

कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष भू-प्रबंध) सतपुड़ा भवन, भोपाल, मध्यप्रदेश

क्रमांक/एफ-4/23/2021/10-11/648

भोपाल, दिनांक 10/02/2023

प्रेषक,

सुनील अग्रवाल, (भा.व.से.)
प्रधान मुख्य वन संरक्षक (भू-प्रबंध),
मध्यप्रदेश।

प्रति,

वन महानिरीक्षक (एफ.सी.)
भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
इंदिरा पर्यावरण भवन, अलीगंज,
जोरबाग रोड, नई दिल्ली-110003

विषय:- Diversion of 301.96 ha forest land for the construction of MP-30 Gandhi Sagar off-stream Pumped Storage Project (1440 MW) by M/s Greenko Energies Private Limited, Hyderabad in Neemuch Forest Division, Neemuch District of Madhya Pradesh State (Online proposal No. FP/MP/HYD/116943/2020)-reg.

संदर्भ:- भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय भोपाल का पत्र क्रमांक 8-18/2021-FC दिनांक 24.08.2021

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विषयांकित प्रकरण में भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली ने अपने पत्र क्रमांक 8-18/2021-FC दिनांक 24.08.2021 से अधिरोपित शर्तों के तहत सैद्धान्तिक सहमति प्रदान की गई है।

सैद्धान्तिक स्वीकृति की शर्तों का पालन प्रतिवेदन निम्नानुसार प्रस्तुत है:-

A: Specific Conditions imposed by Forest Advisory Committee:

शर्त क्र.	अधिरोपित शर्त	शर्तों का पालन प्रतिवेदन
i	The Wildlife Conservation Plan shall be updated in consultation with WII and approved by CWLW, and the same shall be implemented at the cost of the user agency with an added focus on compensating the lost habitat of schedule species, especially Schedule-I reptilians (e.g. Indian Rock Python, Indian Monitor Lizard, etc.) and avi-fauna, and their improvement in the adjoining forest areas. This plan shall also take into account the fact that the proposed area is a low rainfall area, and presence of a nearby PSP reservoir with sharply raised edges could create a threat to wild animals that might want to use the reservoir for drinking water and fall into it. Therefore, the Plan shall include creation of alternative water resources in the adjoining forests to minimise the chances of such accidental death of wild animals;	<p>इस प्रस्ताव में वन्यप्राणी प्रबंधन योजना तैयार की गई है। इस वन्यप्राणी प्रबंधन योजना की स्वीकृति मुख्य वन्यप्राणी अभिरक्षक, मध्यप्रदेश द्वारा पत्र क्रमांक 4246 दिनांक 21.06.2021 से जारी की गई है।</p> <p>भारत सरकार द्वारा दी गई सैद्धान्तिक स्वीकृति की शर्त के अनुसार इस वन्यप्राणी प्रबंधन योजना को अपडेट करने के लिये निदेशक, भारतीय वन्यप्राणी संस्थान, देहरादून को पत्र क्रमांक/3078 दिनांक 14.09.2021 से पत्र लिखा गया था तथा उन्हें मुख्य वन्यप्राणी अभिरक्षक द्वारा स्वीकृत वन्यप्राणी प्रबंधन योजना प्रेषित की गई थी।</p> <p>इस संबंध में निदेशक, भारतीय वन्यप्राणी संस्थान द्वारा पत्र दिनांक 21.10.2021 से अवगत कराया गया कि मुख्य वन्यप्राणी अभिरक्षक द्वारा स्वीकृत वन्यप्राणी प्रबंधन योजना को नये सिरे से तैयार करना होगा।</p>

		<p>निदेशक, भारतीय वन्यप्राणी संस्थान द्वारा इस योजना को तैयार करने के लिये रु. 91.72 लाख का व्यय अपने पत्र दिनांक 28.03.2022 से होना अवगत कराया गया। आवेदक संस्था ने निदेशक, भारतीय वन्यप्राणी संस्थान द्वारा कार्य की 80 प्रतिशत की राशि का भुगतान कर दिया है।</p> <p>निदेशक, भारतीय वन्यप्राणी संस्थान द्वारा इस प्रबंधन योजना को तैयार करने के लिये 12 माह का समय लगना बताया है। यह रिपोर्ट अभी अपेक्षित है।</p> <p>भारतीय वन्यप्राणी संस्थान से प्रबंधन योजना प्राप्त होने पर आवेदक संस्थान के व्यय पर इसे क्रियान्वित किया जायेगा।</p>
ii	<p>Keeping in view the specific nature of the project, a CAT Plan is not required. However keeping in view the unique topography, edapho-climatic factors and vegetation of the area, a comprehensive plan regarding the protection, conservation and improvement of areas surrounding the reservoir, roads and other components of the project will be prepared and implemented at the cost of the user agency. In view of thin soil depth and sheet rock below, special treatments that might be required, including use of soil excavated during project construction, would be identified through a study by an specialised institute like ICFRE and their recommendation shall be taken into account for afforestation! regeneration in the adjoining areas. Further, this study shall also focus on regeneration/plantation of vulnerable species found in the area, such as Pterocarpus marsupium which is in IUCN Red List of 'Near Threatened' species. Furthermore, such plan should also improve the drainage to augment water supply to the nearby village tank. In addition, trees of such species will be planted and maintained at project cost on either side of the roads and other areas, wherever possible;</p>	<p>इस शर्त के पालन में भारत सरकार को पत्र दिनांक 08.09.2021 से लेख कर यह कार्य राज्य वन अनुसंधान संस्थान, जबलपुर से किये जाने की अनुमति चाही थी। भारत सरकार द्वारा पत्र दिनांक 01.10.2021 से सहमति दी थी।</p> <p>अतः इस विषय पर आवेदक के व्यय पर यह अध्ययन राज्य वन अनुसंधान संस्थान, जबलपुर द्वारा किया जाकर अपनी रिपोर्ट प्रस्तुत की है। राज्य वन अनुसंधान संस्थान, जबलपुर, मध्यप्रदेश वन विभाग का संस्थान है, जिसमें संचालक के पद पर प्रधान मुख्य वन संरक्षक स्तर के अधिकारी पदस्थ है।</p> <p>राज्य वन अनुसंधान संस्थान, जबलपुर द्वारा प्रस्तुत रिपोर्ट की प्रति संलग्न है। इस रिपोर्ट के अनुसार आवश्यक कार्य आवेदक संस्था के व्यय पर क्रियान्वित किये जायेंगे।</p>
iii	<p>The State govt. will submit a detailed plan indicating the manner in which the muck generated will be transported from different components of the project to the designated dumping site. State govt. shall also ensure strict implementation of the muck management plan;</p>	<p>आवेदक संस्था द्वारा अवगत कराया गया है कि इस परियोजना में प्राप्त पर्यावरणीय स्वीकृति में मक डिस्पोजल का विवरण अंकित है।</p> <p>आवेदक संस्था द्वार मक डिस्पोजल प्लान प्रस्तुत किया है, जो परिशिष्ट-01A में संलग्न है।</p>

iv	State Government shall ensure that present cultivations visible in Google. Earth imageries in the CA area shall be removed, and adequate arrangements are made to ensure that there is no resultant encroachment in the remaining adjoining forest area. Same principle shall be applied for forest land to be diverted;	आवेदक संस्था द्वारा क्षतिपूर्ति वनीकरण के लिये गैर वनभूमि निजी व्यक्तियों से क्रय कर उपलब्ध कराई है। इस गैर वनभूमि को वन विभाग द्वारा अपने अधिपत्य में ले लिया गया है तथा इसे वर्तमान में इसमें किसी प्रकार का अतिक्रमण नहीं है।
v	The detailed plan for evacuation and transmission of power so generated from this project will be submitted by the State government. It will be ensured that the evacuation and transmission system so proposed should pass through non-forest land or that the barest minimum forest land shall be used or existing infrastructure shall be used up to technically feasible extent. Further, it is made clear that the prior-approval of this instant project proposal shall in no way create a fate-accompli situation for a later evacuation/transmission project proposal, and the Govt. of India shall be under no obligation to necessarily approve such a proposal whenever such a proposal for forest land diversion is submitted by the State Government;	आवेदक संस्था इस शर्त से सहमत है।

B: Conditions required to be complied prior to handing over of forest land by the State Forest Department and compliance is to be submitted prior to Stage-II approval:

i	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;	क्षतिपूर्ति वनीकरण की राशि रु. 19,53,25,096/- ऑनलाईन पोर्टल के माध्यम से जमा की गई है।
ii	The State Government shall charge the Net Present Value (NPV) for the 301.96 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, 28/03/200, 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-C dated 05/02/2009 in this regard;	नेट प्रजेंट वैल्यू की राशि रु. 20,19,88,670/- ई-पोर्टल के माध्यम से जमा कराई गई है।

iii	The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;	आवेदक संस्था इस शर्त से सहमत है। प्रस्ताव में औपचारिक स्वीकृति प्राप्त होने के बाद आवेदक से विदोहन की राशि प्राप्त की जायेगी।
iv	The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector;	आवेदक संस्था द्वारा FRA प्रमाण पत्र प्रस्तुत किया है, जो परिशिष्ट-4 में संलग्न है।
v	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;	आवेदक संस्थान द्वारा गैर वनभूमि वन विभाग को हस्तांतरित की जा चुकी है। इस गैर वनभूमि को राज्य शासन के आदेश दिनांक 08.02.2023 से भारतीय वन अधिनियम, 1927 की धारा-29 के तहत संरक्षित वन घोषित किया गया है। राज्य शासन द्वारा जारी अधिसूचना की प्रति संलग्न है।
vi	All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through e-portal (https://parivesh.nic.in/). Amount deposited through other modes will not be accepted as compliance of the Stage-I clearance;	आवेदक संस्था द्वारा सभी भुगतान पोर्टल के माध्यम से ऑनलाईन किये गये हैं।
vii	The State Government shall upload the KML files of the area under diversion and the accepted area for raising compensatory afforestation in the E-Green Watch portal of FSI, before handing over forest land to the user agency;	उक्त शर्त के संबंध में ई-ग्रीनवॉच की जानकारी पोर्टल पर अपलोड कर दी गई है, जिसका आई.डी. क्रमांक 51130 है, त्वरित संदर्भ हेतु छायाप्रति संलग्न है।
viii	The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/).	पालन प्रतिवेदन ई-पोर्टल पर अपलोड कर दिया गया है।

C: Conditions which need to be complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted and compliance is to be submitted prior to Stage-II approval:

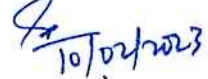
i	Legal status of the diverted forest land shall remain unchanged;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-5 में संलग्न है।
ii	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the 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;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-6 में संलग्न है।
iii	User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-7 में संलग्न है। औपचारिक स्वीकृति प्राप्त होने के बाद वन विभाग द्वारा न्यूनतम वृक्षों का पातन किया जायेगा।

iv	The felling of trees shall be restricted to FRL-4 meter only and felling of trees shall be carried out by the State Forest Department. Number of trees to be removed shall be kept at barest minimum during the execution of the project;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-8 में संलग्न है। वन विभाग द्वारा विदोहन के समय इस शर्त का पालन किया जायेगा।
v	User agency shall undertake afforestation along the periphery of the reservoir;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-9 में संलग्न है।
vi.	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable;	आवेदक संस्था द्वारा पर्यावरणीय स्वीकृति की प्रति प्रस्तुत की है जो परिशिष्ट-10 में संलग्न है।
vii	The layout plan of the proposal shall not be changed without prior approval of Central Government;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-11 में संलग्न है।
viii	No labour camp shall be established on the forest land;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-12 में संलग्न है।
ix	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labour after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-13 में संलग्न है।
x	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-14 में संलग्न है। प्रस्ताव में औपचारिक स्वीकृति प्राप्त होने के बाद यह कार्यवाही की जावेगी।
xi.	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-15 में संलग्न है।
xii	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-16 में संलग्न है।
xiii	The User Agency and the State Government shall ensure compliance of all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-17 में संलग्न है।
xiv	The forest land shall not be used for any purpose other than that specified in the project proposal;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-18 में संलग्न है।
xv	User agency shall provide free water for forestry related activities/ projects;	आवेदक संस्था इस शर्त से सहमत है।
xvi	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-19 में संलग्न है।

xvii	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019;	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-20 में संलग्न है।
xviii	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife	आवेदक संस्था इस शर्त से सहमत है। वचन पत्र परिशिष्ट-21 में संलग्न है।

उपरोक्त अनुपालन प्रतिवेदन संलग्न कर लेख है कि प्रकरण में भारत सरकार की औपचारिक स्वीकृति प्राप्त कर इस कार्यालय को अवगत कराने का कष्ट करें।
संलग्न:-उपरोक्तानुसार।

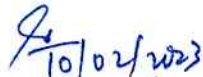
भवदीय


(सुनील अग्रवाल)

पृ. क्रमांक/एफ-4/23/2021/10-11/ 649
प्रतिलिपि:-

भोपाल, दिनांक 10/02/2023

1. उप वन महानिदेशक (केन्द्रीय), भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, पश्चिम क्षेत्र केन्द्रीय पर्यावरण भवन, लिंक रोड नं. 3, ई-5, रविशंकर नगर, मध्यप्रदेश, भोपाल
 2. मुख्य वन संरक्षक, उज्जैन/शिवपुरी वृत्त, मध्यप्रदेश।
 3. वनमण्डलाधिकारी, सामान्य वन मंडल, नीमच/शिवपुरी मध्यप्रदेश।
 4. ग्रीनको एनर्जी प्रायवेट लिमिटेड, हैदराबाद।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


प्रधान मुख्य वन संरक्षक (भू-प्रबन्ध)
मध्य प्रदेश, भोपाल



कार्यालय
वनमण्डलाधिकारी,
नीमच (म.प्र.)

E-mail- dfot.nmh@mp.gov.in

Phone No. (07423) 226605

क्रमांक / मा.चि. / 2023 / 364
प्रति,

नीमच, दिनांक- 13/11/23

✓ प्रधान मुख्य वनसंरक्षक,
(भू-प्रबंध)
म.प्र. भोपाल

- विषय:- Diversion of 301.96 ha. Forest land for the construction of MP-30 Gandhi Sagar Off-stream Pumped Storage Project (1440 MV), by M/s Greenko Energies Private Limited, Hyderabad in Neemuch Forest Division, Neemuch District of Madhya Pradesh State (Online proposal No.FP/MP/HYD/116943/2020)-reg.
- संदर्भ:- 01.भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली का पत्र क्रमांक 8-18/2021-FC, दिनांक 24.08.2021
- 02.आपका पत्र क्रमांक/एफ-4/ 23/2021/10-11/2902 दिनांक 31.08.2021
03. M/s Greenko Energies Private Limited, Hyderabad Letter No. MP30/ MoEF& CC-FCS-1/ 230112 dated 12-01-2023.

विषयांकित प्रकरण में लेख हैं, कि आपके कार्यालय के संदर्भित पत्र दिनांक 31.08.2021 में दिये गये निर्देशानुसार भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी सैद्धांतिक स्वीकृति में निहित समस्त शर्तों का पालन प्रतिवेदन M/s Greenko Energies Private Limited, Hyderabad के संदर्भित पत्र दिनांक 12.01.2023 से इस कार्यालय को प्राप्त हुआ हैं, जो पत्र के संलग्न आवश्यक कार्यवाही हेतु प्रेषित हैं।

संलग्न:- उपरोक्तानुसार।

(विजय सिंह)
आई.एफ.एस.
वनमण्डलाधिकारी
वनमण्डल नीमच

पृष्ठां. क्रमांक / मा.चि. / 2023 / 365
प्रतिलिपि:-

नीमच, दिनांक :- 13/11/23

मुख्य वनसंरक्षक उज्जैन वृत्त उज्जैन की ओर संदर्भित पत्रों के तारतम्य में मय सहपत्रों सहित सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

संलग्न:- उपरोक्तानुसार।

वनमण्डलाधिकारी
वनमण्डल नीमच

MP30/MoEF&CC-FCS-1/230112

Date: 12.01.2023

To

Divisional Forest Officer
Neemuch Forest Division
Madhya Pradesh Forest Department

Sub: Diversion of 301.96 Ha of forest land from Neemuch Forest Division for establishment of MP 30 Gandhi Sagar Standalone Pumped Storage Project (1440 MW) in Neemuch District, Madhya Pradesh by M/s Greenko Energies Pvt. Ltd - Submission of Compliance Report to the Stage-I (In-Principal) Forest Clearance Stipulations-reg

Ref: 1. MoEF & CC, New Delhi, In- Principal (Stage-I) Forest Clearance vide File No.8-18/2021-FC Dated: 24-08-2021.
2. Govt of Madhya Pradesh, communication of In- Principal (Stage-I) vide letter No. S. No/H-4/23/2021/10/11/2902 dated 31/08/2021.
3. DFO, Neemuch Demand Note dated 03/10/2022.

Dear Sir,

With reference to the above subject matter, the State Govt vide ref (2) above has directed to submit compliance report to the conditions stipulated in Stage-I Forest Clearance.

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

Thanking You
Yours Sincerely
For Greenko Energies Private Limited.

N. Goli Kumar



Authorized Signatory

Encl: As above

CC: 1. Additional PCCF (Land Management), Madhya Pradesh Forest Department, Bhopal.
2. Chief Conservator of Forests, Ujjain, Madhya Pradesh Forest Department.

Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.

S. No	Condition	Reply
A:	Specific Conditions imposed by Forest Advisory Committee	
I	The Wildlife Conservation Plan shall be updated in consultation with WII and approved by CWLW, and the same shall be implemented at the cost of the user agency with an added focus on compensating the lost habitat of schedule species, (e.g Indian Rock Python, India especially Schedule-I reptilians Monitor Lizard, etc.) and avifauna, and their improvement in the adjoining forest areas. This plan shall also take into account the fact that the proposed area is a low rainfall area, and presence of a nearby PSP reservoir with sharply	State Government vide letter dated 14.09.2021 has entrusted Wildlife Institute of India (WII), Dehradun for updation of the Wildlife Conservation Plan. As per the work order an amount of Rs 73,38,251 towards 80% of payment was already paid to WII vide 29.07.2022. Copy of acknowledgment of WII is enclosed at Annexure 01 at present the studies are under progress.
II	Keeping in view the specific nature of the project, a CAT Plan is not required. However keeping in view the unique topography, edapho-climatic factors and vegetation of the area, a comprehensive plan regarding the protection, conservation and improvement of areas surrounding the reservoir, roads and other components of the project will be prepared and implemented at the cost of the user agency. In view of thin soil depth and sheet rock below, special treatments that might be required, including use of soil excavated during project construction, would be identified through a study by an specialised institute like ICFRE and their recommendation shall be taken into account for afforestation! regeneration in the adjoining areas. Further, this study shall also focus on regeneration/ plantation of vulnerable species found in the area, such as Pterocarpus marsupium which is in IUCN Red List of 'Near Threatened' species. Furthermore, such plan should also improve the drainage to augment water supply to the nearby village tank. In addition, trees of such species will be	State Forest Department has entrusted M.P. State Forest Research Institute (SFRI), Jabalpur (MP) vide dated 07.10.2021 for preparing a comprehensive plan regarding the protection, conservation and improvement of areas surrounding the reservoir, roads and other components of the project. SFRI, Jabalpur (MP) has completed the studies and submitted the report to the State Forest Department vide their dated 26.07.2022.

Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.

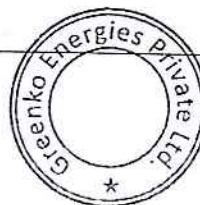
S. No	Condition	Reply
	planted and maintained at project cost on either side of the roads and other areas, wherever possible;	
III	The State govt. will submit a detailed plan indicating the manner in which the muck generated will be transported from different components of the project to the designated dumping site. State govt. shall also ensure strict implementation of the muck management plan;	A Detailed Muck Management Plan had been incorporated in EIA /EMP Report. Ministry while granting Environment Clearance date 01.12.2021 has <i>inter-alia</i> approved the Muck Management Plan. Mitigation Measures as approved in the EIA/EMP shall be implemented during construction phase. Copy of Muck Management Plan is enclosed at Annexure-01 A
IV	State Government shall ensure that present cultivations visible in Google Earth imageries in the CA area shall be removed, and adequate arrangements are made to ensure that there is no resultant encroachment in the remaining adjoining forest area. Same principle shall be applied for forest land to be diverted;	Shall be complied by State Forest Department.
V	The detailed plan for evacuation and transmission of power so generated from this project will be submitted by the State government. It will be ensured that the evacuation and transmission system so proposed should pass through non-forest land or that the barest minimum forest land shall be used or existing infrastructure shall be used up to technically feasible extent. Further, it is made clear that the prior-approval of this instant project proposal shall in no way create a fate-accomplish situation for a later evacuation/transmission project proposal, and the Govt. of India shall be under no obligation to necessarily approve such a proposal whenever such a proposal for forest land diversion is submitted by the State Government;	Noted shall be complied accordingly.

Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.

S. No	Condition	Reply
B	Conditions required to be complied prior to handing over of forest land by the State Forest Department and compliance is to be submitted prior to Stage-II approval:	
I	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;	An amount of Rs 19,53,25,096 has been deposited in CAMPA account towards C.A scheme through RTGS UTR NO: ICICI252022120900492130, Dated 9.12.2022 (Ref Annexure-02) and amount of Rs 1,95,32,510 has been deposited with State Forest Department towards Supervision charges through E Challan (Annexure 03)
II	The State Government shall charge the Net Present Value(NPV) for the 301.96 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, 28/03/200, 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-C dated 05/02/2009 in this regard	An amount of Rs 20,19,88,670 has been deposited in CAMPA account towards NPV Charges through RTGS UTR NO: ICICI252022120900492130.,Dated 9.12.2022 (Ref Annexure-02)
III	The cost of felling of trees shall be deposited by the User Agency with the state Forest Department;	Noted Shall be complied accordingly.
IV	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 09.07.2021. The copies of the same were already submitted along with proposal at the time of processing Part-II. (Refer Annexure-04)
V	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-	Non-Forest land identified towards CA has been Transferred and Mutated in name of State Forest department and PF notification by State Govt is under process.

Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.

S. No	Condition	Reply
	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;	
VI	All the funds received from the user agency under the project shall be transferred/ deposited in CAMPA account only through e-portal (https://parivesh.nic.in/). Amount deposited through other modes will not be accepted as compliance of the Stage-I clearance	An amount of Rs 20,19,88,670 has been deposited in CAMPA account towards NPV Charges through RTGS UTR NO: ICICI252022120900492130., Dated 9.12.2022 (Ref Annexure-02) An amount of Rs 19,53,25,096 has been deposited in CAMPA account towards C.A scheme through RTGS UTR NO: ICICI252022120900492130., Dated 9.12.2022 (Ref Annexure-02) and amount of Rs 1,95,32,510 has been deposited with State Forest Department towards Supervision charges through E Challan (Annexure 03)
VII	The State Government shall upload the KML files of the area under diversion and the accepted area for raising compensatory afforestation in the E-Green Watch portal of FSI, before handing over forest land to the user agency;	Shall be complied by The State Government.
VIII	The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/).	Noted, that the compliance report will be uploaded in e-portal.
C	Conditions which need to be complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted and compliance is to be submitted prior to Stage-II approval	
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 shall remain unchanged. An undertaking in this regard is enclosed at Annexure-05
II	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	Shall be complied. 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 is enclosed at Annexure-06



Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.

S. No	Condition	Reply
	User Agency shall furnish an undertaking to this effect	
III	User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department;	Agreed, (Refer Annexure-07)
IV	The felling of trees shall be restricted to FRL-4 meter only and felling of trees shall be carried out by the State Forest Department. Number of trees to be removed shall be kept at barest minimum during the execution of the project.;	Agreed, (Refer Annexure-08)
V	User agency shall undertake afforestation along the periphery of the reservoir;	Agreed, (Refer Annexure-09)
VI	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable	Environmental Clearance has been obtained vide letter no. J-12011/22/2019-IA-I(R) dated 01.12.2021. (Refer Annexure-10)
VII	The layout plan of the proposal shall not be changed without prior approval of Central Government	Agreed, (Refer Annexure-11)
VIII	No labour camp shall be established on the forest land;	No labour camp(s) shall be established in forest land. An undertaking in this regard is enclosed at Annexure-12
IX	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labour after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel	Agreed, User Agency will provide alternate fuels to the workers. (Refer Annexure-13)
X	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer;	Agreed (Refer Annexure-14)
XI	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work	Agreed (Refer Annexure-15)

**Compliance Report to MoEF&CC (8-18/2021-FC) letter dated : 24th August, 2021
MP30 Gandhi Sagar Off-Stream Pumped Storage Project, Neemuch.**

S. No	Condition	Reply
XII	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less	Agreed. (Refer Annexure-16)
XIII	The User Agency and the State Government shall ensure compliance of all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project;	Agreed. (Refer Annexure-17)
XIV	The forest land shall not be used for any purpose other than that specified in the project proposal;	Agreed. (Refer Annexure-18)
XV	User agency shall provide free water for forestry related activities/ projects;	Shall be complied as per the instructions of State Forest Department.
XVI	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India;	Agreed. (Refer Annexure-19)
XVII	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019;	Agreed. (Refer Annexure-20)
XVIII	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife	Agreed. (Refer Annexure-21)

Date: 09-01-2023

Place: Hyderabad



N. Gopal Krishna
12/01/23
Gopi Krishna Nikku
Authorised Signatory

कार्यालय प्रधान मुख्य वन संरक्षक (वन्यप्राणी), मध्य प्रदेश

प्रगति भवन, भोपाल विकास प्राधिकरण, तृतीय तल, एम.पी.नगर, भोपाल

दूरभाष : 0755-2674318, 2674337, फ़ैक्स : 0755-2766315

E-mail : pccfwl@mp.gov.in

क्रमांक/व.प्रा./मा.चि./व.स.यो./GEN-270/4246

भोपाल, दिनांक 21/06/2021

प्रति,

मेसर्स ग्रीनको इनर्जीस प्राइवेट लिमिटेड,
प्लॉट नं. 1071, रोड नं.-44,
जुबली हिल्स, हैदराबाद-500033 तेलंगाना

विषय :- 1440 MW MP 30 Gandhi Sagar Pumped Storage Project (PSP) near village Khemla Block, Rampura tehsil in Neemuch District of MP By M/s Greenko Energies Private Limited- Submission of Wildlife Conservation Plan for Schedule I Species- Approval-reg.

संदर्भ :- आपका पत्र क्रमांक/GEPL/2020/CLW/210416 दिनांक 16.04.2021 एवं मुख्य वन संरक्षक, उज्जैन वृत्त उज्जैन का पत्र क्रमांक/मा.चि./2021/3171 दिनांक 15.06.2021

उपरोक्त विषयांतर्गत संदर्भित पत्र से आपके द्वारा नीमच जिले के रमपुरा तहसील के ग्राम खेमला के पास 1440 MW MP 30 Gandhi Sagar Pumped Storage Project (PSP) संबंधी प्रकरण में भारत सरकार द्वारा जारी सामान्य शर्तों के अनुसार प्रस्तावित योजना स्थल से 10 कि.मी. की परिधि में पाये जाने वाले सेड्यूल-1 के फ्लोरा-फोना के संरक्षण हेतु आर.एस. इनवायरोलिक टेक्नालॉजी प्राइवेट लिमिटेड से 04 वर्षों के लिए रुपये 77.00 लाख की वन्यप्राणी संरक्षण योजना तैयार कराकर संलग्न कर अनुमोदन हेतु प्रेषित की गई थी। उक्त योजना के परीक्षण उपरांत वनमण्डलाधिकारी, नीमच द्वारा 157.90 लाख की संशोधित वन्यप्राणी योजना मुख्य वन संरक्षक, उज्जैन को प्रेषित की गई। मुख्य वन संरक्षक, उज्जैन वृत्त द्वारा वन्यप्राणी योजना का परीक्षण उपरांत 04 वर्षों की रुपये 166.90 लाख की संशोधित वन्यप्राणी योजना संदर्भित पत्र दिनांक 15.06.2021 से इस कार्यालय को अनुमोदन हेतु अनुशंसा सहित प्रेषित की गई है। उक्त 04 वर्षों की रुपये 166.90 लाख की वन्यप्राणी संरक्षण योजना का अनुमोदन किया जाता है। उक्त वन्यप्राणी संरक्षण योजना में फ्लोरा-फोना के संरक्षण एवं संवर्धन के प्रस्तावित कार्यों हेतु प्रावधानित राशि का विवरण निम्नानुसार है :-


Table 19: Year wise Cost Break-up

S.No.	Activity	Year 1	Year 2	Year 3	Year 4	Total
A	Biodiversity Conservation and Management Plan					
1	Afforestation and Enrichment along the periphery of upper reservoir in the adjoining forest area	15.50	12.30	12.30	8.30	48.40
2	Farm forestry for fuelwood and timber	2.10	1.40	-	-	3.50
3	Sowing of Grass	5.00	2.00	1.00	-	8.00
4	Awareness Program	1.00	1.00	1.00	1.00	4.00
5	Strengthening of Infrastructural Facilities of Forest Department	10.00	-	-	-	10.00
6	Sub Total A	33.60	16.70	14.30	9.30	73.90
B.	Conservation of Schedule-I Species					
1	Habitat improvement by development of vegetation cover by plantation with suitable species	10.00	5.00	3.00	2.00	20.00
2	Biological fence (eg. Bamboo species) around the habitation and around the agriculture fields adjoining to forest area to control human wildlife conflict	4.00	4.00	2.00	-	10.00
3	Construction and filling of water holes and check dams/ponds, tube wells etc	10.00	2.00	2.00	2.00	16.00
4	Support/Provision of veterinary care, cages, recuse centers, etc.	3.00	3.00	2.00	2.00	10.00
5	Infra-structure development (Surveillance Equipment's like Cameras, Wireless Sets, GPS, etc)	3.50	0.50	0.50	0.50	5.00
6	Anti-Poaching measures	2.00	2.00	2.00	2.00	8.00
7	Training Programme for Techniques of faunal species Rescue	2.00	2.00	2.00	2.00	8.00
8	Prevention of Forest Fire: Training and Infrastructure facilities	2.00	1.50	1.50	1.00	6.00

	Sub Total B	36.50	20.00	15.00	11.50	83.00
C	Monitoring and Evaluation	2.50	2.50	2.50	2.50	10.00
	Grand Total (A+B+C)	72.60	39.20	31.80	23.30	166.90

उक्तानुसार वन्यप्राणी संरक्षण योजना में पृष्ठ क्रमांक-45 एवं 46 पर वन्यप्राणी प्रबंधन हेतु दर्शाये गये कार्य एवं प्रावधानित राशि की वन्यप्राणी संरक्षण योजना की एक प्रति मुख्य वन संरक्षक, उज्जैन वृत्त एवं एक प्रति वनमण्डलाधिकारी, सामान्य वनमण्डल नीमच को उपलब्ध कराये। तथा वन्यप्राणी संरक्षण योजना में वन्यप्राणी प्रबंधन हेतु प्रावधानित राशि समय सीमा में वर्षवार वनमण्डलाधिकारी, सामान्य वनमण्डल, नीमच को उपलब्ध कराया जाना सुनिश्चित करें। अनुमोदित वन्यप्राणी संरक्षण योजना की हस्ताक्षरित एक प्रति संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्न :- उपरोक्तानुसार।


(आलोक कुमार)

मुख्य वन्यप्राणी अभिरक्षक एवं
प्रधान मुख्य वन संरक्षक (व.प्रा.), म.प्र.

क्रमांक/व.प्रा./मा.चि./GEN.-270/4247
प्रतिलिपि :-

भोपाल, दिनांक 21/06/2021

1. मुख्य वन संरक्षक, उज्जैन वृत्त उज्जैन।
2. वनमण्डलाधिकारी, सामान्य वनमण्डल, नीमच।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित। उक्त अनुमोदित वन्यप्राणी संरक्षण योजना की एक प्रति आवेदक संस्था से प्राप्त करें तथा प्रावधानित कार्य का समय सीमा में क्रियान्वयन किया जाना सुनिश्चित करें।


मुख्य वन्यप्राणी अभिरक्षक एवं
प्रधान मुख्य वन संरक्षक (व.प्रा.), म.प्र.



भारतीय वन्यजीव संस्थान
Wildlife Institute of India

(An Autonomous Institute under Ministry of Environment, Forest & Climate Change, Govt. of India)
पत्रपेटी सं०/Post Box No. 18, चन्द्रबनी, देहरादून/Chandrabani, Dehradun - 248001, उत्तराखण्ड, भारत/Uttarakhand, INDIA



WII/HED/JAJ/2022/MP-30-G-SAGAR

19.09.2022

To

Shri Sunil Agarwal, IFS
Principal Chief Conservator of Forests (Land Management)
Bhopal - 462001
Madhya Pradesh

Sub: Diversion of 301.96 ha forest land for the construction of MP-30 Gandhi Sagar off stream pumped storage project (1440 MW) by M/s Greenko Energies Private Limited, Hyderabad in Neemuch Forests Division, Neemuch District of Madhya Pradesh State (Online Proposal No. FP/MP/HYD/116943/2020)-reg;

Ref: Letter no-4/23/2021/10-11/2202 dated 21-06-2022.

Sir,

With reference to the above letter, I would like to inform you that we have received Rs. 67,16,365/- as 80% project cost (after deducting TDS) on 29th July 2022. Further, I would like to inform that we have initiated the project related activities including field survey w.e.f. 1st August 2022. This is for your kind information.

Thanking You,

Yours faithfully,

(J.A. Johnson)

Principal Investigator -
Gandhi Sagar Project- Conservation Plan



भारतीय वन्यजीव संस्थान
Wildlife Institute of India

(An Autonomous Institute under Ministry of Environment, Forest & Climate Change, Govt. of India)
पत्रपेटी सं०/Post Box No. 18, चन्द्रबानी, देहरादून/Chandrabani, Dehradun - 248001, उत्तराखण्ड, भारत/Uttarakhand, INDIA

75
Azadi Ka
Amrit Mahotsav

WII/HED/JAJ/2022/MP-30-G-SAGAR

26.05.2022

To

Shri Sunil Agarwal, IFS
Principal Chief Conservator of Forests (Land Management)
Bhopal - 462001
Madhya Pradesh

Sub: Diversion of 301.96 ha forest land for the construction of MP-30 Gandhi Sagar off stream pumped storage project (1440 MW) by M/s Greenko Energies Private Limited, Hyderabad in Neemuch Forests Division, Neemuch District of Madhya Pradesh State (Online Proposal No. FP/MP/HYD/116943/2020)-reg;


Ref: Letter no-4/23/2021/10-11/1415 dated 21-04-2022.

Sir,

With reference to the above cited letter, I would like to express our sincere thanks for sectioning Rs. 91,72,814/- for preparing wildlife conservation plan for the impact zone of MP-30 Gandhi Sagar off-stream Pumped Storage Project (1440 mw). In order to initiate the project activities, you are requested to release 80% of the project money as the 1st instalment grant to the WII's account as indicated below.

Thanking You,

Yours faithfully;


(J.A. Johnson)

Principal Investigator -
Gandhi Sagar Project- Conservation Plan

WII's account details:

A/No. 518502010057793
M/S DIRECTOR WILDLIFE INSTITUTE OF INDIA
IFSC: UBIN0551856
Bank: Union Bank of India
Branch: Wild Life Chandrabani.

बि०

✓



ई.पी.ए.एल/EPABX: 91-135-2640114, 2640115, 2646100; फैक्स/ Fax: 0135-2640117



ई-मेल/Email: wii@wii.gov.in वेब/ Website: www.wii.gov.in



ट्विटर: @wiiofficial

राज्य वन अनुसंधान संस्थान, पोलीपाथर, जबलपुर - 482008 (म.प्र.)

(मध्यप्रदेश शासन, वन विभाग का स्वायत्तशासी संस्थान)

दूरभाष : (0761) 2665540 (Direct), ईपीएबीएक्स : (0761) 2666529, फ़ैक्स : (0761) 2661304

ईमेल : mpsfri@gmail.com; sdfri@rediffmail.com, mpsfri@mp.gov.in

100 years of Forestry Research in Madhya Pradesh

क्रमांक/जेने./2024

जबलपुर, दिनांक 26-7-2022

प्रति,

प्रधान मुख्य वन संरक्षक

भू-प्रबंध,

कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष-भू प्रबंध),

सतपुड़ा भवन, भोपाल (म.प्र.)

विषय - नीमच जिले में ग्रीनको एनर्जी प्रा.लि. के प्रस्ताव में अंतिम परियोजना प्रतिवेदन बाबत।

संदर्भ - 1. आपका पत्र क्रमांक/एफ-4/2021/10-11/3375 भोपाल, दिनांक

07/10/2021

2. इस कार्यालय का पत्र क्रमांक/जेने./4099 जबलपुर, दिनांक 29/12/2021

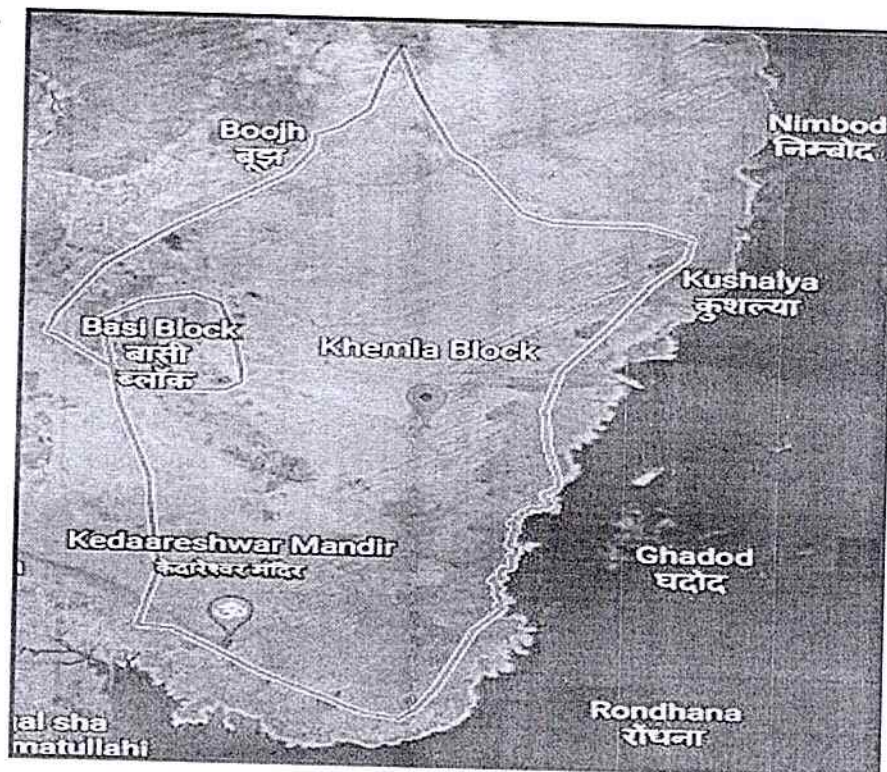
उपरोक्त विषयांतर्गत एवं संदर्भित पत्रों के तारतम्य में लेख है कि आपके द्वारा स्वीकृत परियोजना शीर्षक "Use of excavated soil for enhancing natural regeneration and plantation activities of Greenko Energy Pvt.Ltd., Rampura forest range, Neemuch district of M.P." का अंतिम परियोजना प्रतिवेदन अग्रिम कार्यवाही हेतु संलग्न सम्प्रेषित है।

संलग्न - उपरोक्तानुसार।

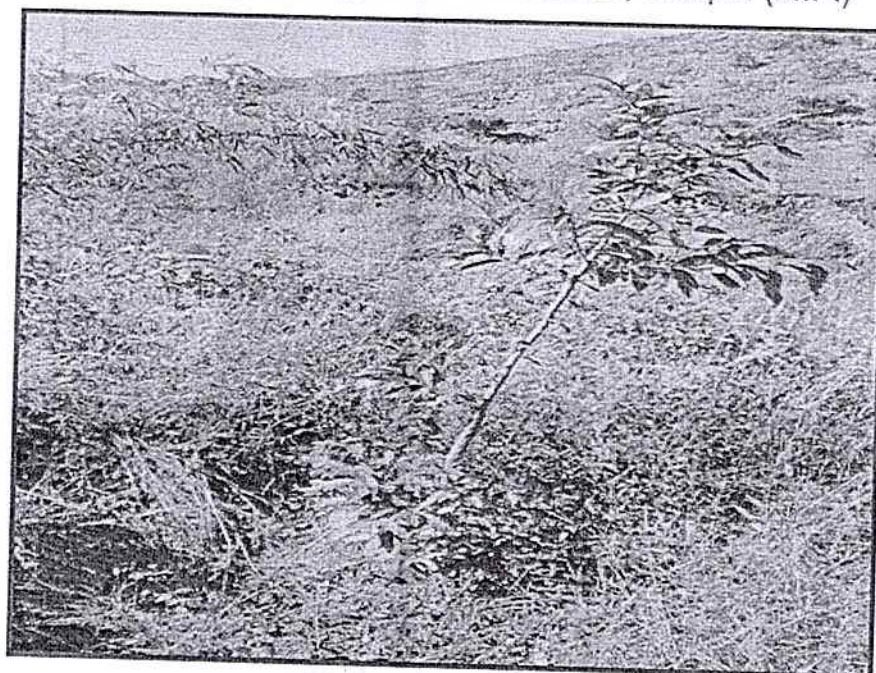
(अमिताम अग्निहोत्री) भा.व.से.
प्रधान मुख्य वन संरक्षक एवं
संचालक

राज्य वन अनुसंधान संस्थान,
जबलपुर

Project Report
Use of excavated soil for enhancing natural regeneration and
plantation activities of Greenko Energy Pvt.Ltd., Rampura forest range,
Neemuch district of M.P.



Submitted to
Principal Chief Conservator of Forest
(Land Management), Satpura Bhawan, Bhopal (M.P.)



Submitted by
Biotechnology Division,
M.P. State Forest Research Institute, Jabalpur (MP)
2022

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PROJECT AT A GLANCE

1. Project Title	Use of excavated soil for enhancing natural regeneration and plantation activities of Greenko Energy Pvt.Ltd., Rampura forest range, Neemuch district of M.P.
2. Executive authority	Amitabh Agnihotri, IFS, Director, State Forest Research Institute, Jabalpur (M.P.)
3. Principal Investigator	Dr. S.K. Tiwari, Scientist E & Head, Biotechnology Division, M.P. State Forest Research Institute, Jabalpur (M.P.)
4. Co-investigator	1. Dr. Avdesh Sharma, S.R.O. 2. Dr. Sachin Dixit, S.R.O. 3. Dr. Pratiksha Chaturvedi, S.R.O.
5. Objective	To improve impacted site through natural regeneration and plantation activities.
6. Project duration	Six months (from November 2021).
7. Funding agency	Principal Chief Conservator of Forest (Land Management), Satpura Bhawan, Bhopal (M.P.)
8. Project cost	Rs. 8.45 lakhs
9. Implementing agencies	Biotechnology Division, State Forest Research Institute, Jabalpur (M.P.)

CHAPTER - 1

WHY THIS PROJECT (INTRODUCTION) & OBJECTIVE OF THE PROJECT

1. Why this project (Introduction) :

As per the File No. 8-18/2021-FC Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi dated 24/08/2021, it is mentioned that on the basis of recommendation of the Forest Advisory Committee "In principle/Stage-1" approval of the Central Government is hereby granted under Section 2 (ii) of the Forest (Conservation) Act, 1980 for non-forest use 301.96 ha reserved forest land for the construction of MP-30 Gandhi Sagar off-stream Pumped Storage Project (1440 MW) by M/s Greenko Energies Private Limited, Hyderabad in Neemuch Forest Division, Neemuch District of Madhya Pradesh State under which point no. II (Encl.-I.) it is mentioned that (specific condition imposed by Forest Advisory Committee the unique topography, edapho-climatic factors and vegetation of the area, a comprehensive plan regarding the protection, conservation and improvement of areas surrounding the reservoir, roads and other components of the project will be prepared and implemented at the cost of the user agency. In view of thin soil depth and sheet rock below, special treatments that might be required, including use of excavated soil during project construction, would be identified through a study by an specialized institute like ICFRE and their recommendation shall be taken into account for afforestation and regeneration in the adjoining areas. Further, this study shall also focus on regeneration/plantation of vulnerable species found in the area, such as *Pterocarpus marsupium* which is in IUCN Red List of 'Near Threatened' species. Furthermore, such plant should also improve the drainage to augment water supply to the nearby village tank. In addition, trees of such species will be planted and maintained at project cost on either side of the roads and other areas, wherever possible.

For compliance of these terms and conditions and as per the letter no./F-4/2021/10-11/3375 Bhopal, dated 07/10/2021 from Principal Chief Conservator of Forest (Land Management), Satpura Bhawan, Bhopal (Encl.-II.) in which it was mentioned that Greenko Energy Pvt.Ltd. is establishing pump storage in 301.96 hectare for which Govt. of India given in-principle approval for setting up pump storage in the proposed forest land. This project site is about 4 km away from Gandhi Sagar Sanctuary with 8 to 10 inch soil depth as per the above said letter, after in-principle approval from Govt. of India the pump storage project which is proposed by Greenko Energy Pvt.Ltd. The condition is also imposed by Govt. of India and suggested to take up a study regarding enhancement of natural regeneration and afforestation on excavated soil by the recognised institute.

During construction of MP-30 Gandhi Sagar off-stream Pumped Storage Project by Greenko Energies Pvt.Ltd. Hyderabad, in Neemuch forest division of M.P. in 301.96 ha forest land will be excavated. Therefore, in the project site area, it will be focused on the appropriate utilization of excavated soil for regeneration, plantation of suitable vulnerable species.

Keeping under above consideration and with reference to the letter no./Gen./4099 dated 29/12/2021 (Encl. III), this project proposal was formulated and submitted for providing necessary recommendations regarding use of excavated soil for enhancing natural regeneration and plantation activities in project area.

1.1 Objective of the project :

To improve impacted site through natural regeneration and plantation activities.

CHAPTER - 2

DESCRIPTION OF THE SITE

&

OBJECTIVELY VERIFIABLE INDICATORS

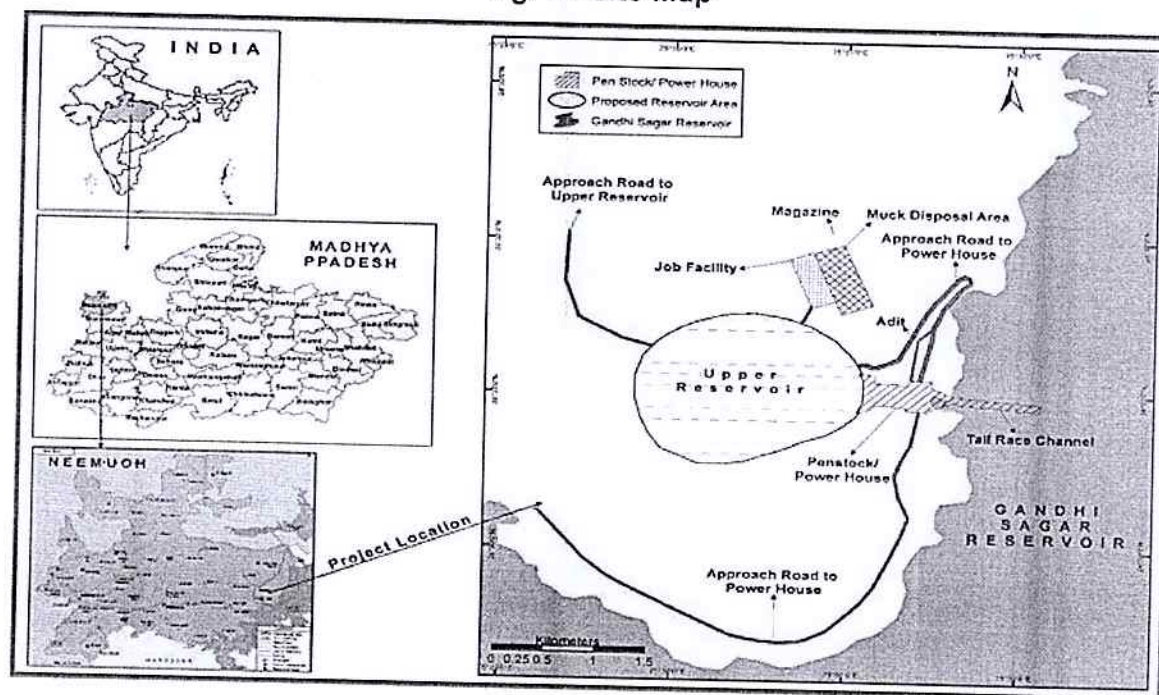
2. Description of the site

2.1 Location –

Proposed MP 30 Gandhi Sagar Off-Stream Pumped Storage Project (PSP) is located near Khemla village, Rampura tehsil in Neemuch District of Madhya Pradesh. It envisages creation of upper reservoir which is located away from all existing natural systems. The project is about 78 Kms from district headquarters Neemuch via MP SH 31A. Nearest railway station and airport are located at Neemuch and Udaipur respectively. The nearest village to the project is Khemla block about 0.5 Km, which comes under, Rampura tehsil, Neemuch District.

2.2 Site Map – The site map of MP 30 Gandhisagar Off-stream Pumped Storage Project proposed at Rampura Tehsil in, Khemla block village, District Neemuch of Madhya Pradesh is presented below in Fig.1.

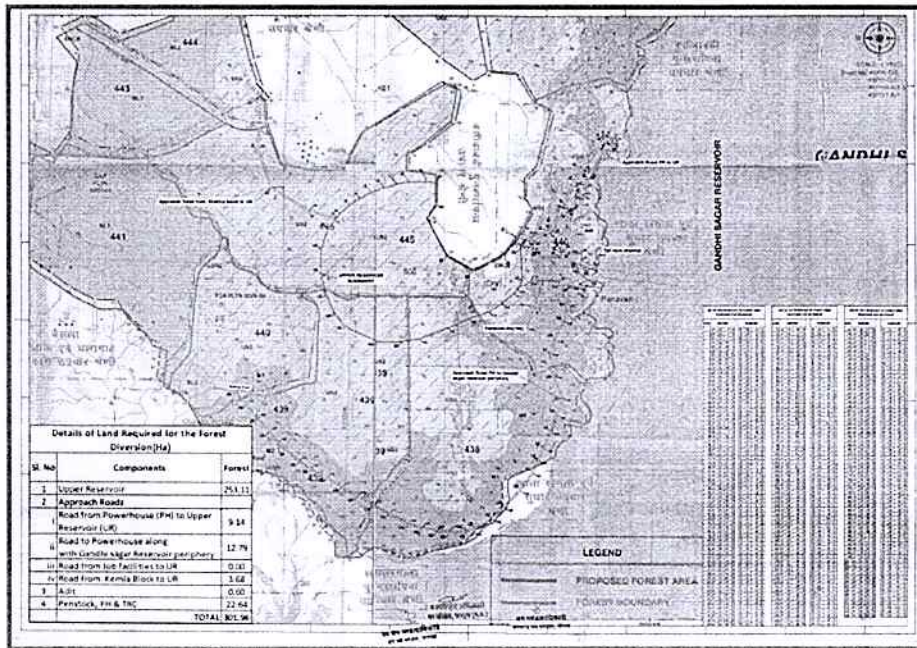
Fig. 1 : Site Map



2.3 About the project site - MP 30 Gandhi Sagar Off-Stream Pumped Storage Project will mainly consist two activities i.e. Gandhi Sagar lower reservoir which is already existed in the project site the upper reservoir will be constructed in the project site. Upper reservoir will be constructed of the height of 35 meter from lower reservoir. MP 30 Gandhi Sagar Off-Stream PSP Upper Reservoir will be constructed at Latitude 24°31'6.89" N and Longitude 75°30'56.12" E. For the construction of MP 30 Gandhi Sagar Off-Stream PSP, land will be acquired for construction of project components, reservoir area, muck dumping, construction camps and colony, etc. Based on the final project layout, land requirement has been worked out as 402.50 ha.

2.4 Layout Map of proposed forest land for diversion – The layout map of project site is mentioned below in Fig.2.

Fig. 2 : Layout Map



2.5 Diversion of proposed forest land for project site- As per the range history of Rampura range, Beat Khemla East, Forest Block Menpichor consist of reserve forest as per the compartment history (Table-1). The gradient level of the project site ranges from 10% 216.540 ha, 10% to 30% 110.882 ha, 30% to 40% 74.361 ha, maximum to 40% ha. Fig. 3 as mentioned below.

Fig. 3 : Proposed forest land for diversion

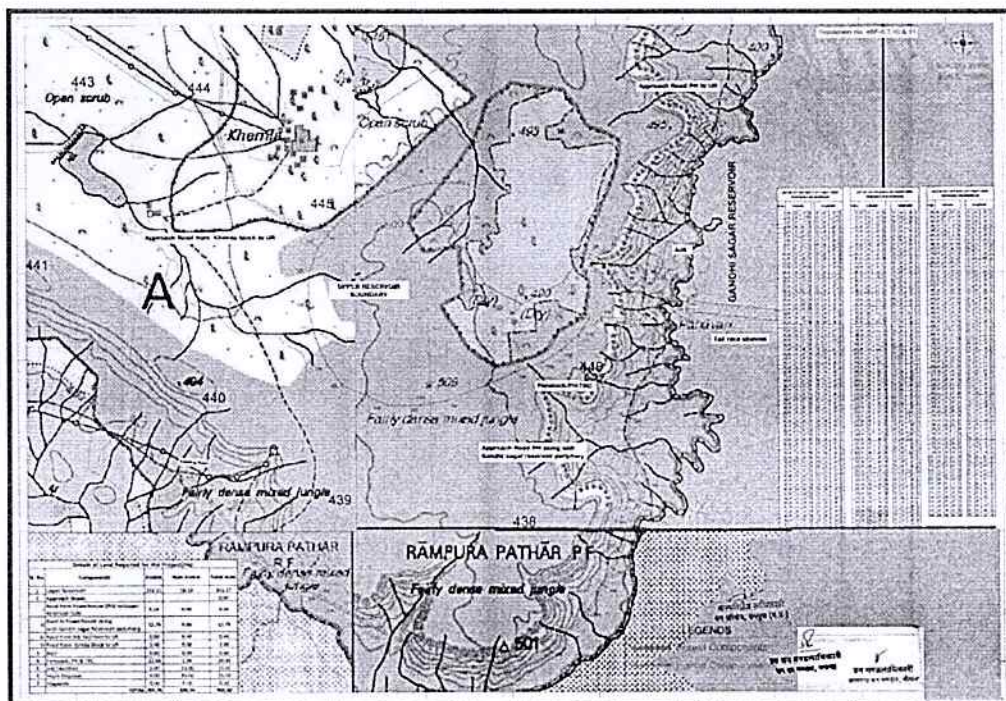
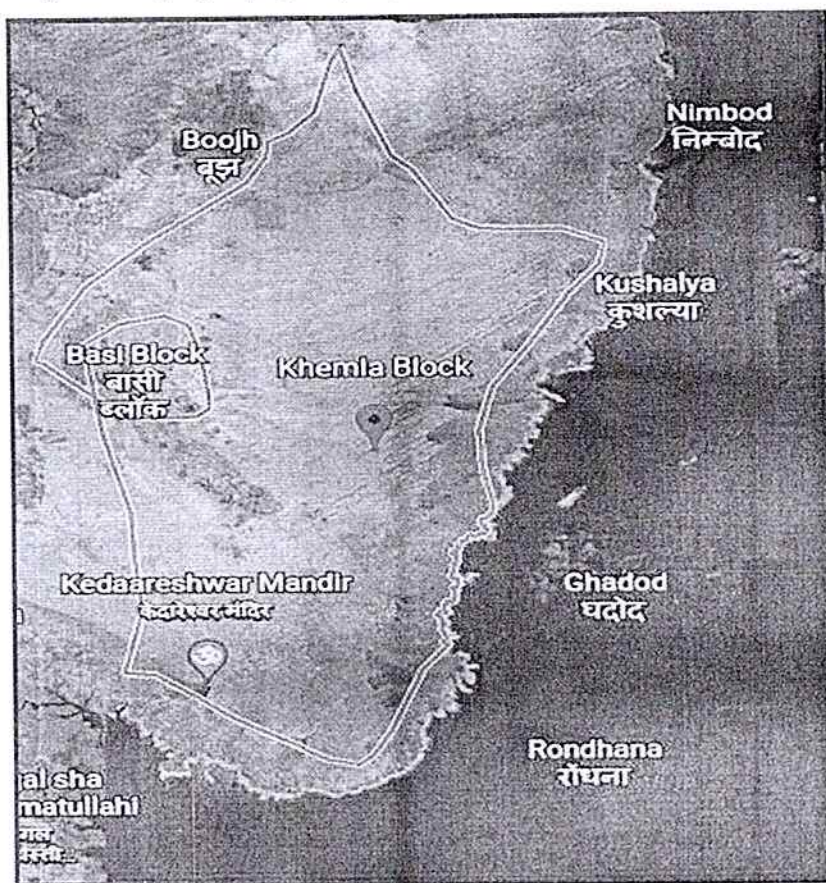


Table – 1 : Component wise forest land break up for MP30 Gandhi Sagar Off-Steram Pump Storage Project in Rampura Range, Neemuch Forest Division, Madhya Pradesh

SN	Forest Block	Beat	Compartment Number	Comp. area in ha.	Affecte d forest area (ha)	Remark
1	Menpichor	Khemla East	438	401.783	28.06	Upper Reservoir
2					6.87	PWD Road (Kedareswar) to Power House
3	—"—	Khemla East	446	321.225	22.64	Penstock & Power House
4					30.74	Upper Reservoir
5	—"—	Khemla East	446		0.60	Adit (Under Ground)
6					9.14	UR to PH Road
7					1.99	PWD Road (Kedareswar) to Power House
8	—"—	Bhimpura	444	153.736	0.71	PMGSY Road Khemla Block to UR
9	—"—	Salarmala	445	469.427	2.97	PMGSY Road Khemla Block to UR
10					156.88	Upper Reservoir
11	—"—	Salarmala	439	370.596	37.43	Upper Reservoir
12					3.74	UR Road to Power House
13	—"—	Salarmala	440	196.677	0.19	PMGSY Road (Kedareswar) to Power House
G.Total :-				1913.444	301.96	

2.6 The topography of the project site –The topography of the project site is leveled, undulated, half mountain, inaccessible hills, Basalt/sandstone rocks as mentioned in Fig. 4.

Fig. 4 : Topography of project site through google earth

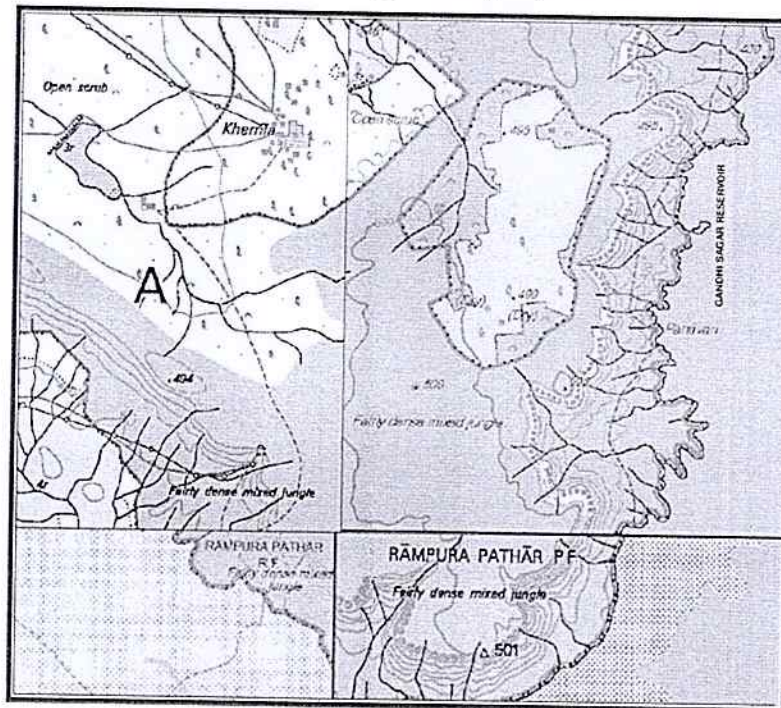


2.7 Soil features of project site - The project site consist of red brown loam soil, sandy loam, black, smooth, gravelly, red literate, alluvial and bolder type. The depth of the soil is too shallow and inadequate humus. The water holding capacity of the soil is low. The status of soil erosion in the project area is Gully and Nala with medium extension. The grazing pressure in the project area is very high. Illegal felling is medium for nistar purpose. There is no encroachment and mining in the area. Fairly drought period is observed in the area.

2.8 Forest types of project site

The Project site is located in Neemuch forest division of Ujjain circle of M.P. Forest Department. As per the land use map of the study area, larger part of the vegetation is composed, of forests especially in the surroundings. As per the revised forest survey of the forests types of India by Champion and Seth (1968) the study area falls under 5A/C3 Southern Mixed Deciduous forest, 5/DS1 Dry Deciduous Scrub Forest, 5D/IS2 Khair – Sissu Forest, 5DS/1 Dry Deciduous Scrub. These forest types are presented in Fig.5. During the survey it was observed that larger part of the forests is composed of trees, shrubs and herbs.

Fig. 5 : Forest types in project site



2.9 Objectively Verifiable Indicators –

- i. Site quality
- ii. Edapho climatic conditions
 - (a) Temperature
 - (b) Rainfall
 - (c) Moisture
 - (d) Physico-chemical properties of soil
- iii. Vegetational survey

CHAPTER – 3

METHODOLOGY

3. Methodology

a. **Survey of the project area** – Following activities were covered -

- i. **Collection of meteorological data** - Climate, topography, temperature, rainfall, number of rainy days, Humidity etc.
- ii. **Collection of soil samples** - Collected for analysis of their physico-chemical properties viz pH, Electrical Conductivity, Bulk Density, Nitrogen, Phosphorus, Potassium, Organic carbon, moisture content, water holding capacity etc.
- iii. **Vegetational survey** – includes present status of naturally occurring species and their regeneration status.

b. **Site improvement activity** - Following suggestions/activities were covered -

- i. Suitable species for afforestation scheme.
- ii. Spacing and different pit size for various suitable species.
- iii. Appropriate soil mixture in pits for better growth.
- iv. Enhancing natural regeneration through protection and various conservation practices.

3.1 Meteorological data –

The tract dealt with lies in the Neemuch district, which experiences mostly hot summer. It enjoys fairly good rainfall from the southwest monsoon from June to September in the study area. A brief account of different meteorological data of temperature (maximum and minimum), average rainfall and relative humidity of the project site are presented below :-

3.1.1 Temperature – The average maximum and minimum temperature is 40.30°C and 28.90°C respectively (the reference year 2012 to 2021) of the study area. (<https://www.worldweatheronline.com>).

3.1.2 Rainfall - The project sites receives maximum rainfall between June and September. The normal annual rainfall of Neemuch district is 797.96 mm. District received maximum rainfall during south west monsoon period i.e. June to September. About 90.5% of the annual rainfall received during monsoon season. (<https://www.worldweatheronline.com>)

3.1.3 Humidity – The relative humidity is generally low thorough out the year except during monsoon months. The average relative humidity of the area is 21.10% (the reference year 2012 to 2021). (<https://www.worldweatheronline.com>)

3.2 Collection of soil samples from various locations –

3.2.1 Major soil types - Mainly 4 types of soils found in Neemuch district these are Alluvial soil, Medium Deep Black cotton soil, Laterite soil and Red loamy soil. Mostly medium deep black cotton soil is found thorough out the district.

3.2.2 Analysis of physico-chemical properties of soil samples - For Physico chemical properties of soil, the soil samples were collected from 18 different places of project site (Fig. 6). The soil samples were brought to SFRI and the analysis was done in soil science laboratory of SFRI, Jabalpur. For physico-chemical properties following parameters were analyzed. The details of physico-chemical properties of collected soil samples are presented in table 2 & 3.

3.2.2.1 Bulk Density - The bulk density is responsible for soil's availability, soil aeration, moments of water & solute and for structural support. In the study area, most of the soil is sandy clayey loam or sandy clay. The average bulk density of soil varied from 1.54 to 1.68 (g/cm³) at different locations of the study area (Table 2). On the basis of data as shown in table 2 the bulk density of different soil samples is medium and it may be due to the presence of clay content.

3.2.2.2 Water Holding Capacity of the soil – Soil water holding capacity is the amount of water that a given soil can hold for use to plants. The water holding capacity of soil of the study is varied from 30.85% to 35.05% (Table-2). However, for tree crops the range of water holding capacity is 28% to 42%. So, the soil of project site is moderately suitable for plantation activities. The Water Holding Capacity of the soil was done by Kiln method.

3.2.2.3 pH of the soil - Soil pH influences nutrient uptake and tree growth. Many nutrients change form during reactions in the soil that are largely controlled by soil pH. Trees may or may not be able to use these changed nutrients. Soils with a pH of 6.5–7.0 generally provide the best growing conditions. The pH of the soils of study area varied between 6.53 to 6.83 (Table 2) and this was done by pH meter.

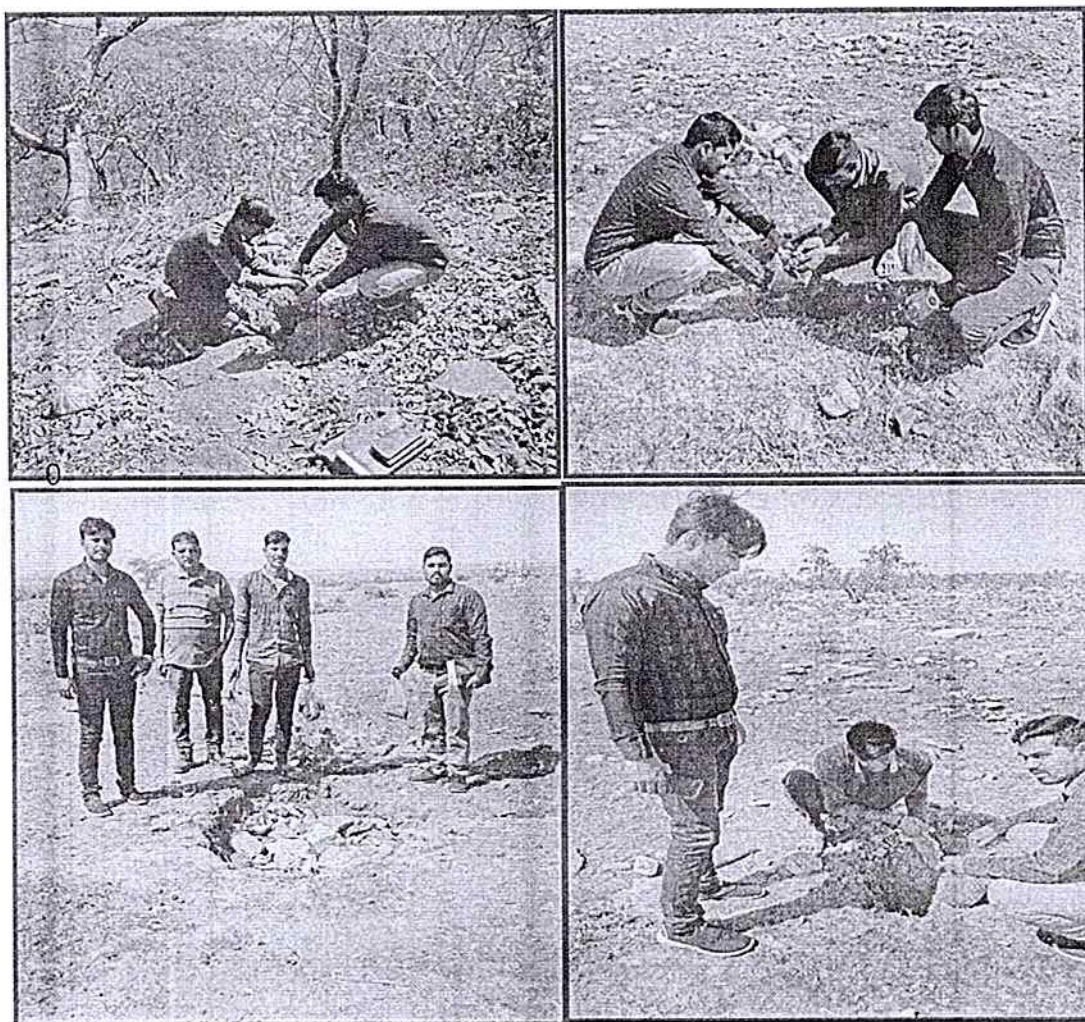
3.2.2.4 Electrical Conductivity - Electrical Conductivity (EC) estimates the concentration of soluble salts in the soil. The electrical conductivity of collected soil samples varied between 0.161 to 0.303 (dS/m) as presented in table 2 and this was tested by EC meter.

Table – 2 : Physical properties of collected soil samples

SN	Details of soil samples*	GPS location	Bulk density (g/cm ³)	Water holding capacity (%)	pH (1:2.5)	EC (dS/m)
1	SN 44-I	24°32'24.5" 75°31'06.9"	1.66	30.91	6.58	0.245
2	LR	24°32'18.5" 75°31'53.2"	1.62	33.17	6.83	0.271
3	SN 44-II	24°32'24.5" 75°31'06.3"	1.66	30.85	6.55	0.273
4	PS-I	24°32'13.1" 75°31'20.3"	1.58	35.05	6.72	0.303
5	DY	24°33'03.3" 75°31'10.2"	1.55	31.12	6.57	0.273
6	PH	24°31'49.1" 75°31'51.4"	1.55	31.85	6.53	0.188
7	UR	24°32'11.9" 75°31'23.1"	1.63	32.11	6.62	0.251
8	MD-II	24°32'33.7" 75°31'22.7"	1.61	31.79	6.67	0.271
9	SN 44-III	24°33'10.3" 75°31'23.1"	1.55	32.78	6.65	0.205
10	LR-II	24°32'18.0" 75°31'53.6"	1.65	33.15	6.81	0.249
11	PS-II	24°32'12.8" 75°31'19.9"	1.60	33.54	6.68	0.214
12	PH-II	24°31'12.8" 75°31'19.7"	1.54	31.55	6.55	0.161
13	UR-II	24°32'11.2" 75°31'08.6"	1.65	33.47	6.76	0.195
14	UR-445	24°32'11.0" 75°31'23.0"	1.68	32.80	6.60	0.248
15	MD-I	24°32'33.7" 75°31'22.7"	1.62	31.28	6.63	0.254
16	Road Side	24°32'51.0" 75°30'18.6"	1.54	32.60	6.54	0.255
17	PS-III	24°32'10.6" 75°31'21.6"	1.57	34.24	6.70	0.211
18	UR-LR	24°32'10.3" 75°31'08.0"	1.60	32.14	6.59	0.274

* SN 44 – 1 Survey no. 44, LR - Lower Reservoir, SN 44-II – Survey no. 44 sample no. 2, PS-I - Pen Stork 1, DY - Dumping Yard, PH - Power House, UR - Upper Reservoir, MD-II -Muck Dumping sample no. 2, SN 44-III – Survey no. 44 sample no. 3, LR-II - Lower Reservoir sample no. 2, PS-II - Pen Stork sample no. 2, PH-II - Power House sample no. 2, LR-II - Lower Reservoir sample no. 2, UR-445 - Upper Reservoir 445, MD-I - Muck Dumping 1, Road Side, PS-III - Pen Stork 3, UR-LR- Upper Reservoir & Lower Reservoir.

Fig. 6 : Collection of soil sample activities from project site



3.2.3 Analysis of chemical properties of soil samples - For chemical properties of soil, samples following parameters were analyzed. The details of chemical properties of collected soil samples are presented in table 3 and Fig. 6.

3.2.3.1 Organic Carbon - Soil Organic Matter (SOM) is an essential source of plant nutrients that affects the rate of organic residues, inorganic fertilizers and increases soil accumulation, which can reduce soil degradation, increases the exchange of cations and retaining capacity of water. The Organic Carbon of the soils of project site are varied from 0.68% to 0.81% as presented in table 3 and this was done by Walkley and Black method.

3.2.3.2 Nitrogen, Phosphorus and Potassium - The maintenance of satisfactory nutrient levels in growing trees is an important part of plantation management. The most important nutrients in forestry are phosphorus, nitrogen and potassium. Phosphorus is of fundamental importance from an early stage for good root development. Both nitrogen

and potassium are important for photosynthesis. In the project site it is observed that the NPK level in collected soils ranges from 244.61 to 277.22, 11.36 to 15.73 and 263.20 to 290.08 (kg/h.) respectively (Table 3). Normally in case of Nitrogen, the minimum range is 280 kg/h, medium range 280-560 kg/h and higher level is more than 560 kg/h. As far as Phosphorus is concern the minimum range 22 kg/h, medium range 22 to 56 kg/h and maximum range above than 56 kg/h. Similarly, in case of potassium the minimum range starts from 140 kg/h, medium 140 to 336 kg/h and maximum is above than 336 kg/h. So, from above analysis it was observed that the Nitrogen and Phosphorus level were less. Therefore, the supplements of these macro nutrient will essential for soil fertility. As far as Potassium is concern in given samples is normal. Nitrogen, Phosphorus and Potassium of the collected soil sample were analyze through Kjeldahl distillation, Olsen and Flame Phofometer methods respectively.

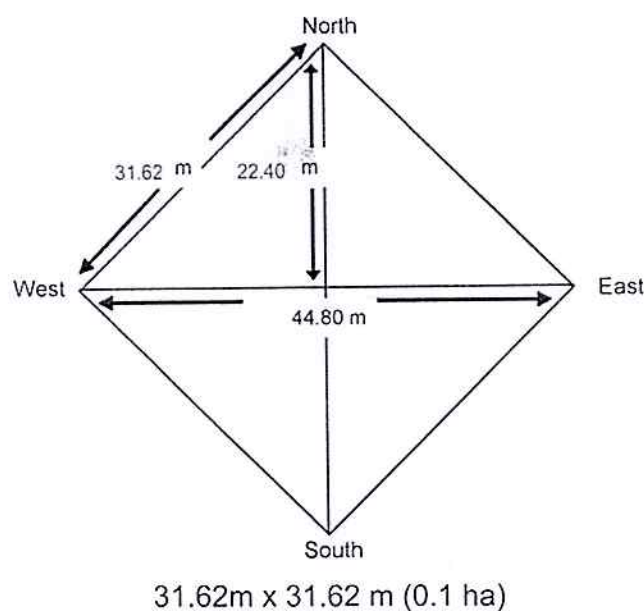
3.2.3.3 Micro nutrients (Cu, Fe, Mn & Zn) – Nutrient availability is influenced mainly by soil pH, and the cationic micronutrients Cu, Fe, Zn, and Mn have their availability particularly reduced when the soil is low acid, tending to neutral or alkaline. This low availability of micronutrients in the soil can limit the development of plant species and, consequently, interfere in the biomass production and even in the natural regeneration of species. In the project site, it was recorded that the copper found 0.208 to 0.390 ppm, Fe 4.197 to 5.690 ppm, Mn 2.315 to 3.392 ppm, Zn 0.604 to 0.760 ppm respectively. The micro nutrients were analyze by Atomic Absorption Spectrophotometer method.

Table – 3 : Chemical properties of collected soil samples

SN	Details of soil samples	Organic Carbon	Available soil nutrients (kg/ha)			Available micro soil nutrients (ppm)			
			N	P	K	Cu	Fe	Mn	Zn
1	SN 44	0.77	262.17	13.11	284.48	0.354	5.414	2.348	0.637
2	LR	0.72	254.64	12.24	274.40	0.268	4.327	2.486	0.652
3	SN 44-II	0.75	260.92	13.55	282.24	0.377	5.278	2.360	0.618
4	PS	0.81	275.97	15.30	291.20	0.331	5.690	2.547	0.714
5	DY	0.69	245.86	11.36	263.20	0.381	4.533	3.190	0.604
6	PH	0.69	247.12	11.36	265.44	0.289	5.290	2.644	0.698
7	UR	0.75	260.92	13.11	280.00	0.323	4.197	3.382	0.703
8	MD-II	0.74	255.90	12.67	277.76	0.208	4.509	2.382	0.673
9	SR-II	0.78	265.93	13.98	288.96	0.390	4.730	2.377	0.667
10	LR-II	0.72	253.39	12.24	273.28	0.269	4.344	2.445	0.683
11	PS-II	0.78	263.42	14.42	285.60	0.323	5.248	2.598	0.759
12	PH-II	0.68	244.61	11.36	263.20	0.269	5.075	2.667	0.695
13	LR-II	0.71	250.88	11.80	268.80	0.297	4.378	2.520	0.648
14	UR-445	0.77	262.17	13.98	284.48	0.314	4.429	3.382	0.716
15	MD	0.74	258.41	12.67	278.88	0.233	4.710	2.315	0.670
16	Road Side	0.81	277.22	15.73	290.08	0.237	5.065	2.590	0.747
17	PS-RA-I	0.80	269.70	14.86	285.60	0.351	5.199	2.585	0.760
18	UR-LR	0.71	252.11	11.80	267.68	0.321	4.259	3.392	0.710

3.2.4 Vegetational survey –

The Vegetation status was recorded through standard method as prescribed by working plan code, 2014. As per the prescribed guideline, plots of 0.1 ha (31.62m × 31.62m) was laid in 5 different location of studied area. Plots were laid to know the vegetation of the area. For laying out of each plot, wooden peg was established in the center and 22.40 m rope was laid to north and south direction. In this way 44.80 m rope was laid. Then, 44.80 m rope was again laid in East-West direction by making right angle with center wooden peg. In this way, wooden pegs were fixed in all the direction. After laying out such plot, the distance was 31.62 m from any two end points of West-North/North-East/East-South/South-West. This was conformed that plot of 0.1 ha was established in the field. The plot design is presented in following diagram -



As per the above design, 5 plots were established in different locations of studied area. The details of the vegetation found in those plots are given in table 4 & Fig 7 :

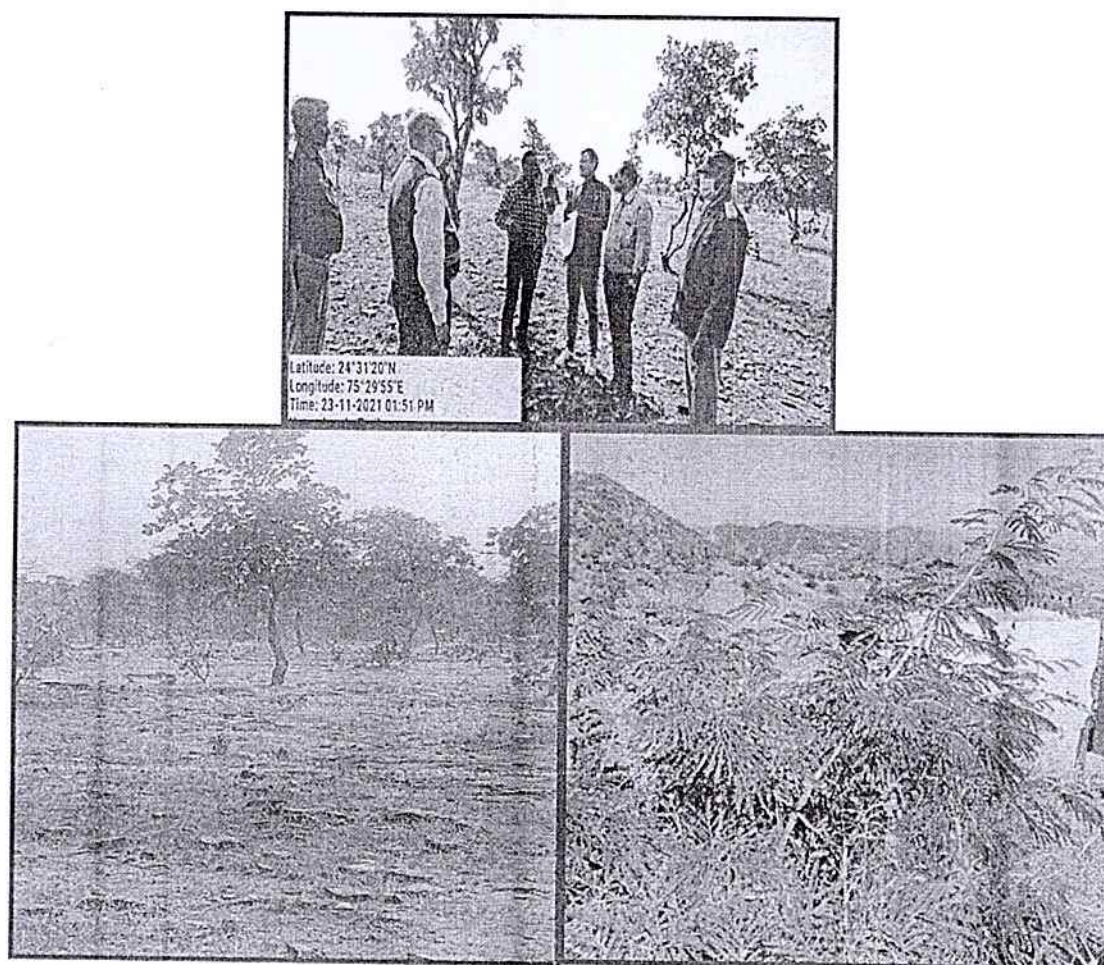
Table 4 – List of species in studied area

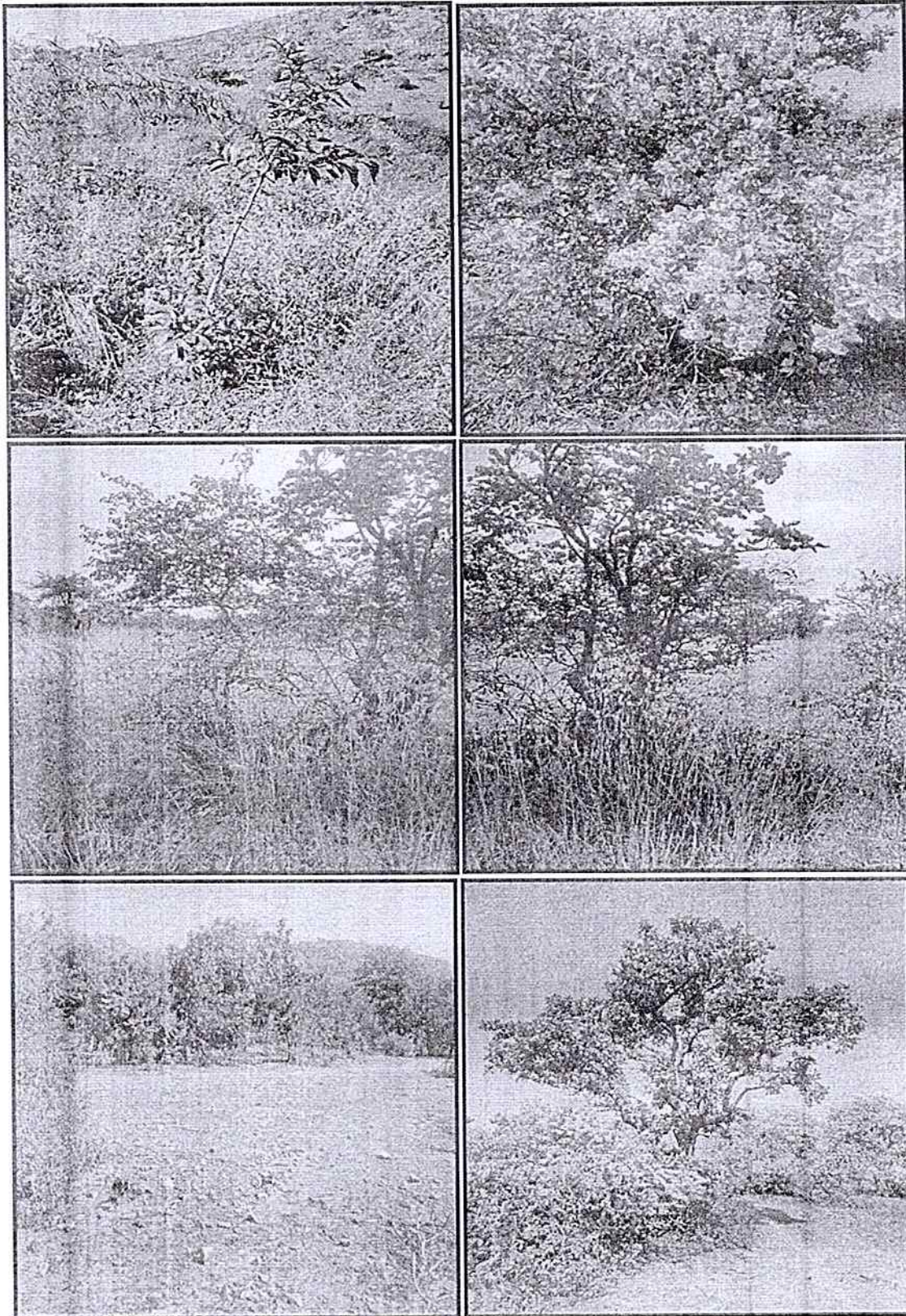
S.N	Local Name	Botanical Name
1	Salai	<i>Boswellia serrata</i>
2	Lentana	<i>Lantana camara</i>
3	Palash	<i>Butea monosuperma</i>
4	Bilayti Babul	<i>Prosopis juliflora</i>
5	Reonjha	<i>Acacia leucophloea</i>
6	Moyan	<i>Lannea coromandelica</i>
7	Bija	<i>Pterocarpus marsupium</i>
8	Tendu	<i>Diospyros melanoxylon</i>
9	Dhawai	<i>Woodfordia floribunda</i>
10	Baikal	<i>Gymnosporia montana</i>
11	Arjun	<i>Terminalia tomentosa</i>
12	Ber	<i>Ziziphus jujube</i>

13	Kardhai	<i>Anogeissus pendula</i>
14	Khair	<i>Acacia catechu</i>
15	Chirol	<i>Holoptelea integrifolia</i>
16	Imli	<i>Tamarindus indica</i>
17	Dudhi	<i>Wrightia tinctoria</i>
18	Bel	<i>Aegle marmelos</i>
19	Dhawda	<i>Anogeissus latifolia</i>
20	Aak	<i>Calotropis procesera</i>

The girth and height of trees were measured between 12 cm to 34 cm and 1.42 m to 4.92 m respectively on average basis. Regeneration was found very poor in all studied points. Palash was recorded as a dominant species in one plot while mixed status of existing species was recorded in remaining other plots. Ground flora was recorded sporadically in all the plots. *Cassia tora* was recorded as dominant species in 3 plots in under story. *Saccharum munja*, *Dichanthium annulatum*, *Cynodon dactylon*, *Heteropogon contortus*, *Eragrostis amabilis* and *Cenchrus ciliaris* were few other species recorded as ground flora in other plots.

Fig. 7 : Vegetational survey





3.2.5 Site improvement activity -

Suitable species for afforestation scheme – The species which are native to the project site area will recommend for afforestation activities. The major forestry species which are proposed for this activity will be Bija, Karanj, Neem, Sissu, Babul, Bel, Arjun, Kardhai, Mahua and Chirol etc. The spacing of the proposed species will be 3×3 meter on excavated soil. These species can also be taken up for road side plantations with other larger species i.e. Mango, Jamun, Imli, Mahua, Gulmohar, Karanj, Aomla, Amaltas, Bel, Sissoo, Kachnar etc. at spacement of 2.5m×2.5m etc. (fig. 8). For road side plantations it is suggested that individual tree guards will be erected for protection of plants. Regular watering is also suggested throughout the year, except in monsoon season. It will also suggested that preferably sprinkler system will used for irrigation if not possible then water tank will be use. These activities will increase moisture in the area, which in turn, help to increase natural regeneration in project impacted site.

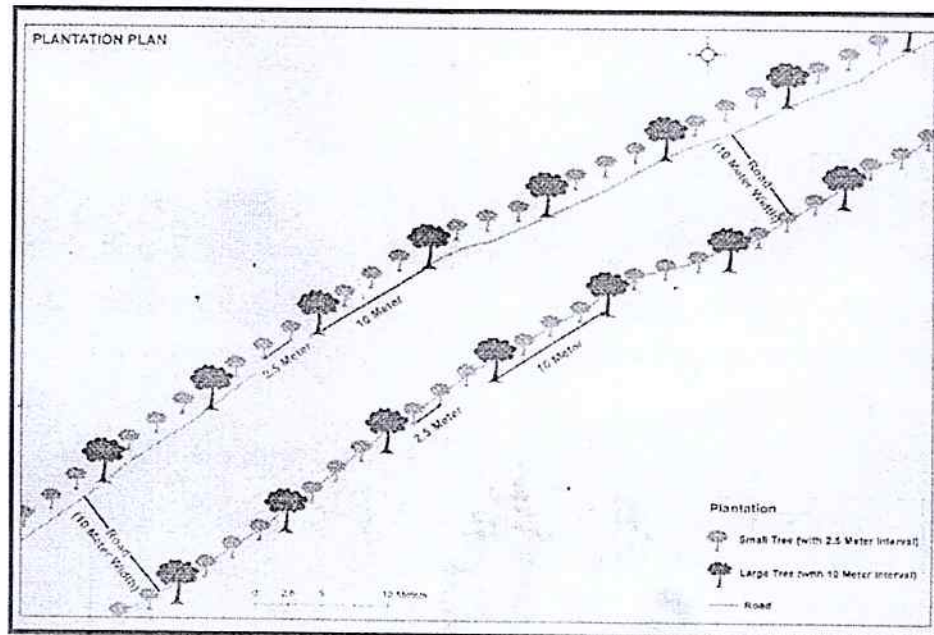


Fig. 8 : Road site plantation diagram

As per the soil report from different areas of the project, site is suitable for afforestation activities and increasing natural regeneration. However, the pits for afforestation activities will be supplemented with 1:1:1:1 (FYM + Soil + Sand + Vermicompost). As per the site suitability, it is suggested to dig pit size of 45×45×45 cm. For enhancing natural regeneration, soil working, water conservation etc. practices should be done.

Soil working through thala preparation around the existing regeneration, weeding and protection should be provided to regenerated seedlings. Contour trenches along the slopes is recommended for soil and water conservation. Contour Lines are recommended in every 5-7 meters in areas where slope is below 20%. In same patches, if slope is more than 20% then contour trenches should be made after every 3 meter.

CHAPTER – 4

FINDINGS

Findings -

- 1 The soil of project site is moderately suitable for plantation activities.
- 2 The pH of the soils of study area varied between 6.53 to 6.83 which is suitable for plantation of tree species.
- 3 The Organic Carbon of the soil of project site are varied from 0.68% to 0.81%.
- 4 The bulk density of different soil samples is medium and it may be due to the presence of clay content.
- 5 It was observed that the Nitrogen and Phosphorus level were less. Therefore, the supplements of these macro nutrient will essential for soil fertility. As far as Potassium is concern in given samples is normal.
- 6 In the project site it was recorded that the copper found 0.208 to 0.390 ppm, Fe. 4.197 to 5.690 ppm, Mn. 2.315 to 3.392 ppm, Zn. 0.604 to 0.760 ppm respectively.
- 7 Mixed vegetation was found in the area and the average girth & height of the trees were recorded between 12 cm to 34 cm and 1.42 m to 4.92 m respectively.
- 8 Regeneration was found very poor in all studied points. Palash was recorded as a dominant species in one plot while mixed status of existing species was recorded in remaining other plots.
- 9 *Cassia tora* was recorded as dominant species.

CHAPTER – 5

RECOMMENDATIONS

Recommendations -

For enhancing of natural regeneration and afforestation, following suggestions will be recommended for the use of impacted soil of proposed and adjoining forest area.

- 1 Site should be covered with the plantation of Karanj, Neem, Sissoo, Babul, Salai, Bel, Arjun, Kardhai, Mahua, Chirol, Bija etc.
- 2 Spacing should be kept 3m×3 m interval and for road side 2.5m×2.5m.
- 3 Pit size should be 45cm×45cm×45 cm.
- 4 Pit soil is supplemented with soil, sand, FYM & vermicompost in the ratio of 1:1:1:1.
- 5 Soil working (thala) should be made around regenerated and planted trees and thala size should be made according to size of regenerated seedlings and planted trees.
- 6 Muck dump area should be covered with grasses for binding the soil and it will help in developing pasture lands in 5-5 ha areas.
- 7 Contour trenches should be recommended for soil & water conservation in the area.
- 8 Tree guards along the road side plantations are recommended to protect the trees.
- 9 Drip irrigation is recommended for impacted area if not possible than irrigation through water tanks is recommended.
- 10 It is recommended to distribute the saplings to villagers free of cost residing other than impacted area, institutions such as panchayat, school etc. and their campus if they have their space.

For improving the afforestation and natural regeneration of impacted zone, the villagers of adjoining areas should be benefited with following corporate social responsibility (CSR), so their dependency on forest resources of the area will be reduced and their awareness among environment and climate will be improved.

i. Promotion of Swach Bharat Abhiyan

- a. Construction of toilet in toilet less houses.
- b. Launching of awareness campaigning about cleanness in the village.
- c. Launching of campaigning village school to generate awareness in students.

ii. Promotion of digital India programme.

- a. Supply of one desktop/laptop in village schools.
- b. Training to school staff in operating the computer.

iii. **Skill development of farmers**


- a. Imparting training in preparation and use of vermi compost/bio-pesticides.
- b. Imparting training in drip irrigation.
- c. Imparting training agro-forestry.
- d. Imparting training on sustainable harvesting of gum collection, NTFPs and medicinal plants.


iv. **Skill development of village women.**


- a. Imparting training in tailoring.
- b. Distribution of sewing machine.
- c. Impart training in food processing – Preparation of pickles, papad, squash, jam, sauces, etc.


v. **Promotion of green energy.**

- a. Launching awareness campaigning about use new and renewable energy resource.
- b. Installation of roof-top solar panel in school building.
- c. Installation of water harvesting system.
- d. Distribution of solar lighting devices to villagers.


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ENCLOSER

ENVIRONMENTAL IMPACT ASSESSMENT

MP 30 GANDHI SAGAR OFF-STREAM PUMPED STORAGE PROJECT (1440 MW)



April, 2021

Prepared for:

Greenko

GREENKO ENERGIES PRIVATE LIMITED, HYDERABAD

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**Relevant Extract of Muck Disposal Plan of
MP30 Gandhi Sagar Off-Stream Pumped Storage Project (1440 MW)**

10.4 BIODIVERSITY MANAGEMENT AND WILDLIFE CONSERVATION PLAN

The proposed project does not fall in any Protected Area like Wildlife Sanctuary/National Parks, etc. However, considering the proximity of Gandhi Sagar Wildlife Sanctuary and with reference to additional conditions of Term of Reference (ToR) issued by Ministry of Environment, Forest, and Climate Change (MoEF&CC) via letter No. F. No. J-12011/22/2019-IA-I dated 28th February 2020, a Wildlife Conservation plan has been prepared for the Schedule I species reported from the study area with financial provision of 166.90 lakh. The Wildlife conservation plan has been approved by PCCF (Wildlife) and Chief Wildlife Warden, MP vide letter no. क्रमांक/ व.प्रा./ मा.चि./ व.स.यो/GEN-270/ 4246 dated 21/06/2021.

A detailed plan with approval letter has been attached as **Annexure VII**.

10.4.1 Budget

The total budget for the Biodiversity Management & Wildlife Conservation Plan would be **Rs. 166.90 lakh**. The breakup of the budget is given in **Table 10.5** below.

Table 10.5: Budget for Biodiversity Management & Wildlife Conservation Plan*

S. No.	Particulars	Total Amount (Rs. in lakh)
1	Afforestation and Enrichment along the periphery of the upper reservoir in the adjoining forest area (@88000/ha for 55 ha)	48.40
2	Farm forestry for fuelwood and timber (@70000/ha for 5 ha)	3.50
3	Sowing of Grass (lump sum)	8.00
5	Awareness Program @ Rs. 1 lakh/year for 4 years	4.00
6	Enforcement of Forest Protection by Project	10.00
7	Conservation and Management of Schedule-I Species	83.00
8	Monitoring and Evaluation	10.00
	Total	166.90

10.5 MUCK MANAGEMENT PLAN

The proposed scheme involves the construction of rockfill embankments of an average height of around 30m with a maximum of 35m height in the upper reservoir for the creation of an Off-Stream pumped storage component. The water is proposed to be diverted through six numbers of independent penstocks and one number of independent penstocks bifurcated into two. A surface Powerhouse is proposed equipped with five turbines and a pump/turbine having generating/pumping capacity of 240MW/251MW and two units of 120MW/135MW, respectively.

10.5.1 Quantity of Material to be Excavated

The construction activities of the project would generate muck from the excavation of various project structures. The total quantity of muck likely to be generated from excavation including the construction of roads is about 4.56 Mcum. The component-wise quantity of muck to be generated is given in **Table 10.6** and the quantity of muck to be disposed of is given in **Table 10.7**. 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 of is

worked out as 3.19 Mcum. The entire excavated material is proposed to be dumped at one location identified specifically for this purpose.

Table 10.6: Muck to be generated from various components of the project

S. No.	Project Component	Total Quantity of Muck to be generated (Cum)
1	Upper Reservoir	608827.78
2	Concrete Power Block	110293.07
3	Power Intake	1284655.37
4	Pressure Shaft	415711.00
5	Powerhouse	1401434.85
6	TRT	41086.00
7	Approach Channel – Lower Reservoir	587955.89
8	Adit	76265.00
9	Roads	33296.00
	Total	4559525.86

Table 10.7: Quantity of muck to be disposed

S. No.	Description	Quantity in MCum
1	The total quantum of muck generated from the project (refer to Table 10.6)	4.56
2	Total quantity to be utilized in PSP (Considering 50% of the generated muck to be useful)	2.28
3	Quantity of muck to be disposed (1-2)	2.28
4	The total quantity of muck to be disposed of after considering the Swelling factor for loose muck (@40% of 3)	3.19

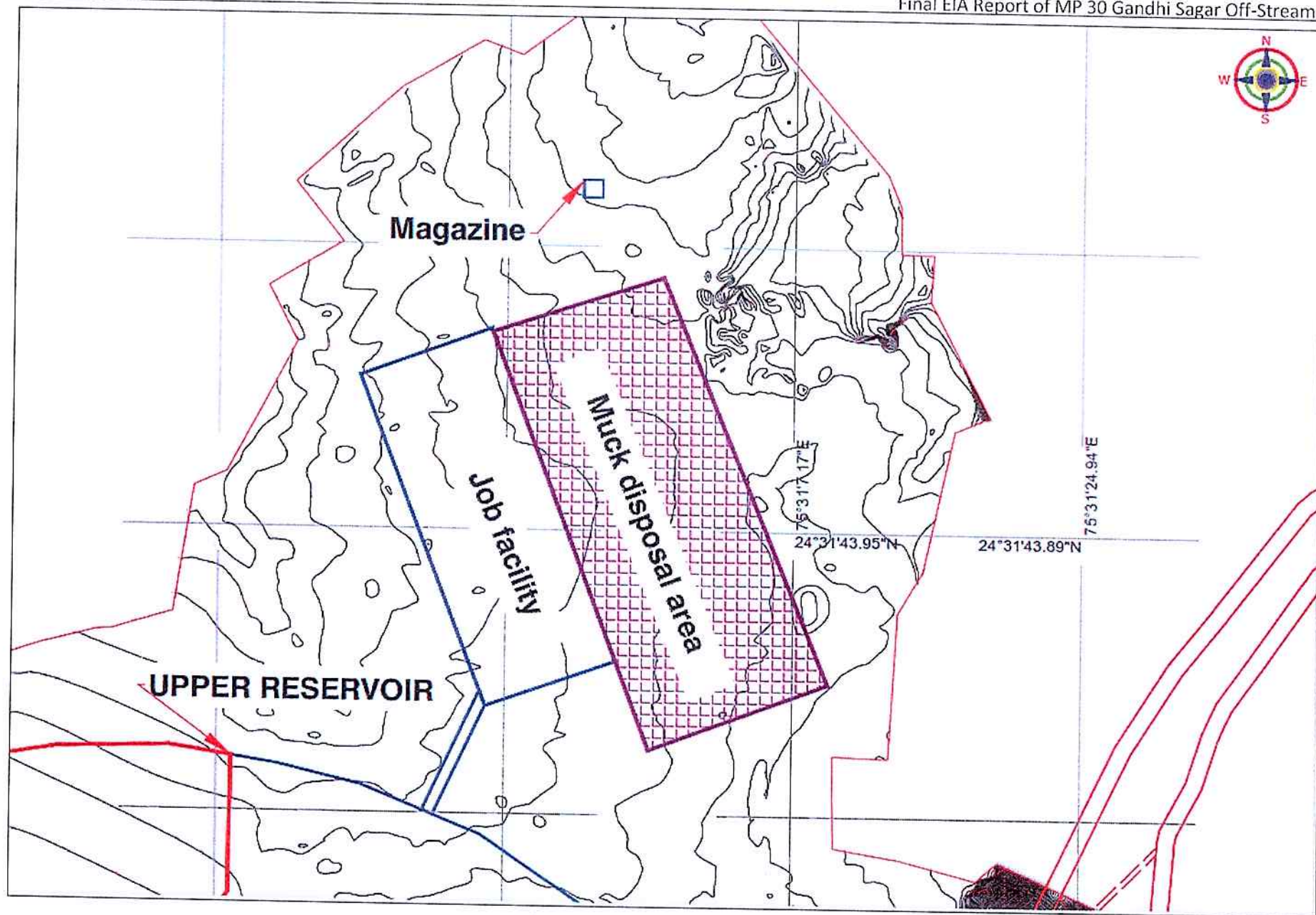


Figure 10.1: Location of Dumping Site

10.5.2 Muck Disposal Site

For the disposal of 3.19 MCum of muck an area of 25 ha having a capacity of 3.76 MCum has been identified. The disposal site was identified taking into consideration the availability of suitable area, minimum distance from generation sites. Chainage-wise area available and capacity of muck dumping site is given in Table 10.8.

10.5.2.1 Criteria for Selection of Dumping Site

In MP 30 Gandhi Sagar Off Stream Pumped storage Project, a scientific approach and methodology were followed for the 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 the least impact on human settlements, and
- iii) the identified muck site is close to the area of generation to avoid hazards related to the transport of muck for long distances and minimizing traffic problems.

Table 10.8. Details of the muck disposal site

S. No.	Chainage (M)	Area (Sqm)	Capacity (Cum)
1	0	4864.13	0.00
2	200	4830.23	969436.00
3	400	4810.74	964097.00
4	600	4755.73	956647.00
5	784	4724.32	872164.60
	TOTAL	23985.15	3762344.60

10.5.2.2 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 are given in Figures 10.2 and Figure 10.3.

The main objectives of the process of muck dumping and rehabilitation of the muck disposal site are:

- to control soil erosion;
- to create greenery in the muck disposal area;
- to develop the site into a recreational park;
- to ensure maximum utilization of muck for the construction purpose;
- to develop the muck disposal site/ dumping yard to blend with the surrounding landscape.

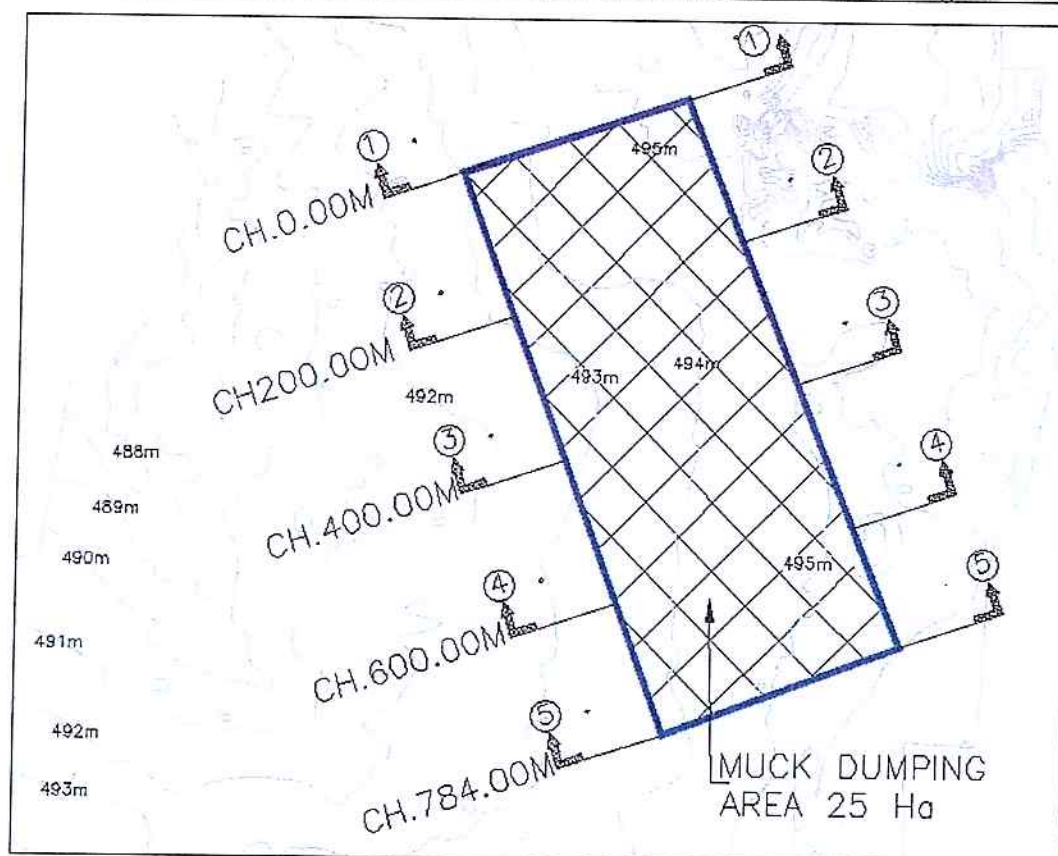


Figure 10.2: Plan of Muck Dumping Site

The generated muck will be carried in dumper trucks tightly covered 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 transportation. All unpaved routes will be periodically wetted with the help of sprinklers before the movement of dump trucks. Dumping would be avoided during the high-speed wind, so that suspended particulate matter (PM₁₀) levels could be maintained. After the dumping, the surface of dumps will be sprayed with water with the help of sprinklers and then compacted.

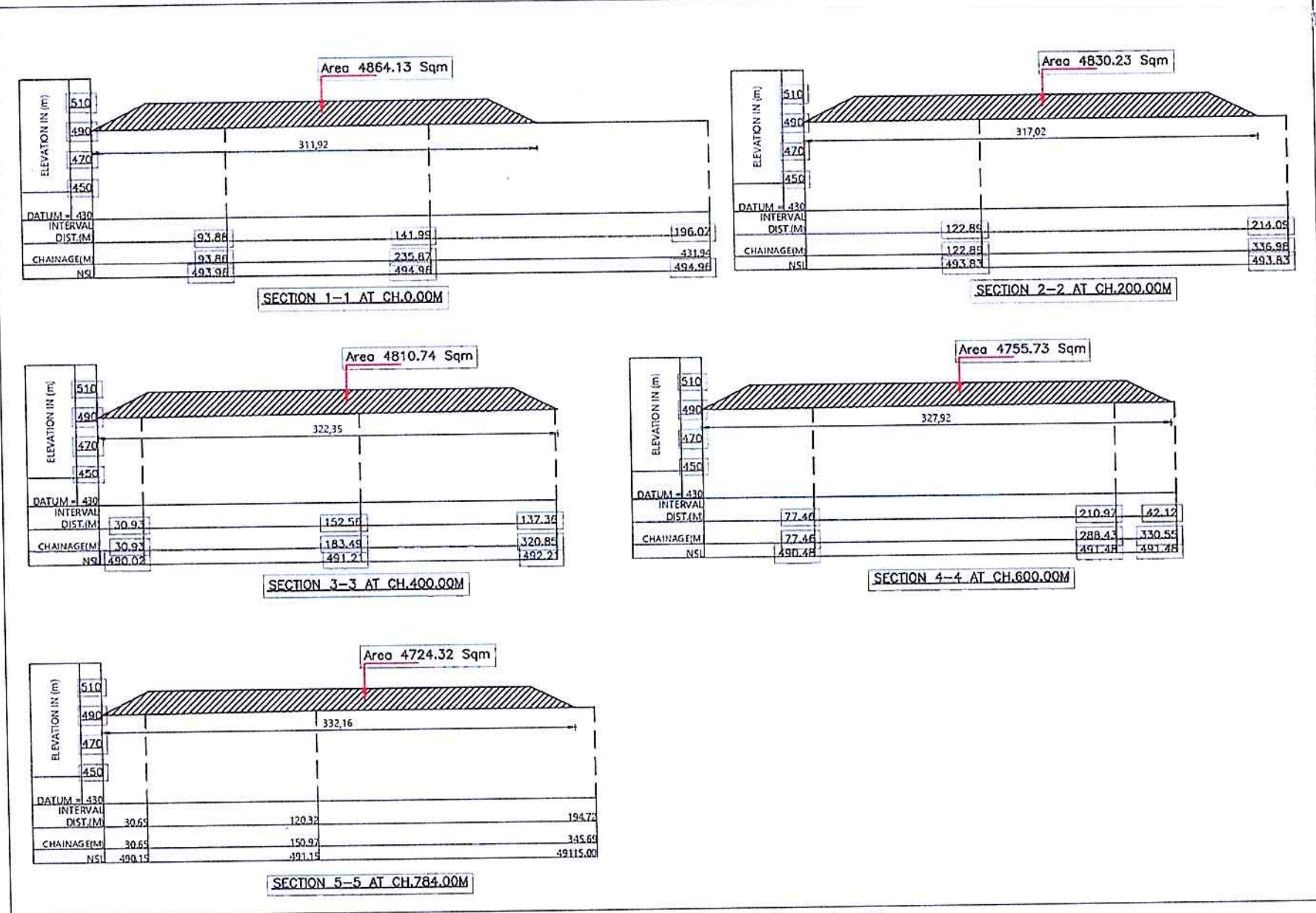


Figure 10.3: Cross Section of Muck Dumping Site

The capacity/volume of the muck dumping sites is more than the volume of the muck to be disposed i.e., for 3.19 Mcum of muck to be disposed of and area having a capacity of 3.76 Mcum has been identified (see Table 10.8). The spare capacity has been earmarked for the temporary storage of usable muck, traffic movement of dumpers and lifters. The spoil from various construction sites would be disposed of at the 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 will be prevented by making concrete retaining walls to retain the piled muck. The top surface would be leveled 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.

Suitable retaining walls shall be constructed before dumping of muck, and terraces would be developed to support the muck on a 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 biotechnological measures (see Figures 10.4).

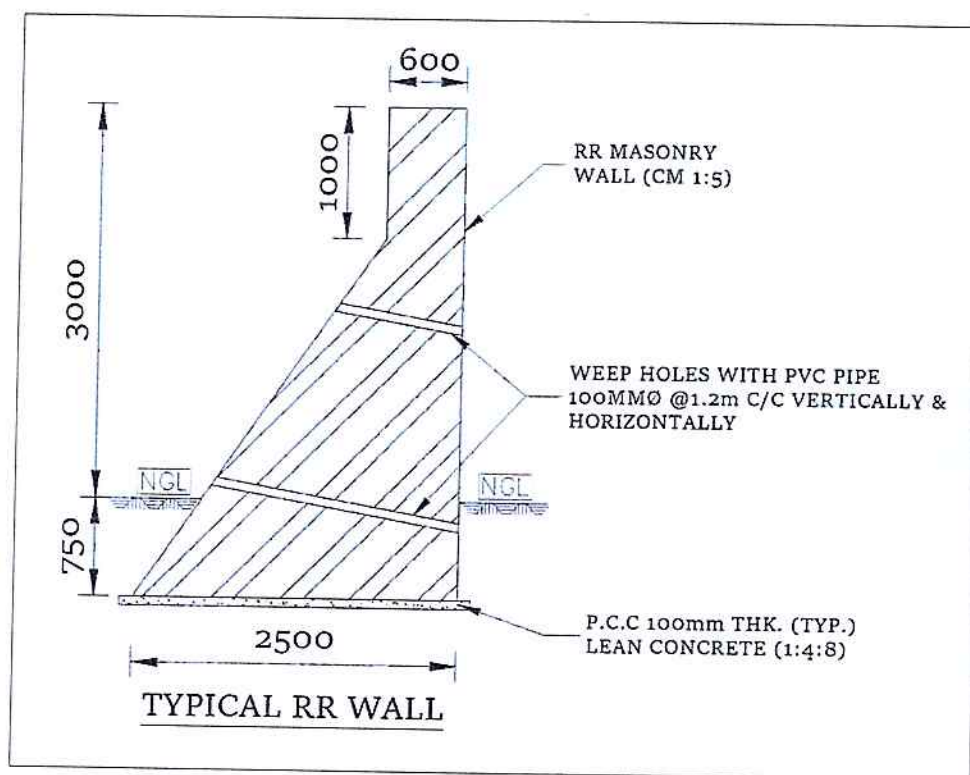


Figure 10.4: Cross-section of Retaining Wall

10.5.3 Rehabilitation of Muck Disposal Site

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

10.5.3.1 Engineering Measures

For stacking of dumped material, the RR masonry retaining wall is proposed to be built before the dumping of any material on the site. The minimum length of the dumping site is 2198 m and the height of the retaining wall is proposed to be 3m. The retaining wall shall have an RCC base of 100m thick and a width of about 2.5 m. The masonry wall is proposed with weeping pipes with PVC pipes of 100mm for drainage. The leveling & Sloping would be done after dumping the material; after every cycle and simultaneously improving the drainage of the disposal site.

All the approach roads to various project structures will be constructed with minimal environmental damage. The methodology consists of developing the formation width is half cutting and half-filling, so that the materials obtained from cutting are utilized in filling. The excavation on the hillside 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 a problem of retaining the slope.

i) Retaining Wall

The total area for the dumping of muck is 25.0 ha which can accommodate more than 3.78 Mcum though the estimated muck to be disposed of is 3.19 Mcum. The height of the retaining wall will be approximately 3m. A typical sketch of the retaining wall is given in Figure 10.4.

ii) Compaction

Compaction is an engineering measure, which would reduce the bulk density of the muck thereby optimizing the use of the muck disposal area and would make it suitable for the plantation and other biological measures. The top surface would be leveled and graded to make the alternative use. The muck will be spread in layers of 500-700mm thick layers. The top surface would be leveled 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. 125.00 lakh.

iii) Fencing

Fencing is a bio-engineering measure. After rehabilitation of muck, the dumping area needs 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 a 3 m distance are proposed around the dumping piles. Project authorities will establish temporary wind barriers around 3 sides of dumps close to the settlement area.

The estimated cost of engineering measures is given in Table 10.9.

Table 10.9: Estimated Cost of Engineering Measures

S. No.	Particular	Volume	Rate in Rs. /cum	Cost in Rs. Lakh
1	Earthwork for foundation (Cum)	2720	200	5.44
2	RCC 100 mm Thick M10 Grade Concrete (Cum)	900	4200	37.80

3	R.R. Masonry	12000	3000	360.00
4	Weep Holes with PVC Pipe 100 mmØ @1.5m C/C Vertically & Horizontally (Rmt)	11000	150	16.50
5	Compacting and land leveling, etc.	LS	LS	125.00
Total				544.74

10.5.3.2 Biological Measures

The top surface area of the dumping is about 25.0 ha. This area will be treated for 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 the dumping area the following activities would be considered. While some part of the site can be used as parking space for vehicles, a part of the site can also be developed later as a 'recreational park'. It will involve the creation of space for community members to congregate safely and a safe place for kids to play and parents to bring their families so that they can enjoy nature in the park built on reclaimed land. As air pollution from vehicular traffic during project construction will increase the planting of trees in recreation parks can help combat this problem. The recommended plant species for this have been given later under plantations. An initial allocation of Rs.10.00 lakh has been made in the budget.

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. To make it suitable for the plantation will be provided biotreatment.

ii) Plantation

The selected species will be planted after their nurseries have been developed. The dumping areas are very small; therefore, a separate nursery would not be required. Saplings for planation should be procured from the forest department nursery. Nearly 1-2 years old saplings would be used for the plantation. Grasses and herbaceous species would be used in the interspacing 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 the 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 the table below.

S. No.	Family	Scientific Name	Habitat
1	Anacardiaceae	<i>Mangifera indica</i>	Tree
2	Anonaceae	<i>Polyalthia longifolia</i>	Tree
3	Bignoniaceae	<i>Jacaranda mimosifolia</i>	Tree

S. No.	Family	Scientific Name	Habitat
4	Combretaceae	<i>Terminalia tomentosa</i>	Tree
5	Combretaceae	<i>Terminalia bellirica</i>	Tree
6	Fabaceae	<i>Albizia lebbeck</i>	Tree
7	Fabaceae	<i>Cassia fistula</i>	Tree
8	Fabaceae	<i>Dalbergia sissoo</i>	Tree
9	Fabaceae	<i>Dalbergia paniculata</i>	Tree
10	Fabaceae	<i>Acacia nilotica</i>	Tree
11	Fabaceae	<i>Acacia catechu</i>	Tree
12	Lamiaceae	<i>Tectona grandis</i>	Tree
13	Magnoliaceae	<i>Magnolia champaca</i>	Tree
14	Meliaceae	<i>Azadirachta indica</i>	Tree
15	Meliaceae	<i>Toona ciliata</i>	Tree
16	Myrtaceae	<i>Syzygium cumini</i>	Tree
17	Rubiaceae	<i>Neolamarckia cadamba</i>	Tree
18	Rutaceae	<i>Aegle marmelos</i>	Tree
19	Sapotaceae	<i>Madhuca longifolia</i>	Tree
20	Acanthaceae	<i>Justicia adhatoda</i>	Shrub
21	Apocynaceae	<i>Nerium indicum</i>	Shrub
22	Euphorbiaceae	<i>Jatropha curcas</i>	Shrub
23	Poaceae	<i>Dendrocalamus strictus</i>	Shrub
24	Sapindaceae	<i>Dodonaea viscosa</i>	Shrub
25	Verbenaceae	<i>Vitex negundo</i>	Shrub

The estimated cost of these measures would be Rs. 96.25 lakh. This cost includes the cost of turfing of slopes, preparation of the 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 10.10).

Table 10.10: Total financial outlay for the biological measures at dumping sites

S. No.	Particulars	Quantity	Rate (in Rs.)	Amount (Rs. in lakh)
1	Site preparation (Levelling and spreading of fertile soil)	25 ha	10,000	2.50
2	Pitting (size: 0.45 m x 0.45 m x 0.45 m) @ Rs. 1200 per 400 pits	30,000 nos.	25.0	7.50
3	Manure and soil filling in pits including transportation	30,000 nos.	20.0	6.00
4	Cost of plant material	30,000 nos.	15.0	4.50
5	Transportation of Plant material from the nursery	-	Lumpsum	5.00
6	Cost of RCC fence post and B/Wire	25 ha	25000.0	6.25
7	Planting of entire Plants raised in P/bag	30000 nos.	15.00	4.50
8	Maintenance for 5 years			25.00
9	Misc. (watering, transport, etc.)	-	Lumpsum	25.00
10	Creation of part of dumping site into Recreation Park	-	Lumpsum	10.00
	Total			96.25

10.5.4 Financial Requirement

The estimated cost of the relocation and rehabilitation of excavated material is given in Table 10.11. The total cost of these measures will be Rs. 640.99 lakh.

Table 10.11: Financial requirements for implementation of Muck Disposal Plan

S. No.	Item	Amount (Rs.in lakh)
1.	Engineering measures	544.74
2.	Biological measures	96.25
	Total	640.99

10.6 LANDSCAPING AND RESTORATION OF CONSTRUCTION SITES

During the construction phase of the project, a number of temporary construction sites and working areas will come up. For the restoration of the proposed project affected areas to their original landscape as much as possible and retain their aesthetic values, various engineering and biological measures have been suggested.

Setting up the infrastructure for construction including colonies for labor will lead to the clearing of vegetation. The forest land diverted for the construction of the project component will be cleared of vegetation. Part of this land on completion of project construction can be restored. Following measures would be adopted for the rehabilitation and landscaping of colony areas and construction sites.

- Proper roads and lanes would be provided inside the colony area. The open area will be covered with vegetation. Preferably native ornamental plants and trees will be planted in rows along the roads and lanes.
- Proper channels would be provided inside the colony to drain out the rain/ domestic water. Retaining walls will be built to avoid landslides and slips.
- Parks and playgrounds for staff and children would be developed in the colony in the project area.

The estimated cost of restoration of construction is 80.00 lakh (see Table 10.12).

Table 10.12: Cost estimates for engineering and biological measures for construction areas

S. No.	Item of work	Quantity	Rate/ unit (in Rs.)	Amount Rs. (in lakh)
1	Leveling and development of the area around Powerhouse	4 ha	200000/ha	8.00
2	Covering the slopes with geo-textiles like coir, etc.	4000 sqm	100/sqm	4.00
3	Grass seeding	Lump-sum		3.00
4	Plantation (Ornamental and avenue plantation)	Lump sum		35.00
5	Fencing	Lump sum		10.00
6	Maintenance	4 Years	500000/Year	20.00
Total				80.00

10.7 SANITATION AND SOLID WASTE MANAGEMENT

The solid waste generated from temporary and permanent colonies in construction as well as operation phase requires special management to dispose of as warranted under the Solid Wastes Management Rules (SWM) 2016. For that, an efficient waste management system will be required to put in place to keep the environment of the region clean and healthy. These colonies and temporary settlements will also require an adequate water supply for drinking and cleaning.

(जनजातीय कार्य एवं अनुसूचित जाति कल्याण विभाग)
कं./आदिम-वन अधिनियम/2020-21/1294 नीमच, दिनांक 09.07.2021
प्रति,

प्रबंधक,
मैसर्स ग्रीनको एनर्जिस प्रायवेट लिमिटेड,
हैदराबाद (तेलंगाना)

विषय:-MP-30गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के विकास के लिये नीमच वन प्रभाग अंतर्गत 301.96 हेक्टेयर वन भूमि का एफ.आर.ए. प्रमाण पत्र भेजने बाबत।

संदर्भ:- (1) आपका पत्र कं./GEPL/MP30GSPSP/FRA/202024 दिनांक 24.12.2020
(2) आपका पत्र कं./GEPL/MP30GSPSP/FRA/201230 दिनांक 30.12.2020

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आपके उपरोक्त विषयांकित संदर्भित पत्रों द्वारा MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के विकास के लिये नीमच वन प्रभाग अंतर्गत 301.96 हेक्टेयर वन भूमि का एफ.आर.ए. प्रमाण पत्र चाहा गया था।

आपके द्वारा वांछित प्रमाण पत्र कलेक्टर महोदय, जिला नीमच द्वारा हस्ताक्षरित फार्म-II संलग्न कर आपकी ओर प्रेषित है।

संलग्न:-उपरोक्तानुसार।



जिला संयोजक
जनजातीय कार्य एवं अनु.जा.वि.
जिला-नीमच

पृ० कं./आदिम-वन अधिनियम/2020-21/1295
प्रतिलिपि:-

नीमच, दिनांक 09.07.2021

1. अपर प्रधान मुख्य वन संरक्षक, भू-प्रबंध, भोपाल म0प्र0 की ओर सूचनार्थ।
2. वन मण्डलाधिकारी, जिला नीमच की ओर सूचनार्थ।



जिला संयोजक
जनजातीय कार्य एवं अनु.जा.वि.
जिला-नीमच

FORM II

(For Projects other than Linear Projects)
Government of Madhya Pradesh
Office of the District Collector, Neemuch

NO.T-FRA/2021/-1286

Neemuch, Dated: 03.07.2021

TO WHOMSOEVER IT MAY CONCERN

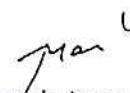
In compliance of the Ministry of Environment and Forest (MoEF), Government of India's letter No 11-9/98-FC (pt) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 ('FRA', for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that **301.96 Ha (Compartment no 438, 439, 440, 444, 446 and 447)** of reserved forest land proposed to be diverted in favor of M/s Greenko Energies Private Limited (GEPL) for construction of (1440 MW) MP 30 Gandhi Sagar off Stream Pumped Storage Project in Neemuch District falls within jurisdiction of **Gram Panchayat (s) of Khemla Block, Amarpura, Barwadiya and Majiriya** in Tehsil Rampura, Sub-Division Manasa, District Neemuch of Madhya Pradesh.

It is further certified that:-

- (a) The complete process for identification and settlement of forest rights under the Scheduled Tribes and Other Traditional Forest Dwellers Act, 2006 (FRA) has been carried out for the entire **301.96 Ha (Compartment no 438, 439, 440, 444, 446 and 447)** of Forest area proposed for diversion. A copy of records of all consultation and meeting of the Gram Sabhas, Sub-Divisional Level Committee and District Level Committee are enclosed as **Annexure-1 to 6**.
- (b) 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 are eligible under the FRA.
- (c) 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. A copy of certificate issued by the **Khemla Block, Amarpura, Barwadiya and Majiriya Gram Panchayat (s)** is enclosed as **Annexure 1 to Annexure 4**.
- (d) The discussion and decisions on such proposal had taken place only when there was a quorum of minimum 50% of the members of the Gram Sabha Panchayats present.

- (e) 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.
- (f) The rights of the Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3 (1) (e) of the FRA.

Encl: As above


(Mayank Agarwal, IAS)
District Collector,
Neemuch, (M.P.)

जिला स्तरीय वन अधिकार समिति, जिला-नीमच

कार्यवाही विवरण

प्रबंधक, मैसर्स ग्रीनको एनर्जिज प्राइवेट लिमिटेड, हैदराबाद (तेलंगाना) के पत्र क्रमांक/ GEPL/MP30GSPSP/FRA/202024 दिनांक 24.12.2020 द्वारा नीमच जिले के मनासा उपखण्ड की रामपुरा तहसील (वन, रेन्ज) अंतर्गत प्रस्तावित MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के विकास के लिये 301.96 हेक्टेयर वन भूमि हेतु वन (संरक्षण) अधिनियम 1980 के अंतर्गत वन भूमियों का गैर वानिकी प्रयोजन हेतु व्यपवर्तन एवं अनुसूचित जनजाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 के अंतर्गत अनापत्ति प्रमाण जारी किये जाने हेतु जिला स्तरीय वन अधिकार समिति की अनुशंसा हेतु प्रस्ताव समिति के समक्ष प्रस्तुत किया गया है।

MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के लिये वन संरक्षण अधिनियम 1980 के तहत मनासा उपखण्ड की ग्राम पंचायत खिमला ब्लॉक, ग्राम पंचायत अमरपुरा, ग्राम पंचायत बारवाड़िया एवं ग्राम पंचायत मजीरिया के कक्ष क्रमांक 438, 439, 440, 444, 445 एवं 446 की 301.96 हेक्टेयर वन भूमि का गैर वानिकी प्रयोजन हेतु व्यपवर्तन किया जाना है।

अनुसूचित जनजाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 अंतर्गत जनपद पंचायत मनासा की ग्राम पंचायत खिमला ब्लॉक, ग्राम पंचायत अमरपुरा, ग्राम पंचायत बारवाड़िया एवं ग्राम पंचायत मजीरिया की ग्राम सभा में नियमानुसार 50 प्रतिशत सदस्यों के अनुमोदन एवं अनापत्ति प्रमाण पत्र सहित MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के क्रियान्वयन से ग्राम सभा को किसी प्रकार की आपत्ति नहीं होने का लेख किया है। ग्राम सभा से प्राप्त अनापत्ति प्रमाण पत्र एवं अनुशंसा तथा अनुविभागीय अधिकारी (राजस्व), पदेन अध्यक्ष, उपखण्ड स्तरीय वन अधिकार समिति, मनासा के पत्र क्रमांक/2337/स्टेनो/विविध/2021 दिनांक 21.06.2021 के संलग्न उपखण्ड स्तरीय वन अधिकार समिति मनासा के अनुशंसा प्रमाण-पत्र के आधार पर MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के लिये 301.96 हेक्टेयर वन भूमि गैर वानिकी प्रयोजन हेतु व्यपवर्तन किये जाने के लिये जिला स्तरीय वन अधिकार समिति द्वारा अनुशंसा की जाती है।

(राकेश कुमार राठौर)
जिला संयोजक
आदिम जाति कल्याण विभाग,
जिला नीमच
Distt. Organiser
S.C. & S.T. Welfare
NEEMUCH (M.P.)

(विजय सिंह)
वन मण्डलाधिकारी
सामान्य वन मण्डल,
जिला नीमच
वन मण्डलाधिकारी
सामान्य वन मण्डल, नीमच

(मयंक अग्रवाल)
जिला लेक्टर
जिला-नीमच

जिला स्तरीय वन अधिकार समिति, जिला-नीमच

प्रमाण-पत्र

प्रमाणित किया जाता है कि प्रबंधक, मैसर्स ग्रीनको एनर्जिस प्राइवेट लिमिटेड, हैदराबाद के प्रस्तावित MP-30 गांधीसागर ऑफ स्ट्रीम पंपिंग स्टोरेज प्रोजेक्ट (1440 मेगावाट) के विकास के लिये नीमच वन प्रभाग के अंतर्गत मनासा उपखण्ड के रामपुरा तहसील (वन रेन्ज) के कक्षा क्रमांक 438, 439, 440, 444, 445 एवं 446 की 301.96 हेक्टेयर वन भूमि का गैर वानिकी प्रयोजन हेतु व्यपवर्तन प्रकरण में प्रिमिटिव ट्रायबल ग्रुप (पीटीजी) एवं प्री एग्रीकल्चर कम्युनिटीज (पीएसी) के मूलभूत अधिकार प्रभावित नहीं होंगे। प्रस्तावित भूमि में अनुसूचित जनजाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 के अंतर्गत उक्त क्षेत्र में वन अधिकार पत्र धारक नहीं है और न ही कोई दावा/आपत्ति शेष है।

यह प्रमाण पत्र प्रबंधक, मैसर्स. ग्रीनको एनर्जिस प्राइवेट लिमिटेड, हैदराबाद की मांग पर उपखण्ड स्तरीय वन अधिकार समिति, मनासा की अनुशंसा के आधार पर दिया जा रहा है।

(राकेश कुमार राठौर)

जिला संयोजक
आदिम जाति कल्याण विभाग,
जिला-नीमच

Distt. Organiser
S.C. & S.T. Welfare
NEEMUCH (M.P.)

(विजय सिंह)

वन मण्डलाधिकारी
सामान्य वन मण्डल
नीमच

सामान्य वन मण्डल, नीमच

(मयंक अग्रवाल)

जिला कलेक्टर
जिला-नीमच

मध्यप्रदेश शासन
वन विभाग
अधिसूचना

भोपाल, दिनांक ०४. फरवरी, 2023

क्रमांक / 318 / आर-1083750 / 2023 / 10-3 :: भारतीय वन अधिनियम, 1927 (क्रमांक 16, सन 1927), की धारा 29 द्वारा प्रदत्त शक्तियों को प्रयोग में लाते हुए, राज्य शासन, एतद द्वारा उक्त अधिनियम के अध्याय 4 के प्रावधान/उपबन्धों को नीचे की अनुसूची में उल्लेखित की गई भूमि पर लागू होने की घोषणा, इस शर्त पर करता है कि इस भूमि पर व्यक्तियों या समुदायों के वर्तमान अधिकार, जहाँ तक की वे राज्य शासन द्वारा समय-समय पर संशोधित/रूपभेदित किये जायें, के अतिरिक्त, किसी भी रीति में न्यूनीकृत या प्रभावित नहीं किये जायेंगे।

- वनखण्ड ऊमरी वीरान पेच-1 N 25°13'28.5" से N 25°14'2.7" उत्तर अक्षांश एवं E 77°56'48.5" से E 77°57'22.5" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड नेगुवां पेच-2 N 25°14'2.8" से N 25°14'21.9" उत्तर अक्षांश एवं E 77°56'58.3" से E 77°57'28.5" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड नेगुवां पेच-3 N 25°14'27.3" से N 25°15'1.5" उत्तर अक्षांश एवं E 77°56'44.7" से E 77°57'35.6" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड नेगुवां पेच-4 N 25°14'50.3" से N 25°15'11.8" उत्तर अक्षांश एवं E 77°57'0" से E 77°57'34.8" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-5 N 25°15'1.7" से N 25°15'17.7" उत्तर अक्षांश एवं E 77°56'31.4" से E 77°56'50.2" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-6 N 25°15'9.4" से N 25°15'21.6" उत्तर अक्षांश एवं E 77°56'32.5" से E 77°56'48.7" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-7 N 25°15'24.9" से N 25°15'48.3" उत्तर अक्षांश एवं E 77°56'24" से E 77°56'47.6" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-8 N 25°14'49.3" से N 25°14'59.7" उत्तर अक्षांश एवं E 77°56'27.8" से E 77°56'42.5" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-9 N 25°14'39.1" से N 25°15'20.6" उत्तर अक्षांश एवं E 77°55'41.3" से E 77°56'30.2" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-10 N 25°15'16.2" से N 25°15'30.3" उत्तर अक्षांश एवं E 77°55'47.9" से E 77°56'12.2" पूर्वी देशांतर के बीच स्थित है।
- वनखण्ड बपावली पेच-11 N 25°15'29.6" से N 25°15'42.7" से उत्तर अक्षांश एवं E 77°55'50.5" से E 77°56'12.1" पूर्वी देशांतर के बीच स्थित है।

अनुसूची

जिला:- शिवपुरी
वनमण्डल:- शिवपुरी (सा.)

तहसील:- पिछोर
वन परिक्षेत्र:- करैरा

वनखण्ड की भूमि का विवरण						
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें
1	ऊमरी वीरान पेच -1	ऊमरी वीरान	म.प्र. शासन वन विभाग	4	0.820	उत्तर - सड़क की सीमा रेखा खसरा 11 एवं प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 13 से 18 तक।
				7	1.000	
				8	0.920	
				9	1.280	
				10/1	1.600	पूर्व- खसरा संख्या 25, 75 एवं 82 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 01 से 13 तक एवं 65 से 88 तक।
				12	1.100	
				13	0.340	
				14	0.220	
				15	0.210	
				16	0.260	
				17	0.500	
				26	0.610	दक्षिण-संरक्षित वनखण्ड खोड के कक्ष क्रमांक 1079 की सीमा रेखा एवं खसरा संख्या 151, 152 एवं 155 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 47 से 65 तक।
				27	0.360	
				28	0.440	
				29	0.810	
				32	0.970	
				33	0.670	
				34	1.170	
				35	0.400	
				36	0.430	
				37/1	1.213	पश्चिम-खसरा संख्या 121, 131, 63 एवं 3 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 18 से 47 तक।
				38/1	1.147	
				64/1	0.283	
				65	0.700	
				66	0.970	
				67	0.920	
				68	0.220	
				69	0.760	
				70	0.700	
				77	0.470	
				78/1	1.539	
				81	0.740	
				83	0.840	
				84/1	0.167	
				85/1	0.140	
				86/1	0.247	
				87	0.070	
				88	0.120	
				89	0.140	
				90	0.120	

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
				91	0.150	
				92/1	0.130	
				93/1	0.200	
				94/1	0.060	
				95	0.150	
				96	0.660	
				97	0.410	
				98	0.830	
				99	1.430	
				100	0.350	
				101	0.330	
				102	0.730	
				105	0.880	
				106	0.280	
				107	0.210	
				108	0.790	
				109	0.690	
				110	0.390	
				111	0.570	
				112	0.320	
				113	0.330	
				122	1.850	
				124	0.860	
				125	0.410	
				126	0.650	
				127	0.780	
				128	0.170	
				129	0.130	
				130	0.370	
				132	0.230	
				133	0.150	
				134	0.100	
				135	0.380	
				136	0.270	
				137	0.450	
				138	0.350	
				139	0.170	
				140	0.200	
				141	0.170	
				143	0.300	
				146	0.140	
				147	0.190	
				150	0.050	
				157	0.190	
				158	0.190	

वनखण्ड की भूमि का विवरण					
क्र० सं.	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)
				161	0.190
				162	0.580
				163	0.350
				164	0.330
				165	0.730
				166	0.620
				167	0.550
				168	0.400
				169	0.480
				170	0.090
				171	0.190
				योग	48.766
				96	
				322	2.000
2	नेगुवां पेच -2	नेगुवां	म.प्र. शासन वन विभाग	326/1	0.223
				327	1.960
				329/1	0.073
				339	0.710
				340/1	0.153
				341/1	0.689
				344/1	0.935
				345/1	0.617
				346	0.710
				347	0.650
				348	0.450
				349	0.720
				350	0.330
				353/1	0.302
				355/1	0.471
				358/1	0.382
				359/1	0.439
				360/1	0.222
				361/1	0.414
				362/1	0.212
				363/1	0.212
				364/1	0.172
				367/1	0.326
				368/1	0.366
				369	0.660
				371/1	0.546
				372	0.370
				374	0.510
				375	0.470
				376	0.230
				377	0.250

उत्तर - खसरा संख्या 321, 323 एवं 352 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 3 से 28 तक।

पूर्व - संरक्षित वनखण्ड खोड के कक्ष क्रमांक 1078 की सीमा रेखा एवं प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 01 से 3 एवं 89 से 97 तक।

दक्षिण - खसरा संख्या 338, 345/2, 365 एवं 366 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 42 से 89 तक।

पश्चिम - खसरा संख्या 325 एवं 330 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 28 से 42 तक।

वनखण्ड की भूमि का विवरण								
क्र० सं.	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें		
3	नेगुवां पेच -3	नेगुवां	म.प्र. शासन वन विभाग		378	0.360		
					379	0.250		
					380	0.420		
					381	0.440		
					382	0.430		
					384/1	0.455		
					385	0.220		
					योग	39	19.349	<p>उत्तर-सड़क सीमा रेखा खसरा संख्या 246 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 3 से 46 तक।</p> <p>पूर्व -संरक्षित वनखण्ड खोड के कक्ष क्रमांक 1078 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 1 से 3 एवं 95 से 99 तक।</p> <p>दक्षिण-सड़कसीमा रेखा खसरा संख्या 300, 172 एवं 190 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 74 से 95 तक। कृत्रिम वनसीमा रेखा।</p> <p>पश्चिम-खसरा संख्या 69, 177, 683, 684 एवं 694 की सीमा रेखा एवं प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 46 से 74 तक।</p>
					171	1.070		
					173	2.040		
					174	0.580		
					175/1	0.260		
					175/2	0.800		
					175/3	0.260		
					180/1	0.160		
					181	1.210		
					182/1	0.093		
					184	0.500		
					185	1.250		
					186/1	0.428		
					187/1	0.317		
					188/1	0.510		
					189/1	0.283		
					191	0.250		
					192	0.490		
					193	0.700		
					194/1	0.505		
					194/2	0.505		
					195	0.890		
					197	0.670		
					198	0.880		
					199	1.890		
					200	0.440		
					201	0.880		
					202	0.520		
					203	2.010		
					204	0.710		
					205	1.240		
					206	0.710		
					207	0.540		
					208	0.670		
					209	0.750		
					210	0.430		
					211	0.570		

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
				212	1.080	
				213	0.590	
				214/1	0.684	
				215/1	0.500	
				216	0.280	
				247/1	0.500	
				247/2	0.990	
				248	0.920	
				249	0.800	
				250	0.790	
				251	0.440	
				252	0.430	
				253	0.570	
				254	0.260	
				255	0.560	
				256	1.230	
				257	0.830	
				258	1.030	
				259	0.760	
				260 /1	0.866	
				261	0.300	
				262	0.450	
				263	0.950	
				264	1.910	
				265	0.290	
				266	0.840	
				267	0.940	
				268	0.490	
				269	0.620	
				270	1.570	
				271	1.230	
				272	0.660	
				273	0.210	
				274	1.010	
				275	0.830	
				276	0.340	
				277/1	0.160	
				278	0.650	
				280	1.760	
				281	0.150	
				282	0.290	
				283	0.960	
				284	0.750	
				285/1	0.560	
				286	0.800	

वनखण्ड की भूमि का विवरण						
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें
4	नेगुवां पेच -04	नेगुवां	म.प्र. शासन वन विभाग	287	0.510	उत्तर - खसरा संख्या 703 एवं 720 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 5 से 20 तक। पूर्व - खसरा संख्या 730, 731 एवं 238 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 1 से 5 एवं 36 से 59 तक। दक्षिण-सड़क की सीमा रेखा खसरा संख्या 246 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 24 से 36 तक। पश्चिम-खसरा संख्या 698 एवं 702 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 20 से 24 तक।
				288	0.200	
				289	1.460	
				290	0.920	
				291	1.340	
				292	0.580	
				293	2.220	
				294	1.120	
				295/1	0.823	
				296/1	0.830	
				298	0.580	
				687	2.860	
				688	0.700	
				689/1	0.249	
				690	0.800	
				692	0.400	
				695	0.590	
				696	0.690	
				697	0.690	
		योग	100	76.403		
		218/1	0.240			
		219	0.760			
		220	0.600			
		221	0.250			
		222	0.430			
		223/1	0.765			
		224/1	0.315			
		225	0.570			
		226	0.900			
		228/1	0.138			
		229/1	0.103			
		230/1	0.140			
231	0.790					
232	0.710					
233	0.260					
234	0.550					
235	1.460					
699	0.820					
700	0.650					
701	2.670					
721	0.900					
722	1.080					

वनखण्ड की भूमि का विवरण						
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें
				724	1.850	
				725	1.730	
				726	1.200	
				727	0.570	
				728	0.730	
				729	1.120	
				योग	28	22.301
5	बपावली पेच -05	बपावली	म.प्र. शासन वन विभाग	655	1.960	<p>उत्तर - सड़क की सीमा रेखा खसरा 653 एवं 654 तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 1 से 14 तक।</p> <p>पूर्व - खसरा संख्या 693 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 33 से 36 एवं 36 से 1 तक।</p> <p>दक्षिण- खसरा संख्या 661 एवं 666 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 27 से 33 तक।</p> <p>पश्चिम-खसरा संख्या 530, 659 एवं 544 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 14 से 27 तक।</p>
				656	0.240	
				658	0.890	
				660	1.460	
				662	2.300	
				664	1.830	
				664/1	0.910	
				योग	7	9.590
6	बपावली पेच-6	बपावली	म.प्र. शासन वन विभाग	641/1	1.980	<p>उत्तर - खसरा 636 एवं 640 सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 3 से 5 तक।</p> <p>पूर्व - खसरा संख्या 642 एवं 645 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 3 एवं 14 से 18 तक।</p> <p>दक्षिण- खसरा संख्या 653 एवं 654 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 6 से 14 तक।</p> <p>पश्चिम-खसरा संख्या 549 की सीमा रेखा तथा प्रस्तावित कृत्रिम वनसीमा मुनारा क्रमांक 5 से 6 तक।</p>
				641/2	1.270	
				643	1.460	
				644	0.750	
				योग	4	5.460

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
7	वपावली पेच -7	वपावली	म.प्र. शासन वन विभाग	572	0.890	उत्तर-खसरा संख्या 587, 592 एवं 594 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 11 से 20 तक। पूर्व-प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 11 एवं 90 से 105 तक। दक्षिण-खसरा संख्या 638 एवं 636 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 56 से 90 तक। पश्चिम-खसरा संख्या 12 एवं 584 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 20 से 56 तक।
				574	0.150	
				575/1	0.338	
				576/1	0.330	
				577/1	1.470	
				578	0.730	
				579/1	0.212	
				580/1	0.195	
				581/1	0.228	
				582/1	0.068	
				583	1.030	
				586	0.780	
				590	0.540	
				591	1.250	
				595	0.720	
				596	0.820	
				607/1	0.368	
				608/1	0.630	
				609/1	0.475	
				610	1.000	
				611	0.230	
				612	0.330	
				613	0.470	
				614	0.650	
				615/1	2.241	
				616	0.880	
				619	0.070	
				620/1	0.146	
				621	0.840	
				622	0.160	
				623	0.140	
				624	0.200	
				625	0.530	
				628	0.550	
				629	0.620	
				630/1	0.300	
				630/2	0.110	
				632	0.044	
				633	2.090	
				634	0.470	
				635	0.100	
				637	0.620	
			योग	42	24.015	

वनखण्ड की भूमि का विवरण						
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें
8	वपावली पेच -8	वपावली	म.प्र. शासन वन विभाग	508	0.580	<p>उत्तर-खसरा संख्या 523 एवं 666 तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 2 से 13 तक।</p> <p>पूर्व-खसरा संख्या 685 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 2 एवं 31 से 39 तक।</p> <p>दक्षिण-खसरा संख्या 507 एवं 668 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 28 से 31 तक।</p> <p>पश्चिम-खसरा संख्या 511 एवं 520 की सीमा रेखा तथा प्रस्तावित मुनारा क्रमांक 13 से 28 तक कृत्रिम वन सीमा रेखा।</p>
				509	1.020	
				510/1	0.542	
				522	1.750	
				667	2.490	
				669	0.330	
				671	0.370	
				योग	7	7.082
9	वपावली पेच -9	वपावली	म.प्र. शासन वन विभाग	284	0.100	<p>उत्तर-सड़क की सीमा रेखा खसरा 109 तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 21 से 31 तक।</p> <p>पूर्व-खसरा संख्या 285, 296, 428, 441, 466, 473, 510, 525 एवं 508 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 21 एवं 121 से 189 तक।</p> <p>दक्षिण-नेगुवां खसरा संख्या 1 एवं 23 तथा वपावली खसरा संख्या 378, 384/2, 387 एवं 491 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 70 से 121 तक।</p> <p>पश्चिम-खसरा संख्या 355, 358, 360, 348 एवं 339 की सीमा रेखा एवं प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 31 से 70 तक।</p>
				296	0.350	
				297	0.090	
				299	0.160	
				300	0.120	
				301	0.080	
				302	0.100	
				303	0.150	
				307	0.190	
				308	0.030	
				309	0.020	
				310	0.460	
				311	0.170	
				312	0.160	
				313	0.170	
				314	0.230	
				315	0.070	
				316	0.100	
				317	0.100	
				318	0.100	
				319	0.120	
				320	0.200	
				321	0.140	
				322	0.130	
				323	0.120	

वनखण्ड की भूमि का विवरण						
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	वनखण्ड की सीमायें
				325	1.030	
				326	0.960	
				327	0.610	
				328/1	0.293	
				330	0.100	
				332	0.150	
				333	0.190	
				334	0.200	
				335	0.230	
				336	0.310	
				337	0.200	
				349	1.570	
				357/1	2.710	
				361	0.280	
				362	0.290	
				365	1.390	
				366	0.630	
				367	0.670	
				369	0.660	
				370	0.090	
				371	0.100	
				372	0.730	
				373	0.830	
				374	0.730	
				375	1.460	
				376	1.230	
				377	0.380	
				381/1	0.965	
				391/1	2.136	
				392/1	1.160	
				394/1	0.190	
				396	0.760	
				398	0.940	
				399	0.760	
				400	0.440	
				401	0.380	
				402	0.360	
				403	0.420	
				406	0.890	
				409	0.730	
				410	0.100	
				411	0.170	
				416	0.420	
				417	0.380	
				418	0.400	

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान भद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
				419	0.970	
				420	0.370	
				421	0.530	
				422	0.100	
				423	0.430	
				424	0.090	
				425	0.620	
				426	0.300	
				438	0.660	
				442/1	0.031	
				444/1	0.084	
				448	0.970	
				449/1	0.290	
				451/1	0.130	
				452/1	0.060	
				455/1	0.067	
				464	0.350	
				465	0.120	
				467	0.200	
				468	0.050	
				469	0.380	
				471/1	0.510	
				472/1	0.400	
				474	2.190	
				476	1.100	
				478	0.470	
				479	0.720	
				480/1	0.210	
				481	0.840	
				482	2.530	
				484 /1	0.260	
				485/1	0.260	
				486 /1	0.520	
				488/1	0.390	
				489/1	0.400	
				489/2/1	0.040	
				490/1	0.540	
				493/1	0.300	
				493/2	0.310	
				494/1	0.560	
				495/1	0.420	
				497	0.510	
				498	0.180	
				499	0.240	
				500	0.510	

वनखण्ड की भूमि का विवरण					
क्र० संख्या	वनखण्ड का नाम	ग्राम का नाम	भूमि का वर्तमान भद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)
				501	1.800
				502	1.930
				503/1	0.470
				503/2	0.480
				512	0.560
				513	0.370
				514	0.290
				515	0.010
				516	1.060
				517	0.510
				518	0.620
				519	0.790
				520	0.820
				526	1.070
				योग	129
					65.276
				93/1	1.393
				95	0.170
				97	0.010
				99	0.790
				110	0.010
				111	0.090
				112	1.400
				114	0.050
				121	1.250
				124	0.250
				130	0.150
				131	0.050
				132	0.450
				133	0.120
				134	0.110
				135	0.150
				136	0.760
				137	0.260
				138	0.500
				140	0.560
				148	0.550
				154	0.250
				156/1	0.360
				157	0.210
				159	0.160
				163/1	0.840
				179	0.070
				180	0.050
				181	0.510
10	वपावली पेच-10	वपावली	म.प्र. शासन वन विभाग	<p>उत्तर-खसरा संख्या 89, 74 एवं 75 तथा प्रस्तावित मुनारा क्रमांक 20 से 44 तक कृत्रिम वन सीमा</p> <p>पूर्व-खसरा संख्या 212, 184, 178, 167 एवं 165 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 20 एवं 101 से 103 तक।</p> <p>दक्षिण-खसरा संख्या 109 एवं 149 की सीमा रेखा तथा एवं प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 87 से 101 तक।</p> <p>पश्चिम-खसरा संख्या 107 एवं 102 की सीमा रेखा एवं प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 44 से 87 तक।</p>	

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
11	बपावली पेच-11	बपावली	म.प्र. शासन वन विभाग	182	0.700	
				186	0.030	
				187	0.110	
				188	0.100	
				190	0.050	
				193	0.020	
				194	0.310	
				197/1	0.010	
				योग	37	12.853
				22	0.110	उत्तर-खसरा संख्या 81, 6, 21 एवं 23 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 14 से 36 तक।
				32	0.270	
				35	0.050	
				36/1	0.030	
				37/1	0.090	
				45	0.050	
				46	0.040	
				47	0.140	
				48	0.070	
				49	0.110	पूर्व-खसरा संख्या 30, 41, 50 एवं 208 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 1 से 14 एवं 77 से 80 तक।
				51	0.210	
				52	1.160	
				53	0.010	
				54	0.770	
				56	0.190	
				57	0.170	
				59	0.130	
				60	0.120	
				61	0.320	दक्षिण-खसरा संख्या 191, 74 एवं 75 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 51 से 77 तक। पश्चिम-संरक्षित वनखण्ड सुलार के कक्ष क्रमांक 1064 की सीमा रेखा एवं खसरा संख्या 89 की सीमा रेखा तथा प्रस्तावित कृत्रिम वन सीमा मुनारा क्रमांक 36 से 51 तक।
				62	0.740	
				63	0.340	
				64/1	0.240	
				66	0.080	
				67	0.040	
				68	0.260	
				69	0.260	
				70	0.230	
				71	0.180	
				72	0.150	
				73/1	0.265	
				76	0.470	
				77	0.800	
				78	0.720	
				79	0.660	
				82	0.190	

क्र० संख्या	वनखण्ड का नाम	वनखण्ड की भूमि का विवरण				वनखण्ड की सीमायें
		ग्राम का नाम	भूमि का वर्तमान मद	खसरा क्र.	क्षेत्रफल (हेक्टेयर)	
				86	0.300	
				87/1	0.007	
				88	0.800	
				734/199	0.070	
				189/1	0.240	
				195/1	0.020	
				198	0.060	
				199	0.050	
				200	0.040	
				201	0.300	
				202	0.330	
				203	0.160	
				204	0.050	
				205	0.100	
				206	0.090	
				736/52/1	0.065	
				737/37/1	0.040	
			योग	52	12.387	
			कुल योग (1 से 11)	541	303.482	

(क) अधिसूचना प्रकाशन का आधार :-

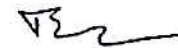
- पर्यावरण एवं वन मंत्रालय भारत सरकार के आदेश क्रमांक 8-18/2021-FC दिनांक 24.08.2021 में अधिरोपित शर्त के अनुसार ग्रीनको एनर्जी प्रायवेट लिमिटेड, हैदराबाद के द्वारा जिला नीमच में एमपी-30 गांधी सागर ऑफ-स्ट्रिम पम्पड स्टोरेज परियोजना (1440 मेगावाट) निर्माण में प्रभावित होने वाली 301.96 हेक्टेयर वन भूमि के बदले में कुल 303.482 हेक्टेयर गैर वनभूमि क्षतिपूर्ति वनीकरण के उद्देश्य से मध्यप्रदेश शासन, वन विभाग के पक्ष में तहसीलदार पिछोर जिला शिवपुरी म.प्र. के आदेश क्रमांक 0809, 0810, 0811, 0812, 0813, 0817, 0818, 0819, 0820, 0821, 0822, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831, 0832, 0833, 0841, 0842, 0843, 0844, 0845, 0846, 0847, 0865/2022-23/अ-6 में पारित आदेश दिनांक 04.01.2023 अनुसार हस्तांतरित अथवा नामांतरित किये जाने के कारण।
- अन्य कारणों का विवरण :- निरंक

(ख) अनुसूची में वर्णित भूमि पर तहसीलदार पिछोर, जिला शिवपुरी म.प्र. के पत्र क्रमांक/तह./2022/02 दिनांक 05.01.2023 अभिलेखित अधिकारों का खसरावार विस्तृत विवरण निम्नानुसार है :-

- व्यक्तिगत अधिकार :- अनुसूची में वर्णित भूमि पर कोई व्यक्तिगत अधिकार नहीं है।
- सामुदायिक अधिकार :- अनुसूची में वर्णित भूमि पर कोई सामुदायिक अधिकार नहीं है।

अतः उक्त भूमि को भारतीय वन अधिनियम, 1927 की धारा-29 के अंतर्गत संरक्षित वन घोषित किया जाता है।

मध्यप्रदेश के राज्यपाल के नाम से
तथा आदेशानुसार



अतुल कुमार मिश्रा, सचिव

GOVERNMENT OF MADHYA PRADESH
FOREST DEPARTMENT
NOTIFICATION

Bhopal, Dated:- 08 February, 2023

No/318 /R-1083750/2023/10-3 :: In exercise of the power conferred by section 29 of the Indian Forest Act 1927 (No. XVI of 1927) the State Government is pleased to declare the provisions of chapter IV of the said Act applicable to the area, specified in the schedule below, subject to the condition that the existing rights of individuals or communities in such forests shall not be abridged or affected in any manner except in so far as they may be notified by the State Government from time to time.

- Forest Block Umari Viran-1 falling between N 25°13'28.5" to N 25°14'2.7" North Latitude and E 77°56'48.5" to E 77°57'22.5" East Longitude.
- Forest Block Neguwan Patch-2 falling between N 25°14'2.8" to N 25°14'21.9" North Latitude and E 77°56'58.3" to E 77°57'28.5" East Longitude.
- Forest Block Neguwan Patch-3 falling between N 25°14'27.3" to N 25°15'1.5" North Latitude and E 77°56'44.7" to E 77°57'35.6" East Longitude.
- Forest Block Neguwan Patch-4 falling between N 25°14'50.3" to N 25°15'11.8" North Latitude and E 77°57'0" to E 77°57'34.8" East Longitude.
- Forest Block Bapawali Patch-5 falling between N 25°15'1.7" to N 25°15'17.7" North Latitude and E 77°56'31.4" to E 77°56'50.2" East Longitude.
- Forest Block Bapawali Patch-6 falling between N 25°15'9.4" to N 25°15'21.6" and E 77°56'32.5" to E 77°56'48.7" East Longitude.
- Forest Block Bapawali Patch-7 falling between N 25°15'24.9" to N 25°15'48.3" North Latitude and E 77°56'24" to E 77°56'47.6" East Longitude.
- Forest Block Bapawali Patch-8 falling between N 25°14'49.3" to N 25°14'59.7" North Latitude and E 77°56'27.8" to E 77°56'42.5" East Longitude.
- Forest Block Bapawali Patch-9 falling between N 25°14'39.1" to N 25°15'20.6" North Latitude and E 77°55'41.3" to E 77°56'30.2" East Longitude.
- Forest Block Bapawali Patch-10 falling between N 25°15'16.2" to N 25°15'30.3" and E 77°55'47.9" to E 77°56'12.2" East Longitude.
- Forest Block Bapawali Patch-11 falling between N 25°15'29.6" to N 25°15'42.7" North Latitude and E 77°55'50.5" to E 77°56'12.1" East Longitude.

SCHEDULE

District :- Shivpuri
Forest Division: - Shivpuri Forest Division (T)

Tehsil :- Pichhore
Forest Range: -Karera

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
1	Umri Viran Patch 01	Umri Viran	Forest Department Govt. M.P	4	0.820	North: Village Road plot no 11 & Artificial pillar no 13 to 18
				7	1.000	
				8	0.920	
				9	1.280	
				10/1	1.600	East: Boundary line of plot no 25, 75 & 82 & Artificial pillar no 1 to 13 & 65 to 88
				12	1.100	
				13	0.340	
				14	0.220	
				15	0.210	
				16	0.260	
				17	0.500	
				26	0.610	South: Boundary line of compartment no 1079 of Protected Forest Block Khod & plot no 151, 152, & 155 & Artificial pillar no 47 to 65
				27	0.360	
				28	0.440	
				29	0.810	
				32	0.970	
				33	0.670	
				34	1.170	
				35	0.400	West: Boundary line of plot no 121, 131, 63 & 3 & Artificial pillar no 18 to 47
				36	0.430	
				37/1	1.213	
				38/1	1.147	
				64/1	0.283	
				65	0.700	
				66	0.970	
				67	0.920	
				68	0.220	
				69	0.760	
				70	0.700	
				77	0.470	
				78/1	1.539	
				81	0.740	
				83	0.840	
				84/1	0.167	
				85/1	0.140	
				86/1	0.247	
				87	0.070	
				88	0.120	
				89	0.140	
				90	0.120	
				91	0.150	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				92/1	0.130	
				93/1	0.200	
				94/1	0.060	
				95	0.150	
				96	0.660	
				97	0.410	
				98	0.830	
				99	1.430	
				100	0.350	
				101	0.330	
				102	0.730	
				105	0.880	
				106	0.280	
				107	0.210	
				108	0.790	
				109	0.690	
				110	0.390	
				111	0.570	
				112	0.320	
				113	0.330	
				122	1.850	
				124	0.860	
				125	0.410	
				126	0.650	
				127	0.780	
				128	0.170	
				129	0.130	
				130	0.370	
				132	0.230	
				133	0.150	
				134	0.100	
				135	0.380	
				136	0.270	
				137	0.450	
				138	0.350	
				139	0.170	
				140	0.200	
				141	0.170	
				143	0.300	
				146	0.140	
				147	0.190	
				150	0.050	
				157	0.190	
				158	0.190	
				161	0.190	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				162	0.580	
				163	0.350	
				164	0.330	
				165	0.730	
				166	0.620	
				167	0.550	
				168	0.400	
				169	0.480	
				170	0.090	
				171	0.190	
				Total	96	48.766
2	Neguwan Patch -2	Neguwan	Forest Department Govt. M.P	322	2.000	North: Boundary line of plot 321, 323 & 352 & Artificial pillar no 3 to 28 East: Boundary line of compartment no 1078 of Protected Forest Block Khod & Artificial pillar no 1 to 3 & 89 to 97 South: Boundary line of plot no 338, 345/2, 365 & 366 & Artificial pillar no 42 to 89 West: Boundary line of plot no 325 & 330 & Artificial pillar no 28 to 42
				326/1	0.223	
				327	1.960	
				329/1	0.073	
				339	0.710	
				340/1	0.153	
				341/1	0.689	
				344/1	0.935	
				345/1	0.617	
				346	0.710	
				347	0.650	
				348	0.450	
				349	0.720	
				350	0.330	
				353/1	0.302	
				355/1	0.471	
				358/1	0.382	
				359/1	0.439	
				360/1	0.222	
				361/1	0.414	
				362/1	0.212	
				363/1	0.212	
				364/1	0.172	
				367/1	0.326	
				368/1	0.366	
				369	0.660	
				371/1	0.546	
				372	0.370	
				374	0.510	
				375	0.470	
				376	0.230	
				377	0.250	
				378	0.360	
				379	0.250	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
3.	Neguwan Patch-3	Neguwan	Forest Department Govt. M.P	380	0.420	
				381	0.440	
				382	0.430	
				384/1	0.455	
				385	0.220	
				Total	39	19.349
				171	1.070	North: Boundary line of village road plot 246 & Artificial pillar no 3 to 46 East: Boundary line of compartment no 1078 of Protected Forest Block Khod & Artificial pillar no 1 to 3 & 95 to 99 South: Boundary line of road plot no 300, 172 & 190 & Artificial pillar no 74 to 95 West: Boundary line of plot no 69, 177, 683, 684 & 694 & Artificial pillar no 46 to 74
				173	2.040	
				174	0.580	
				175/1	0.260	
				175/2	0.800	
				175/3	0.260	
				180/1	0.160	
				181	1.210	
				182/1	0.093	
				184	0.500	
				185	1.250	
				186/1	0.428	
				187/1	0.317	
				188/1	0.510	
				189/1	0.283	
				191	0.250	
				192	0.490	
				193	0.700	
				194/1	0.505	
				194/2	0.505	
				195	0.890	
				197	0.670	
				198	0.880	
				199	1.890	
				200	0.440	
				201	0.880	
				202	0.520	
				203	2.010	
				204	0.710	
				205	1.240	
				206	0.710	
				207	0.540	
				208	0.670	
				209	0.750	
				210	0.430	
				211	0.570	
				212	1.080	
				213	0.590	
				214/1	0.684	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				215/1	0.500	
				216	0.280	
				247/1	0.500	
				247/2	0.990	
				248	0.920	
				249	0.800	
				250	0.790	
				251	0.440	
				252	0.430	
				253	0.570	
				254	0.260	
				255	0.560	
				256	1.230	
				257	0.830	
				258	1.030	
				259	0.760	
				260 /1	0.866	
				261	0.300	
				262	0.450	
				263	0.950	
				264	1.910	
				265	0.290	
				266	0.840	
				267	0.940	
				268	0.490	
				269	0.620	
				270	1.570	
				271	1.230	
				272	0.660	
				273	0.210	
				274	1.010	
				275	0.830	
				276	0.340	
				277/1	0.160	
				278	0.650	
				280	1.760	
				281	0.150	
				282	0.290	
				283	0.960	
				284	0.750	
				285/1	0.560	
				286	0.800	
				287	0.510	
				288	0.200	
				289	1.460	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				290	0.920	
				291	1.340	
				292	0.580	
				293	2.220	
				294	1.120	
				295/1	0.823	
				296/1	0.830	
				298	0.580	
		Bapawali	Forest Department Govt. M.P	687	2.860	
				688	0.700	
				689/1	0.249	
				690	0.800	
				692	0.400	
				695	0.590	
				696	0.690	
				697	0.690	
			Total	100	76.403	
4	Neguwan Patch-4	Neguwan	Forest Department Govt. M.P	218/1	0.240	North: Boundary line of plot no 703 & 720 & Artificial pillar no 5 to 20
				219	0.760	
				220	0.600	East: Boundary line of plot no 730, 731 & 238 & Artificial pillar no 1 to 5 & 36 to 59
				221	0.250	
				222	0.430	
				223/1	0.765	
				224/1	0.315	
				225	0.570	
				226	0.900	
				228/1	0.138	
				229/1	0.103	
				230/1	0.140	
				231	0.790	
				232	0.710	
				233	0.260	
				234	0.550	South: Boundary line of village road plot no 246 & Artificial pillar no 24 to 36
				235	1.460	
		Bapawali	Forest Department Govt. M.P	699	0.820	
				700	0.650	
				701	2.670	
				721	0.900	
				722	1.080	
				724	1.850	
				725	1.730	
				726	1.200	West: Boundary line of plot no 698 & 702 & Artificial pillar no 20 to 24
				727	0.570	
				728	0.730	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
5	Bapawali Patch 05	Bapawali	Forest Department Govt. M.P	729	1.120	North: Boundary line of village road plot no 653 & 654 & Artificial pillar no 1 to 14 East: Boundary line of plot no 693 & Artificial pillar no 33 to 36 & 36 to 1 South: Boundary line of plot no 661 & 666 & Artificial pillar no 27 to 33 West: Boundary line of plot no 530, 659 & 544 & Artificial pillar no 14 to 27
				Total	28	
				655	1.960	
				656	0.240	
				658	0.890	
				660	1.460	
				662	2.300	
				664	1.830	
				664/1	0.910	
				Total	7	9.590
6	Bapawali Patch-6	Bapawali	Forest Department Govt. M.P	641/1	1.980	North: Boundary line of plot no 636 & 640 & Artificial pillar no 3 to 5 East: Boundary line of plot no 642 & 645 & Artificial pillar no 1 to 3 & 14 to 18 South: Boundary line of village road plot no 653 & 654 & Artificial pillar no 6 to 14 West: Boundary line of plot no 549 & Artificial pillar no 5 to 6
				641/2	1.270	
				643	1.460	
				644	0.750	
				Total	4	5.460
7	Bapawali Patch-7	Bapawali	Forest Department Govt. M.P	572	0.890	North: Boundary line of plot 587, 592 & 594 & Artificial pillar no 11 to 20 East: Boundary line of Artificial pillar no
				574	0.150	
				575/1	0.338	
				576/1	0.330	
				577/1	1.470	
				578	0.730	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				579/1	0.212	1 to 11 & 90 to 105 South: Boundary line of plot no 638, 636 & Artificial pillar no 56 to 90 West: Boundary line of plot no 12 & 584 & Artificial pillar no 20 to 56
				580/1	0.195	
				581/1	0.228	
				582/1	0.068	
				583	1.030	
				586	0.780	
				590	0.540	
				591	1.250	
				595	0.720	
				596	0.820	
				607/1	0.368	
				608/1	0.630	
				609/1	0.475	
				610	1.000	
				611	0.230	
				612	0.330	
				613	0.470	
				614	0.650	
				615/1	2.241	
				616	0.880	
				619	0.070	
				620/1	0.146	
				621	0.840	
				622	0.160	
				623	0.140	
				624	0.200	
				625	0.530	
				628	0.550	
				629	0.620	
				630/1	0.300	
				630/2	0.110	
				632	0.044	
				633	2.090	
				634	0.470	
				635	0.100	
				637	0.620	
				Total	42	24.015
8	Bapawali Patch- 8	Bapawali	Forest Department Govt. M.P	508	0.580	North: Boundary line of plot no 523 & 666 & Artificial pillar no 2 to 13 East: Boundary line of plot no 685 & Artificial pillar no 1 to 2 & 31 to 39 South: Boundary
				509	1.020	
				510/1	0.542	
				522	1.750	
				667	2.490	
				669	0.330	
				671	0.370	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
						line of plot no 507, 668 & Artificial pillar no 28 to 31 West: Boundary line of plot no 511 & 520 & Artificial pillar no 13 to 28
			Total	7	7.082	
9	Bapawali Patch -9	Bapawali	Forest Department Govt. M.P	284	0.100	North: Boundary line of village road plot 109 & Artificial pillar no 21 to 31 East: Boundary line of plot no 285, 296, 428, 441, 466, 473, 510, 525 & 506 & Artificial pillar no 1 to 21 & 121 to 189 South: Boundary line of Neguwan village plot no 1 & 23 & Bapawali 378, 484/2, 387 & 491 & Artificial pillar no 70 to 121 West: Boundary line of plot no 355, 358, 360, 348 & 339 & Artificial pillar no 31 to 70
				296	0.350	
				297	0.090	
				299	0.160	
				300	0.120	
				301	0.080	
				302	0.100	
				303	0.150	
				307	0.190	
				308	0.030	
				309	0.020	
				310	0.460	
				311	0.170	
				312	0.160	
				313	0.170	
				314	0.230	
				315	0.070	
				316	0.100	
				317	0.100	
				318	0.100	
				319	0.120	
				320	0.200	
				321	0.140	
				322	0.130	
				323	0.120	
				325	1.030	
				326	0.960	
				327	0.610	
				328/1	0.293	
				330	0.100	
				332	0.150	
				333	0.190	
				334	0.200	
				335	0.230	
				336	0.310	
				337	0.200	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				349	1.570	
				357/1	2.710	
				361	0.280	
				362	0.290	
				365	1.390	
				366	0.630	
				367	0.670	
				369	0.660	
				370	0.090	
				371	0.100	
				372	0.730	
				373	0.830	
				374	0.730	
				375	1.460	
				376	1.230	
				377	0.380	
				381/1	0.965	
				391/1	2.136	
				392/1	1.160	
				394/1	0.190	
				396	0.760	
				398	0.940	
				399	0.760	
				400	0.440	
				401	0.380	
				402	0.360	
				403	0.420	
				406	0.890	
				409	0.730	
				410	0.100	
				411	0.170	
				416	0.420	
				417	0.380	
				418	0.400	
				419	0.970	
				420	0.370	
				421	0.530	
				422	0.100	
				423	0.430	
				424	0.090	
				425	0.620	
				426	0.300	
				438	0.660	
				442/1	0.031	
				444/1	0.084	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				448	0.970	
				449/1	0.290	
				451/1	0.130	
				452/1	0.060	
				455/1	0.067	
				464	0.350	
				465	0.120	
				467	0.200	
				468	0.050	
				469	0.380	
				471/1	0.510	
				472/1	0.400	
				474	2.190	
				476	1.100	
				478	0.470	
				479	0.720	
				480/1	0.210	
				481	0.840	
				482	2.530	
				484 /1	0.260	
				485/1	0.260	
				486 /1	0.520	
				488/1	0.390	
				489/1	0.400	
				489/2/1	0.040	
				490/1	0.540	
				493/1	0.300	
				493/2	0.310	
				494/1	0.560	
				495/1	0.420	
				497	0.510	
				498	0.180	
				499	0.240	
				500	0.510	
				501	1.800	
				502	1.930	
				503/1	0.470	
				503/2	0.480	
				512	0.560	
				513	0.370	
				514	0.290	
				515	0.010	
				516	1.060	
				517	0.510	
				518	0.620	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
10	Bapawali Patch-10	Bapawali	Forest Department Govt. M.P	519	0.790	
				520	0.820	
				526	1.070	
				Total	129	65.276
				93/1	1.393	North: Boundary line of plot 89, 74 & 75 & Artificial pillar no 20 to 44
				95	0.170	
				97	0.010	
				99	0.790	
				110	0.010	East: Boundary line of plot no 212, 184, 178, 167 & 165 & Artificial pillar no 1 to 20 & 101 to 103
				111	0.090	
				112	1.400	
				114	0.050	
				121	1.250	South: Boundary line of plot no 109 & 149 & Artificial pillar no 87 to 101
				124	0.250	
				130	0.150	
				131	0.050	
				132	0.450	West: Boundary line of plot no 107 & 102 & Artificial pillar no 44 to 87
				133	0.120	
				134	0.110	
				135	0.150	
				136	0.760	
				137	0.260	
				138	0.500	
				140	0.560	
				148	0.550	
				154	0.250	
				156/1	0.360	
				157	0.210	
				159	0.160	
				163/1	0.840	
				179	0.070	
				180	0.050	
				181	0.510	
				182	0.700	
				186	0.030	
				187	0.110	
				188	0.100	
				190	0.050	
				193	0.020	
				194	0.310	
				197/1	0.010	
				Total	37	12.853
11	Bapawali Patch 11	Bapawali	Forest Department Govt. M.P	22	0.110	North: Boundary line of plot no 81, 6, 21 & 23 & Artificial
				32	0.270	
				35	0.050	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				36 /1	0.030	pillar no 14 to 36 East: Boundary line of plot no 30, 41, 50 & 208 & Artificial pillar no 1 to 14 & 77 to 80 South: Boundary line of plot no 191, 74 & 75 & Artificial pillar no 51 to 77 West: Boundary line of compartment no 1064 of Protected Forest Block Sular & plot no 89 & Artificial pillar no 36 to 51
				37 /1	0.090	
				45	0.050	
				46	0.040	
				47	0.140	
				48	0.070	
				49	0.110	
				51	0.210	
				52	1.160	
				53	0.010	
				54	0.770	
				56	0.190	
				57	0.170	
				59	0.130	
				60	0.120	
				61	0.320	
				62	0.740	
				63	0.340	
				64/1	0.240	
				66	0.080	
				67	0.040	
				68	0.260	
				69	0.260	
				70	0.230	
				71	0.180	
				72	0.150	
				73/1	0.265	
				76	0.470	
				77	0.800	
				78	0.720	
				79	0.660	
				82	0.190	
				86	0.300	
				87/1	0.007	
				88	0.800	
				734/199	0.070	
				189/1	0.240	
				195/1	0.020	
				198	0.060	

S. No.	Name of Forest Block	Details of Land Included				Forest Block Boundary
		Village	Head of Land	Survey No.	Area (Ha)	
				199	0.050	
				200	0.040	
				201	0.300	
				202	0.330	
				203	0.160	
				204	0.050	
				205	0.100	
				206	0.090	
				736/52/1	0.065	
				737/37/1	0.040	
			Total	52	12.387	
			G Total (1 to 11)	541	303.482	

(A) Reason for publication of Notification: -

1. In accordance with the condition laid down in the Ministry of Environment of Forest Govt. of India's letter no File No. No 8-18/2021-FC dated 24-08-2021 and in lieu of 301.96 ha of effected Forest land under the sanctioned project of MP 30 Gandhi Sagar off stream Pumped Storage Project (1440 MW) by M/s Greenko Energies Private limited, Hyderabad the above mentioned Non forest land of 303.482 Ha mentioned in schedule transferred or mutated in favour of M.P. Forest Department by order no 0809, 0810, 0811, 0812, 0813, 0817, 0818, 0819, 0820, 0821, 0822, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831, 0832, 0833, 0841, 0842, 0843, 0844, 0845, 0846, 0847, 0865/2022-23/A-6 dated 04.01.2023 of Tehsildar Pichore, District Shivpuri for the purpose of Compensatory afforestation.
2. Details of other Reasons- Nil

(B) The Khasra wise details of recorded right on the above land mentioned in schedule as per report letter no Teh./2022/02Pichore, dated 05.01.2023 of Tehsildar, Pichore District Shivpuri are as above: -

1. Individual's Rights: - There are no Individual's Rights on the land mentioned in schedule
2. Community's Rights: - There are no Community's Rights on the land mentioned in schedule

Therefore, the land mentioned in schedule is being declared as Protected Forest under section 29 of Indian Forest Act 1927.

By order and in the name of the
Governor of Madhya Pradesh


Atul Kumar Mishra, Secretary

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Green Watch
FCA Projects, Diverted Land, CA Land Management

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SUCCESS: The FCA project has been Registered successfully. You can now edit the project details and lock for ID:51130

Project Name: **MP30 Gandhi Sagar Off-Stream Pumped Storage Project** Year: **2021**

- To Register a new FCA Project, please click here [Register a New FCA Project](#)
- To Edit details of Existing FCA Project, Please click here [Edit the Existing FCA Project Details](#)
- To Lock the Details of FCA Project, Please click here [Lock FCA Projects](#)
- Add CA Land / Site Details to the Project Please click here to add the CA Site/Land Details to the Project

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Diverted Land Details

Project Name: **MP30 Gandhi Sagar Off-Stream Pumped Storage Project** Project Type: **Hydel**

Total Land Diverted: **301.960**

Please select the location (Range) of the diverted Forest Land

Select Circle: **--Select--** Select Division: **Neemach(T)**

Select Range: **Range Rampura** Forest Type: **--Select--**

Site Name/Compartment Detail: Area of Diverted Forest land (In Hact.):

Location Details of the diverted land:

Shape of Diverted land: **Block (Polygon)** Previously Diverted Area (In Hact.): **0.000**

GPS Details of diverted Land: **Choose File** No file chosen Upload Scanned copy of Map: **Choose File** No file chosen
(Please upload KML/KMZ file only) (Please upload JPG/jpg file only)

Diverted Land Details have been Added successfully. You can view the details in the bottom of your screen. Facility to edit the details of diverted land has also been provided

[Save Diverted Land Details](#) [Go Back](#)

List and Details of the pieces of Forest Lands diverted against FCA projects

S.No.	State	FCA Project	FCA project Year	Area Diverted (In Hact)	Division	Range	Location Details
1	MP	MP30 Gandhi Sag	2021	301.960	Neemach(T)	Range Rampura	
Total				301.960			

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Land Received from UA against FCA projects for Compensatory Afforestation

Project Name: **MP30 Gandhi Sagar Off-Stream Pumped Storage Project** Project Type: **Hydel**

Total Land Diverted: **301.960**

Land type: **--Select--** Category of CA Land: **--Select--**

Select Circle: **--Select--** Select Division: **--Select--**

Select Range: **--Select--**

Site Name/Compartment/Block Details:

Location Details(Optional):

Shape of Land received for CA: **--Select--**

Area of Land Received for CA (In Hact.): Area of Land that has already been received(In Hact.): **0.000**

Upload GPS File: **Choose File** No file chosen Upload Scanned copy of Map of the Land received for CA: **Choose File** No file chosen
(Please upload KML/KMZ file only) (Please upload JPG/jpg file only)

CA Land Details have been saved successfully. You can view the details in the bottom of your screen

[Save The CA Land Details](#) [Cancel](#)

Edit/update - Land Received from UA against FCA projects for Compensatory Afforestation

S.No.	Site Name	Land Type	Land Category	Land Area(In Ha)	District	Range	Notification order No.	Notification Status
1	4,7,8,9,10/11,12,13,14,16, 170, 171	Revenue Land (Non-forest)	CA	303.482	Shivpuri [Pichhore]	Pichhore [Shivpuri(T)]	318/R-1083750/2023/10-3- dated- 08/02/2023	Notified Land
Total				303.482				

Annexure-05

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the legal status of the diverted forest land shall remain unchanged.

Date: 09/01/2023

Place: Hyderabad

N. Gopi Krishna

Name: N. Gopi Krishna



Authorized Signatory

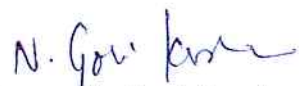
Annexure-06

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the additional amount of the NPV of the diverted forest land will be paid, on demand by the State Government 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.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory



Annexure-07

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes felling of trees shall be carried out wherever necessary under strict supervision of the Forest Department.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-08

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes felling of trees will be restricted to FRL-4 meter only and felling of trees will be carried out by the State Forest Department. Number of trees to be removed will be kept at barest minimum during the execution of the project.

Date: 09/01/2023

Place: Hyderabad

N. Gopi Krishna

Name: N. Gopi Krishna

Authorized Signatory



Annexure-09

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes to take up afforestation along the periphery of the reservoir wherever possible.

Date: 09/01/2023

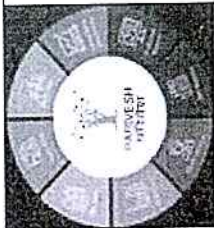
Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

ENVIRONMENTAL
CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)

Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The AGM
GREENKO ENERGIES PRIVATE LIMITED
Plot No. 1071, Road No-44, Jubilee Hills,
Hyderabad,,Hyderabad,Telangana-500033

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MP/RIV/124890/2019 dated 20 Jul 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC21A003MP159461 |
| 2. File No. | J-12011/22/2019-IA-I (R) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(c) River Valley projects |
| 6. Name of Project | MP 30 Gandhi Sagar Standalone Pumped Storage Project |
| 7. Name of Company/Organization | GREENKO ENERGIES PRIVATE LIMITED |
| 8. Location of Project | Madhya Pradesh |
| 9. TOR Date | 28 Feb 2020 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 02/12/2021

(e-signed)
Yogendra Pal Singh
Scientist E
IA - (River Valley and Hydroelectric
Projects sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. J-12011/22/2019-IA-I (R)
Government of India
Ministry of Environment, Forests & Climate Change
(Impact Assessment Division)

Indira Paryavan Bhavan
2nd Floor, Vayu Wing
Aliganj, Jor Bagh Road
New Delhi - 110 003

Dated: 01st December, 2021

To,

M/s Greenko Energies Private Limited
Plot no-1071, Road No-44, Jubilee Hills,
Hyderabad - 500 033 (Telangana)
Email: envifor.gandhisagar@greenkogroup.com

Sub: MP30 Gandhi Sagar Off Stream Pumped Storage Project (1440 MW) in an area of 402.50 ha by M/s Greenko Energies Private Limited in village Khemla Block, Tehsil Rampur, District Neemuch, Madhya Pradesh - Environmental Clearances - Reg.

Sir,

This has reference to your online Proposal No. IA/MP/RIV/124890/2019 dated 20th July, 2021 submitted to the Ministry for Environmental Clearance to the project cited in the subject.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance to MP30 Gandhi Sagar Off Stream Pumped Storage Project (1440 MW) in an area of 402.50 ha by M/s Greenko Energies Private Limited in village Khemla Block, Tehsil Rampur, District Neemuch (Madhya Pradesh).

3. The proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Projects in its 15th EAC Meeting held on 27th July 2021. 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.

4. The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

- (i) MP 30 Gandhi Sagar Off-Stream Pumped Storage Project is located in Neemuch District of Madhya Pradesh. It envisages creation of upper reservoir which is located away from all existing natural systems. The project is about 78 Kms from district headquarters Neemuch via MP SH 31A. Nearest railhead and airport are located at Neemuch and Udaipur respectively. The nearest village to the project is Khemla block about 0.5Km, which comes under, Rampura Tehsil, Neemuch district.
- (ii) The MoEF&CC approved the ToR for the proposed project vide F. No. J-12011/22/2019-IA-I (R) dated 28th February, 2020.
- (iii) This project envisages non-consumptive re-utilization of 1.22 TMC of water of the Gandhi Sagar reservoir by recirculation. The water in the Gandhi Sagar reservoir (existing lower reservoir) will be pumped up and stored in the proposed Pumped

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- Storage component of MP30 Gandhi Sagar (upper Reservoir) and will be utilized for power generation.
- (iv) The Geographical coordinates of the proposed MP30 Gandhi Sagar Off-Stream Pumped Storage Project component of upper reservoir is at latitude 24°31'6.89"North and Longitude is 75°30'56.12"East and that of Gandhi Sagar lower reservoir (existing) are 24°31'5.40" North and 75°32'5.28"East. Proposed rating of Off-Stream Pumped Storage Project is 1440MW.
- (v) The Off-Stream Pumped Storage Project of MP 30 Gandhi Sagar, herein after referred as MP 30 Gandhi Sagar Off-Stream PSP, envisages construction of upper reservoir (proposed) located in Rampura Tehsil of Neemuch District. The Gandhi Sagar reservoir (existing) is under operation with a gross storage capacity of 258.47 TMC and MP 30 Gandhi Sagar Off Stream PSP is proposed for the live storage capacity of 1.22 TMC.
- (vi) **Project Components details:**
- The project will involve construction of rock fill embankment of maximum height of 35m for creation of MP 30 Gandhi Sagar Off-Stream PSP upper reservoir of 1.80TMC gross storage and 1.22TMC live storage.
 - The upper reservoir is located at EL 491m and the FRL and MDDL of this reservoir is at EL 523.00m & EL 508.00m, respectively.
 - 6 nos. each of 683.48m long and 7.5m dia. surface circular steel lined Penstock / Pressure Shaft (i.e., consisting of 181.52m long surface penstock, 140.97m long vertical pressure shaft and 360.99m long Horizontal pressure shaft) in which 5 nos. will feed 5 units each of 240 MW and 1 no. will get bifurcated in to two of 5.3m dia. to feed 2 units each of 120 MW.
 - A surface Powerhouse having an installation of Five nos. Reversible Francis turbine each of 240MW capacity (All units are fixed speed turbines) operating under a rated head of 121.70m in generating mode and 127.90m in pumping mode and Two nos. Reversible Francis turbine each of 120 MW capacity (All are variable speed turbines) operating under a rated head of 121.00m in generating mode and 128.70m in pumping mode.
 - 85m wide and FSD of 6.0m Tail race channel of about 860.00m long connecting to the Existing Gandhi Sagar reservoir.
 - The existing Gandhi Sagar reservoir will be utilized as a lower reservoir to enable MP 30 Gandhi Sagar Off-Stream PSP to operate as a peak station. The FRL & MDDL of existing Gandhi Sagar reservoir is at EL 400.00m & EL 381.00m, respectively. The Gross storage capacity of existing reservoir is 258.47 TMC. Water will be pumped to the proposed upper reservoir through TRC.
- (vii) Salient features of MP 30 Gandhi Sagar Off-Stream PSP

S. No.	NAME OF THE PROJECT	MP30 GANDHI SAGAR OFF-STREAM PSP
1	Location	
	a Country	India
	b State	Madhya Pradesh
	c District	Neemach
	d Tehsil	Rampura
	e Village near Power House	Khemla Block
2	Geographical Co-Ordinates	
	a MP30 GANDHI SAGAR OFF-STREAM PSP Upper Reservoir - (Now Proposed)	
	Latitude	24°31'6.89"N

		Longitude	75°30'56.12"E
	b	Gandhi Sagar Reservoir - Lower (Existing)	
		Latitude	24°31'5.4"N
		Longitude	75°32'5.28"E
3		Access To Project Site	
	a	Airport	Udaipur, 171Km from project site.
	b	Railhead	Neemach, 67Km from project site
	c	Road	Khemla block, around 5km from SH31A
	d	Port	Mandavi
4		Project	
	a	Type	Off-Stream Pumped Storage Project
	b	Storage Capacity	10411.20MWH
	c	Rating	1440MW
	d	Peak operation duration	7.23Hours daily
5		MP30 GANDHISAGAR OFF-STREAM PSP - Upper Reservoir	
	a	Live Storage	1.22TMC
	b	Dead Storage	0.58TMC
	c	Gross Storage	1.80TMC
	d	Full Reservoir Level (FRL)	EL +523.00 m
	e	Minimum Draw Down Level (MDDL)	EL +508.00m
	f	Top Bund Level (TBL)	EL +526.00m
	g	Foundation Level	EL +491.00 m
	h	Max Height of Embankment	35.00 m
	i	Length of Embankment	5561.131 m
6		Gandhi Sagar Reservoir - Lower Reservoir - (Existing)	
	a	Type of Dam	Masonry Gravity Dam
	b	Full Reservoir Level (FRL)	EL 400.00 m
	c	Minimum Draw Down Level (MDDL)	EL 381.00 m
	d	Height of Dam above deepest bed level	63.70 m
	e	Length of Dam	514.00m
	f	Gross Storage Capacity	258.47 TMC
7		RCC intake Structure	
	a	Type	Diffuser Type
	b	Elevation of Intake centre line	EL +495.50 m
	c	Elevation of bell mouth bottom	EL +491.05 m
8		Penstock /Pressure Shafts	
	a	Type	Finished steel lined - circular
	b	Number of Penstocks	6 Nos. wherein 1 No. Independent Pressure shaft bifurcated in to 2 for smaller units
	c	Diameter of Penstock	7.5 m - Main Penstock

			5.3 m – Branch Penstock
	d	Length of penstock/Pressure Shaft	For 5 nos. – 683.48 m each (Main Penstock) for 5 larger units For 1 no. – 607.23m long (Main Penstock) and 76.25m each Branch Penstock for 2 smaller units
9		Powerhouse	
	a	Type	Surface Powerhouse
	b	Dimensions (Excluding Service Bay)	181.20m (L) x 25.50m (W) x 56.10m (H)
10		Tail Race Channel	
	a	Type & Shape	Concrete lined & Trapezoidal
	b	Length of the channel	860.00 m
	c	Bed Width	85.00 m
	d	Full supply depth	6.0 m
	e	Bed slope	1 in 7000
11		Tailrace Outlet Structure	
	a	Type	Diffuser Type
	b	Elevation of outlet Centre line	EL +370.71 m
12		Hydro-Mechanical Equipment	
	a	RCC Intake Structure	
	i	Trash Rack	Vertical with inclination of 15°
	ii	No. of Trash racks	6 nos.
	iii	No. of bays in each trash rack	2 nos. of 7.75m(W) x 10.97m(H) & 1 no. of 8.5m(W) x 10.97m(H) for each unit
	iv	Intake Service Gate	Size – 6.20m (W) x 7.50 m (H) – 6 Nos. With Rope Drum Hoist
	v	Intake Stop log Gate	Size – 6.20m (W) x 7.50 m (H) – 1 No. with Moving Gantry
	b	Draft Tube Gates	High pressure steel type slide gates
	i	No. of Service gates per unit	5 Nos. - 7.0 m (W) x 8.5 m (H) for Larger Units & 2 Nos. - 5.1 m (W) x 6.2 m (H) for Smaller Units with Independent Hydraulic Hoist
	ii	No. of Stoplog gates per unit	1 No. - 7.0 m (W) x 8.5 m (H) for Larger Units & 1 No. - 5.1 m (W) x 6.2 m (H) for Smaller Units with Moving Gantry Crane
	c	Tailrace Outlet Structure	
	i	No. of Trash racks	7 nos.
	ii	No. of bays in each trash rack	2 nos. of 6.65m(W) x 10.87m(H) & 1 no. of 6.70m(W) x 10.87m(H) for each larger unit & 2 nos. of 5.20m(W) x 6.73m(H) + 1 no. of 6.60m(W) x 6.73m(H) for each smaller unit
13		Electro Mechanical Equipment	

i	Pump Turbine	Francis type, vertical shaft reversible pump turbine
ii	Total No of units	7 no's (5 X 240MW & 2 X 120 MW)
iii	Total Design Discharge (Turbine Mode)	1326.75 Cumec
iv	Rated Head in Turbine mode	121.70 m for larger unit & 121.00m for smaller unit
A	240 MW Turbines	
i	Total No of units	5 Units (Fixed speed)
ii	Turbine Design Discharge	220.91 Cumec
iii	Rated Head in Turbine Mode	121.70m
iv	Pump Capacity	251 MW
v	Rated Pumping Head	127.90 m
vi	Rated Pump Discharge	183.86 Cumec
vii	Synchronous speed	136.36 rpm
I	Generator-Motor	
a	Type	Three (3) phase, alternating current synchronous generator motor semi umbrella type with vertical shaft
b	Number of units	5 Units
c	Rated Capacity	Generator - 240 MW; Pump Input - 251 MW
d	Rated Voltage	18.00 KV
II	Main Power Transformer	
a	Type	Three Single Phase Power transformers with Off- Circuit tap changer (OCTC)
b	Number of units	15 Numbers (ie. 3 Nos./Unit)
c	Rated Capacity of each unit	Single Phase, 18KV/400 KV, 100 MVA
d	Rated Voltage	Primary - 18 kV; Secondary - 400 kV adjustable range of the secondary voltage: - 10% to +10% (3kV/tap)
B	120 MW Turbines	
i	Total No of units	2 Units (Variable speed)
ii	Turbine Design Discharge	111.10 Cumec
iii	Rated Head in Turbine Mode	121.00 m
iv	Pump Capacity	135 MW
v	Rated Pumping Head	128.70 m
vi	Rated Pump Discharge	98.16 Cumec
vii	Synchronous speed	187.50 rpm
I	Generator-Motor	
a	Type	Three(3) phase, alternating current asynchronous generator motor semi umbrella type with vertical shaft
b	Number of units	2 Units
c	Rated Capacity	Generator - 120 MW Pump Input - 135 MW
d	Rated Voltage	18 KV

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	II	Main Power Transformer	
	a	Type	Indoor, 3-Ph transformers with Off-Circuit tap changer (OCTC)
	b	Number of units	2 Units
	c	Rated Capacity of each unit	Each 160 MVA, 18KV/400 KV rating power transformers.
	d	Rated Voltage	Primary - 18 KV ; Secondary - 400 kV adjustable range of the secondary voltage: -10% to +10% (3kV/tap)
14		400 KV Gas Insulated Switchgear	
	a	Type of GIS	Indoor Type
	b	No. of GIS units	One No.
	c	Location	Inside GIS Building above ground
	d	Scheme	Double Busbar Arrangement with bus coupler
15		Power Evacuation	
	a	Voltage Level (KV)	400 KV
	b	No. of Transmission lines	One 400 KV transmission line with double circuit.
	c	Total Length	400 KV Double Circuit Transmission Lines with Moose conductor of length 81 Kms (app) from PSP will be connected to 400/ 220 KV PGCIL substation at Kota of Rajasthan State for evacuation of generated Power and for Supply of power during pumping mode
16		ESTIMATED COST	
	a	Civil Works	2797.67 Cr.
	b	E&M Works incl. Transmission line	1930.50 Cr.
	c	IDC & Others	2263.08 Cr.
		Total Project Cost with IDC	6991.25 r.

- (viii) **Ambient Air Quality:** Ambient Air Quality Monitoring was carried out at 6 locations in the study area. The level of pollutant observed at various sampling stations sites are well within the Residential & Rural area permissible limits of the National Ambient Air Quality Standard notified by CPCB.
- (ix) **Ambient Noise Levels:** The sound levels on an average value of 45.0 – 59.8 dB (day time observations), 34.1 – 45.1 db (Night time observation), 44.7 –57.2 db (day and night time observation) at residential area, 58.8 – 60.3 dB (day time observations), 44.4 – 45.5 db (Night time observation), 57.6 – 60.3 db (day and night time observation) at Residential/ Commercial area which are within the Ambient Noise Standards ranging from 55 dB(A) during day time in residential area to 65 dB(A) during day time in commercial area.
- (x) **Water:** Ground Water samples were collected 6 locations & Surface Water samples were collected 3 locations in the study area. According to WQI all the ground water samples fall in excellent ground water quality class and surface Water quality of Gandhi Sagar Reservoir is under Class 'B' i.e., Outdoor bathing (Organised) & Besala Pond sample falls in Class 'D' i.e., Propagation of Wildlife and Fisheries according to Water Quality Criteria of Central Pollution Control Board, Based upon CPCB guidelines

as well the WQI calculated above the water of Gandhi Sagar Reservoir and water bodies in the study area is safe for drinking only after conventional treatment and disinfection.

- (xi) **Flora:** Quadrat sampling was undertaken at 6 different locations for carrying out phyto- sociological surveys of the vegetation in the study area. Total numbers of plant species recorded were 207 including 53 species of trees, 60 species of shrubs, and 94 species of herb and grasses, according to the IUCN Redlist of Threatened Species (Version 2020-2), none of the plant species found in the study area falls under any Threatened category. *Ziziphus jujuba* is the only species recorded from most of the sampling sites in the study area. *Lantana camara*, *Calotropis gigantea*, *Carissa spinarum*, *Murrayakoenigii*, *Ipomoea carnea* and *Ziziphus nummularia* were the dominant shrub species found in the area.
- (xii) **Fauna:** As per IUCN Red list of Threatened Species (Version 2018.2) all the mammalian and avifaunal species reported from the area are under Least Concern (LC) category. During field surveys *Boselaphustragocamelu* (Blue bull), *Semnopithecus entellus* (Common Langur), *Herpestesedwardsii* (Indian Grey Mongoose), *Canis aureus* (Jackal), and *Funambuluspennantii* (Five-striped Palm Squirrel) and a total of 46 species of bird belonging to 14 orders was compiled based upon sighting during the field surveys.
- (xiii) As per secondary Survey and information gathered from the officials of the Neemuch Forest Division and their forest working plan following faunal/avifaunal species were listed under Schedule-I of the Indian Wildlife Protection Act (1972), viz. Leopard (*Panthera pardus*), Crocodile (*Crocodylus palustris*), Indian Peafowl (*Pavocristatus*), White-rumped Vulture (*Gyps bengalensis*), Indian Monitor lizard (*Varanus bengalensis*), and Indian Rock Python (*Python molurusmolurus*). PCCF-Cum-Chief Wildlife Warden, Bhopal has approved Bio-diversity Conservation and Wildlife Management Plan vide letter dated 21.06.2021 with a budgetary provision of Rs 166.90 Lakhs.
- (xiv) **Land Requirement:** The total land requirement for the project is 402.50 Ha, out of which 301.96 Ha land would be forest land and 100.54 Ha is Non-Forest Land (71.96Ha - Private & 28.58Ha - Government).
- (xv) **Ecological Sensitive Area:** Gandhi Sagar Wildlife Sanctuary is the nearest protected area located about 4km from the Project site. Chief Wildlife Warden, Govt of Madhya Pradesh has issued NOC vide dated 12-02-2021 that all project components are located outside the Sanctuary and also away from eco-sensitive zone.
- (xvi) **Muck Disposal Areas:** The total quantity of muck generated from soil and rock excavation is about 4.56Mcum. About 2.28Mcum of excavated muck are expected to be utilized for Rockfill and aggregate for construction. It is proposed to dispose of remaining quantity, considering 40% swell factor of 3.19Mcum at a pre-identified muck disposal site.
- (xvii) **Rehabilitation and Resettlement Plan:** The entire private land identified for the project falls in one revenue village namely Khemla Block, under Tehsil Rampura, District Neemuch. The private land proposed for procurement belongs to a total of 138 land owners. All the 138 families will be losing their agricultural land only and none of the families will be losing any house or any other assets. None of them is getting displaced due to the project from the above land procurement. The private land to be procured is un-irrigated agriculture land. The R&R Plan has been prepared in line with The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (RFCT_LARR) and The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (Madhya Pradesh) Rules, 2015.
- (xviii) **Environmental Management Plan:** An amount of Rs. 11944.74 lakhs have been

Proposal No. IA/MP/RIV/124890/2019

R. J.

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allocated for the implementation of Environmental Management Plan and Local Area Development Plan for the project is summarized in table as below:

S. No.	Component of EMP	Capital Cost (Rs. in lakh)	Recurring Cost (Rs. in lakh)				Total Cost (Rs. in lakh)
			Yr 1	Yr 2	Yr 3	Yr 4	
1	Compensatory Afforestation	7376.89					7376.89
2	Biodiversity Conservation & Wildlife Conservation Plan		72.60	39.20	31.80	23.30	166.90
3	Muck Dumping and Management Plan		221.87	223.87	168.75	26.5	640.99
4	Landscaping, Restoration of Quarry and Construction Sites		14.00	27.00	24.00	15.00	80.00
5	Sanitation and Solid Waste Management Plan	190.00	27.14	28.14	29.14	27.14	301.56
6	Public Health Delivery System	70.00	39.00	39.00	39.00	39.00	226.00
7	Energy Conservation Measures	67.00	42.00	42.00	42.00	42.00	235.00
8	Labour Management Plan	55.00	8.00	18.00	18.00	18.00	117.00
9	Green Belt Development Plan		14.30	16.30	6.80	4.00	41.40
10	Pollution Mitigation Measures		12.50	12.50	12.50	12.50	50.00
11	Environmental Monitoring Program		31.25	31.25	31.25	31.25	125.00
12	Rehabilitation and Resettlement Plan	809.00					809.00
13	Local Area Development Plan		350.00	400.00	400.00	350.00	1500.00
14	Disaster Management Plan	200.00	15.00	20.00	20.00	20.00	275.00
Total		8767.89	847.66	897.26	823.24	608.69	11944.74

- (xix) Project benefit: The Project is a renewable green source of energy and helps to reduce carbon foot print and create direct and In-direct economic opportunities. It is estimated that project would employ a workforce of about 4800 persons during the 3.5 years construction period and thereafter during project operation, permanent staff of about 200 persons will be employed. The project will create opportunities for skill development, education, better medical and health care, improved local infrastructure, etc. In addition, there are proposals for green belt development, restoration and greening of the project and surrounding area.
- (xx) Public hearing: Public Hearing was conducted by the Madhya Pradesh State Pollution Control Board, on 30.01.2021 at Panchayat Parisar, Village: Khemla Block, Tehsil: Rampura, District: Neemuch, Madhya Pradesh.
- (xxi) Status of other statutory clearances: For diversion of 301.96 ha of forest land, online application has been submitted to MoEF&CC vide proposal No.: FP/MP/HYD/116943/2020 dated 24.12.2020. The Diversion proposal has been recommended by State Govt. and forwarded the same to MOEF&CC vide 28.06.2021 for FAC recommendations and grant of Stage I approval.

5. The sectoral Expert Appraisal Committee after detailed deliberations in its 15th meeting held on 27th July 2021 through Video conferencing on the information submitted and as presented **recommended** the proposal for Environmental Clearance. Based on recommendation of EAC, Ministry, hereby accords approval for grant of Environmental Clearance to MP30 Gandhi Sagar Off Stream Pumped Storage Project (1440 MW) in an area of 402.50 ha by M/s Greenko Energies Private Limited in village Khemla Block, Tehsil Rampur, District Neemuch, Madhya Pradesh, under the provisions of EIA Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of applicable standard EC conditions and the following additional terms & conditions/specific conditions for environmental safeguards:

- (i) Safe and secured passage to empty the reservoir in case of leakage or any catastrophic events shall be carried out.
- (ii) Rain water harvesting shall be carried out. Surplus water and harvested rain water shall be used as irrigation in area
- (iii) Compensatory afforestation done by Forest Department, the survival rate of plants shall maintain more than 95%.
- (iv) PP shall ensure the Ambient Air Quality Monitoring Stations for real time data display and regularly submit to respective Ro, MoEF&CC.
- (v) The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP report. 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.
- (vi) The status of compliance will be submitted to the regional Office of the Ministry along with six monthly compliance report.
- (vii) A multi-specialty hospital to cater the need of people living within 10 km radius of the project shall be established.
- (viii) Solar lights and associated solar panels be provided to the families living in rural areas within 10 km radius of project
- (ix) Computer labs with internet facility shall be established in primary schools within 10 km radius of project.
- (x) Sport complex with multi- sport facility shall be established. The children's from economically weaker section shall be given free of cost sport facility.
- (xi) The Multi-Disciplinary Committee needs to be constituted and the meeting needs to be held at regular interval.
- (xii) PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis.
- (xiii) After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment. The study shall be undertaken by an independent agency.
- (xiv) 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.
- (xv) Necessary permission to be obtained for quarrying construction materials, if any required, for the project as per the EIA Notification, 2006 and as amended thereof.
- (xvi) Disposal of the excavated muck and its filling on the low-lying area with proper measures for the stabilization and greenery to minimize the impacts of the generated construction muck shall be taken up paripassu with construction work.

- (xvii) After detailed geological study of muck, re-utilization of muck during the construction of dam is to be carried out.
- (xviii) A detailed ecological monitoring and survey covering forestry, fisheries, wildlife and its habitat shall be done once in two years. Monitoring report shall be uploaded on the Parivesh Portal and a copy of the same be submitted to the Regional Office of MoEF&CC.
- (xix) 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.

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

Yours faithfully,

Y. P. Singh
1.12.2021
(Yogendra Pal Singh)
Scientist 'E'

Email id: yogendra78@nic.in
Tele fax: 01124695365

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi -110 001.
2. The Secretary, Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
3. The Principal Secretary (Water Resources Department), Government of Madhya Pradesh, Secretariat, Bhopal - 462 016.
4. The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal - 462 016.
5. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi - 110 066.
6. The DDG, Regional Office (WR), Ministry of Environment, Forest & Climate Change, Kendriya Paryavaran Bhavan, Link Road No-3, Ravi Shanker Nager, Bhopal - 462 016.
7. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462 016.
8. Guard File

Y. P. Singh
1.12.2021
(Yogendra Pal Singh)
Scientist 'E'

Proposal No. IA/MP/RIV/124890/2019

Validity unknown

Page 2
Digitally signed by Yogendra Pal Singh
Scientist E
Date: 12/2/2021 10:46:16 AM

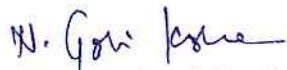
Annexure-11

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the Layout plan of the proposal shall not be changed without prior approval of the Central Government.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krushna



Annexure-12

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that No labour Camp will be established in the Forest Land.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-13

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes to provide firewood preferably alternate fuel to labourers working at the site to avoid any damage/tree felling in the forest area.

Date: 09/01/2023

Place: Hyderabad

N. Gopi Krishna
Name: N. Gopi Krishna

Authorized Signatory

Annexure-14

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that boundary of the diverted forest land will be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory



Annexure-15

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that no additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work without prior approval of State Government.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-16

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the period of diversion under this approval shall be co-terminus with the period of lease granted or the project life, whichever is less.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-17

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes to comply with all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project.

Date: 09/12/2022

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-18

Certificate of Undertaking

M/s. Greenko Energies Private hereby affirm and undertakes that the Total Forest area diverted shall not be used for any purpose other than those shown in diversion proposal.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-19

Certificate of Undertaking

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

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-20

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the violation of Stage-I conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.

Date: 09/01/2023

Place: Hyderabad


Name: N. Gopi Krishna

Authorized Signatory

Annexure-21

Certificate of Undertaking

M/s. Greenko Energies Private Limited hereby affirm and undertakes that the Ministry of Environment, Forests & Climate Change may stipulate any other conditions from time to time in the interest of conservation, protection and development of forests & wildlife.

Date: 09/01/2023

Place: Hyderabad

N. Gopi Krishna
Name: N. Gopi Krishna
Authorized Signatory