

Ref: IREP-Saundatti/FDP-ADS/21113

Dated: 13.12.2021

Divisional Forest Officer

Gokak Forest Division
Belagavi District,
Karnataka

Sub: Diversion of 160.40 Ha of forest land for construction of 1260 MW Standalone Pumped Storage Component of Saundatti IREP in Belagavi District of Karnataka being implemented by M/s Greenko Solar Energy Private Limited (GSEPL)-reg

**Ref: 1. Online EDS raised by DFO, Gokak vide dated 10-12-2021
2. MOEF&CC letter No 8-29/2021-FC dated 01-12-2021**


Dear Sir,

With reference to above subject, please find attached pointwise reply to the MoEF&CC letter (ref 2) for your kind perusal.

You are requested to kindly consider our submissions above and process the diversion proposal at the earliest.

Thanking you,
Yours sincerely,

For **M/s Greenko Solar Energy Private Limited**



Authorised Signatory

Encl: As above

Proposal for diversion of 160.4 ha. of forest land in Belagavi District (Ghataprabha Division Gokak) for construction of Standalone Pumped Storage Component of Saundatti Integrated Renewable Energy Project (IREP) in favour of the M/s. Greenko Solar Energy Private Limited (GSEPL) - Reply to Compliance to ADS dated 01.12.2021 raised by MoEF & CC.

S.No	Observation of MOEF&CC	Compliance
i	The State Govt. is requested to offer the comments on the points raised by the CF in his Site visit report i.e. <i>"there is one old temple by name Sogal Someshwar Temple and one water falls within an aerial distance of 3 KM from the proposed project boundary."</i>	<ul style="list-style-type: none"> The Sogal Someshwar Temple and seasonal waterfall are located away from the proposed project boundary. The total catchment of Sogal water fall is about 7.5 Sq Km, whereas about only 0.44 Sq.Km of project component (Upper Reservoir) is overlapping with Sogal Waterfall catchment. Hence, there will be no impact on flow of waterfall. Map showing Sogal waterfall, temple w.r.t project location is attached as Annexure-1 Further, the location of the temple is located on the downhill, hence no impact is envisaged due to the project.
ii	The DCF in his site inspection report has raised an issue regarding displaced people of Malaprabha Project. It was informed that as per the available records wherein as per the Govt of Karnataka Order No. RD 453 FGL 69 dated 18.10.1969 about 1020 Acres have been allotted to displaced persons of Malaprabha Project under Kagihal forest under various Survey No's. Out of 1020 acres, about 72 acres have been allotted for displaced persons in forest Sy.No.146 (total land in Sy. No.146-445 acres). As per the Forest Diversion proposed of User Agency, about 120 acres (48.37 ha) i.e. part of land falling under Forest Sy.No.146 is required by the user agency for project development. It is pertinent to highlight by the DCF that the land under Forest Sy.No.146 is still under Forest as per the forest records and the same has not been de-notified. In this regard, the State Govt. is requested to offer the comments on the issued raised by the DCF in his Site Inspection Report	<ul style="list-style-type: none"> As per the available records with the State forest department, land under Forest Sy.No.146 is still Forest and the same has not been de-notified till date. Out of total 445 acres in Sy No 146, about 72 acres have been earmarked for the displaced persons of Malaprabha Project as per Govt of Karnataka Order No. RD 453 FGL 69 dated 18.10.1969. However, de-notification has not been done till now. As per the provisions of Indian Forest Act, the land under Sy No 146 still continues to be forest. In accordance with the provisions of FC, Act 1980, GSEPL has applied for land diversion for 48.37 ha in Sy. No 146. As communicated earlier to department, GSEPL is ready to pay suitable compensation to the Forest Department under Forest diversion proposal and shall also pay suitable compensation to the affected families falling in Sy. No 146 on mutually agreed

Proposal for diversion of 160.4 ha. of forest land in Belagavi District (Ghataprabha Division Gokak) for construction of Standalone Pumped Storage Component of Saundatti Integrated Renewable Energy Project (IREP) in favour of the M/s. Greenko Solar Energy Private Limited (GSEPL) - Reply to Compliance to ADS dated 01.12.2021 raised by MoEF & CC.

S.No	Observation of MOEF&CC	Compliance
	and the current status of the land (i.e. 48.37 ha of Sy. no. 146) proposed for diversion may be forwarded to this Ministry.	basis to avoid delay in project execution.
iii	As per DSS report the Solid structure, agriculture filed and plantation near proposed approach road is visible. In this regard the state govt. is requested to Provide its comment on this issue.	<ul style="list-style-type: none"> The presence of solid structure (Petrol pump & agricultural fields) are located in Sy.No 146. The legal status of the area is forest. As communicated earlier GSEPL is ready to pay compensation to farmers and concerned owner of petrol pump on mutually agreed basis and the user agency has applied for Forest Diversion for this also under FC Act. <p>Accordingly, this land parcel was considered under FCA, 1980 for forest land diversion proposal.</p>
iv	The Nodal Officer (FCA) in his Site Inspection has informed that the User Agency has to seek NOC from the State Govt. departments such as Water Resources, Energy, Environment and Other Statutory Authorities. Further, it was also stated by Nodal officer that the diversion of the project may be conditional that is unless all the required approvals are obtain the forest land shall not be handed over to the project authorities. In this regard the User Agency shall submit an undertaking stating that they will obtain all the NOC from the concerned departments.	<ul style="list-style-type: none"> The project has been recommended for Environmental Clearance (EC) from EAC on its meeting held on 29.10.2020. As per MoEF&CC guidelines, EC letter will be issued after Stage-I Forest Clearance (FC). All applicable clearances/NOCs shall be obtained from the concerned depts before the start of construction activities in the project, necessary undertaking in this regard is enclosed at Annexure-2.
v	As per the Site Suitability certificate submitted by the DFO it has been mentioned that the plantation as per this Ministry's guideline is not possible therefore the reaming plants will be planted in the Degraded Forest land (DFL). In this regard the KML file of the identified wrt DFL may be forwarded to this Ministry.	<ul style="list-style-type: none"> KML file of the identified Degraded Forest Land (DFL) proposed in Karkanahalli Forest Sy.no 82 has been uploaded along with kml file for the proposed C.A land for this project.

Proposal for diversion of 160.4 ha. of forest land in Belagavi District (Ghataprabha Division Gokak) for construction of Standalone Pumped Storage Component of Saundatti Integrated Renewable Energy Project (IREP) in favour of the M/s. Greenko Solar Energy Private Limited (GSEPL) - Reply to Compliance to ADS dated 01.12.2021 raised by MoEF & CC.

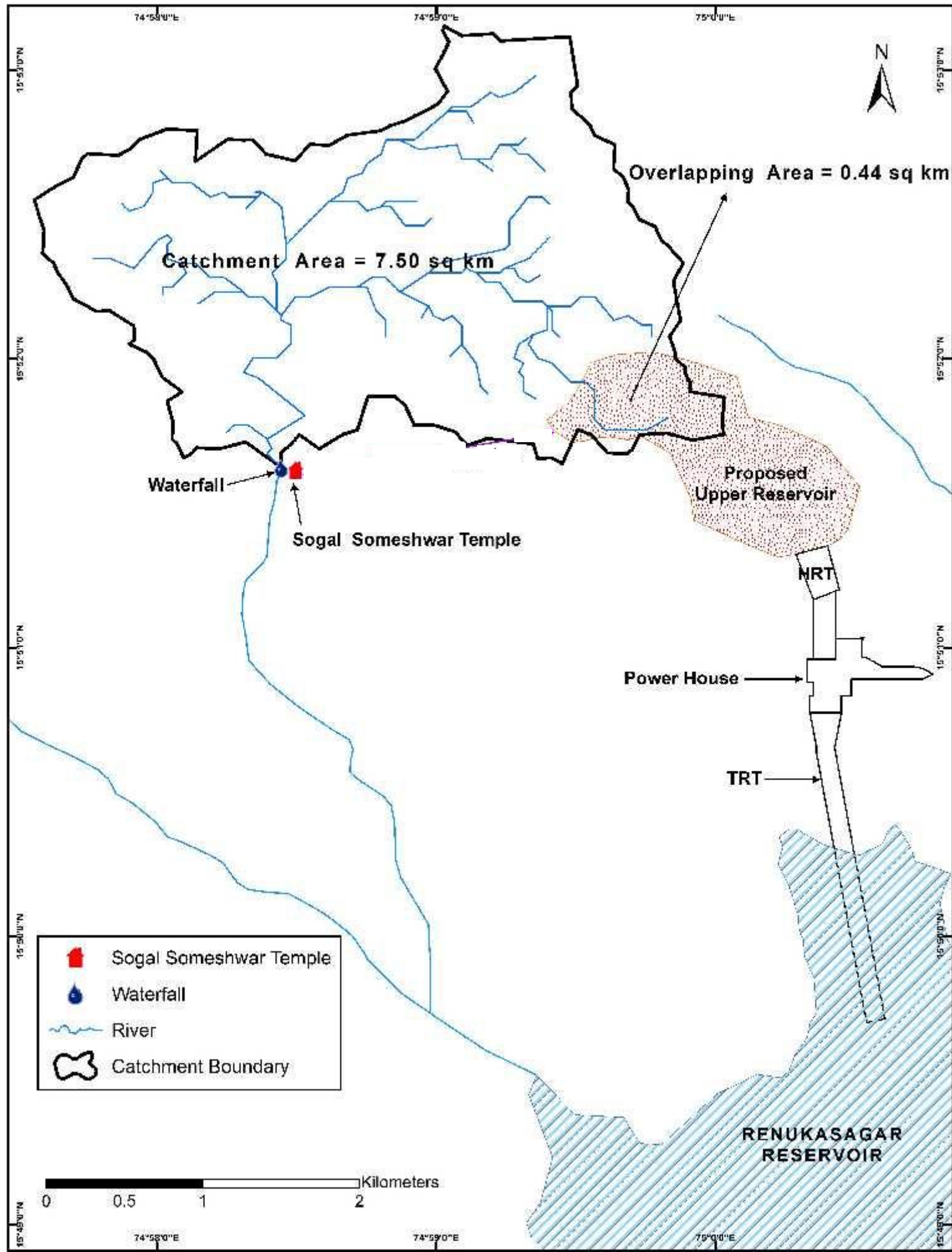
S.No	Observation of MOEF&CC	Compliance
vi	The State Government is requested to appraise Status of Approved Detail Project report (DPR) to this Ministry.	<ul style="list-style-type: none"> As per the provisions of DPR approval, requisite Pre-Chapters i.e., Stage-1 (Compendium) was submitted on 29-11-2019. Approval for Pre-DPR chapters like Hydrological, Power Potential and Construction material etc. have been obtained. After approval of relevant chapters/studies under Stage-1 (Compendium) which is currently under progress, formal submission of DPR shall be made to CEA/CWC for issuance of Concurrence to the Project.
vii	The instant proposal is designated to lift the water from the Renuka Sagar Reservoir. In this regard the NOC from user agency of Renuka Sagar Reservoir has not been submitted by the user Agency. In this regards the state Govt. is requested to submit the same.	<ul style="list-style-type: none"> State High Level Clearance Committee (SHLCC) in its Proceeding of 51st meeting held on 02.03.2018 under the chairmanship of the Hon'ble Chief Minister of Karnataka has approved the project along with 1 TMC of water. (Proceeding of 51st Meeting as Annexure - 3). Subsequently, approval for allocation of 1 TMC Non Consumption water has been given by Government of Karnataka Vide G.O No: CI 83 SPI 2018, Bengaluru Dated: 12.03.2018. (G.O as Annexure - 4) This has been informed to the Principal Chief Conservator Forest (Forest Conservation) vide user agency letter No: GSEPL/FC/80721 Dated: 08.07.2021.(User Agency Letter as Annexure - 5)

Date: 13.12.2021

Place: Hyderabad



Authorised Signatory



Certificate of Undertaking

Greenko Solar Energy Private Limited (GSEPL) hereby affirm and undertake that necessary clearances/NOCs shall be obtained from the concerned departments as applicable before the start of construction of the project.



Date: 13.12.2021

Place: Hyderabad

Name: Gopi Krushna N

Authorised Signatory



Department of Industries and Commerce
Proceedings of 51st meeting of State High Level Clearance Committee

Proceedings of the 51st meeting of State High Level Clearance Committee (SHLCC) held on 2.3.2018 at 6.00 P.M under the Chairmanship of Hon'ble Chief Minister of Karnataka at "Krishna", Home office of Hon'ble Chief Minister, Kumara Krupa Road, Bengaluru.

Members present: List attached

Commissioner for Industrial Development and Director of Industries & Commerce extended warm welcome to Hon'ble Chief Minister of Karnataka, Hon'ble Minister for Large & Medium Industries and Infrastructure Development, Additional Chief Secretary to Government, Commerce & Industries Department and Development Commissioner and other members of the Committee present in the meeting. The subjects were taken up for discussion as per the agenda.

Subject No.1: Confirmation of Proceedings of 50th meeting of SHLCC held on 23.2.2018.

Commissioner for Industrial Development and Director of Industries and Commerce informed the Committee that the proceedings of 50th meeting of SHLCC held on 23.2.2018 has been circulated to all the members and the same is placed before the Committee for confirmation. The Committee noted the same and confirmed the proceedings.

Subject No.2: Consideration of New project proposals:

- 2.1 Project proposal of M/s Greenko Solar Energy Pvt. Ltd. to establish a unit for "Integrated Renewable Energy Project consisting of 600 MW Pumped Storage Energy Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" at Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgaum Taluks in Belgaum District.

Constitution : Private Limited Company

Product/ Activity : Integrated Renewable Energy Project consisting of 600 MW Pumped Energy Storage Project, 1000 MW Solar Power Project and 400 MW Wind Power Project



Department of Industries and Commerce
Proceedings of 51st meeting of State High Level Clearance Committee

Location : Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgaum Taluks in Belgaum District

Extent of Land : 6000 acres of land to be purchased U/s 109 of KLR Act

Investment : Rs. 11,790 crore

Employment : 500 Nos.

Promoter : Mr.Praveen Devaiah, GM

Networth of the company: M/s. Greenko Solar Energy Pvt. Ltd. - Rs. 750.41 crore
M/s. Greenko Energies Pvt. Ltd. - Rs. 3200.25 crore
M/s. Greenko Energy Holdings – USD 1007.79 Million

Project cost and Means of Finance (Rs. in Crore)

Cost of the project		Means of Finance	
Land and Building	850	Promoter Equity	3537
Plant and Machinery	8350	Institutional Equity	8253
Other IDC	600		
Working Capital Margin	1900		
Contingency	90		
Total	11790	Total	11790

Infrastructure support and approvals requested by the company for the project:

Items	Particulars
Land :	6000 acres of land to be purchased U/s 109 of KLR Act in various Sy.Nos. of Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgaum Taluks in Belgaum District
Water :	1.00 TMC of non-consumptive water from Renuka Sagar reservoir by re-circulation
Pollution Control Clearance :	CFE from KSPCB, E.C from MOEF, GOI / DFEE, GOK, as applicable
Incentives & Concessions:	As per applicable Policy of the State
Statutory clearances:	All necessary statutory approvals/clearances



Department of Industries and Commerce

Proceedings of 51st meeting of State High Level Clearance Committee

Recommendation of 50th Land Audit Committee Meeting held on 1.3.2018:

The representatives of the company appeared before the committee and highlighted the project proposal. They informed that they need 4600 acres of land for 1000 MW Solar Project, 1100 acres of land for 400 MW Wind Energy project and 300 acres of Forest land for Pump storage to generate 600 MW Hidrel energy. The representatives submitted that all provisions of land revenue laws would be complied while procuring land u/s 109 of KLR Act. They mentioned that most of the land identified for the project is dry land without substantive cultivation. Even the reserve forest land is having sparse vegetation.

The Committee noted the request of the company and after detailed discussions, resolved to recommend to SHLCC for approval of the project of M/s Greenko Solar Energy Pvt. Ltd. to establish "Renewable Energy Project consisting of 600 MW Pumped Energy Storage Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" in 6000 acres of land to be purchased U/s 109 of KLR Act in various Sy.Nos. of Tallur, Karalakatti, Basidonidoddi and other villages of Saundatti and Ramadurga Taluk, Belgaum District.

Decision of SHLCC:

The Committee noted the details of the project proposal and after after discussing the project in detail, resolved to approve the project proposal as under.

Details	Decision of the Committee
Project Approval:	To establish "Integrated Renewable Energy Project consisting of 600 MW Pumped Storage Energy Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" with an investment of Rs.11790 crore
Land :	6000 acres of land to be purchased U/s 109 of KLR Act in various Sy.Nos. of Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgaum Taluks in Belgaum District
Water :	1.00 TMC of non-consumptive water from Renuka Sagar reservoir by re-circulation
Incentives & Concessions:	As per applicable Policy of the State



Department of Industries and Commerce
Proceedings of 51st meeting of State High Level Clearance Committee

Pollution Control Clearance :	The promoters shall comply with the regulations prescribed by KSPCB / DFEE, GoK / MOEF, GOI, as applicable, before commencement of the project
Statutory clearances:	The promoters shall obtain all statutory clearances for the project
Employment to Local persons:	The promoters shall provide local employment as per applicable Policy of the State

Sub No.3: Consideration of amendments to earlier approved projects:

- 3.1 Project proposal of M/s. Patel Engineering Ltd. to establish "Electronic Hardware/ Software/IT & ITES, Integrated Township with Residential Mixed use including Residential, Commercial and IT Park" in various Sy.Nos. of Hulimangala, Gollahalli, Thirupalya and Maragondahalli Villages of Anekal Taluk, Bangalore Urban District.

Constitution : Public Limited

Product/ Activity : Electronic Hardware/ Software/IT & ITES, Integrated Township with Residential Mixed use including Residential, Commercial and IT Park

Location : Hulimangala, Gollahalli, Thirupalya and Maragondanahalli Villages, Anekal Taluk, Bangalore Urban District

Extent of Land :
i) 103 acres 17 guntas of land in various Sy.Nos. of Hulimangala, Gollahalli, Thirupalya and Maragondahalli Villages, Anekal Taluk, Bangalore Urban District
ii) 147 acres 10.4 guntas of land in different Sy.Nos. of Hulimangala, Gollahalli, Thirupalya and Maragondanahalli Villages, Anekal Taluk, Bangalore Urban District

Investment : Rs. 2,515 crore

Employment : 51,452 Nos.

Promoters : Mr. Rupen Patel, MD



PROCEEDINGS OF THE GOVERNMENT OF KARNATAKA

Sub: Approval to the project proposal of M/s. Greenko Solar Energy Pvt., Ltd., to establish a unit for "Integrated Renewable Energy Project consisting of 600 MW Pumped Storage Energy Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" at Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgavi Taluks in Belgavi District.

Read: 1) Proceedings of the 50th Land Audit Committee (LAC) meeting held on 01.03.2018.

2) Proceedings of the 51st State High Level Clearance Committee (SHLCC) meeting held on 02.03.2018.

--:0::--

Preamble:

M/s. Greenko Solar Energy Pvt., Ltd., has proposed to establish a unit for "Integrated Renewable Energy Project consisting of 600 MW Pumped Storage Energy Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" with an investment of Rs. 11,790 crore and generating employment to about 500 persons at Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgavi Taluks in Belgavi District.

The proposal of the company has been placed before the 50th LAC meeting held on 01.03.2018. The representatives of the company appeared before the committee and highlighted the project proposal. They informed that they need 4600 acres of land for 1000 MW Solar Project, 1100 acres of land for 400 MW Wind Energy project and 300 acres of Forest land for Pump storage to generate 600 MW Hidrel energy. The representatives submitted that all provisions of land revenue laws would be complied while procuring land u/s 109 of KLR Act. They mentioned that most of the land identified for the project is dry land without substantive cultivation. Even the reserve forest land is having sparse vegetation.

The committee after detailed discussions, resolved to recommend to SHLCC for approval of the project proposal of M/s. Greenko Solar Energy Pvt., Ltd., to establish "Renewable Energy Project in 6000 acres of land to be purchased U/s

109 of KLR Act in various Sy. Nos. of Tallur, Karalakatti, Basidonidoddi and other villages of Saundatti and Ramadurga Taluk, Belgavi District.

The proposal was examined and approved in the 51th SHLCC Meeting held on 02.03.2018.

Government has examined the recommendations made by the SHLCC in all aspects.

Hence the following order.

GOVERNMENT ORDER No. CI 83 SPI 2018, BENGALURU, DATED 12.03.2018

Government is pleased to accord in-principle approval to the investment proposal of M/s. Greenko Solar Energy Pvt., Ltd., to establish a unit for "Integrated Renewable Energy Project consisting of 600 MW Pumped Storage Energy Project, 1000 MW Solar Power Project and 400 MW Wind Power Project" with an investment of Rs. 11,790 crore and generating employment to about 500 persons in 6000 acres of land at various Sy. Nos of Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgavi Taluks in Belgavi District with the following infrastructure assistances, incentives and concessions:

Land :	6000 acres of land to be purchased U/s 109 of KLR Act in various Sy.Nos. of Tallur, Karalakatti, Basidonidoddi and other villages of Saudatti, Ramadurga, Khanapura, Bailahongal, Gokak, Kittur and Belgavi Taluks in Belgavi District
Water :	1.00 TMC of non-consumptive water from Renuka Sagar reservoir by re-circulation
Incentive & Concessions :	As per applicable Policy of the State

Sanction of the above infrastructure facilities, incentives and concessions is subject to the following terms and conditions:

1. **Environment:** The company to obtain Consent for Establishment and Consent for Operation from KSPCB and environmental clearance from MoEF, Govt. of India or the Dept of Forest, Ecology & Environment, Govt. of Karnataka, if applicable.
2. **Employment:** The Company shall comply with the provisions of applicable Policy of Govt. of Karnataka with respect to local employment on the

project. Prepare a plan for development of Human Resources required for the project, train local people. A copy of Human Resources Development plan shall be sent to the Commissioner for Industrial Development & Director of Industries and Commerce for monitoring.

3. **Vendor Development:** Wherever there is scope for vendor development for the project, the company shall prepare a vendor development plan, develop local vendors and procure the required inputs, components and sub-assemblies from these local vendor units. A copy of the vendor development plan shall be sent to the Commissioner for Industrial Development & Director of Industries and Commerce for monitoring.
4. **Social Infrastructure Development:** The Company is advised to take up social infrastructure development projects in the vicinity of the proposed location of the unit and comply with the stipulation of Company Act 2013. A copy of such projects shall be sent to the Commissioner for Industrial Development & Director of Industries and Commerce for monitoring.
5. **Others:**
 - a) The company shall adopt rainwater harvesting, waste water recycling and water conservation techniques. Zero discharge facility should be adopted wherever applicable.
 - b) The company shall take all statutory and other necessary clearances from the competent authorities including Govt. of India.
 - c) As part of "Ease of Doing Business" Government vide order No. CI 89 SPI 2013, Dated: 20.12.2014 has accorded approval to operationalise e-Udyami Phase II for obtaining various clearances/ approvals/licenses etc. through common e-platform for the projects approved through District Level Single Window Clearance Committee (DLSWCC) or State Level Single Window Clearance Committee (SLSWCC) or State High Level Clearance Committee (SHLCC) w.e.f. 01.01.2015.
 - d) The approvals/NOCs of following Departments have been covered under Phase II of e-Udyami.
 - i. Karnataka Industrial Areas Development Board.
 - ii. Karnataka Small Scale Industries Development Corporation.
 - iii. Karnataka State Pollution Control Board.
 - iv. Factories, Boilers, Industrial Safety and Health Department
 - v. Industries and Commerce Department
 - vi. Town Planning Department and Local Planning Authorities

- vii. Municipal Administration Department
- viii. BESCOM/GESCOM/HESCOM/CESCOM/MESCOM
- ix. Karnataka State Fire and Emergency Services Department
- x. Water Resources Department

e) The login and passwords which are used for filing application through e-Udyami Phase I are also applicable for filing application through e-Udyami Phase II. E-Udyami Phase II web application may be accessed through www.ebizkarnataka.gov.in and online application along with necessary documents may please be filed for any of above Departments' approval/NOCs.

f) Karnataka Udyog Mitra (KUM) would provide the necessary escort services for the speedy implementation of your project. You are requested to inform the progress made in the implementation of the project every quarter in the proforma.

This approval is valid for a period of **two years** from the date of issue of this Government Order.

By Order and in the name of the
Governor of Karnataka,

G. Nagarathnamma.
(NAGARATHNAMMA .G) 12/3/18
Desk Officer (Technical Cell),
Commerce & Industries Department.

To,

The Director, Government Central Press, Mysore Road, Kengeri, Bengaluru-60 along with two original copies (soft copy also sent to mail ID. gov_suburbanpress@yahoo.in) to publish in the next issue of the Karnataka Gazette and also to provide 10 copies to this office.

Copy:

1. Principal Accountant General (G&SSA), Karnataka, New Building, 'Audit Bhawan', Post Box No. 5398, Bengaluru-01.
2. Principal Accountant General (E&RSA), Karnataka, New Building, 'Audit Bhawan', Post Box No. 5398, Bengaluru-01.
3. Principal Accountant General (A&E), Karnataka, Park House Road, Post Box No. 5329, Bengaluru-01.
4. Additional Chief Secretary to Govt., Energy Dept., Vikasa Soudha, Bengaluru-01.

5. Additional Chief Secretary to Govt., Urban Development Dept., Vikasa Soudha, Bengaluru-01.
6. Additional Chief Secretary to Govt., Water Resources Dept., Vikasa Soudha, Bengaluru-01.
7. Additional Chief Secretary to Govt., Forest, Ecology & Environment Dept., M.S. Building, Bengaluru-01.
8. Additional Chief Secretary to Govt., Information Technology, Biotechnology and Science and Technology Dept., M.S. Building, Bengaluru-01.
9. Principal Secretary to Govt., Revenue Dept., M.S. Building, Bengaluru-01.
10. Commissioner for Industrial Development and Director of Industries and Commerce, Khanija Bhavan, Race Course Road, Bengaluru-01.
11. Commissioner for Commercial Taxes, Vanijya Therige Karyalaya, Gandhi Nagar, Bengaluru-09.
12. Managing Director, Hubli Electricity Supply Company Ltd., (HESCOM), Hubballi.
13. Member Secretary, Karnataka State Pollution Control Board, #49, Church Street, Parisara Bhavan, Bengaluru-01.
14. Chief Executive Officer & Executive Member, Karnataka Industrial Area Development Board, Khanija Bhavan, Race Course Road, Bengaluru-01.
15. Managing Director, Karnataka Udyog Mitra, Khanija Bhavan, Race Course Road, Bengaluru-01.
16. Director (Technical Cell), Commerce & Industries Dept., Vikasa Soudha, Bengaluru-01.
17. Additional Director (ID), Directorate of Industries and Commerce, Khanija Bhavan Race Course Road, Bengaluru-01.
18. Under Secretary to Govt.(ID), Commerce & Industries Dept., Vikasa Soudha, Bengaluru-01.
19. PS to Hon'ble Minister for Large and Medium Scale Industries and Infrastructure Development, Vidhana Soudha, Bengaluru-01.
20. PS to Additional Chief Secretary to Govt., Commerce & Industries Department, Vikasa Soudha, Bengaluru-01.
21. M/s. Greenko Solar Energy Pvt. Ltd., Suit no.701 & 702, 7th Floor Prestige Meridian- II, M.G. Road, Bengaluru, Karnataka 560 001.
22. Guard File / Spare Copies.

Ref: GSEPL/FC/80721

Date: 08.07.2021

To,

The Principal Chief Conservator (Forest Conservation),
Karnataka Forest Department,
Aranya Bhavan, Malleshwaram,
Bengaluru-560012.

Subject: Submission of additional details pertaining to 160.40 Ha Forest Diversion proposal No. FP/KA/HYD/37723 /2018 of M/s. Greenko Solar Energy Pvt. Ltd.

Reference: Site inspection conducted on 26.06.2021 by The Principal Chief Conservator of Forest (Forest Conservation), Karnataka Forest Department, Aranya Bhavan, Malleshwaram, Bengaluru-560012.

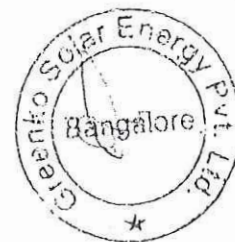
Respected Sir,

M/s. Greenko Solar Energy Pvt. Ltd. has been accorded approval by *Karnataka State High Level Clearance Committee (SHLCC)* in its' 51st meeting on 02.03.2018 held under the Chairmanship of The Honourable Chief Minister of Karnataka and other members to implement 2000 MW Integrated Renewable Energy Project (IREP) (Annexure- A). This project consists of 600 MW Pumped Storage Power Project, 1000MW solar project and 400 MW wind project in various villages of Saundatti and Ramadurga taluks of Belagavi district vide Government Order No. CI 83 SPI 2018, Bengaluru, Dated 12.03.2018 (Annexure -B). Earlier the said project was recommended after considering the investment capacity of Rs. 11,790 crores with the land requirement of 6000 acres in the *50th Land Audit Committee* meeting held on 01.03.2018 (Annexure -C). Further in the Government Order No. CI 83 SPI 2018, Bengaluru, dated 27.02.2019 (Annexure - D) an additional investment of Rs. 2805 crores has been approved for the enhancement of pumped storage energy project from 600 MW to 1260 MW.

As stated earlier, in the 52nd State High Level Clearance Committee (SHLCC) held under the Chairmanship of The Honourable Chief Minister of Karnataka and other members on 03.12.2018 the capacity of 600 MW Pumped Storage Project was enhanced to 1260 MW.

Accordingly, in 53rd State High Level Clearance Committee (SHLCC) held under the Chairmanship of The Honourable Chief Minister of Karnataka and other members on 23.03.2020 has granted the time extension to implement the project for further period of 3 years and issued Order No.CI 83 SPI 2018, Bengaluru dated 16.06.2020 (Annexure -E),

Further, vide Order No.CI 83 SPI 2018, Bengaluru dated 24.08.2020 (Annexure - F) The Government of Karnataka had transferred the approval given to M/s. Greenko Solar Energy Pvt. Ltd. in favour of M/s. Greenko KA01 IREP Private Limited (100% Subsidiary Company of M/s. Greenko Solar Energy Pvt. Ltd.) for implementation of the said project.



GREENKO SOLAR ENERGY PRIVATE LIMITED Greenko

The Government of Karnataka in its Order No. CI 83 SPI 2018, Bengaluru, Dated 27.02.2019 has informed in page 3 of the preamble to obtain forest clearance for the forest land required for the project. Accordingly we have submitted the proposal No. FP/KA/HYD/37723 /2018 for diversion of 160.40 ha forest land in Saundatti range, Ghataprabha division, Gokak.

We are here by furnishing the following additional details of the project sought during site visit on 26th June 2021 by your good self.

1) Length of the upper reservoir from entrance to starting point of pressure shaft.

Length of the upper reservoir embankment is about 5177m. Map is attached as Annexure-1 for ready reference.

2) Width (maximum and minimum) of the upper reservoir at 5 different intervals.

S. No	Chainage (Start from intake in anticlockwise direction)	Dam Base Width (m)	
		Minimum	Maximum
1.	100	10	150
2.	900	10	107
3.	1800	10	150
4.	2800	10	173
5.	3600	10	150

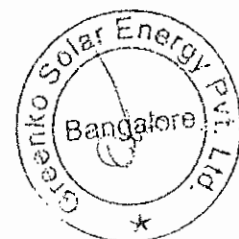
3) Why it is not possible to reduce the width of the penstock area as each penstock (total 5 pen stock) is about 6 metre dia, whereas the total width of the penstock area is about 200 metres.

Total width requirement depends on spacing of two penstocks pump turbines. In the present case the spacing requirement between the pump turbines is about 30m. Thus, the distance between first penstock and the last penstock is 160m. On either side of penstock on an average about 20m space is required for slopes trench excavation, transportation, stockpiling/fabrication of penstock etc. Thus, there is no possibility to reduce the width of the penstock area and the minimum required space is around 200m.

4) Status of Environment Clearance, water allocation, power purchase agreement, pollution clearance, transmission line clearance, etc.

4.1. *Environmental Clearance (EC):*

- Scoping clearance of Saundatti IREP of 1200 MW project was accorded by Ministry of Environment Forests and Climate Change (MoEF&CC), Government of India vide letter no. J-12011/11/2018-IA.I (R), dated: 18.05.2018. Subsequently, Amendment to Scoping Clearance for Standalone Pumped storage component (1260 MW) of Saundatti IRE Project received from MoEF&CC for change in Capacity etc. of the proposed project vide letter no. J-12011/11/2018-IA.I (R) dated 25th September, 2018.



GREENKO SOLAR ENERGY PRIVATE LIMITED Greenk

- As per the EIA notification, 2006, the Environmental Public Hearing was conducted by the Karnataka State Pollution Control Board, on 07th January, 2019 adjacent to Mallur Electrical Sub-station, Karlakatti village, Yakkundi Panchayat, Saundatti taluka, District Belagavi, Karnataka.
- Expert appraisal committee recommended for Environmental Clearance (EC) in its meeting held on 29.10.2020. MOEF&CC conveyed the same through letter dated 04.12.2020.
- EC letter shall be issued subject to submission of Stage-I Forest Clearance within the time frame mentioned Stage-I (In-principle clearance) i.e 1 year from the date of EC recommendation, this may be extended for another 6 months. Copy of the same is attached as Annexure-2.

4.2. Water allocation:

Water allocation permission is under process. In principle approval from Irrigation Department for allotment of 1 TMC water is given in State High Level Clearance Committee in consultation with Principal Secretary (Annexure – B, Page 2).

4.3. Power purchase agreement:

Storage-power tie-up expected in next 3-4 months

4.4. Pollution clearance:

Consent for Establishment (CFE) shall be obtained from Karnataka State Pollution Control Board, after obtaining Environmental Clearance (EC).

4.5. Transmission line clearance:

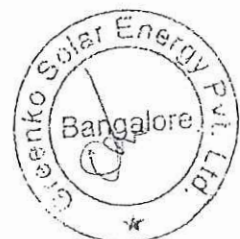
Two nos. 400 KV Quad Moose Double Circuit Transmission Lines of length 60 Kms shall be used by the plant. One line will be connected to PGCIL Narendra 400 KV substation at Dharwad and other line will be connected to IREP CPSS for evacuation of generated Power and for Supply of power during pumping mode.

5) Height of the upper reservoir from bottom to ground level.

Varies from minimum 2.6 m to 8.5 m.

6) Height of the upper reservoir from ground level to top of the embankment.

The height varies from 15.0 m to 38.0 m.



7) Width of the embankment.

S. No	Chainage (Start from intake in anticlockwise direction)	Dam Base Width (m)	
		Minimum	Maximum
1.	100	10	150
2.	900	10	107
3.	1800	10	150
4.	2800	10	173
5.	3600	10	150

8) Why only forest land required for upper reservoir? Why it cannot be done in other location in revenue land?

This is regarding observation raised on site selection of proposed Upper reservoir of PSP and location in Forest Land, we would like to express that these PSP projects have very stringent site-specific requirements and thus only be developed at very few specific locations. As regards location on Forest land, Karnataka has very peculiar conditions w.r.t. available water bodies and forest land, because of which it is not possible to locate Pumped Storage Projects in the non-forest land area. Point wise detailed reply is as under:

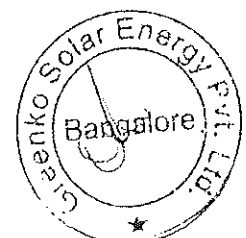
8.1 Site Specific Project

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.

8.2 Project location (Upper reservoir) in Forest Land

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

During selection of project, following observations were made:

- Location of project near water source i.e., existing big reservoir or a major river as key parameter.
- 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.
- 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.
- 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.
- 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.
- Most of the steeply sloping area, i.e., area with large elevation difference 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.
- 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 3), 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.
- Thus, we have been able to conclude that the proposed location is the most suitable site due to the available elevation difference of about 150-200 m and the area required for the construction of the upper in close vicinity on existing lower reservoir. Considering the above conditions and suitability of the site, we have been able to



GREENKO SOLAR ENERGY PRIVATE LIMITED Greenk

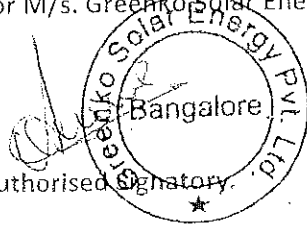
propose setting up of this project at this location with minimized forest land requirement by carefully planning the layout of the project.

In this regard, we humbly request to consider the above clarifications and recommend our proposal as requested.

Thanking you.

Yours truly,

For M/s. Greenko Solar Energy Private Limited.


Authorised Signatory.

Encl: Annexure – A to F and Annexure – 1 to 3