Greenko Energies Private Limited
(CIN: U40109TG2000FTC034990)

Ref: GEPL/Nodal Officer/Forest-SPSP/210619 **Dated 19.06.2021**

To,

Add. Principal Chief Conservator of Forest
Cum FCA Nodal Officer,
Aranaya Bhawan, Jhalana Institutional Area
Jaipur (Rajasthan)

Subject : Diversion of 540.1769 ha. forest land for the development of Shahpur (2520 MW) Pumped Storage Project by M/s Greenko Energies Private Limited (Proposal No. FP/RJ/HYD/121439/2021)-Submission of Reply to Online EDS dated 25.03.2021-regarding

Ref : Your Office Online EDS dated 25-03.2021

Dear Sir,

With reference to above mentioned subject matter, point wise reply to the clarifications sought vide above referred online EDS is herewith attached at **Annexure-1** for your kind information and further processing.

Thanking you,
Yours faithfully,

For M/s **Greenko Energies Pvt. Ltd.**

Greenko Energies Private Ltd.

Authorized Signatory

Encl: As above

Annexure-1

Full title of the Project	:	Construction of Shahpur (2520 MW) Pumped Storage Project by M/s Greenko Energies Private Limited, in Hanumanthkhera, Mungawali villages, G.P-Subhdhara; Baint Village, G.P-Bichi; Sahjanpur, Ballarpur Villages, G.P-Kasba Nonera; Kaloni, Shahpur Villages, G.P-Mundiyar; Tehsil-Shahbad; Baran District, Rajasthan.
Proposal no	:	**FP/RJ/HYD/121439/2021**
Date of Proposal	:	03-02-2021
Diversion Area	:	540.1769 Ha

Reply to the additional Information/Clarifications sought by Additional Principal Chief Conservator of Forests (Forest Conservation) and Nodal Officer (FCA).

S. No.	EDS Observation	Reply
1.	No sanction from water resource or energy department is uploaded	We have received the in-principle approval from Water Resources Department, which we understand has already been shared with you by BIP in its communication to Forest Dept. addressed to Principal Secretary, Forest Dept. The same has been uploaded in Part-I as add. documents.
2.	The proposal is self-identified; it should be submitted or technically examined by govt. department.	We hereby undertake that Pumped Storage Project is site specific as the site selection directly correlates with the relative levels of the proposed reservoirs (both upper and lower reservoirs) and source of water (River Kunnu). Detailed analysis and site Selection criteria have also been enclosed as **Annexure-2** for your perusal.
3.	The proposal should be technically verified by WR or energy department	We hereby undertake that Proposed Project is technically viable and hence, Water Resource Department has issued the in-principle approval and RREC (Rajasthan Renewable Energy Corporation), which is the nodal agency for promotion of Renewable Energy based projects in the State of Rajasthan) under Dept. of Energy, Govt. of Rajasthan has approved Registration of the project and also bring to your kind notice that, this size of projects are evaluated by CEA/CWC and that exercise starts once we complete investigation and submit DPR for verification/checking.
4.	The proposal is not a site specific. It may be taken up at non forest land. Please explore it.	We hereby undertake that our Pumped Storage Project can be established only on such locations where there is significant level difference or head of about 100m or more between the upper and

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S. No.	EDS Observation	Reply
		lower reservoirs in close proximity for the purpose of storage of water and the source of water is also available in close proximity. Detailed analysis is enclosed for your perusal at **Annexure-2**

Greenko Energies Private Ltd.

N. Gopi Krishna

Date: 19/06/2021

Place: Hyderabad

Signature of User Agency

with Office

Shahpur PSP- Note on location of Project on Forest Land

This is regarding observation raised on site selection of proposed PSP and location in Forest Land, we would like to express that these PSP projects have very stringent site-specific requirements and thus only can only be developed at very few specific locations only. As regards location on Forest land, Rajasthan has very peculiar conditions w.r.t. available water bodies and forest land (which we have elaborated later in this note) because of which it is impossible to locate Pumped Storage Projects in the non-forest land area. Point wise detailed reply is as under:

Regarding site specific project

With reference to your observations, we would still like to clarify that the Pumped storage projects are site specific projects as requirements for the project are quite stringent from following point of view:

- Topographical
- Geological
- Availability of water Source
- Techno Commercial viability

Further, the requirements of Pumped Storage Projects are as below:

- This requires suitable topography where substantial elevation difference is available at close distance that means two level areas connected by steep sloping hills.
- These locations of elevation difference shall be suitable to create reservoirs of required capacity.
- Both these reservoir locations shall be of acceptable geology to be capable of storing water for long duration.
- Since this project requires water to store energy, a water source with sufficient capacity to fill up the reservoir and to supply for losses during operation shall also be available in close vicinity.
- Since these projects operate at around 80% cycle efficiency (i.e., they consume 100 units for 80 units produced) thus techno commercial suitability is also one of most important aspect of selection of these sites.

Keeping all this in view we had studied number of locations in Rajasthan and converged to three projects (location map enclosed as **Annex 2A**) but after evaluation this Shahpur PSP was taken up for implementation and submission is as under:

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- We had identified **One project in Chittorgarh Distt** and applied for its implementation also but after detailed investigation, the geology of lower reservoir was found to be vulnerable wherein the strata was not found competent to create watertight reservoir and thus that project was not taken up further. Details of project along with location map are appended as **Annex 2B.**

- **Second Project was also identified in Chittorgarh Distt.,** but was discarded during PFR stage because of two reasons:

    - Forest land requirement was very high as both upper and lower reservoirs were located mostly in forest land.
    - Water source was not having enough required for the project. Details enclosed as **Annex 2C.**

In view of above we would like to express that present project has been firmed up after looking at number of sites and this particular site is best suited for this project keeping in view all site-specific requirements of the project.

Regarding project location in Forest Land

While converging on this project we had explored vast area in Rajasthan wherever there was possibility of location of Pumped storage project keeping in view the site-specific requirements of these projects.

During our scanning and evaluation, following observations were made:

1) Location of project near water source i.e., existing big reservoir or a major river as key parameter because of Rajasthan being water deficient state.

    - Possibility was explored to locate our project near existing big reservoirs so that we need to construct only one reservoir for the project. Wherever we were able to get other suitable conditions It was observed that areas around all such big reservoirs havebeen declared as protected areas (e.g. Rana Pratap Sagar, Jaismand lake, Bislapur Reservoir & Mahi Reservoir, etc.) and therefore project location is not possible in those areas.
    - Possibility was explored near major rivers Mahi & Chambal (andits tributaries) and it was observed that most of the area along Chambal river is forest/ protected area and there is a possibility only around some tributaries provided other requirements are being met, while no suitable locations are available in Mahi River area.

2) No National Park, Wildlife Sanctuary, Tiger Reserve and Wildlife Conservation Plan is located near the Proposed Project Site. Also, there is no migratory route of wildlife identified near the proposed site.

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3) The specified area is suitable for Pumped Storage Project is mostly composed of degraded forest land. Therefore, loss of forest and biodiversity would be least / minimum.

4) Forest land proposed for diversion is located at edge of the forest blocks, therefore forest diversion would not lead to any fragmentation of forest land.

5) Due to the proposed project, forest losses cannot be accurately estimated or ascertained. However to compensate for the forest losses, equal non-forest land would be provided by the User Agency to comply with Compensatory Afforestation scheme along with the payment of appropriate NPV in compliance with FCA 1980 and MOEF&CC guidelines and about 5,40,000 plants would be planted at the cost of user agency as per the CA norms.

6) Maximum number of plants would be planted at the project site for maintaining greenery in campus.

7) Proposed Site is approachable and can be connected through approach road from National Highway-76, which is located at approx. 3 km. distance from the proposed site.

8) Even with extreme consideration of diversion of minimum forest land and other environmental factors, the requirement of forest land is unavoidable for the construction of the project under proposal.

9) There is no public scheme on the area proposed for diversion or going to be affected due to the diversion of this forest land.

10) Most of the steeply sloping area, i.e., area with large elevation difference of about 100m to 150m which is ideal for setting up of Pumped Storage Projects and area in the close vicinity of such discovered steeply sloping area were discovered to be forest lands.

11) Most of the highland areas in Rajasthan have been declared as Protected Areas whereas some other locations are identified as Mining Areas, thus further restricting the selection of suitable sites for Pumped Storage Project.

While going through the available details of other PSPs that are either operational or under implementation across the country, we observed that all these projects are also having substantial component of the forest land (table is enclosed as **Annex 2D**), which amply clarifies that it would NOT be possible for locating Pumped Storage Projects away from forest lands because of the site specific requirements of these type of projects.

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Thus, we have been able to conclude that the proposed location is the most suitable site due to the available elevation difference of about 157m and the area required for the construction of the upper and lower reservoirs are in close vicinity. Considering the above conditions and suitability of the site, we have been able to propose setting up of this project at this particular location with minimized forest land requirement by carefully planning the layout of the project.
Digital Elevation Model (DEM) of the site is enclosed as **Annex 2E.**

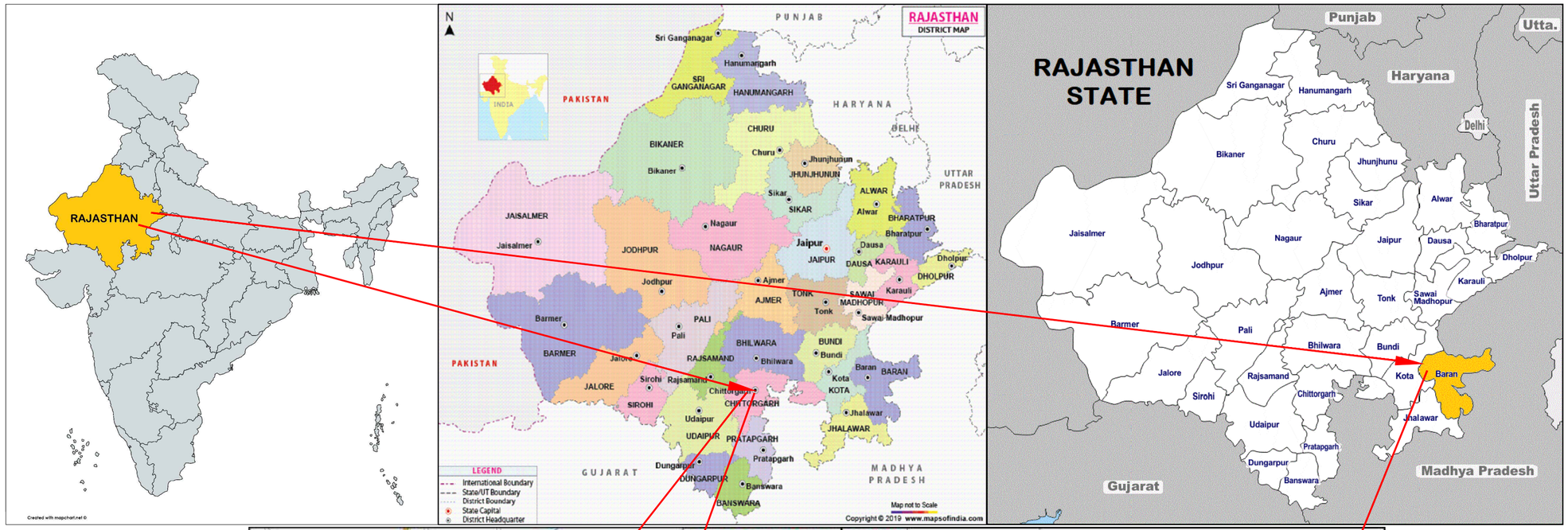
Total land required for Shahpur PSP is enclosed as **Annex 2F.**

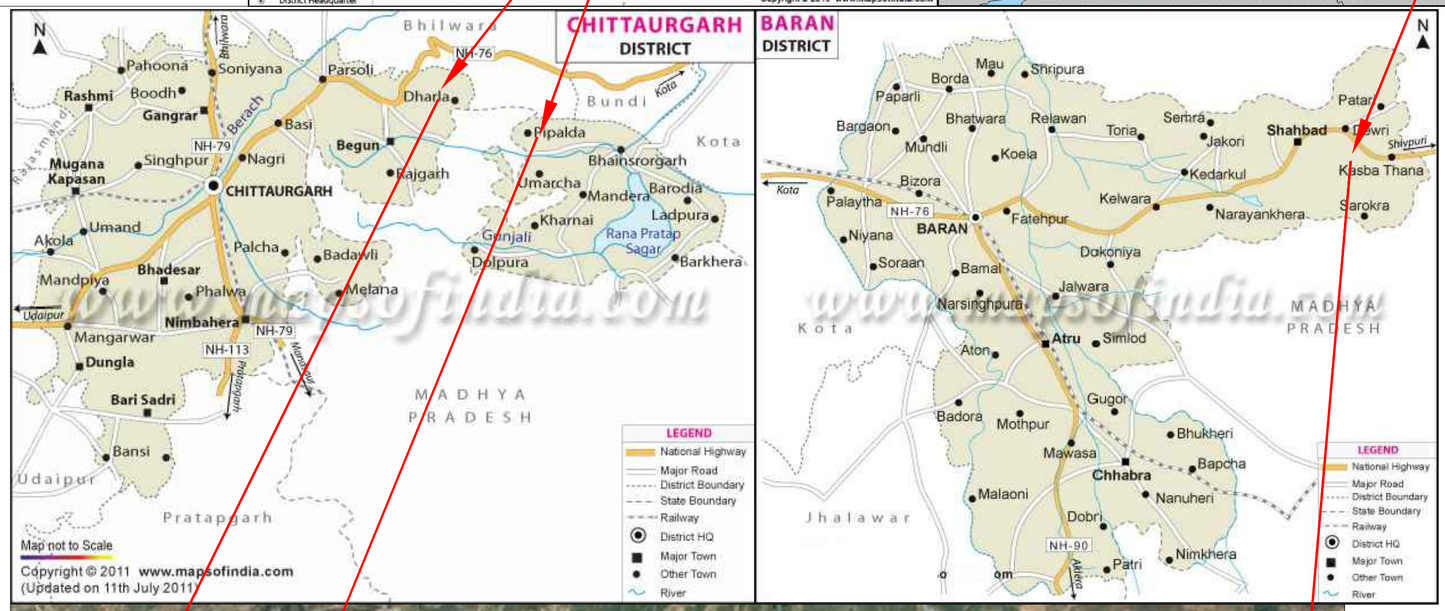
Benefits under Customized Package for the Proposed Project, as approved by the Govt. of Rajasthan, is included at **Annex 2G.**

Further, copy of Communication from RRECL addressed to Addl. PCCF-cum-Nodal Officer (FCA) dt. 15.06.2021 in response to the clarification sought by you is appended as **Annex 2H.**

Greenko Energies Private Ltd.

ANNEXURE-2A

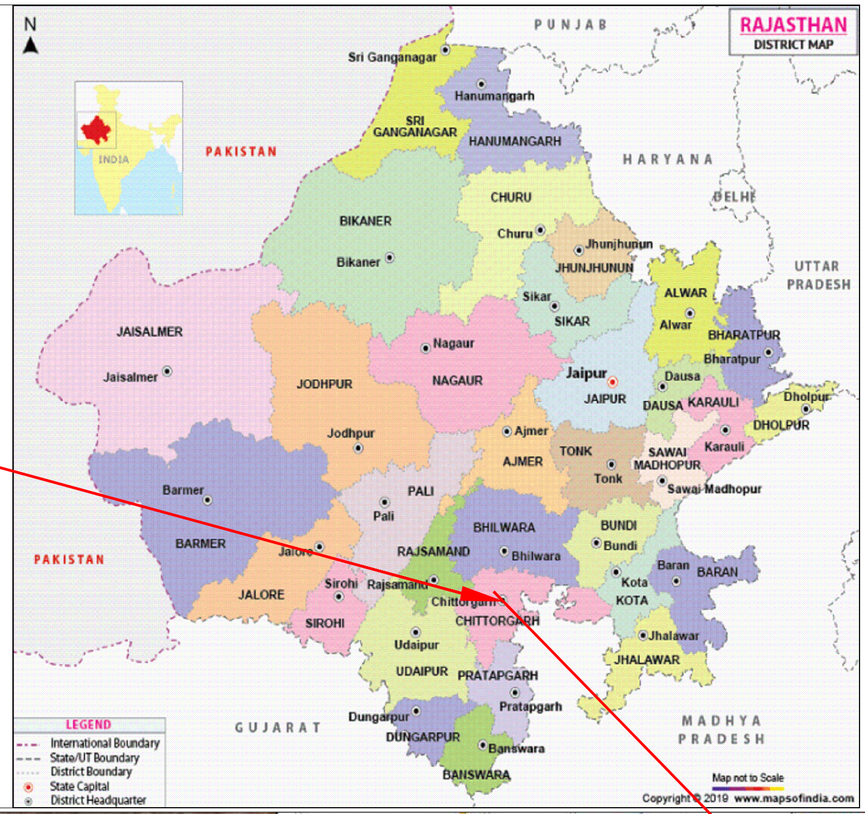


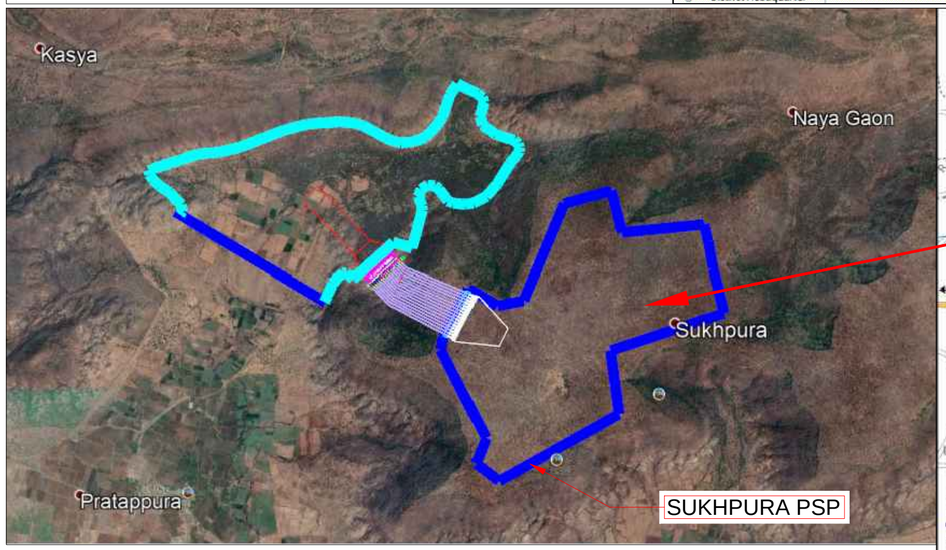


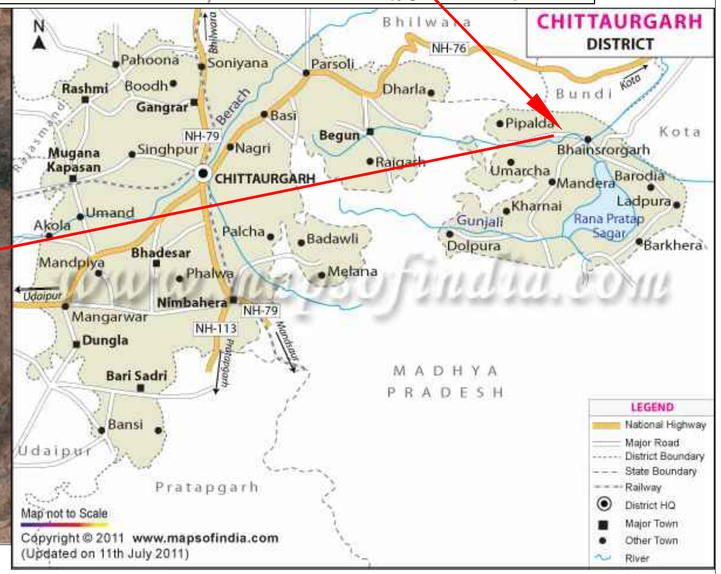
OWNER:	GREENKO ENERGIES PVT. LTD
PROJECT:	SHAHPUR, SUKHPURA & TEEKHI KHERA STANDALONE PUMPED STORAGE PROJECT
DRAWING TITLE:	PROJECT LOCATION MAP

PRINT SIZE	DATE	DRAWING NO.	REV.	SHEET NO.
A3	16.04.21	S, S & T - PSP-001	0	1 OF 1

ANNEXURE - 2B







OWNER:	GREENKO ENERGIES PVT. LTD
PROJECT:	SUKHPURA STANDALONE PUMPED STORAGE PROJECT
DRAWING TITLE:	PROJECT LOCATION MAP

PRINT SIZE	DATE	DRAWING NO.	REV.	SHEET NO.
A3	16.04.21	SUKHPURA - PSP-001	0	1 OF 1

Sukhpura PSP (5040 MW) - LAND REQUIREMENT Details

S. No.	Project Components	Forest (Ha)	Non-Forest (Ha)	Total Land Area (Ha)
1	Upper Reservoir	350.09	0.00	350.09
2	Lower Reservoir	324.43	55.32	379.75
3	Approach Road to Intake, VPS	5.97	1.40	7.37
4	Adit	0.98	0.00	0.98
5	WCS, PH, TRC	54.02	0.00	54.02
6	Job Facilities Area	0.00	25.00	25.00
7	Muck Disposal area	0.00	40.00	40.00
8	Magazine	0.00	0.10	0.10
	TOTAL	**735.49**	**121.82**	**857.31**

SUKHPURA STANDALONE PUMPED STORAGE PROJECT (5040 MW)

SALIENT FEATURES OF THE PROJECT

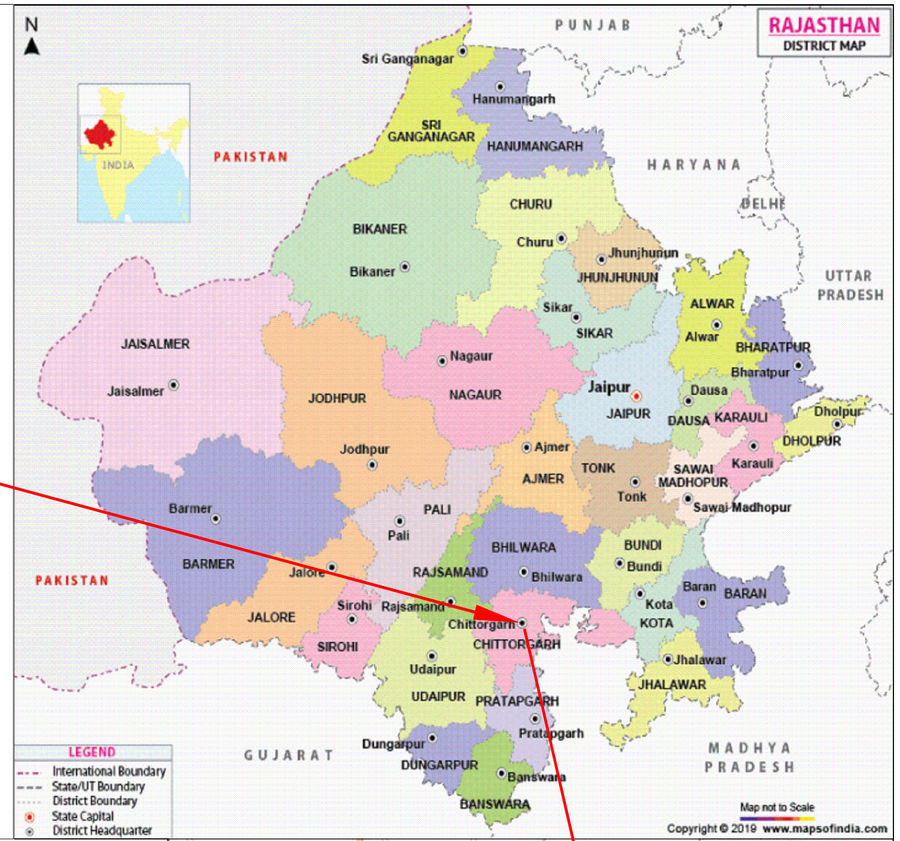
1		**NAME OF THE PROJECT**	**Sukhpura Standalone Pumped Storage Project**
2		**Location**	
	a	Country	India
	b	State	Rajasthan
	c	District	Chittorgarh
	d	Village	Sukhpura
3		**Geographical Co-Ordinates**	
	a	**Sukhpura Standalone PSP Upper Reservoir - (Now Proposed)**	
		Latitude	24° 59' 57.76" N
		Longitude	75°23'40.22"E
	b	**Sukhpura Standalone PSP Lower Reservoir - (Now Proposed)**	
		Latitude	25° 0' 15.54" N
		Longitude	75° 23' 10.24" E
4		**Access to Project Site**	
	a	Airport	Maharana Pratap Airport (6Km from Dabok)
	b	Rail head	Mandalgarh railway station
	c	Road	NH27 (Mandalgarh - Salawatiya Road)
	d	Port	Deendayal
5		**Project**	
	a	Type	Standalone Pumped Storage Project
	b	Storage Capacity	30240 MWH
	c	Rating	5040 MW

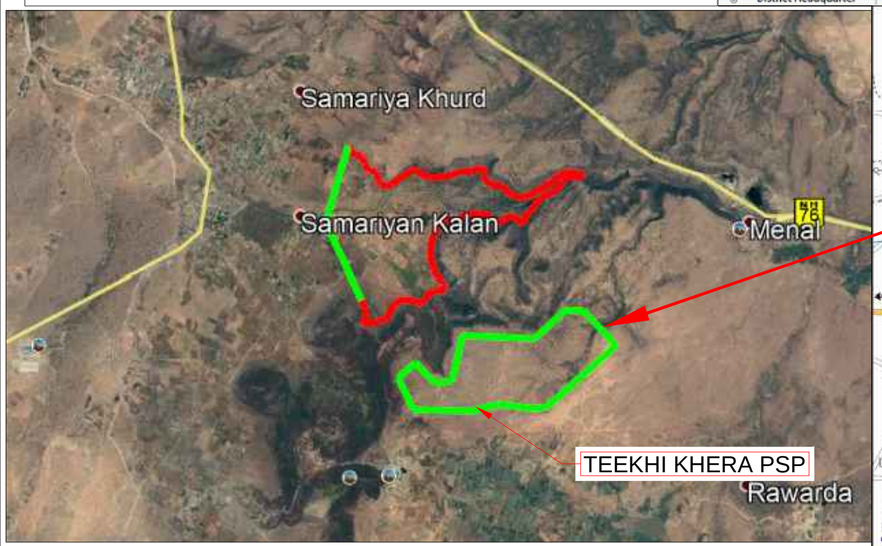
	d	Peak operation duration	6 Hours
6		**Sukhpura Upper Reservoir - (Proposed)**	
	a	Live Storage	2.43 TMC
	b	Dead Storage	0.10 TMC
	c	Gross Storage	2.53 TMC
	d	Top of Embankment	EL +610.00 m
	e	Full Reservoir level (FRL)	EL +607.00 m
	f	Min. Draw Down Level (MDDL)	EL +580.00m
	g	Type	Rock fill Embankment with central clay core
	h	Max. Height of Rockfill Embankment	40.00 m
	i	Length at the top of Rockfill Embankment	8786 m
7		**Sukhpura Lower Reservoir – (Proposed)**	
	a	Live Storage	2.43 TMC
	b	Dead Storage	0.05 TMC
	c	Gross Storage	2.48 TMC
	d	Top Bund Level (TBL)	EL +428.00 m
	e	Full Reservoir level (FRL)	EL +425.00 m
	f	Min. Draw Down Level (MDDL)	EL +395.00m
	g	Type	Rock fill Embankment with central clay core
	h	Max. Height of Rockfill Embankment	38 m
	i	Length at the top of Rockfill Embankment	1688 m
8		**Intake Structure**	
	a	Type	Diffuser Type
	b	Elevation of Intake centre line	EL +567.82 m

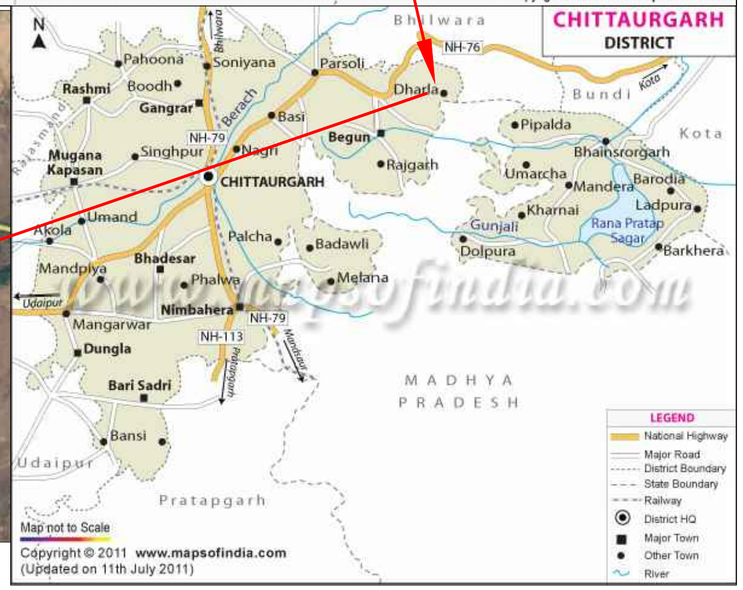
	c	Design Discharge of each Intake (Turbine mode)	197.68 Cumec
	d	Trash rack type	Vertical with inclination of 15°
9		**Penstock/Pressure Shafts**	
	a	Type	Circular
	b	Number of Penstock	16 Nos.
	c	Diameter of Penstock	7.0 m dia.
	d	Length of Penstock / Pressure Shaft	939 m
	e	Design Discharge of each Penstock	197.68 Cumec
10		**Powerhouse**	
	a	Type	Surface Powerhouse
	b	Centre line of Unit	EL 360.00 m
	c	Dimensions including Service Bay	L 400.00m x B 25.50 m x H 51.90 m
11		**Tail Race Outlet**	
	a	Type	Inclined
	b	No. of Outlet	16 Nos.
	c	Elevation of Outlet Centre line	EL +372.77 m
	d	Trash rack Type	Vertical with inclination of 15°
12		**Electro-Mechanical Equipment**	
	a	Pump Turbine	Francis type, vertical shaft reversible pump-turbine
	b	Total No of units	16 nos. (16 X 315 MW)
	c	Total Design Discharge (Turbine Mode)	3162.87 Cumec
	d	Turbine Capacity	315 MW
	e	Turbine Design Discharge	197.68 Cumec for each unit
	f	Rated Head in Turbine Mode	178.5 m
	g	Pump Capacity	330 MW

	h	Rated Head in Pumping Mode	189.50 m

ANNEXURE - 2C







OWNER:	GREENKO ENERGIES PVT. LTD
PROJECT:	TEEKHI KHERA STANDALONE PUMPED STORAGE PROJECT
DRAWING TITLE:	PROJECT LOCATION MAP

PRINT SIZE	DATE	DRAWING NO.	REV.	SHEET NO.
A3	16.04.21	TEEKHI KHERA - PSP-001	0	1 OF 1

TEEKHI KHERA PSP (2000 MW) - LAND REQUIREMENT DETAILS				
S.No	**Project Components**	**Forest (Ha)**	**Non - Forest (Ha)**	**Total Area (Ha)**
1	Upper Reservoir	403.30	0	403.30
2	Lower Reservoir including TRC	294.70	126.65	421.35
3	WCS, PH	22.46	0	22.46
4	Approach Road including Adits And Magazine	25.00	0	25.00
5	Job Facilities Area	15.00	0	15.00
6	Muck Disposal area	15.00	0	15.00
	TOTAL	**775.46**	**126.65**	**902.11**

TEEKHI KHERA STANDALONE PUMPED STORAGE PROJECT (2000 MW)

SALIENT FEATURES OF THE PROJECT

1		**NAME OF THE PROJECT**	**Teekhi khera Standalone Pumped Storage Project**
2		**Location**	
	a	Country	India
	b	State	Rajasthan
	c	District	Chittorgarh
	d	Village	Teekhi khera
3		**Geographical Co-Ordinates**	
	a	**Teekhi khera Standalone PSP Upper Reservoir - (Now Proposed)**	
		Latitude	25° 4' 26.87" N
		Longitude	75° 8' 9.88"E
	b	**Teekhi khera Standalone PSP Lower Reservoir - (Now Proposed)**	
		Latitude	25° 5' 36.44" N
		Longitude	75° 7' 16.80" E
4		**Access to Project Site**	
	a	Airport	Maharana Pratap Airport (6Km from Dabok)
	b	Rail head	Mandalgarh railway station
	c	Road	NH27 (Menal - Salawatiya Road)
	d	Port	Deendayal
5		**Project**	
	a	Type	Standalone Pumped Storage Project
	b	Storage Capacity	16212 MWH
	c	Rating	2000 MW

	d	Peak operation duration	8.11 Hours
6		**Teekhi khera Upper Reservoir - (Proposed)**	
	a	Live Storage	1.48 TMC
	b	Dead Storage	0.37 TMC
	c	Gross Storage	1.85 TMC
	d	Top of Embankment	EL +588.00 m
	e	Full Reservoir level (FRL)	EL +585.00 m
	f	Min. Draw Down Level (MDDL)	EL +565.00m
	g	Type	Rock fill Embankment with central clay core
	h	Max. Height of Rockfill Embankment	48.00 m
	i	Length at the top of Rockfill Embankment	8424 m
	g	Top width of the Rockfill Embankment	10.0 m
7		**Teekhi khera Lower Reservoir – (Proposed)**	
	a	Live Storage	1.51 TMC
	b	Dead Storage	0.20 TMC
	c	Gross Storage	1.71 TMC
	d	Top Bund Level (TBL)	EL +426.00 m
	e	Full Reservoir level (FRL)	EL +423.00 m
	f	Min. Draw Down Level (MDDL)	EL +405.00m
	g	Type	Rock fill Embankment with central clay core
	h	Max. Height of Rockfill Embankment	31 m
	i	Length at the top of Rockfill Embankment	2526 m
8		**Intake Structure**	
	a	Type	Diffuser Type

	b	Elevation of Intake centre line	EL +552.90 m
	g	Design Discharge of each Intake (Turbine mode)	179.52 Cumec
	h	Trash rack type	Vertical with inclination of 15°
9		**Penstock/Pressure Shafts**	
	a	Type	Circular
	b	Number of Penstock	8 Nos.
	c	Diameter of Penstock	6.5 m dia.
	d	Length of Penstock / Pressure Shaft	855 m
		Design Discharge of each Penstock	179.52 Cumec
10		**Powerhouse**	
	a	Type	Surface Powerhouse
	b	Centre line of Unit	EL 375.00 m
	c	Dimensions including Service Bay	L 222.00m x B 25.50 m x H 51.90 m
11		**Tail Race Outlet**	
	a	Type	Inclined
	b	No. of Outlet	8 Nos.
	c	Elevation of Outlet Centre line	EL +367.00 m
	d	Trash rack Type	Vertical with inclination of 15°
12		**Electro Mechanical Equipment**	
	a	Pump Turbine	Francis type, vertical shaft reversible pump-turbine
	b	Total No of units	8 nos. (8 X 250 MW)
	c	Total Design Discharge (Turbine Mode)	1436.13 Cumec
	d	Turbine Capacity	250 MW
	e	Turbine Design Discharge	179.52 Cumec for each unit
	f	Rated Head in Turbine Mode	156 m

	g	Pump Capacity	289 MW
	h	Rated Head in Pumping Mode	167 m

Annexure-2D

Land details of Mega Pumped Storage Projects under implementation

Sl No	Name of the Project	Capacity - MW	Location	Land Requirement (Ha)			forest land/MW	Forest land/total
				Forest	Private	Total		
1	Turga PSP	1000	Purulia district, West Bengal **Govt Project**	234	58	292	0.234	0.801
2	Lugu pahar	1500	Bokaro district, Jharkand **Govt Project**	430	66	496	0.287	0.867
4	***Upper sileru****	1350	Andhra Pradesh **Govt Project**	380	30	410	0.281	0.927
5	Bandu Nala	900	West Bengal **Govt Project**	387	10	397	0.430	0.975
6	Pinnapuram	1200	Andhra Pradesh **Greenko Project**	365	349	714	0.304	0.511
7	***Saundatti****	1260	Karnataka **Greenko Project**	160	53	213	0.127	0.751
8	Shahpur PSP	2520	Rajasthan **Greenko Project**	444	350	794	0.176	0.559

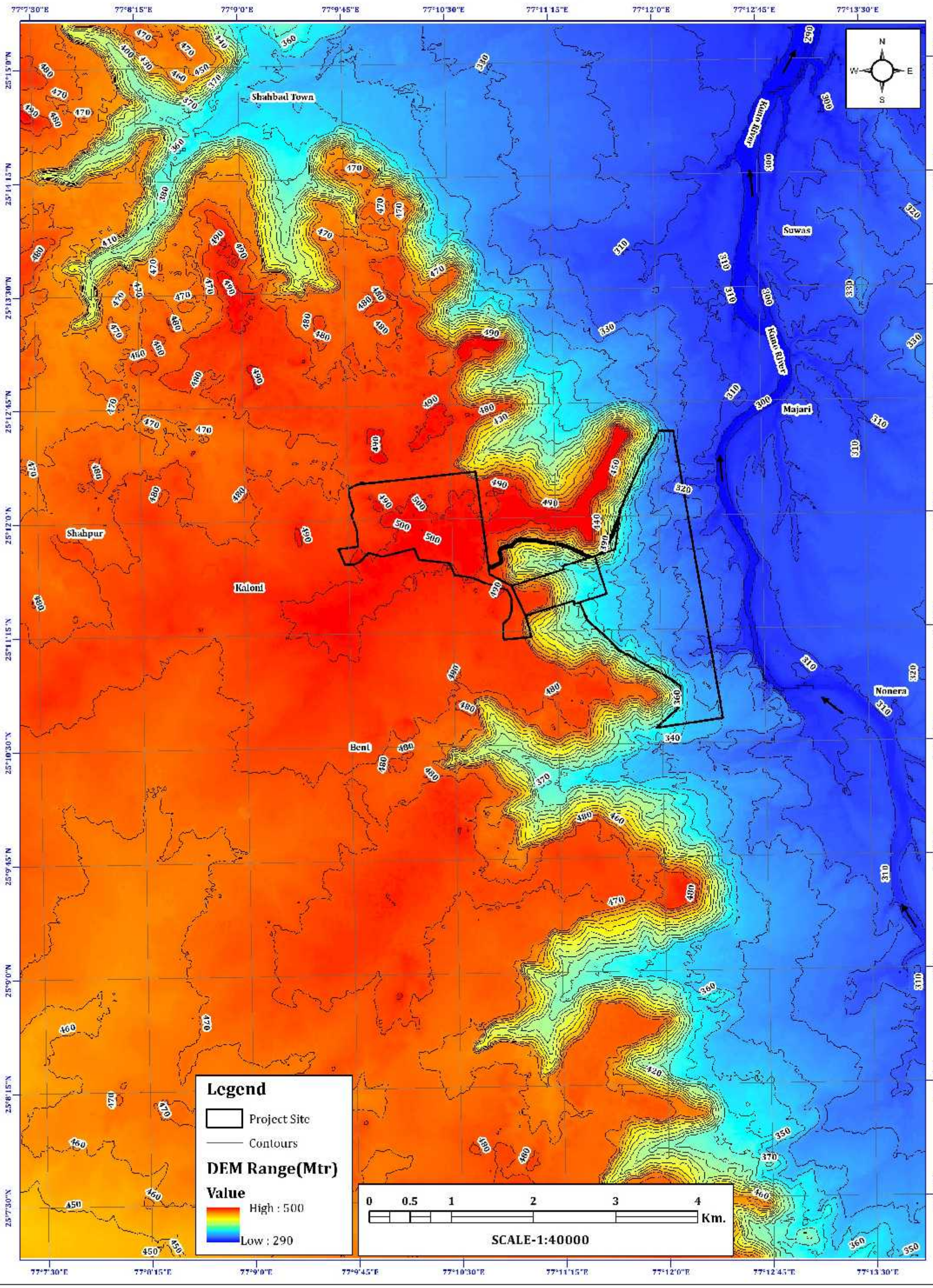
** Only one Reservoir being constructed new*

MAP SHOWING DIGITAL ELEVATION MODEL OF PROJECT SITE AND NEARBY AREA

Project Name : Construction of Shahpur (2520 MW) Pumped Storage Project by M/s Greenko Energies Private Limited

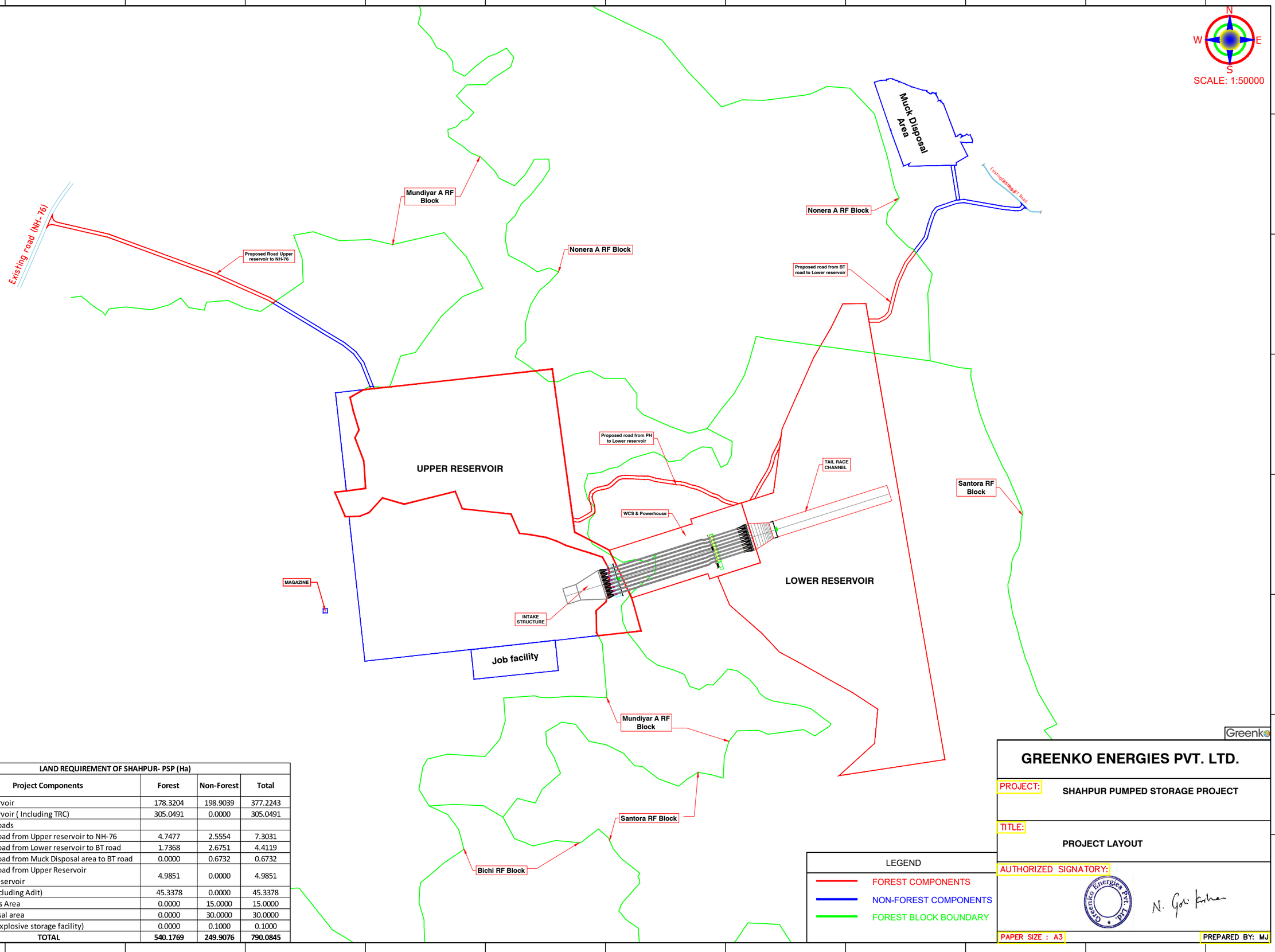
Forest Diversion Proposal No. FP/RJ/HYD/121439/2021

Annexure-2E



Annexure-2F

SHAHPUR PUMPED STORAGE PROJECT (2520MW)



LAND REQUIREMENT OF SHAHPUR- PSP (Ha)				
S/N	Project Components	Forest	Non-Forest	Total
1	Upper Reservoir	178.3204	198.9039	377.2243
2	Lower Reservoir (Including TRC)	305.0491	0.0000	305.0491
3	Approach Roads			
i	Proposed Road from Upper reservoir to NH-76	4.7477	2.5554	7.3031
ii	Proposed Road from Lower reservoir to BT road	1.7368	2.6751	4.4119
iii	Proposed Road from Muck Disposal area to BT road	0.0000	0.6732	0.6732
iv	Proposed Road from Upper Reservoir to Lower Reservoir	4.9851	0.0000	4.9851
4	WCS, PH (Including Adit)	45.3378	0.0000	45.3378
5	Job Facilities Area	0.0000	15.0000	15.0000
6	Muck Disposal area	0.0000	30.0000	30.0000
7	Magazine (Explosive storage facility)	0.0000	0.1000	0.1000
	TOTAL	540.1769	249.9076	790.0845

LEGEND

- FOREST COMPONENTS
- NON-FOREST COMPONENTS
- FOREST BLOCK BOUNDARY

Greenko

GREENKO ENERGIES PVT. LTD.

PROJECT: SHAHPUR PUMPED STORAGE PROJECT

TITLE: PROJECT LAYOUT

AUTHORIZED SIGNATORY:

Greenko Energies Pvt. Ltd.

PAPER SIZE : A3

PREPARED BY: MJ

Annexure-2G

RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED
(A Government of Rajasthan Undertaking)
E-166, Yudhisthir Marg, C-Scheme, Jaipur
CIN No. U40101RJ1995SGC009847
Tel: 0141-2225859, 2229341, 2223966 & 2223965 Fax: 0141-2226028
Email: solar.rrec@gmail.com; Website: www.energy.rajasthan.gov.in/rrecl

No.RREC/ Solar/Customized Package/20-21/D- 653 Dated: 4/6/2021

M/s Greenko Energies Private Limited,
Plot No. 1071, Road No.44,
Jubilee Hills, Hyderabad-500 033,
Telangana.

Sub: Regarding granting of Customized package for setting up of 4500 MW (3600 MW Solar, 900 MW Wind) with Pumped Hydro Storage Projects (Integrated Renewable Energy Storage Projects-IRSEP) under RIPS, 2019 by Board of Investment, Government of Rajasthan.

Ref: MoM of the Board of Investment held on 19.03.2021.

With reference to above correspondence on the above cited subject, it is to state the meeting of Board of Investment under Rajasthan Enterprises Single Window Enabling and Clearance Act, 2011 was held under the chairmanship of Hon'ble Chief Minister, Rajasthan on 19.04.2021. On recommendation of State Empowered Committee (SEC), the proposal of granting customized package for setting up of aforesaid 4500 MW (3600 MW Solar, 900 MW Wind) with Pumped Hydro Storage Projects (Integrated Renewable Energy Storage Projects-IRSEP) was placed before Board of Investment. The Board of Investment has approved the following benefits for M/s Greenko Energies Private Limited.:

1. Land Securities Deposit Rs. 1 Lac/MW in the form of Bank Guarantee in place of Rs. 3 Lac/MW to RREC for setting up of the Projects.
2. 100% lease rent instead of 150% on sublease of land in case of transfer to a subsidiary/group company of the same group with same management.
3. 75% reimbursement of the amount of net SGST paid to the State for purchase of equipment from the local manufacturers, up to 31st March, 2026.
4. Purchase/Lease of land above ceiling limit for setting up of Solar Power Plant would be permitted on case to case basis as per provisions.

In view of the above, you are hereby advised to submit proposal to RREC for availing the benefit of Land securities for further needful necessary action.

Your faithfully

4/6/21
(Sunit Mathur)
Director (Technical)

Copy to the following for information and necessary action:

1. Principal Secretary to the Hon'ble Chief Minister, Rajasthan, Jaipur.
2. Special Assistant to the Hon'ble Energy Minister, Government of Rajasthan.
3. Deputy Secretary to the Chief Secretary, Government of Rajasthan, Jaipur.
4. Principal Secretary to the Government, Finance Department, Government of Rajasthan, Jaipur.
5. Principal Secretary to the Government, Energy Department, Government of Rajasthan, Jaipur.
6. Principal Secretary to the Government, Revenue Department, Government of Rajasthan, Jaipur.
7. Secretary to the Government, Industries Department, Government of Rajasthan, Jaipur.
8. Commissioner, Bureau of Investment, Udyog Bhawan, Jaipur.
9. Commissioner, [illegible], Udyog Bhawan, Jaipur.

4/6/21

Director (Technical)

Annexure-2H

RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED
(A Government of Rajasthan Undertaking)
E-166, Yudhisthir Marg, C-Scheme, Jaipur
CIN No. U40101RJ1995SGC009847
Tel: 0141-2225859, 2229341, 2223966 & 2223965 Fax: 0141-2226028
Email: solar.rrec@gmail.com, Website: www.rrecl.com

RREC/Solar/ Greenko Energies/2020-21/D- 792 Dated - 15/06/2021

The Addl. PCCF-cum-Nodal Officer (FCA)
Rajasthan Forest Dept., Aranya Bhavan,
Jaipur, Rajasthan.

Sub: Regarding clarification sought by forest department for development of Shahpur(2520 MW)Pumped Storage Project, Baran District, Rajasthan by M/s Greenko Energies Pvt. Ltd.
Ref: Letter dated 7.04.2021 of M/s Greenko Energies Pvt. Ltd.

Sir,

With reference to the above cited correspondence on the subject cited, it is to state that M/s Greenko Energies Pvt. Ltd. vide letter dt. 07.04.2021 requested RREC to respond to the queries raised by your good office regarding their (2520 MW) Pumped Storage Project District-Baran, Rajasthan. In this context responses are as follows:-

1. **Sanction from Water Resource department or Energy department is uploaded**

   M/s Greenko Energies Pvt. Ltd. Is developing 4500 MW Wind-Solar Pumped Hydro Storage Plant wherein 3600 MW Solar and 900 MW Wind Energy Plant will be set up in Pali and Jaisalmer district respectively and 2520 MW Pumped Hydro Storage Plant will be developed at Village Shahpur, District Baran. The Project of 4500 MW capacity has been registered in RREC vide Reg. No. H/0005/2019 under Rajasthan Wind and Hybrid Energy Policy,2019 issued by State Government. Copy of Registration Letter dt. 28.01.21 is enclosed.

2. **The Proposal is self identified; to be technically examined by government department.**

   The Proposal of development of Hybrid Power Project has been registered with RREC under clause 22.4 of Rajasthan Wind and Hybrid Energy Policy, 2019. Copy of respective clause 22.4 is annexed herewith for your reference.

3. **The Proposal should be technically verified by Water Resource/Energy Department.**

   The Proposal of development of Hybrid Power Project was registered by RREC under clause 22.4 of Rajasthan Wind and Hybrid Energy Policy, 2019.

4. **The proposal is not a site specific, to be explored**

   The project is based on renewable and natural resources which can be developed specifically on the sites where potential of natural resources are available. Therefore, the project cannot be developed randomly at any site without specific study/survey of

suitable availability of natural resources. The Pumped Hydro Storage Plant can be developed at sites with availability of water source.

In above context, it is to inform that this hybrid project is unique in nature, it will provide the power from Renewable energy sources and with the help of Pumped Storage Hydro Plant, variable renewable energy will be stored and utilized to supply firm power to grid as per requirement of power. This will optimize RE power and also help to absorb infirmness of RE Power. Looking to these advantages such projects should be promoted in the state.

Further it is pertinent to mention here that the developer has submitted proposal for granting customized Package under Rajasthan Investment Promotion Scheme (RIPS), 2019 and same has been approved by Board of Investment, Government of Rajasthan.

In view of the above, the project should be facilitated by the respective departments for allotment of Land and water in time bound manner.
This is for your information and further needful action in the matter.
Encl: As above.

Yours faithfully,
15/6/21
Sunit Mathur
Director (Technical)

Copy to the following for necessary action:

1. Principal Secretary to the Government, Energy Department, Government of Rajasthan, Jaipur.

15/6/21
Director (Technical)