, New Delhi.
- 2) The Gazette of India Notification No.2839, dated 19-12-2013.
- 3) From the Special Chief Secretary & Chief Commissioner of Land Administration, Andhra Pradesh, Hyderabad, Lr.No.G1/1420/2013, dated 23-1-2014.
- 4) From the Special Chief Secretary & Chief Commissioner of Land Administration, Andhra Pradesh, Hyderabad, Lr.No.G1/1420/2013, dated 04.08.2014.
- 5) G.O.Ms.No.316, Revenue (LA) Department, dated 13-09-2014.

ORDER:

The following Notification will be published in an Extra Ordinary Issue of the Andhra Pradesh Gazette, dated 21-11-2014:-

NOTIFICATION

Whereas, the draft rules, namely the Andhra Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2014 were published as required under Section 112 of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (30 of 2013), vide notification of the Government of Andhra Pradesh, Revenue (Land Acquisition) Department in Andhra Pradesh State Extraordinary Gazette No.1, dated 15th September, 2014 for inviting objections and suggestions from all persons likely to be affected there by before the expiry of a period thirty days from the date on which copies of the Gezzette containing the notification were made available to the public.

(2) And whereas, the copies of the Gazzette containing the said notification were made available to the public on the 15th September, 2014.

(3) And whereas, the objections and the suggestions received from the public on the said draft rules have been considered by the Government of Andhra Pradesh.

(4) Now, therefore in exercise of the powers conferred by Section 109 of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Act 30 of 2013), the Government of Andhra Pradesh hereby makes the following rules, as the same having been previously issued in G.O.Ms.No.316, Revenue (Land Acquisition) Department, dated 13-09-2014 and published in the Rules Supplement to Part-I, Extra ordinary of the Andhra Pradesh Gazette No.1, dated 15-09-2014 as required under section 112 of the said Act.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

J.C. SHARMA
PRINCIPAL SECRETARY TO GOVERNMENT

To

The Commissioner of Printing & Stationery (Printing Wing), Chanchalguda, Hyderabad.

(With a request to publish the Notification in the Andhra Pradesh Extraordinary Gazette and supply 1000 copies of the same)

The Special Chief Secretary & Chief Commissioner of Land Administration, A.P., Hyderabad.

All Collectors in the State of Andhra Pradesh.

Copy to:-

The P.S. to Secretary to Hon'ble Chief Minister.

The P.S. to Deputy Chief Minister (Revenue).

The P.S. to Principal Secretary to Government, Revenue Department.

All the Departments of A.P.Secretariat.

SF/SC.

// FORWARDED :: BY ORDER //

SECTION OFFICER

(Annexure Appended)

(Annexure to the G.O.MS.No. 389, Revenue (Land Acquisition) Department, dated 20-11-2014)

ANNEXURE

RULES

CHAPTER - I

General

1. Short title, extent and commencement

- (1) These rules may be called the Andhra Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2014.
- (2) They shall extend to the whole of the State of Andhra Pradesh.
- (3) They shall come into force on the date of their publication in the Andhra Pradesh State Gazette.

2. Definitions

- (1) In these rules, unless the context otherwise requires,-
 - (a) "Act" means the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Act No.30 of 2013);
 - (b) "Appropriate Government" means the State Government and includes the District Collector of the concerned District for any extent of land to be acquired for a public purpose within the jurisdiction of the revenue district ;
 - (c) "Central Rules" means the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (Social Impact Assessment and Consent) Rules, 2014 published by Ministry of Rural Development, Government of India, vide Notification No. G.S.R.574(E), Dated 8th August, 2014.
 - (d) "Collector" means the District Collector and includes the Joint Collector, Additional Joint Collector, Sub Collector/ RDO , Special Collector (LA)/Special Deputy Collector (LA) and any other officer designated by the State Government to perform all or any of the functions of the Collector under the Act;
 - (e) "Form" means Forms appended to these rules ;
 - (f) "Grama Panchayat" means the body constituted for the local administration of a village under section 2(17) of the Andhra Pradesh Panchayat Raj Act, 1994 ;

refuses to refund the said excess amount paid to him, then such amount shall be recovered as an arrear of land revenue invoking the provisions of Revenue Recovery Act, 1864. Such proceedings shall be initiated within three years from the date on which the excess amount is found to have been paid.

29.Limits on extent of land under Section 2(3)(a) read with Section 46 of the Act-

The limits on extent of land beyond which provisions of Rehabilitation and Resettlement under the Act apply, in Cases of purchase by a private company through Private Negotiation with the owner of the land shall be five thousand acres of dry land or equivalent extent of Irrigated Dry or Wet lands in rural areas subject to any further notification as may be notified by Government. However, the provisions of Rehabilitation and Resettlement shall be applicable wherever any habitation is part of such land.

CHAPTER VI

Administrator and Rehabilitation and Resettlement Committee and State Monitoring Committee

30.Power, duties and responsibilities of the Administrator- The Administrator shall exercise the powers and perform the duties and have the responsibilities as follows-

- (a) To conduct a survey and undertake a census of the affected families in the manner and within time as provided under these rules;
- (b) To prepare a draft Rehabilitation and Resettlement Scheme;
- (c) To publish the draft scheme by the mode provided under these Rules;
- (d) To make the draft scheme available to the concerned persons and authorities;
- (e) To organize and conduct public hearings on the draft scheme;
- (f) To provide an opportunity to the Requiring Body to make suggestions and comments on the draft scheme;
- (g) To submit the draft scheme to the Collector;
- (h) To publish the approved Rehabilitation and Resettlement Scheme in the affected area;
- (i) To help and assist the Collector in preparing the Rehabilitation and Resettlement award;
- (j) To monitor and supervise the implementation of the Rehabilitation award;
- (k) To assist in post-implementation audit of Rehabilitation and Resettlement, and
- (l) Any other work required to be done for Rehabilitation and Resettlement.

31.Rehabilitation and Resettlement Committee at Project Level- (1) The appropriate Government shall under Section 45(1) and (2) constitute a Rehabilitation and Resettlement Committee at project level to monitor and review the progress and

No. J-12011/12/2018-IA-I (R)
Government of India
Ministry of Environment, Forest & Climate Change
(IA.I Division)

Indira Paryavaran Bhawan
3rd Floor, Vayu Wing
Jor Bagh Road
New Delhi-3

Dated: 14th July, 2020

To

M/s Greenko Energies Private Limited
Plot No. 1071, Road No. 44
Jubilee Hills, Hyderabad-500033
Telangana
Email id: envifor.irepap@greenkoenergyprojects.com

Sub: Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool, Andhra Pradesh by M/s Greenko Energies Private Limited - regarding Environmental Clearance

Sir,

This has reference to your online proposal no. IA/AP/RIV/85218/2018 and your letter No. IREP/MoEF&CC/EC/20181113 dated 13.11.2018 on the above mentioned subject.

2. The above referred proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric projects in its 20th meeting held on 27.11.2018. The comments and observations of EAC on the project may be seen in the Minutes of the meeting which are available on the web-site of this Ministry.
3. Pinnapuram IREP has been conceived as integrated project with solar, wind and pumped storage components. GoAP has approved the project with 1000 MW Solar, 550 MW Wind & 1200 MW of Standalone Pumped Storage capacities to be developed in Phase I. All three components of Pinnapuram IREP are in close vicinity of each other and therefore power from all three components will be pooled into common pooling station and will be connected to PGCIL/CTU sub-station at Orvakallu for further supply into the National Grid. Proposed Standalone Pumped Storage Project (1200MW) is a part of Pinnapuram Integrated Renewable Energy Project (IREP). Environmental Clearance is being sought for Standalone Pumped Storage component only. Proposed project is located near village Pinnapuram in Panyam Mandal District Kurnool of Andhra Pradesh.

Terms of Reference (ToR) to Pinnapuram IREP of 1000 MW project was accorded by Ministry of Environment Forests and Climate Change (MoEF&CC), Government of India vide letter no. J-12011/12/2018-IA. I(R), dated: 17.05.2018. Subsequently, amendment to ToR for Standalone Pumped storage component (1200 MW) of Pinnapuram IRE Project was accorded by this Ministry vide letter no. J-12011/12/2018-IA. I (R) dated 25.09.2018 for change in installed capacity, location, land, etc. Public hearing was held on 02.11.2018 near Mandal Parishad Upper Primary School, Pinnapuram, Panyam Mandal, Kurnool District, Andhra Pradesh. EIA report was submitted to the Ministry on 13.11.2018.

Project Proponent (PP) submitted in the EIA report and as informed to the EAC in the 20th meeting that the project envisages creation of two new reservoirs near Pinnapuram village in Panyam Mandal, which is about 81 km from Kurnool, Andhra Pradesh. It involves non-consumptive re-utilization of 1.20 TMC of water to be taken from existing Gorakallu Reservoir to fill up Pinnapuram Upper reservoir. The Geographical coordinates of the proposed Pinnapuram upper reservoir are at longitude 78°15'13" East and latitude is 15°36'26" North and that of lower reservoir are 78°15'30" E and 15°37'26" N. The full reservoir level and gross storage capacity of Upper reservoir are EL +463.00 m and 1.37 TMC, respectively whereas full reservoir level and gross storage capacity of Lower reservoir are EL +340.00 m and 1.42 TMC, respectively. The scheme envisages construction of Rock fill embankments of average height of around 12 m to 14 m with maximum of 33 m height in lower reservoir and 35 m in upper reservoir for very short reach; 45 m high RCC Intake structure; 6 Nos. of 760 m long and 7.0 m diameter inclined circular steel lined Penstock/ Pressure Shaft five for each unit of 200 MW and one bifurcated into two penstocks to feed two units of 100 MW; a surface Power house having an installation of 7 Nos. reversible Francis turbine - 5 each of 200 MW capacity and 2 each of 100 MW capacity; operating under a rated head of 119.27 m in generating mode and 125.77 m in pumping mode ;70 m wide concrete lined Tailrace channel with FSD of 6.00 m and 1300 m long connecting Tail race channel to the lower reservoir.

6. PP submitted that for the development of Standalone Pumped Storage component of Pinnapuram IREP, land would be acquired for construction of project components, reservoir area, muck dumping, quarrying, construction camps and colony. etc. Based on the final project layout, land requirement has been finalized as 713.65 ha. Online application for diversion of 365.66 ha of forestland has been submitted vide proposal No. FP/AP/HYD/35371/2018 dated 28.08.2018. The Ministry of Environment, Forest & Climate change had issued in-principle approval for diversion of 365.66 Ha forestland for construction of pumped storage project in Kurnool Forest Division, Kurnool District of Andhra Pradesh in favour of M/s Greenko Energies Pvt. Limited on 23.04.2020. PP submitted that there is no National Park/Wildlife Sanctuary within 10 km radius of the project area. Rollapadu Wildlife Sanctuary is about 11.50 km from the Lower Reservoir area of the Pinnapuram IRE Project. **Total cost of the project is about Rs. 5468.03 Crores.**

7. Project benefits: Pinnapuram IREP has been conceived as integrated project with solar, wind and pumped storage components that can supply Schedulable Power on Demand (SPOD) which is Dispatchable & Schedulable Renewable Energy. The Project would facilitate employment creation for 2,350 people during construction (2,000) and operation (350).
8. The proposal was earlier considered in the 20th EAC meeting on 27.11.2018. After detailed deliberations, and considering all the facts of the project as presented by the PP including the Public Consultation, EAC has recommended the proposal for grant of Environmental Clearance. Accordingly, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendments, subject to compliance of the Standard Environmental Conditions as enumerated in the Annexure I and following additional conditions:
 - i. Approval from Competent Authority for allocation of 1.2 TMC of water on a non-consumptive basis from the Gorakallu Reservoir shall be obtained.
 - ii. The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP reports and a sum of **Rs. 11839.55 lakhs**, 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.
 - iii. Investment of **Rs 27.35 Crore** under Corporate Environmental Responsibility (CER) shall be strictly utilized for the activities proposed as per the Ministry's office memorandum dated 01st May, 2018. Activities proposed by the Project Proponent under CER includes provision to following focus area viz., education (200.00 lakhs) Health care (550.0 lakhs), Infrastructure development (Rs. 425.0 lakhs), Skill Development and Training for improved job opportunities (Rs. 1100.00 lakhs), Common Interest Activity (Rs. 150.00 lakhs), Environment Conservation and Protection Awareness (Rs. 15.00 lakhs), Sports (Rs. 120.00 lakhs), Agriculture and Animal Husbandry (Rs. 75.00 lakhs) and Rain Water Harvesting (Rs. 100.00 lakhs). Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages.
 - iv. The clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.
 - v. After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.
 - vi. Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged.

- vii. Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- viii. Necessary permission to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.
- ix. Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project, etc.
- x. Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.
- xi. All required permissions if any should be taken for the proposed Muck Dumping areas. Adequate protection measures should be taken up to avoid any spillage of muck to the adjoining agricultural fields.
- xii. Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages like maintaining drinking water supply, providing health care facilities, etc.
- xiii. Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project.
- xiv. Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.
- xv. Approval of Central Electricity Authority may be obtained for 1200 MW Pumped Storage Project.
- xvi. Any other clearances from any other organizations/departments as applicable to the project shall be obtained.

This has approval of the Competent Authority.

Yours faithfully,



(Dr. S. Kerketta)

Director-IA.I

Copy to:

1. The Secretary, Ministry of Power, Sharm Shakti Bhawan, Rafi Marg, New Delhi-1.
2. The Secretary, Ministry of Water Resources, Sharm Shakti Bhawan, Rafi Marg, New Delhi-3.
3. The Chairman, Central Electricity Authority, Sewa Bhawan R.K. Puram, New Delhi-66.
4. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan R.K. Puram, New Delhi-110066.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, Delhi-32.
6. The Deputy Director General, Regional Office (SEZ), Ministry of Environment, Forest & Climate Change, 1st and 2nd Floor, Handloom Export Promotion Council, 34 Cathedral Garden Road, Nungambakkam, Chennai-34.
7. The Principal Secretary Environment, Science and Technology, Government of Andhra Pradesh, Secretariat Office, 4th Block, Ground Floor, Room No.187, Velagapudi, Amaravathi- 38, Andhra Pradesh.
8. The Chairman, Andhra Pradesh Pollution Control Board, D. No. 33-2-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada-8. Andhra Pradesh
9. The District Collector, Karnool District, Collectorate Lane, Alluri Sitarama Raju Nagar, Opposite of Govt. General Hospital, Kurnool, Andhra Pradesh.
10. NIC Cell- request to upload on the MoEF website.
11. Guard File/Monitoring File


(Director-IA.I)

Standard EC Conditions for River Valley and Hydroelectric projects

I. Statutory compliance:

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

II. Air quality monitoring and preservation

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

- iii. Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.

III. Water quality monitoring and preservation

- i. 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.
- ii. 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.

IV. Noise monitoring and prevention

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

V. Waste management

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

VI. Green Belt and Wildlife Management

- i. Wildlife Conservation Plan approved by the Chief Wildlife Warden shall be implemented in consultation with the local State Forest Department.
- ii. 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.

- iii. Compensatory afforestation programme shall be implemented as per the plan approved.

VII. Public hearing and Human health issues

- i. Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.
- ii. Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.
- iii. Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.
- vi. Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.
- vii. Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Disaster Management Plan.

VIII. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 01.05.2018, as applicable, regarding Corporate Environment Responsibility.
- ii. 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

- iii. The company shall have a well laid down environmental policy duly approved 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 shareholder's / 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.
- iv. 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 report to the head of the organization.
- v. 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.
- vi. Post EIA and SIA report 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.
- vii. Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.

IX. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by 5 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.
- ii. 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.

- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

- xiii. 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.
- xiv. 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.
- xv. 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.

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes that the muck disposal sites have been identified in the Non-Forest Land. Ministry of Environment, Forest & Climate Change (MoEF & CC), IA-Division while granting Environmental Clearance to the Project has duly approved the Muck Disposal Plan. After completion of the muck disposal activities, the muck disposal sites will be appropriately stabilized and reclaimed in consultation as per the Muck Disposal Plan approved in Environmental Clearance and shall be reclaimed in consultation with the State Forest Department.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

Name: Gopi Krushna N

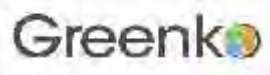
Authorised Signatory

**ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR
STANDALONE PUMPED STORAGE COMPONENT (1200 MW) OF
PINNAPURAM INTEGRATED RENEWABLE ENERGY PROJECT
Volume-I (Sector 1(c); Cat "A")**



NOVEMBER 2018

Prepared for:



GREENKO ENERGIES PRIVATE LIMITED, HYDERABAD

Prepared by:



R. S. Envirolink Technologies Pvt. Ltd.

403, BESTECH CHAMBER COMMERCIAL PLAZA,
B-BLOCK, SUSHANT LOK-I, GURGAON
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Quality Council of India

National Accreditation Board for Education & Training



CERTIFICATE OF ACCREDITATION

R S Envirolink Technologies Pvt. Ltd., Gurugram

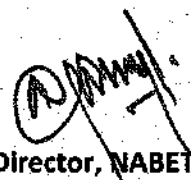
403, Bestech Chamber Commercial Plaza, B Block, Sushant Lok 1, Gurugram – 122009

Accredited as Category - A organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA-EMP reports in the following Sectors:

Sl. No.	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals- opencast only	1	1 (a) (i)	A
2	River Valley projects	3	1 (c)	A
3	Oil & gas transportation pipeline (crude and refinery/ petrochemical products), passing through national parks/ sanctuaries/coral reefs /ecologically sensitive Areas including LNG terminal	27	6 (a)	A
4	Jetties only	33	7 (e)	A
5	Highways	34	7 (f)	A

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC and Supplementary minutes dated Nov 15, 2019 and Jan 31, 2020 dated posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/20/1237 dated Feb 18, 2020. The accreditation needs to be renewed before the expiry date by R S Envirolink Technologies Pvt. Ltd., Gurugram following due process of assessment.


Sr. Director, NABET
Dated: Feb 18, 2020

Certificate No.
NABET/EIA/1922/RA 0152

Valid till
August 14, 2022

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

on temporary basis. This influx of people in otherwise isolated area may lead to various social and cultural conflicts during the construction stage. Developers need to take help of local leaders, Panchayat and NGOs to ensure minimum impact on this count.

c) Increased incidence of Diseases

Large scale activity in the area due to the proposed project may become a cause of spread different types of diseases in the project area due to following reasons:

- Project requires long-term input of labour from outside the area.
- Project requires that significant numbers of project employees be separated from their families for long periods of time.
- Project involves the creation of large, temporary construction camp(s).
- Increases mobility of people in and out of the area (job seekers, formal and informal service providers).
- Requires participation / resettlement of the local population.

4.2 MEASURES FOR MINIMIZING/OFFSETTING ADVERSE IMPACTS

Pollution generation mainly during construction phase will be in the form of air, water and noise pollution; which will be mitigated by adopting various mitigation measures during construction activities as discussed in later section under the head, "Mitigation Measures".

Other impacts of projects such as muck generation, quarrying, worker's health and safety, waste generation from labour colonies, impact on workers' health, impact of tree cutting for fuel etc. will be minimized by implementing various management plans prepared to address these specific impacts with a view to minimize adverse impacts, as discussed below:

4.2.1 Muck Management Plan

Proposed Standalone Pumped storage component of Pinnapuram Integrated Renewable Energy Project (IREP) is in Kurnool District of Andhra Pradesh. Proposed Scheme will involve construction of Rock fill embankments of average height of around 12m to 14m with maximum of 33m height in lower reservoir and 35m in upper reservoir for very short reach for creation of Standalone Pumped storage component of Pinnapuram Integrated Renewable Energy Project reservoirs. Water is proposed to be diverted through five numbers of independent penstocks and one number of independent penstocks bifurcated into two from Power block of Pinnapuram IREP upper reservoir. A surface Power House will be located on the downstream of the power block and shall be equipped with five turbines and a pump/turbine having generating/pumping capacity of 200MW/244MW and two units of 100MW/130MW, respectively. The layout map of the project showing main construction sites and water conductor system is given at **Figure 4.1**.

4.2.1.1 Quantity of Material to be excavated

The construction activities of the project would generate muck from excavation of various project structures. The total quantity of muck likely to be generated from excavation including construction of roads is about 9.73 Mcum. The component-wise quantity of muck to be generated is given at **Table 4.6**. However, after the utilization of muck for different project components and considering the swell factor of 40% for excavated material, the total quantity

of muck to be disposed shall be **2.97 Mcum**. The entire excavated material is proposed to be dumped at one location identified specifically for this purpose.

Table 4.6: Quantity of muck to be disposed

S. No.	Description	Quantity in MCum
1	Total quantum of muck generated from the project	9.73
2	Total quantity of aggregate requirement	0.58
3	Total quantity of Rockfill	7.03
4	Total quantity to be utilised = (2+3)	7.61
5	Quantity of muck to be disposed = (1-4)	2.12
6	Total quantity of muck to be disposed after considering Swelling factor for loose muck @40%	2.97

4.2.1.2 Muck Disposal Site

For the disposal of 2.97 MCum of muck an area of 21 Ha has been identified. The disposal site was identified taking into consideration availability of suitable area, minimum distance from generation sites.

4.2.1.3 Criteria for Selection of Dumping Site

The following points were considered and followed as guidelines for finalization of the areas to be used as dumping sites:

- i. The dumping sites have been selected as close as possible to the project area to avoid long distance transport of muck.
- ii. The site is free from any landslides or creep and care has been taken that the sites do not have a possibility of toe erosion and slope instability.
- iii. There is no active channel or stream flowing through the dumping sites.
- iv. The site is away from human settlement areas.

The identification of muck disposal areas was done in line with the topographic and site-specific conditions as specified above.

Table 4.7: Details of muck disposal site

S. No.	Chainage	Area (sq m)	Capacity in Cum	Total muck to be dumped in MCum
1	0 m	7558.77	0	-
2	150 m	8035.99	820633.25	-
3	300 m	8540.65	1243248.00	-
4	500 m	7361.25	1225637.5	-
	Total	31496.7	3289518.8	2.97

4.2.1.4 Methodology of Dumping

The muck that needs disposal would be piled at ϕ (angle of repose) maximum of 30° at the proposed dumping site. The description regarding the stabilization of the stacked material along the proposed roads has been discussed in the following paragraphs.

The options like dumping muck in stages and allowing it to consolidate/settle through the monsoon, compacting the dumped muck with Bulldozer movement, zoning of the dump judiciously to ensure the stability of 30° slope under all superimposed conditions will be

explored and utilised. The plan and cross-sections of the proposed muck dumping site is given at **Figure 4.2 & 4.3**.

The main objectives of process of muck dumping and restoration of these muck disposal sites are:

- To protect and control soil erosion;
- To create greenery in the muck disposal area;
- To improve and develop the sites into recreational site;
- To ensure maximum utilization of muck for the construction purpose;
- To develop the muck disposal site/ dumping yard to blend with the surrounding landscape; and
- To minimise damages due to the spoilage of muck in the project area.

In Standalone Pumped storage component of Pinnapuram Integrated Renewable Energy Project a scientific approach and methodology was followed for identification of the dumping site. All possible alternate sites were inspected and examined before rejecting or selecting any site. The dumping site is characterized by:

- i) no forest cover,
- ii) the populated /settlement areas are away from the dumping site and therefore will have least impact on human settlements, and
- iii) The identified muck site is close to the area of generation to avoid hazards related to transport of muck for long distances and minimizing traffic problems.

The generated muck will be carried in dumper trucks covered properly tied to the vehicle in line with international best practices. All precautionary measures will be followed during the dumping of muck. All dumpers will be well maintained to avoid any chances of loose soil from being falling during the transportation. All routes will be periodically wetted with the help of sprinklers prior to the movement of dump trucks. Dumping would be avoided during the high-speed wind, so that suspended particulate matter (PM₁₀) levels could be maintained. Further, the dumping will be avoided during heavy traffic. After the dumping the surface of dumps will be sprayed with water with the help of sprinklers and then compacted.

The capacity/volume of the muck dumping sites is more than the volume of the muck to be disposed i.e. for 2.97 Mcum of muck to be disposed and area having a capacity of 3.28 Mcum has been identified (**see Table 4.7**). The spare capacity has been earmarked for temporary storage of usable muck, traffic movement of dumpers and lifters. The spoil from various construction sites would be disposed of at designated site in a controlled and orderly manner. All measures would be adopted to ensure that the dumping of muck does not cause injury or inconvenience to the people or the property around the area. The general topography of the disposal area has a very mild slope. The spillage of muck proposed to be prevented by making concrete retaining walls to retain the piled muck. The top surface would be levelled and graded after the capacity of any dumping site is exhausted. The top surface will be covered with soil and grass seeding will be ensured to promote vegetation cover.

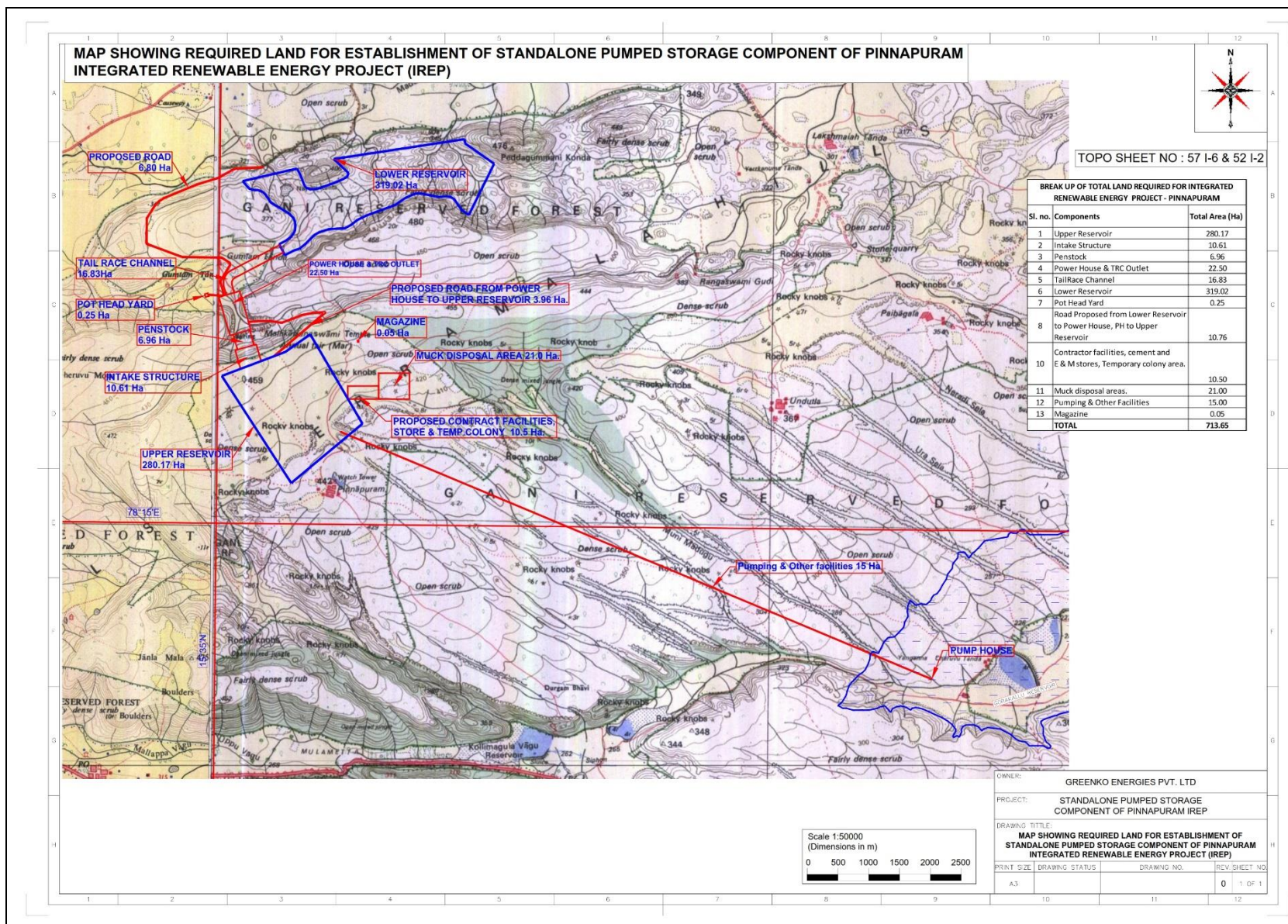


Figure 4.1 : Layout Plan of Pumped Storage component of Pinnapuram IREP showing location of muck disposal site

Suitable retaining walls shall be constructed prior to dumping of muck, and terraces would be developed to support the muck on vertical slope and for optimum space utilization. Loose muck would be compacted layer-wise. The compacted muck will be ultimately covered with fertile soil, and suitable plants will be planted adopting suitable bio-technological measures (see Figure 4.2).

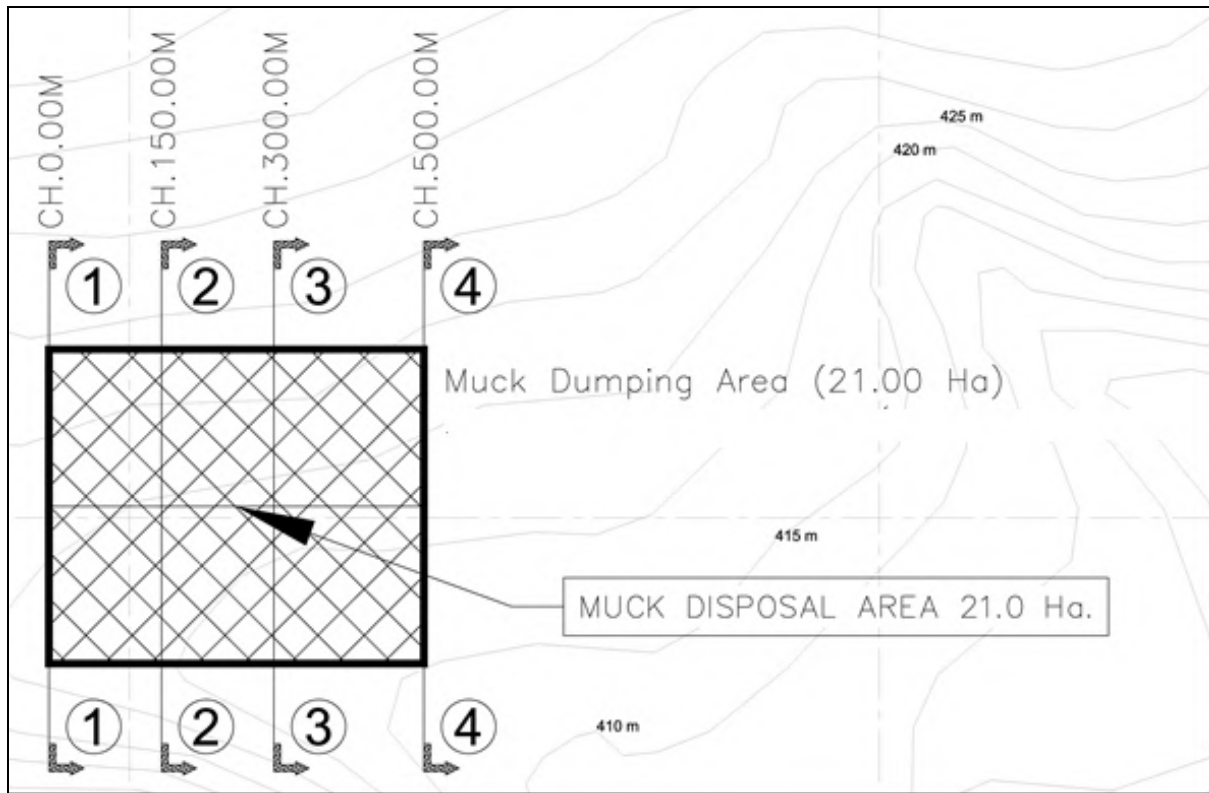


Figure 4.2 : Plan of Muck Dumping Site

4.2.1.5 Rehabilitation of Muck Disposal Site

The Rehabilitation plan of muck dumping site includes engineering and biological measures. The project authorities would ensure that the dumping yards blend with the natural landscape to develop the site with patches of greenery in and around it. The site can also be developed later as recreational park or any other purpose with sufficient greenery by planting ornamental plants. The muck dumping site would be developed as Eco-Park which would not only in rehabilitation of disposed muck but also help in propagating biodiversity conservations measures.

The following engineering and biological measures have been proposed for the development of spoiled areas.

a) Engineering Measures

For stacking of dumped material, concrete reinforced retaining wall is proposed to be built before dumping of any material on the site (refer Figure 4.2). The minimum length of dumping site is 1940m and height of retaining wall is proposed to be 6m (see Figure 4.3 & 4.4). The retaining wall shall have RCC base of 100m thick and a width of about 4.5 m. The masonry wall is proposed with weeping pipes with PVC pipes of 100mm for drainage. The levelling & Sloping would be done after dumping the material after every cycle and simultaneously improving the drainage of the disposal site.

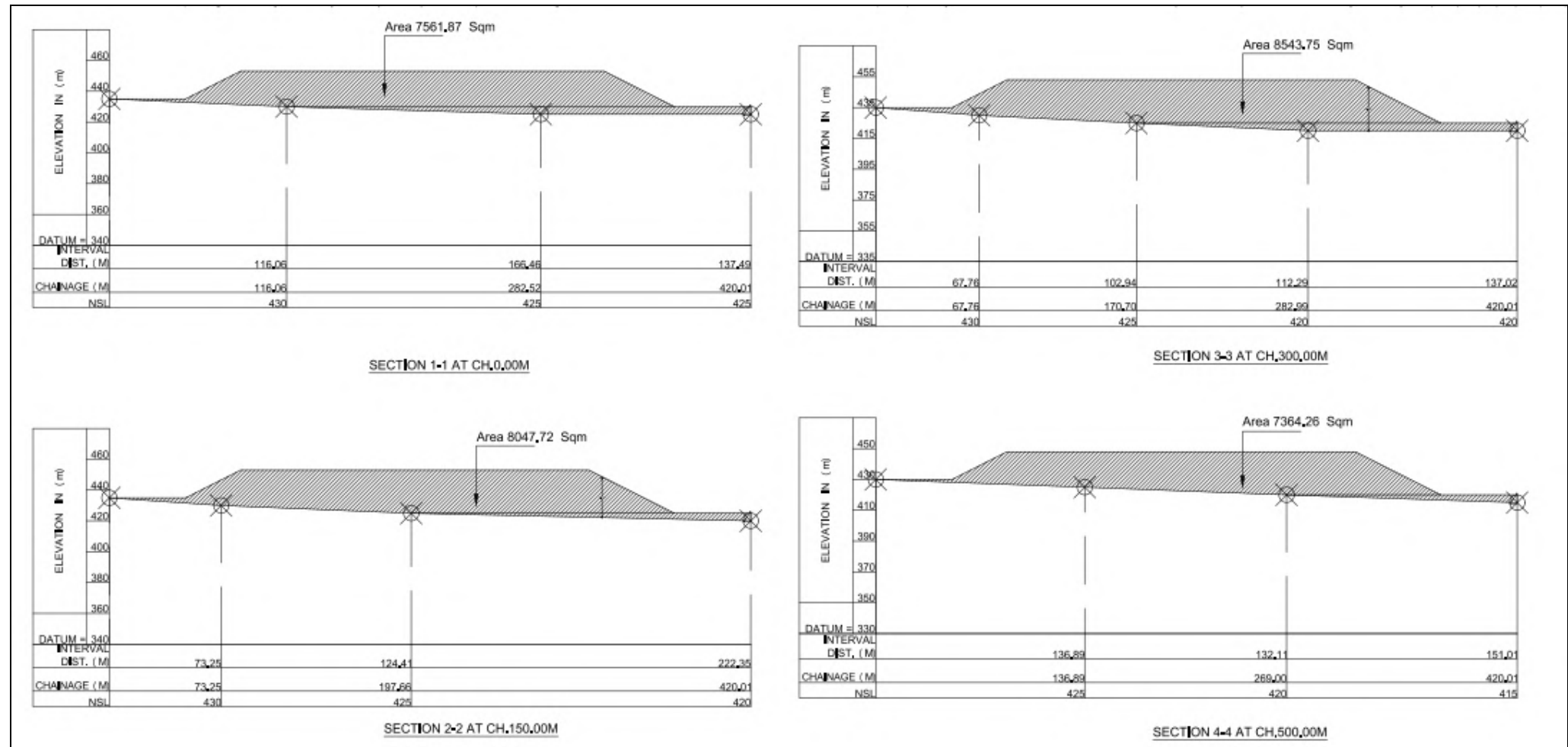


Figure 4.3 : Cross-sections of Muck Dumping Site

All the approach road to various project structures will be constructed by with minimal environmental damage. The methodology consists in developing the formation width is half cutting and half filling, so that the materials obtained from cutting are utilised in filling. The excavation on hill side will be done to get a stable slope for the materials encountered. At places breast wall, gabion walls shall be done in natural slope to retain filled material, particularly where there is problem of retaining the slope.

i) Retaining Wall

Total area for the dumping of muck is 21.0 ha which can accommodate more than **3.28 Mcum** though the estimated muck to be disposed is **2.97 Mcum**. The height of the retaining wall will be approximately 6 m. A typical sketch of the retaining wall is given at **Figure 4.4**. Total financial outlay for the retaining walls is **Rs.332.10** lakhs, and breakup is given in **Table 4.8**.

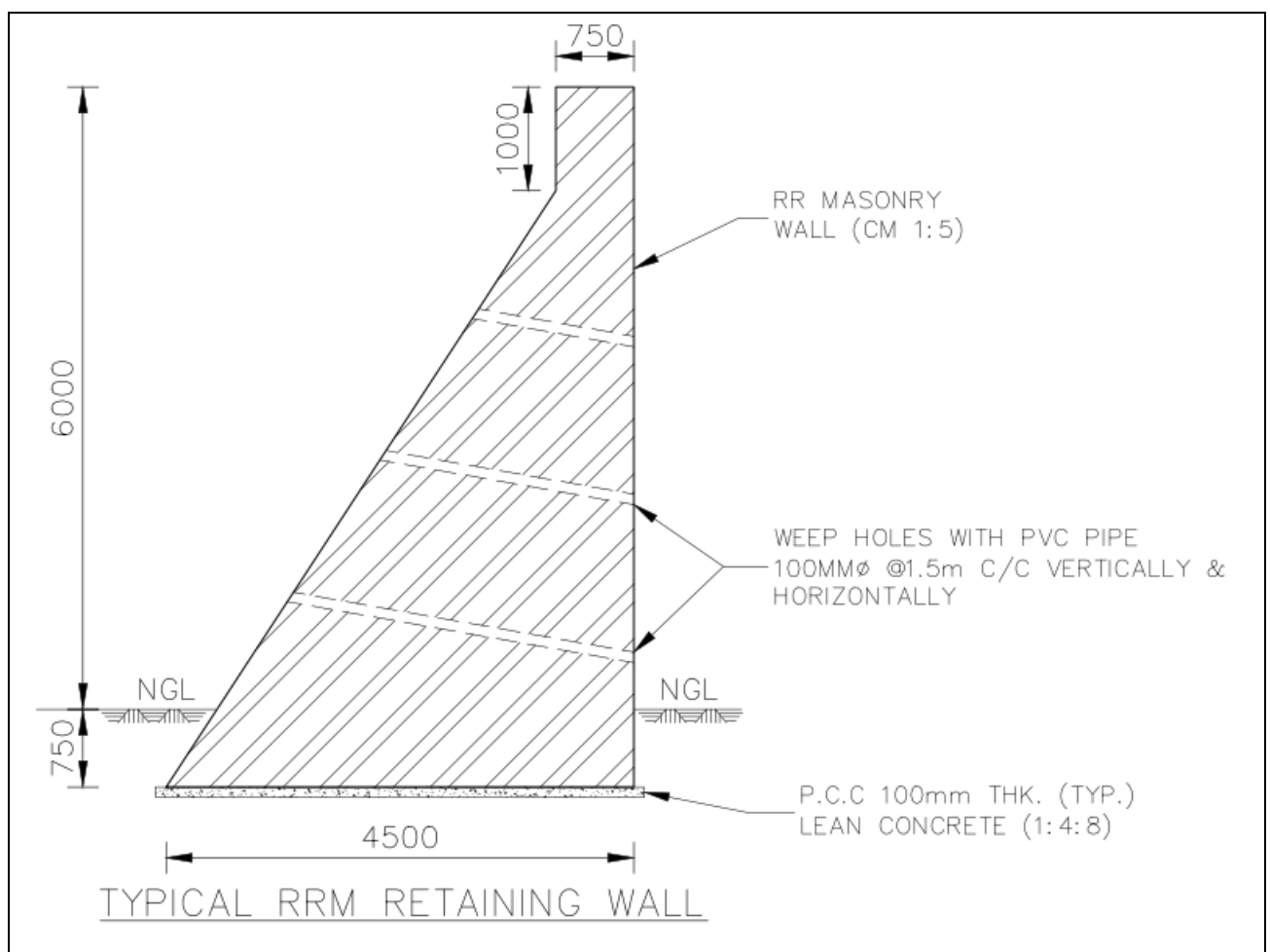


Figure 4.4 : Cross-section of Retaining Wall

ii) Compaction

Compaction is an engineering measure, which would reduce bulk density of the muck thereby optimising the use of muck disposal area and would make it suitable for the plantation and other biological measures. Top surface would be levelled and graded to make the alternative use. The muck will be spread in layers of 500-700mm thick layers. Top surface would be levelled and graded to make the alternative use. On top a layer of soil would be spread to make the land suitable for plantation. The total cost for the process of compaction is **Rs. 50.00 lakhs**.

iii) Fencing

Fencing is a bio-engineering measure. After rehabilitation of muck the dumping area need protection for some time from disturbing by human and domestic animals. For this reason, fencing around the muck deposited is required. Barbed wire strands with two diagonal strands, clamped to wooden/ concrete posts placed at 3 m distance are proposed around the dumping piles. Project authorities will establish temporary wind barriers around 3 sides of dumps in close of settlement area.

Table 4.8: Estimated Cost of Engineering Measures

S. No.	Particular	Volume (cum)	Rate in Rs./cum	Cost in Rs. Lakhs
1	Earthwork for foundation	3281	135	4.43
2	PCC 100 mm Thick M10 Grade Concrete	386	3500	13.51
3	R.R. Masonary	10440	2450	255.76
4	Weep Holes with PVC Pipe 100 mmØ @1.5m C/C Vertically & Horizontally	7000	120	8.4
5	Compacting and land leveling, etc.	LS	LS	50.00
	Total			332.10

b) Biological Measures

Top surface area of the dumping is about 21.0 ha. This area will be treated for the purpose of plantation. Vegetation cover controls the hydrological and mechanical effects on soils and slopes. Therefore, biological measures to stabilize the loose slope are essential. To implement the biological measures in dumping area the following activities would be taken into account. The biological measures include the following:

i) Soil treatment

Muck dumped at various sites is not considered to be nutrient rich as it is excavated from tunnels and other structures. In order to make it suitable for the plantation it will be provided bio treatment.

ii) Plantation

The selected species will be planted after their nurseries have been developed. The dumping areas are very small therefore; separate nursery would not be required. A nursery would be developed for the raise saplings for revegetation of dumping area. Nearly 1-2 years old saplings would be used for the plantation. Grasses and herbaceous species would be used in the inter space of tree and shrub species. They will help in providing the continuous chain of support in retaining debris, reinforcing soil and increasing the infiltration capacity of the area.

After the process of compaction dumping site will be available for the plantation, in consultation with the horticultural department as well as forest department.

The afforestation with indigenous plant species of high ecological and economic value which can adapt to local habitat will be undertaken with 400-600 plants per hectare depending upon the canopy cover required. Major tree species which would be planted are listed in table below.

Family	Scientific Name of Plant Species	Habitat
Acanthaceae	<i>Justicia adhatoda</i>	Shrub
Anacardiaceae	<i>Mangifera indica</i>	Tree
Anacardiaceae	<i>Semecarpus anacardium</i>	Tree
Anonaceae	<i>Polyalthia longifolia</i>	Tree
Apocyanaceae	<i>Wrightia tinctoria</i>	Tree
Apocynaceae	<i>Nerium indicum</i>	Shrub
Bignoniaceae	<i>Jacaranda mimosifolia</i>	Tree
Combretaceae	<i>Terminalia catappa</i>	Tree
Euphorbiaceae	<i>Jatropha curcas</i>	Shrub
Fabaceae	<i>Albizia lebbbeck</i>	Tree
Fabaceae	<i>Bauhinia racemosa</i>	Tree
Fabaceae	<i>Cassia fistula</i>	Tree
Fabaceae	<i>Dalbergia paniculata</i>	Tree
Meliaceae	<i>Azadirachta indica</i>	Tree
Moringaceae	<i>Moringa concanensis</i>	Tree
Rutaceae	<i>Aegle marmelos</i>	Tree
Verbenaceae	<i>Vitex negundo</i>	Shrub

The estimated cost of these measures would be **Rs.148.75 lakh**. This cost includes the cost of turbing of slopes, preparation of ground, spreading of manure, etc., providing 5 cm of soil cover and transportation and carriage. It also includes the cost of fencing, irrigation, watch and ward, etc. (see Table 4.9).

Table 4.9: Total financial outlay for the biological measures at dumping sites

S. No.	Particulars	Quantity	Rate (in Rs.)	Amount (Rs. in lakhs)
1	Rolling of Muck	2.97 Mcum	-	Included in Engineering measures
2	Pitting (size: 0.45 m x 0.45 m x 0.45 m)	25000	75.00	18.75
3	Manure and soil filling in pits including transportation	-	Lumpsum	25.00
4	Raising of plants (including nursery cost, manure, transport, etc.)	-	Lumpsum	75.00
5	Fencing, maintenance, watering, transport, etc.	-	Lumpsum	30.00
	Total			148.75

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes that the trees available between Full Reservoir Level (FRL) and FRL-4 meters shall not be felled.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby agree to provide free water for all forest related projects.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that no labor camp will be established on the forest land and provide alternate fuels to the workers and Staff working during construction.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna N

Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertakes that the boundary of the diverted forest land demarcation on ground is under progress and shall be completed before taking over of the forest land.

Date: 14.04.21

Place: Hyderabad



Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that the layout plan of the proposal shall not be changed without prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal.

Date: 14.04.21

Place: Hyderabad



Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department, or person without prior approval of the Central Government.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna
Name: Gopi Krishna N
Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that no damage to the flora and fauna of the adjoining area shall be caused.

Date: 14.04.21

Place: Hyderabad



Name: Gopi Krushna N

Authorised Signatory

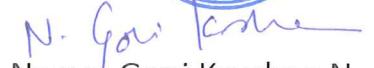
Certificate of Undertaking

Mis Greenko Energies Private Limited hereby affirm and undertakes that the possibility of tree translocation will be evaluated and implemented in consultation with the local forest department wherever required.

Date: 14-04-21

Place: Hyderabad





Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby undertakes to submit annual self-compliance report in respect of forest clearance conditions stipulated, to the State Government, Concerned Regional Office, and the Ministry by the end of March every year regularly after getting of Stage II approval.



Date: 14.04.21

Place: Hyderabad

N. Gopinath

Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that there will be no violation to the provisions of Forest (Conservation) Act 1980



Date: 14.04.21

Place: Hyderabad


Name: Gopi Krushna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake to comply with any condition that is stipulated by the concerned Regional Office of MoEF & CC in the interest of conservation, protection, and development of forests & wildlife.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna
Name: Gopi Krishna N

Authorised Signatory

Certificate of Undertaking

M/s Greenko Energies Private Limited hereby affirm and undertake that the user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

Date: 14.04.21

Place: Hyderabad



N. Gopi Krishna

Name: Gopi Krushna N

Authorised Signatory



People gather to submit samples for Covid-19 testing at a mobile laboratory in Tirupati on Monday | MADHAV K

TRACKING STATE'S COVID CURVE				
DISTRICT	New cases	Total cases	New deaths	Total deaths
Anantapur	535	30,062	5	229
Chittoor	458	23,917	8	243
East Godavari	911	41,204	10	286
Guntur	776	26,915	7	297
Kadapa	523	17,331	7	124
Krishna	135	12,479	3	229
Kurnool	372	33,952	5	297
Nellore	481	17,645	2	148
Prakasam	357	12,223	13	174
Srikakulam	527	15,258	6	171
Visakhapatnam	519	25,327	5	211
Vizianagaram	462	13,095	5	121
West Godavari	724	24,306	6	202
Other States	0	2461	0	0
Other countries	0	434	0	0

Anganwadi centres now are YSR Pre-Primary Schools

EXPRESS NEWS SERVICE
@ Vijayawada

THE state government, which decided to introduce pre-primary (PP-I and PP-II) education in government schools, has started preparing the syllabus and materials to be given to the children. It also decided to call Anganwadi centres YSR Pre-Primary Schools.

These schools will function from 9 am to 4 pm, with a one-hour break for the children to sleep. Activities during the rest of the day will include reading, storytelling, creative tasks and action songs. This was announced by Women Development and Child Welfare director Kritika Shukla during a review meeting with Chief Minister YS Jagan Mohan Reddy on Monday.

“Special attention will be paid to the children’s health and nutrition,” she said.

Anganwadi teachers will be trained to provide pre-primary education, and will be given four books on the syllabus. The children will get two books each. For the quarterly assessment, students will get graduation books, pre-school kits, colour cards, building blocks, posters, charts, learning kits and toys, Shukla added.

The Chief Minister said the government, which brought in educational reforms through the Amma Vodi scheme, will re-

form the sector right from the pre-primary stage. He told officials to prepare a plan of action and implement it in time.

Speaking to reporters later, Education Minister Audimulapu Suresh said, “The 11,000 Angawadi centres in government schools are included in Nadu-Nedu for development. A few are included in the first phase, and the rest will be listed in the second phase. The pre-primary education sector will be developed by the Edu-

cation and Women and Child Welfare departments.”

He added that ₹50-55 crore has been allocated to improve anganwadi centres, and each will have a dining hall.

Suresh further said 45-50 per cent of products to be given to students under the Jaganna Vidya Kanuka scheme have been procured and shifted to various mandal nodal points.

“The rest will be procured and distributed within two weeks. By the time schools reopen on September 5, everything will be in place,” he added. Under the scheme, students are to get bags, books, belts, uniforms and two pairs of socks each.

He said all pending funds for the education department have been released, and pointed out that ₹4,500 crore was released for the Vidya Deevana scheme, which aims to provide full fee reimbursement to students.

“Amma Vodi and fee reimbursement schemes will now be applicable to private-school students as well,” Suresh stated.

An amount of ₹2,300 crore has been released for the Jaganna Vasathi Deevana scheme, under which students from low-income households are to get ₹20,000 per year for hostel and mess fees.

As many as 1,100 vacant posts of professors and assistant professors will be filled at the earliest, he added.



The pre-primary education sector will be developed by Education and Women and Child Welfare...Amma Vodi and fee reimbursement schemes will now be applicable to private-school students as well

Audimulapu Suresh, Edu Min



Less than 85K active cases left in AP

7,866 more patients recover against 6,780 new cases; 44,578 samples tested in 24 hours

EXPRESS NEWS SERVICE
@ Vijayawada

ANDHRA Pradesh, yet again, recorded more number of recoveries than new cases of the coronavirus on Monday. Though the total number of infections is inching closer to the three lakh mark, the improving recovery rate has left active cases under 85,000.

While 7,866 more patients were discharged from hospitals across the state, as many as 6,780 others tested positive for Covid-19, taking the overall confirmed cases to 2,96,609, out of which 84,777 were active; 44,578 samples were tested in

the 24 hours ending Monday 9 am, according to a media bulletin released by the State Command Control Centre.

District-wise, East Godavari recorded the highest number of new cases of 911, after which cumulative cases in the district rose to 41,204, the highest in the state.

With 535 new cases, the tally in Anantapur crossed the 30,000-mark, while Visakhapatnam has reported over 25,000 infections with the addition of 519 new cases.

Krishna district, which witnessed a surge last month, has been recording less new cases since the past few days. Even

on Monday, 135 new cases were recorded, which took the tally here to 12,479. Prakasam, where 357 more tested positive, has a total of 12,223 cases, the lowest in the state.

Meanwhile, the Covid toll rose by 82 to 2,732. Prakasam recorded 13 new casualties, followed by 10 in East Godavari, eight in Chittoor, seven each in Guntur and Kadapa, six each in Srikakulam and West Godavari, five each in Anantapur, Kurnool, Visakhapatnam and Vizianagaram, three in Krishna district and two in Nellore district. Kurnool and Guntur districts both have reported 297 casualties each.



EXPRESS READ

Tender documents for ₹124 crore worth works sent for judicial preview

Vijayawada: Tender documents for ₹125 crore worth works under the first phase of 10,000 MW Solar Power Project, proposed for strengthening free power to the farm sector, has been sent for judicial preview. For objections and suggestions from the public, contractors have been placed on www.judicialpreview.ap.gov.in. It will be kept for seven days and once the approval is given after the preview, tender process will be taken up, according to an official press release.

23-member panel to monitor Covid situation in Prakasam

EXPRESS NEWS SERVICE @ Ongole

PRAKASAM collector Pola Bhaskar has constituted a 23-member task force committee that will monitor the overall coronavirus situation in the district, and take key decisions by holding meetings on every alternative day.

Headed by joint collector TS Chetan, it also has health officers, district-level officers and representatives of private hospitals as its members. The new panel will manage the availability of beds in Covid hospitals, help desks and funeral arrangements of Covid victims. Meanwhile, several patients

in home isolation complained that they have not been getting the special kits designed for the purpose. According to official information, the district has 1,800 people undergoing treatment in home isolation, many of whom have said that they have

only received the medicare kits.

District medical and health Officer (DMHO) Dr K Padmavathi said, “As per government orders, we have increased the number of Covid-19 confirmation tests to nearly 4,000 a day, due to which

more people are testing positive. At present, more than 1,700 patients have either mild or no symptoms, and so are in home isolation. We gave them medicare kits, but we have not received the home isolation kits, which will be distributed as and when they are received. “DMHO explained.



A MAKESHIFT HOME

Some homeless men take shelter at a ticket counter queue line in Alipiri, Tirupati on Monday | MADHAV K

Ganesh idols to be less than 2-ft-high in Tirupati

EXPRESS NEWS SERVICE @ Tirupati

THE Municipal Corporation of Tirupati and police have issued guidelines for the celebration of Vinayaka Chavithi, which includes reducing the size of idols. The guidelines issued to the organisers is meant to curb the spread of Covid-19 and prevent overcrowding. The city has around 300 organisers, who must take permission from the local authorities prior to the festival. The officials have called for a low-key celebration

in the wake of the pandemic.

During a recent meeting with members of the Utsav committees, municipal commissioner PS Girisha gave instructions to cap the height of idols at two feet. Members of the Tirupati Varasiddhi Vinayaka Utsav Committee (TVVUC) have been asked to adhere to social distancing norm, carry

out fumigation, use sanitisers, and pay special attention to the safety of children and elderly.

The pandemic has also financially crippled idol makers in the city. Most of them have left the trade and returned to their native during the lockdown. Normally, the artisans start preparing the Ganesh idols in May and they increase produc-

tion based on the orders by taking an advance amount. Ganesh festival attracts huge crowd and generates around ₹2.3 crore revenue. But, thanks to the pandemic, there are less takers for their craft this year.

“Normally, we make around 10 to 15 idols per day. We suffered a loss of around ₹2.3 lakh this year. Most of us have borrowed money from acquaintances and banks, but we are unsure of how to return the amount,” K Venkateshu from Tirupati rural said



We have no customers. Normally, we make around 10 to 15 idols per day. We suffered a loss of around ₹2.3 lakh this year. Most of us have borrowed money from acquaintances and banks, but we are unsure of how to return the money - K Venkateshu, an idol maker from Tirupati Rural

Lockdown hits water consumption by industrial units

EXPRESS NEWS SERVICE @ Visakhapatnam

THERE has been a considerable drop in the usage of water by industrial units in Visakhapatnam district ever since a lockdown was put in place, and also after the Central government launched ‘Unlocks’.

The region has over 80 industrial units with bulk connection, and they draw water from Visakha Industrial Water Supply Company.

Port Trust, which consumed 43,400 kilolitres every month before late March, is now drawing only 16,052 KL. Similarly, HPCL and the airport too have reduced their monthly water consumption to 14 lakh KL from 17 lakh KL, and 5,002 KL from 9,300 KL, respectively.

All combined, the 82 bulk consumers, which drew 2,128 million litres of water every month, before the

restrictions, are consuming 2,055 million litres, a drop of 73,000 KL.

Also, hotels, guest houses and similar commercial establishments have started to use less water as they are working only partially.

On the contrary, the domestic water consumption in Vizag city has seen a 10 to 15 per cent increase. The rise in demand by domestic users is being easily fulfilled

due to the drop in water consumption by the industrial units.

GVMC water supply superintending engineer Venugopal said the civic body could ensure the normal supply after the reduction in demand by the industries. “Yeleru canal is closed for desiltation works, but the GVMC could not take it up earlier due to lockdowns. After desiltation, its capacity will increase from the present 10 MGD to 16 MGD.”



Boat capsizes state specific disaster

EXPRESS NEWS SERVICE @ Vijayawada

AS per the recommendations of the 14th Finance Commission on the revision of State Disaster Response Fund/National Disaster Response Fund (SDRF/NDRF) norms, which were adopted by the state government, the government declared heat waves and boat capsizes as ‘state specific disasters’ in addition to ‘thunderstorm’. The prerequisite condition for declaring heat wave is when a station records a maximum temperature of at least 40°C or more in plain areas, 37°C or more in coastal areas and at least 30°C or more in hilly regions. Similarly, boats capsized in inland water ways during natural calamities like floods, cyclone, thunderstorm including in the period of warning are eligible for relief.

Aadhar Housing Finance Ltd.

Corporate Office : 201, Raheja Point-1, Near SVC Bank, Vakola, Nehru Road, Santacruz (East), Mumbai - 400055.

Anantapur Branch : Aishwarya Towers, Door No. 9-150, Second Floor, Near Tower Clock, Subhash Road, Anantapur - 515001 (AP).



APPENDIX IV POSSESSION NOTICE (for immovable property)

Whereas, the undersigned being the Authorized Officer of Aadhar Housing Finance Limited (AHFL) under the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act 2002 and in exercise of powers conferred under section 13(12) read with Rule 3 of the Security Interest (Enforcement) Rules 2002, Demand Notice(s) issued by the Authorised Officer of the company to the Borrower(s) / Guarantor(s) mentioned herein below to repay the amount mentioned in the notice within 60 days from the date of receipt of the said notice. The borrower having failed to repay the amount, notice is hereby given to the Borrower(s) / Guarantor(s) and the public in general that the undersigned has taken possession of the property described herein below in exercise of powers conferred on him under Sub-Section (4) of the Section 13 of the said Act read with Rule 8 of the Security Interest Enforcement rules, 2002. The borrower's attention is invited to provisions of sub-section (8) of section 13 of the Act, in respect of time available, to redeem the secured assets. The borrower in particular and the public in general are hereby cautioned not to deal with the property and any dealings with the property will be subject to the charge of AHFL for an amount as mentioned herein under with interest thereon.

Sl No.	Name of the Borrower(s) / Co-Borrower	Description of Secured Asset (Immovable Property)	Demand Notice Date and Amount	Date of Possession
1	(Appl No.00214275) Anantapur Branch Pothuru Varalakshmi (Borrower) Pathakauri Ravi Kumar (Co-Borrower)	Sy No: 88/A-1A, Near D.No 16-899-7, Nandalapadu Village, Tadipatri, Anantapur, Andhra Pradesh-515411. Bounded : East Side: Land of G. Pulla Reddy, West Side : 20 ft. Road, North Side: Land of N. Varadachiah Nearest (# 16/89) and South Side: Open Land Pn same S No. 16/899/8.	9-9-2019 ₹ 25,69,650.00 (Rupees Twenty Five Lakh Sixty Nine Thousand Six Hundred Fifty Only.)	12-8-2020

Place: Anantapur
Date : 18.8.2020

Authorised Officer
Aadhar Housing Finance Limited

NOTICE

This is for the information that the proposal for diversion of 365.66 hectare of forest land in compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for the establishment of Integrated Renewable Energy Project, Pinnapuram by M/s Greenko Energies Pvt. Ltd., Hyderabad has been accorded Stage-I (In-principle) Forest Clearance by Govt. of India, MoEF&CC, F. No: 8-32/2019-FC.dt. 23-04-2020. The copy of Stage-I (In-principle) Forest Clearance letter is available at parivesh.nic.in.
M/s GREENKO ENERGIES Pvt. Ltd., Hyderabad



IDBI BANK LIMITED, Mahavir House, Basheerbagh Square, Hyderabad-500029.Tel: 040-66746057/6030/6046 Email: sachin.hargale@idbi.co.in, www.idbibank.in

NOTICE

The Borrower/M/s. Sri Venkata Balaji Transports, No.17-97(1), Near Old Check-post, Airport Road, Renigunta, Chittoor District, Andhra Pradesh - 517 520

The Mortgagors and Guarantors: Shri Kothapothula Jwala Rao, S/o V.R.Kothapothula, Ragunatha Resorts, Near Bypass Road, Block A&B, Thanpalle Cross, Tirupati, Andhra Pradesh Pin - 517 502. Smt. Kothapothula Nirmala Devi, 69/31, Sri Krishna Nagar, 11 th Cross, M.R.Palli, Tirupati, Andhra Pradesh Pin - 517 502.

(1) Notice is hereby given to the above mentioned Borrower and Mortgagors and/or Guarantors that the Authorised Officer (AO) of IDBI Bank Limited ("IDBI Bank") initiated actions in exercise of powers conferred under Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act 2002 ("the Act") read with Security Interest (Enforcement) Rules 2002 ("the Rules") in connection with following immovable assets, which are mortgaged to the IDBI Bank:

Property owned by Shri Kothapothula Jwala Rao: Residential land admeasuring 19118 sq yards or Ac 3.95 cents situated at Survey No.1193/3, Addanki Village, Addanki Mandal, Addanki Main Road, Prakasam District, Andhra Pradesh and bounded as: North : Land of Kavuri Aruna & Sure Koteswara Rao, South : Land of Kothamasu Murali & Chandrasekhar, East : Land of Gottipati Ramathulasi, West : Land of Koppolu Achaiiah & Hanumantha Rao

Property owned by Smt. Kothapothula Nirmala Devi: Residential land admeasuring 384.77 sq yards together with residential G+1 duplex building, bearing D.No.24-34-122 (near D.No.37-1-721/A) situated at Survey Nos 44/4B, Block No.4, Ward No.6, (beside Sai Baba Temple), Dharavari Thota, Annavarapadu, Ongole Municipality, Prakasam District, Andhra Pradesh and bounded as: North : 30 feet wide road, South : Neighbors House, East : Neighbors House, West : Neighbors House

(2) The undersigned proposes to sell the aforementioned immovable assets and accordingly Sale Notices dated March 3, 2020 in terms of Rules 8(5) and 9(1) of the Rules were issued by Registered post to the Borrower and Mortgagors, however, the said Notices could not be served to all the recipients. Hence, this public notice is issued in compliance with the Rule 8(5) and 9(1) of the Rules.

(3) Please note that the aforementioned immovable assets shall be sold after 15 days from the date of this notice by adopting any of the methods mentioned in Rule 9(5) of the Rules.
(4) However, the Borrower and Mortgagors may pay the outstanding dues of Rs.4,03,41,466.80 (Rupees Four crores Three lakhs Forty One thousand Four Hundred Sixty Six and paise eighty only) towards the loans availed by the Borrower from IDBI Bank, together with expenses, if any, and further interest thereon with effect from August 1, 2020 at the contractual rates upon the footing of compound interest, until payment/realization and take back the possession of the afore mentioned immovable assets in question within the time limit specified herein above.

(5) In case the Borrower and Mortgagors fail to pay the outstanding dues within 15 days from the date of this Notice, the undersigned would be at liberty to proceed with the sale of the aforementioned immovable assets.

Place: Hyderabad, Date: 17.8.2020

Sd/-, Authorised Officer, IDBI Bank Ltd

Greenko Energies Private Limited
(CIN: U40109TG2000FTC034990)

Greenko

Ref: IREP-Pinnapuram/SPCB/Stage-I FC/20200706

Dated: 06.07.2020.

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
3	The District Revenue Officer & Additional District Magistrate, Kurnool District.	4	The General Manager, District Industries Center, Kurnool, Kurnool District.
5	The Executive Officer, Gram Panchayath Office, Pinnapuram (V), Panyam (M), Kurnool Dt.	6	The Executive Officer, Gram Panchayath Office, Brahmanapalle (V), Orvakal (M), Kurnool.
7	The Chief Executive Officer, Zilla Parishad, Kurnool.	8	The Tahsildar Office, Panyam (M), Kurnool District.

Sub: Diversion of 365.66 Ha of forest land from Ghani RF, Kurnool for establishment of Pumped Storage Component of Integrated Renewable Energy Project (1200 MW), Pinnapuram in Kurnool District, Andhra Pradesh being implemented by M/s Greenko Energies Pvt. Ltd.- Display of In-principle (Stage-I) Forest Clearance granted by MoEF & CC- reg.

Ref: Rc. No. EFS02/15036/2/2018-FCA SEC-PCCF/FCA-3, Dated 28.06.2020.

Dear Sir,

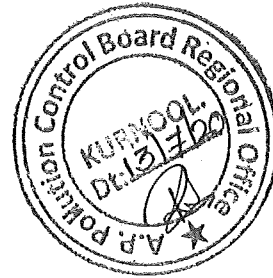
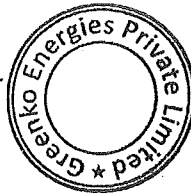
We would also like to bring your kind notice that, the Ministry of Environment, Forest & Climate Change (MoEF & CC) had granted In-Principle approval for diversion of 365.66 Ha forest land for construction of pumped storage project in Kurnool Forest Division, Kurnool District of Andhra Pradesh in favor of M/s Greenko Energies Pvt. Ltd (GEPL) vide letter dated 23.04.2020.

As per the directions of Prl CCF, Guntur, A.P Forest Department, In-Principle (Stage-I) Forest Clearance shall be displayed at your office for information of the Public. Hence, the copy of in-principle forest clearance issued to GEPL is herewith attached for display in your office notice board for a period of 30 days for information of the general public.

Thanking You,
Yours faithfully
For M/s Greenko Energies Private Limited

Authorized Signatory

Encl: As above



Ref: IREP-Pinnapuram/SPCB/Stage-I FC/20200706

Dated: 06.07.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
3	The District Revenue Officer & Additional District Magistrate, Kurnool District.	4	The General Manager, District Industries Center, Kurnool, Kurnool District.
5	The Executive Officer, Gram Panchayath Office, Pinnapuram (V), Panyam (M), Kurnool Dt.	6	The Executive Officer, Gram Panchayath Office, Brahmanapalle (V), Orvakal (M), Kurnool.
7	The Chief Executive Officer, Zilla Parishad, Kurnool.	8	The Tahsildar Office, Panyam (M), Kurnool District.

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Ref: Rc. No. EFS02/15036/2/2018-FCA SEC-PCCF/FCA-3, Dated 28.06.2020.

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Yours faithfully
For M/s Greenko Energies Private Limited

Authorized Signatory

Encl: As above

N. Gov. Krishna



Ref: IREP-Pinnapuram/SPCB/Stage-I FC/20200706

Dated: 06.07.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
3	The District Revenue Officer & Additional District Magistrate, Kurnool District.	4	The General Manager, District Industries Center, Kurnool, Kurnool District.
5	The Executive Officer, Gram Panchayath Office, Pinnapuram (V), Panyam (M), Kurnool Dt.	6	The Executive Officer, Gram Panchayath Office, Brahmanapalle (V), Orvakal (M), Kurnool.
7	The Chief Executive Officer, Zilla Parishad, Kurnool.	8	The Tahsildar Office, Panyam (M), Kurnool District.

Sub: Diversion of 365.66 Ha of forest land from Ghani RF, Kurnool for establishment of Pumped Storage Component of Integrated Renewable Energy Project (1200 MW), Pinnapuram in Kurnool District, Andhra Pradesh being implemented by M/s Greenko Energies Pvt. Ltd.- Display of In-principle (Stage-I) Forest Clearance granted by MoEF & CC- reg.

Ref: Rc. No. EFS02/15036/2/2018-FCA SEC-PCCF/FCA-3, Dated 28.06.2020.

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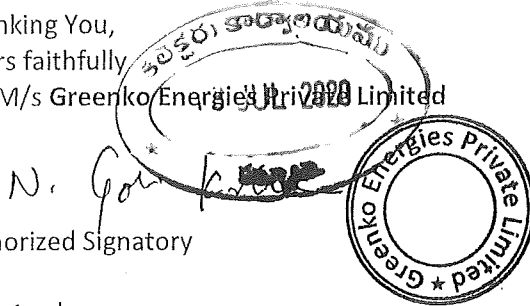
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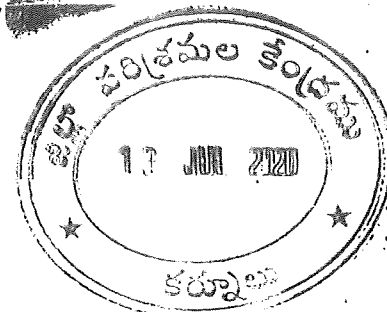
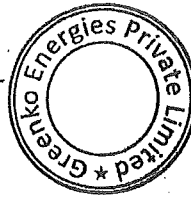
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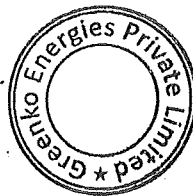
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Copy Received
2 pages
Panchayat Secretary
Pinnapuram (VII)
PANYAM(M), Kurnool(Dist)
13/07/2020

Ref: IREP-Pinnapuram/SPCB/Stage-I FC/20200706

Dated: 06.07.2020

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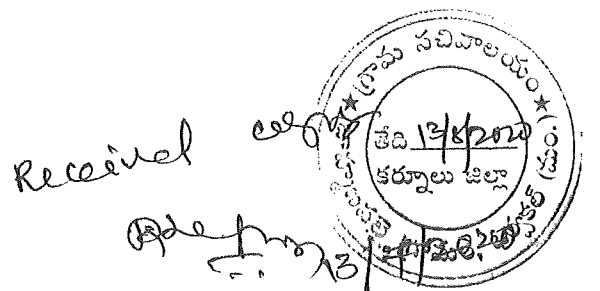
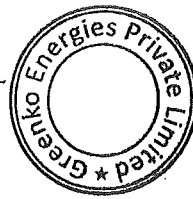
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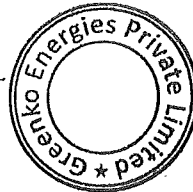
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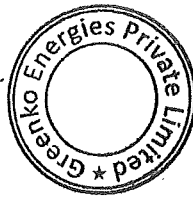
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