



भारत सरकार
GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE



क्षेत्रीय कार्यालय, गांधीनगर/ Regional Office, Gandhinagar

ए वींग- 407 एवं 409, "अरण्य भवन", सी.एच.-3 सर्किल के समीप, सेक्टर-10ए, गांधीनगर-382010 / A wing- 407 & 409, "ARANYA BHAWAN", Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010

Tel No: +9179-23255067 Email: iro.gandhingr-mefcc@gov.in

दिनांक: 06th फरवरी, 2024

सेवामें,
वन महानिरीक्षक/ Inspector General of Forests
आर.ओ.एच.क्यू./ ROHQ Division
MOEF&CC, New Delhi- 110003.

(ऑनलाईन क्रमांक FP/RJ/HYD/121439/2021)

विषय: Proposal for diversion of 407.8227 ha for construction of Shahpur (1800 MW) Pumped Storage Project by M/s Greenko Energies Private Limited, in Hanumanth Khera, Mungawali Villages, G.P.- Mundiyyar, Tehsil- Shahbad, Baran District of Rajasthan.

संदर्भ: अतिरिक्त वनमहानिदेशक द्वारा दिनांक 05.01.2024 को दिये गये निर्देश के क्रम में।
महोदय,

उपरोक्त विषय में संदर्भित द्वारा प्राप्त निर्देशानुसार अधोहस्ताक्षरकर्ता द्वारा Diversion Site एवं प्रस्तावित CA land का निरीक्षण किया गया था। निरीक्षण उपरान्त Site Inspection Report (SIR)/स्थल निरीक्षण प्रतिवेदन संलग्न कर अग्रिम कार्यवाही हेतु प्रेषित है।

संलग्नक: उपरोक्तानुसार

भवदीय,
06/02/2024
(श्रवण कुमार वर्मा / Shrawan Kumar Verma)
क्षेत्रीय अधिकारी / Regional Officer,
क्षेत्रीय कार्यालय, गांधीनगर/Regional Office, Gandhinagar

Site Inspection Report (SIR) for Proposal for diversion of 407.8227 ha for construction of Shahpur (1800 MW) Pumped Storage Project by M/s Greenko Energies Private Limited, in Hanumanth khera, Mungawali villages, G.P.-Mundiyyar, Tehsil-Shahbad, Baran District, Rajasthan.

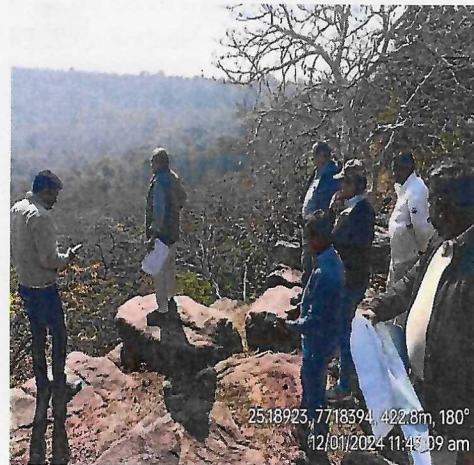
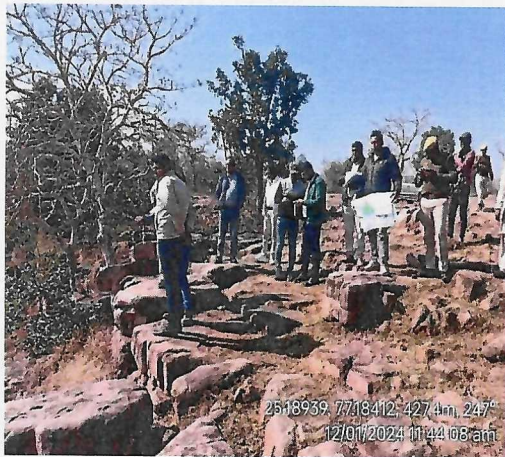
Proposal No: - FP/RJ/HYD/121439/2021, Proposed 407.8227 ha area for diversion is in Shahbad Range of Baran Forest Division and its Reserved Forest (Conservation Reserve).

User Agency: - Greenko Energies

The Site inspection for the proposal was carried out by the undersigned **Shrawan Kumar Verma, RO Gandhinagar**, with **Sudarshan Sharma, AIGF, SRO Jaipur** on **12th January 2024 (at Baran Project Site) and 24th & 25th January 2024 (at Jaisalmer CA Sites)**. The list of official presents during site inspection is provided below:

S.No	Official Presents	Districts Visited
1	Shri Deepak Gupta , DCF Baran	Baran District on 12th January 2024.
2	Shri Rambharosi Sahariya, AF	
3	Shri Bindu Sahariya, AF	
4	Shri Mo Hafeez, Range Officer	
5	Shri Siyaram Sahariya, Forest Guard	
6	Representatives of Grrenko Energies	
7	Shri Pankaj Gupta, DCF IGNP Jaisalmer	Jaisalmer District on 24th & 25th January 2024.
8	Shri Haduram, RFO Unit-VII	
9	Shri Ummed Singh, Forester	
10	Shri Madan Lal, RFO Unit-I	
11	Shri Jogendra Singh, Forest Guard	
12	Representatives of Grrenko Energies	

1. All the data as produced hereinafter is a convergence of perusal of available documents and other pertinent discussion during site inspection and relevant data from Government sources.
2. **The report of the site inspection is on prescribed Performa.**
3. **Project Location and CA Location Map and Photographs.**
 - i. **Project Location Map and Photograph:**



Shrawan Kumar Verma
06/02/2024



(Photos of Shabad)

- ii. The Proposed 431.03 Non Forest Land (NFL) for CA at Chak-SLM-3 Vill. – Ekalpar Tehsil- Jaisalmer No 1 and Vill. - Kolu Tala A, Chak -13,14,15 RMM & 5 RMSM, Tehsil- Ramgarh2



- iii. The Proposed 184.82 ha Degraded Forest Land (DFL) for CA at Forest Block Chak 8 NLD, Tehsil- Nachna no 2, Dist.- Jaisalmer



- iv. In addition to NFL and DFL land proposed for CA in Jaisalmer Forest Division the 408 ha DFL is also proposed for CA at Village-Bichi, Tehsil-Shahbad, Dist.-Baran in Baran Forest Division

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- 4. Short Narrative of the Project proposal with brief timeline of important events:**
1. Diversion of 407.8227 ha for construction of Shahpur (1800 MW) Pumped Storage Project by M/s Greenko Energies Private Limited, in Hanumanth khera, Mungawali villages, G.P.-Mundiyar, Tehsil-Shahbad, Baran District, Rajasthan.
 2. Project is located in Shahbad Range of Baran Forest Division.
 3. Proposal Uploaded by User agency on 03.02.2021.
 4. Proposal Received at Head Office on 28.09.2023.
 5. EDS Raised by MoEF&CC Head Office on 17.10.2023.
 6. Site Inspection Request – Direction by the ADG(FC) on 05.01.2024
- 5. Legal Status of the forest Land proposed for diversion:** Reserve Forest and Part of Shahbad Upreti Conservation Reserve.
- 6. Item wise break up details of the forest land proposed for diversion:**

District	Forest Division	Forest Block	Forest Land (ha)	Non-Forest Land (ha)
Baran	Baran Territorial	Baran	407.8227	216.3475
Village wise Breakup				
S.No	Village	Forest Land (ha)	Non-Forest Land in Ha	
1	Hanuwatkhera	102.6885	00	
2	Sajanpur	141.134	00	
3	Mungawali	0.6625	33.4325	
4	Shahpur	0	3.645	
5	Kaloni	163.3377	179.27	
Total		407.8227	216.3475	

- 7. Whether proposal involves any construction of buildings (including residential) or not. If yes, details thereof:** No. No construction of the building is proposed on forest land, but on 3.82 ha forest land Road is proposed from upper reservoir to lower reservoir. The breakup of the Forest land is shown as:

Component Wise Break-up			
S.No.	Component	Forest Land (Ha)	Non-Forest Land (Ha)
1.	Road Upper Reservoir to NH-76	0	8.205
2.	Upper Reservoir	110.2062	159.61
3.	Job Facilities Area	0	15
4.	Magazine (Explosive Storage Facility)	0	0.1
5.	Road From Upper Reservoir to Lower Reservoir	3.7775	0
6.	WCS & Powerhouse	57.225	0
7.	Lower Reservoir	230.514	0

8.	Pumping Alignment	2.28	0
9.	Road from Lower Reservoir to BT Road	3.82	2.7375
10.	Approach Road Lower reservoir to Muck Disposal Area	0	0.695
11.	Proposed Muck Disposal Area	0	30
Total		407.8227	216.3475

8. **Total Cost of Project at Present Rates: - Rs. 972176 Lacs**

9. **Wildlife: As per the part II submitted from the division the wildlife present in and around the proposed forest land diversion are: Leopard, Jackal, Hyaena, Jungle cat, , Fox, Wolf, Sloth bear ,Small civet, Ratel, Rabbit, Chital, Wild pig, Langur, Vulture, Nilgai, Peacock etc.**

10. **Vegetation: Density 0.4 Eco Class- III.**

11. **Nos of the tress to be felled girth wise: Based on 10% sampling which was extrapolated.**

- i) Girth less than 30 cm: **51505 trees.**
- ii) Girth between 31-60 cm: **37236 trees.**
- iii) Girth between 61-90 cm: **17872 trees.**
- iv) Girth between 91-120 cm: **8120 trees.**
- v) Girth between 121-150 cm: **2924 trees.**
- vi) Girth above 150 cm: **2102 trees.**
- vii) **Total Trees: 1,19759 trees (including 18809 trees in Water Conducting System (WCS) & Powerhouse area).**
- viii) **The 100% counting of trees done in Water Conducting System (WCS) & Powerhouse area for which enumeration of trees is as:**

0-30 cm	31-60 cm	61-90 cm	91-120 cm	121-150 cm	151 cm and above	Total no of trees
8872	7827	4671	2057	701	523	18809

This area is having very high density and also houses the large number of big trees of Salar (*Boswellia serrata*). The user agency has to carry the pipes underground to save these trees and this area will also serve the purpose of the continuity between two forest patches on either side of the project.

12. **Compensatory Afforestation (CA):** The Compensatory Afforestation (CA) is proposed on 413.03 ha Non-Forest Land (NFL) (Where on 700 trees/ha is possible to plant due to irrigated plantation) Ramgarh Tehsil and 184.82 ha DFL (for remaining trees to be planted) is proposed at Nachna Tehsil of Jaisalmer District. In addition to this an area of 408 ha DFL is also proposed at Shahbad tehsil of Baran District. The proposed NFL & DFL for CA land is suitable for planation as the area is close to Distributary of the IGNP Canal at Ramgarh (NFL) and Nachna (DFL) and requires irrigation. The details of these CA land is at following sites:

Sr. No.	Name of Forest Division	CA proposed in Area (Ha.)	Details of CA Scheme	Total Financial Outlay for CA

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				Scheme (Rs.)
1.	Jaisalmer Territorial	431.03 NFL	Chak-SLM-3 Vill. – Ekalpar Tehsil- Jaisalmer No 1 and Vill. - Kolu Tala A, Chak - 13,14,15 RMM & 5 RMSM, Tehsil- Ramgarh2	13,69,22,784/-
2.	Jaisalmer Territorial	184.82 DFL	Forest Block Chak 8 NLD, Tehsil- Nachna no 2, Dist.- Jaisalmer	4,31,69,124/-
3.	Baran Territorial	408 DFL	Village-Bichi, Tehsil- Shahbad, Dist.-Baran	6,44,97,162/-
Grand Total		1023.85		24,45,89,070/-
(Rupees Twenty-Four Crore, Fourty Five Lakh, Eighty Nine Thousand, Seventy Rupees) only.				

13. Whether land for compensatory afforestation is suitable for plantation and management point of view or not: Yes.
14. Whether land for compensatory afforestation is free from encroachment/other encumbrances: Yes.
15. Whether land for compensatory afforestation is important from religious/archaeological point of view: No.
16. Land identified for raising compensatory afforestation is in how many patches, whether patches are compact or not: Total 3 Patches (1 site of NFL Total area of 431.03 ha and 2 DFL sites of total area of 592.82 ha) and all are compact.
17. Total financial outlay: 24,45,89,070/-.
18. Whether proposal involves violation of Forest (Conservation) Act, 1980 or not: If yes, a detailed report on violation including action taken against the concerned officials- No Violation.
19. Whether the forest land proposed for diversion is located within eco-sensitive zone (ESZ) of the Protected Area notified under Wildlife (Protection) Act, 1972 (Note: In case, ESZ of a Protected Area is not notified, then, 10kms distance from boundary of the Protected Area should be treated as ESZ): Project located inside of Shahbad Upreti Conservation Reserve
20. Whether proposal involves rehabilitation of displaced persons: If yes, whether rehabilitation plan has been prepared by the state Government or not- NIL.
21. Cost- benefit ratio: Submitted Ratio is 0.02428.
22. Recommendation of the Principal Chief Conservator of Forest/ State Government- Recommended with conditions.
23. Utility of the project:
1. Employment Generation in the region.
 2. Economic Development
24. Numbers of Scheduled Caste/Scheduled Tribes to be benefited by the project- Regular Employment to 300 persons and temporary employment to 7281750 (number of Man-days).
25. Whether land being diverted have any socio-cultural/religious value: No

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26. Whether any sacred grove or very old growth trees/forests exist in the areas proposed for diversion- Yes, very old growth of the Salar (*Boswellia serrata*) is seen in Water Conducting System (WCS) & Powerhouse area in between to reservoirs, where the pipes have to be laid. If the pipes can be taken underground without disturbing these very good growth salar trees and save them.

27. Any other information relating to the project- EDS Raised by MoEF&CC Head Office New Delhi Dated 17.10.2023 and reply Given by Nodal officer is as follows:

S.No.	Query Raised by MoEF&CC Head Office	Reply By Nodal Officer
1.	The CAT Plan for the total catchment area of both the reservoir of 6.48 Sq.Km. and Wildlife Conservation Plan for Schedule-I species have been prepared towards instant proposal by R S Envirolink Technologies Pvt.Ltd. But it is not clear whether these plans have been approved by the competent authority as per prescribed guidelines or not. Therefore, this needs to be clarified and copy of approval of the competent authority needs to be submitted.	MoEF&CC/EAc (IA division), while granting ToR vide letter dated 13.04.2020 has inter-alia observed that instant project being the Pump storage project and standalone in nature and upper reservoir is located away from the existing natural water systems and have no/negligible catchment area. Therefore, CAT Plan, RIM treatment, L section of river and Environmental flow study will not be required. However, for an area of about 6.48 Sq.Km, Soil Erosion Treatment Plan was prepared as a precautionary reclamation measure in consultation with DFO, Baran for control of soil erosion, if required. This plan duly approved by concerned DCF, Baran. As per CWLW letter dated 18-01-2024, Approval of wildlife conservation plan is in process.
2.	Satellite imagery of the proposed diversion shows that the plantation work was carried out in the past at the Segment-7 (3.82 ha.) and there is presence of Agriculture land in the forest area proposed for diversion. The same needs clarification.	उक्त संबंध में सेटेलाईट ईमेजरी के अनुसार प्रस्तावित भूमि के सेगमेंट-7 (3.82 है0) पर पूर्व में प्लान्टेशन कार्य नहीं हुआ है। जबकि निचले जलाशय के क्षेत्र में पुराना प्लान्टेशन नोनेरा (वर्ष 2007 में सृजित) है जिसका क्षेत्रफल 26 है0 क्षेत्र है। यूजर एजेन्सी द्वारा प्लान्टेशन में खर्च की गई राशि का भूगतान करने संबंधी अण्डर टैकिंग संलग्न की गई है। उक्त संबंध में सेटेलाईट ईमेजरी के अनुसार प्रस्तावित भूमि में दिख रही कृषि भूमि अतिक्रमण है परन्तु थ्रुतमेज त्पहीज। बज व संदक त्मअमदनम। बज 91 से मुक्त हैं।
3.	Satellite imagery of proposed CA area over	User Agency will ensure that the non-forest land (Private Land) proposed by the UA towards CA in Jaisalmer shall

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	<p>non-forest land of Ekalpar and Kolu Tala villages in patch No 12 & 16 under Jaisalmer District shows the presence of settlements. Also, Satellite imagery of the RDF patches for CA under Baran district are showing the encroachment for Agriculture land having few built-up areas as well. The State Govt. shall ensure that the area proposed for CA is free from all encumbrances</p>	<p>be acquired and registered in the name of the UA before transferring / muted to the State Govt. All encroachments, if any shall be removed and shall be handover to the State Govt. free from all encumbrances. Proper protection will be done for CA land (non-forest land and Forest Land).</p>
4.	<p>The State Govt. has not provided the complete KML file of non-forest land involved in the project. The same needs to be furnished.</p>	<p>KML file for non-forest land has already submitted in Part-I.</p>
5.	<p>In the component wise break-up, an area of 57.225 ha forest land has been proposed for the WCS & Powerhouse which is a huge area and no breakup of the same has been given. Therefore, the details of each component involved in the said area with justification. may be provided.</p>	<p>User Agency submitted justification note an area of 57.225 ha forest land proposed for the WCS & Powerhouse in enclosed at Annexure-1. Further, it is pertinent to submit that out of 57.225 ha, an area of 9.756 ha forest land in WCS/PH shall be surrender to the State Govt. after completion of the Construction activity.</p>
6.	<p>The suitability certificates for CA area proposed over the NFL and DFL located under 8-25-2023-FC I/55580/2023 the</p>	<p>CA land is suitable for raising of plantation copy of letter of concerning CCF and DCF is attached. (CCF Jodhpur letter dated 10.11.2023).</p>

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	Jaisalmer District are given. However, the proposed CA area appears to be in sand dunes, which may not be suitable for raising plantation and its survival. Therefore, the State Govt. shall re-examine the suitability of the NFL provided for CA and ensure that the area proposed is suitable for raising plantation.	
7.	State shall clarify as to how the requirement of electricity will be met by the user agency to run project and its components. The detail of forest area required for the purpose (if any) shall be submitted.	User Agency has informed that to run project and its components. Power will be met from existing grid power available at the site. Further, alignment will be chosen in such a way that proposed line pass through non-forest land or that the barest minimum forest land is involved for the transmission line.
8.	The detailed plan for evacuation and transmission of power so generated from this project shall be submitted.	User Agency has informed that the evacuation and transmission of power from Shahpur Pumper Storage Project is yet to be finalized. The Company is in the process of discussion in PGCIL for allotment of suitable evacuation point. As per user agency letter dated 26/12/2023. Various alternate alignment for the transmission line will be studied in detail and optimal alignment will be chosen in such a way that proposed line shall pass through non-forest land or that the barest minimum forest land is involved for the transmission line
9.	The status of muck disposal plan shall be submitted.	Much Disposal Plan has already submitted in Part-I. Copy of Muck Disposal Plan is again submitted for perusal.
10.	The State Govt. has reported that the proposed forest land for diversion is located within the notified conservation reserve	Comments form Chief Wildlife Warden, Rajasthan is enclosed (CWLW letter dated 19.01.2024)

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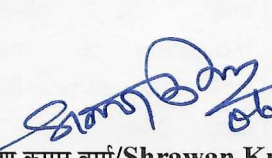
	"Shahbad upreti". Moreover, King vulture is also reported in the area as per the site inspection report of CCF/DCF. Therefore, the comments of the CWLW in this regard needs submission.	
11.	In Part-1 of the application, many of the documents uploaded against the Copy of ownership proof of CA land and the Copy of MoU/agreement executed between the Present owner and the User Agency are either not legible or the same are not commensurate with the requirement. The State Govt shall therefore ensure to submit the legible copies of the ownership proof of CA land and the MoU/agreement executed between the Present owner and the User Agency. The copy of revenue documents and an abstract indicating the owner wise detail of non-forest land shall also be submitted.	Revenue Record of Non-Forest land for raising compensatory afforestation is attached.
12.	Satellite imagery shows that, a road is passing through the forest land wherein a component i.e., Upper Reservoir has been proposed. The	इस संबंध में सेटेलाईट ईमेजरी के अनुसार प्रस्तावित वन भूमि में जो मार्ग वह कलोनी गांव से वन क्षेत्र में से होते हुए जाता है। इस प्रोजेक्ट के बनने से ग्रामवासीयों का आवागमन बाधित नहीं होगा।

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06/11/2024

	<p>status of the same shall be submitted. Further, the connectivity of the local people may be hampered in case said road is submerged. In this regard, the comments of the State Govt. are required to be submitted.</p>	
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28. Recommendations of the site inspecting officer: The proposal for diversion of 407.8227 ha for construction of Shahpur (1800 MW) Pumped Storage Project by M/s Greenko Energies Private Limited, in Hanumanth khera, Mungawali villages, G.P.-Mundiyar, Tehsil-Shahbad, Baran District, Rajasthan is **recommended with following specific conditions:**

- i) Proper construction of wall/fencing shall be done at the cost of user agency along the boundary of the Non-Forest Land (NFL) and DFL proposed for CA to prevent encroachment.
- ii) The User Agency shall provide at its cost the required no of solar pumps as given by the Forest Department for irrigating the CA Plantation.
- iii) The User Agency will not use the diverted forest land for construction of building and other non-site-specific activities.
- iv) Muck will not be disposed on Forest/Charagah land outside the proposed diversion land.
- v) The 30 ha non-forest land proposed for muck disposal shall be planted with local species and maintained as green cover after completion of the project and handed over to forest department.
- vi) In Water Conducting System (WCS) & Powerhouse area the pipes shall be taken underground to save 18809 trees and this area will also serve the purpose of the continuity between two forest patches on either side of the project.


 06/02/2024

(श्रवण कुमार वर्मा/Shrawan Kumar Verma)
क्षेत्रीय अधिकारी/Regional Officer (RO)

क्षेत्रीय कार्यालय गांधीनगर/Regional Officer Gandhinagar