F. No. J-12011/11/2018-IA.I(R)

Government of India Ministry of Environment, Forest & Climate Change Impact Assessment Division

> Indira Paryavaran Bhawan 2nd Floor, Vayu Wing, Aliganj, Jor Bagh Road, New Delhi - 110 003

Dated: 24th March, 2023

To,

M/s Greenko Solar Energy Pvt. Ltd.

Plot No-8-2-293/82/A/1131A, Road No-36, Jubilee Hills, Hyderabad – 500 033, Telangana

Sub: Saundatti HEP (1260 MW) Integrated Renewable Energy with Pumped Storage Project at village Karlakatti, Tehsil Saundatti, District Belgaum (Karnataka) by M/s Greenko Solar Energy Pvt. Ltd. - Amendment/correction in Environmental Clearance - reg.

Sir,

This has reference to your online proposal no. IA/KA/RIV/296852/2023 dated 27th January, 2023 for amendment/ correction in environmental clearance to the above project.

- 2. The Ministry of Environment, Forest and Climate Change has examined the above proposal for amendment/ correction in environmental clearance granted by the Ministry vide letter dated 19.09.2022 to the project for expansion of Saundatti HEP (1260 MW) Integrated Renewable Energy with Pumped Storage Project at village Karlakatti, Tehsil Saundatti, District Belgaum (Karnataka) in favour of M/s Greenko Solar Energy Pvt. Ltd.
- 3. The project proponent has submitted proposal for amendment/ correction in environmental clearance with the details as under: -

S. No.	Para of EC letter dated 19.09.2022	Details as per EC	To be revised as
1.	Subject	1200 MW	1260 MW
2.	Point 2	1200 MW	1260 MW
3.	Point 2	228.97 Ha	213.70 Ha
4.	Point 3	37.34 Ha	34.64 Ha
5.	Point 3	23.98 На	18.66 Ha
6.	Point 3	167.65 На	160.40 Ha
7.	Point 3	228.97 Ha	213.70 Ha



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8.	Point 6(i)	96 m high Dam for creation of Saundatti IREP reservoir of 1.01 TMC live storage capacity	varying from 10m to 43 m height dam for creation of Saundatti IREP reservoir of 1.00 TMC live storage capacity
9.	Point 6(ii)	Power Intake structure g.2 nos. of 833m long and 12.0 dia concrete lined head race tunnel.	
10.	Point6(iii)	2 nos. of 30m dia. circular shape surge shaft with orifice dia of 5 m.	
11.	Point6(iv)	4 nos. of 730m long and 7.5m dia. inclined circular steel lined penstock tunnel/pressure shaft each for each unit of 252 MW.	4 nos. of 856m long and 6m dia. inclined circular steel lined penstock tunnel/pressure shaft each for each unit of 252 MW.
12.	Point 6(v)	one 730m long and 7.5m dia. inclined circular steel lined penstock tunnel/pressure shaft bifurcated to 2 penstocks to feed 2 units of 126 MW.	One 804m long and 6m dia. inclined circular steel lined penstock tunnel/pressure shaft bifurcated to 2 penstocks to feed 2 units of 126 MW.
13.	Point 6 (vi)	A surface power having an installation of four nos reversible Francis turbine each of 252 MW Capacity (all 4 units are with variable speed turbines) and two nos reversible Francis turbines each of 126 MW capacity (both units are with variable speed turbines) operating under a rated head of 147.99 m in generating mode and 156.39 m in pumping mode.	each of 126 MW capacity (both units are with variable speed turbines) operating under a rated head of
14.	Point 6 (vii)	Depth (FSD) of 5.50m	45m wide and FSD of 6.0m Tail race channel 1749 m long connecting to the Existing Renuka Sagar reservoir.
15.	Point 7: Salient Features- Land Area Breakup	Private land 36.64Ha	Private land 34.64Ha
16.	Point 9	Capacity 1200MW	Capacity 1260MW
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17.	Point 12	Capacity 1200MW	Capacity 1260MW
18.	Point 12	Total Area 228.97Ha	Total Area 213.70Ha

- 4. The proposal was considered by the EAC (River Valley and Hydroelectric Projects) in its 41st meeting held on 15th February, 2023. The EAC noted that the amendment/ corrections sought by the project proponent are factual in nature and has been verified with the revised EIA/EMP report and other additional information submitted at the time of grant of environmental clearance and found in order. The EAC, after detailed deliberations on the information submitted by the project proponent, accepted and recommended the amendments/ correction as requested by the project proponent.
- 5. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for amendment/ correction in environmental clearance dated 19.09.2022 as stated in para 3 above, for the project Saundatti HEP (1260 MW) Integrated Renewable Energy with Pumped Storage Project at village Karlakatti, Tehsil Saundatti, District Belgaum (Karnataka).
- 6. This issues with approval of the competent authority.

(Yogendra Pal Singh) Scientist 'E'

Tele: 011-20819364 Email Id: yogendra78@nic.in

Copy to:

- 1. The Secretary, Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi 3.
- 2. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore 1.
- 3. The Deputy DGF (C), MoEF&CC Regional Office (SZ), KendriyaSadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore 34.
- 4. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi 32.
- 5. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhawan, #49, 4th & 5th Floor, Church Street, Bangalore -1.
- 6. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
- 7. District Collector, Belgaum (Karnataka).
- 8. Guard File/Record File/Monitoring File/Website of MoEF&CC

Yogendfa Pal Singh) Scientist 'E'

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 SOLAR ENERGY PVT LTD

Plot No-8-2-293/82/A/1131A, Road No-36, Jubilee Hills, Hyderabad-33, 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/KA/RIV/74600/2018 dated 19 Feb 2019. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No. EC22A003KA149325 J-12011/11/2018-IA.I(R) 2. File No.

3. **Project Type** 4. Category

5. Project/Activity including 1(c) River Valley projects Schedule No.

Saundatti IRESP - Storage Project 6. Name of Project 7. Name of Company/Organization GREENKO SOLAR ENERGY PVT LTD

8. **Location of Project** Karnataka 9. **TOR Date** 18 May 2018

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

(e-signed) Yogendra Pal Singh Scientist E Date: 19/09/2022 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-12011/11/2018-IA.I (R) Government of India Ministry of Environment, Forests & Climate Change (Impact Assessment Division)

(Impact Assessment Division)

Indira Paryavaran Bhawan

2nd Floor, Vayu Wing Aliganj, Jor Bagh Road New Delhi – 110 003

Dated: 19th September, 2022

To,

M/s Greenko Solar Energy Pvt. Ltd.

Plot No-8-2-293/82/A/1131A, Road No-36, Jubilee Hills, Hyderabad – 500 033 (Telangana)

Sub: Saundatti HEP (1200 MW) Integrated Renewable Energy with Pumped Storage Project at village Karlakatti, Tehsil - Saundatti, District - Belgaum, Karnataka by M/s Greenko Solar Energy Pvt. Ltd. - Environmental Clearance - reg.

Sir,

This has reference to your online Proposal No. IA/KA/RIV/74600/2018 dated 19.02.2019 submitted to the Ministry for Environmental Clearance to the above mentioned project.

- 2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Environmental Clearance to the project for Saundatti HEP (1200 MW) Integrated Renewable Energy with Pumped Storage Project in an area of 228.97 ha at village Karlakatti, Tehsil Saundatti, District Belgaum, Karnataka by M/s Greenko Solar Energy Pvt. Ltd.
- 3. The total land requirement for the proposed development of pumped storage project is about 228.97 ha. Out of the total land requirement, around 167.65 ha is forest land, 37.34 ha is Private land and 23.98 ha is Government/ Assigned Land. No families are to be displaced by the Project and it does not involve any resettlement. There is no National Park/Wildlife Sanctuary within 10 km radius of the project area.
- 4. The project/activity is covered under category A of item 1 (c) 'River Valley projects' of the Schedule to the Environmental Impact Assessment Notification, 2006 and requires appraisal at Central level by the sectoral EAC in the Ministry.
- 5. The Terms of Reference (TOR) for the project was granted by the Ministry on 18th May, 2018 in favour of M/s Greenko Energies Pvt Ltd. Further, the name of the firm was changed to M/s Greenko Solar Energy Pvt. Ltd. vide letter dated 6.07.2018. The Public Hearing was conducted by Karnataka State Pollution Control Board (KSPCB) on 7.01.2019 at project site adjacent to Mallur Electrical Sub-Station, Karlakatti Village, Yakkundi Gram Panchayat, Saundatti Taluk, Belagavi District, Karnataka and the Proceedings of Public hearing were forwarded by KSPCB.
- 6. The scheme envisages construction of the following components:

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- (i) 96 m high Dam for creation of Saundatti IREP reservoir of 1.01 TMC live storage capacity
- (ii) Power Intake Structure g. 2 nos. of 833 m long and 12.0 m dia concrete lined head race tunnel
- (iii) 2 nos. of 30 m Dia. circular shape surge shaft with orifice dia. of 5 m
- (iv) 4 nos. of 730 m long and 7.5 m dia. inclined circular steel lined Penstock tunnel / Pressure Shaft each for each unit of 252 MW.
- (v) one 730 m long and 7.5 m dia inclined circular steel lined Penstock tunnel/ Pressure shaft bifurcated to 2 penstocks to feed 2 units each of 126 MW.
- (vi) A surface Power house having an installation of four nos. reversible Francis turbine each of 252 MW capacity (all 4 units are with variable speed turbines) and two nos. reversible Francis turbine each of 126 MW capacity (both units are with variable speed turbines) operating under a rated head of 147.99 m in generating mode and 156.39 m in pumping mode.
- (vii) 70 m wide and Full Supply Depth (FSD) of 5.50 m Tail race channel of 1.93 km long connecting to the Existing Renuka Sagar reservoir.

7. The Salient features of the proposed is as under: -

Name of the Proposal	Saundatti HEP (1260 MW) Integrated Renewable Energy with Pumped Storage Project
Proposal No.	IA/KA/RIV/7 4600/2018
Location (Including Coordinates)	Village Karlakatti, Tehsil -Saundatti, District - Belgaum, Karnataka
Company's Name	Greenko Solar Energy Pvt. Ltd.
CIN no. of Company/user agency	U40108TG2010PTC067974
Accredited Consultant and certificate no.	NABET/EIA/1922/RA 0152
Project location (Coordinates/River/ Reservoir)	Saundatti upper reservoir is at longitude 75° 00' 19.50" East and latitude is 15° 51' 21.84" North and that of Renuka Sagar reservoir (existing) are 15°49'17.15"N N and 75° 05'48.23"E
Inter-state issue involved	No
Proposed on River/Reservoir	Not across any river, Existing Renukasagar Reservoir will be used as Lower Reservoir.
Type of Hydro-electric project	Pumped Storage Project
Seismic zone	II

Category details:

Category	of the	project		River Valley and Hydro Electric Project
Capacity/ area(CCA)		ral	command	1260 MW (14616 MWH)
Attracts (Yes/No)	the	General	Conditions	No

ToR/EC Details:

ToR Proposal No.	IA/KA/RIV/74600/2018
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constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. Details of submergence area District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits Rarlakatti & Chakrageri under Yekkun Gram Panchyat 85 Project Benefits The Project is a renewable green sour of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employme opportunities petty work contract machinery hiring, business opportunities	ToR Letter No.	T 10011 /11 /0010 TA 1
Cost of project Total area of Project Height of Dam from River Bed (EL) Details of submergence area District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The upper Reservoir is beir constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. 128.58 Ha (Upper Reservoir area) NA NA Karlakatti & Chakrageri under Yekkun Gram Panchyat 85 The Project is a renewable green sour of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employmes opportunities petty work contract machinery hiring, business opportunities		J-12011/11/2018-IA.I
Cost of project Total area of Project Height of Dam from River Bed (EL) Details of submergence area District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The upper Reservoir is beir constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. 128.58 Ha (Upper Reservoir area) NA NA Karlakatti & Chakrageri under Yekkun Gram Panchyat The Project is a renewable green sour of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employmes opportunities petty work contract machinery hiring, business opportunities	ToR grant Date	18.05.2018. & 25.09.2018
Total area of Project Height of Dam from River Bed (EL) The upper Reservoir is beir constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. Details of submergence area District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The Project is a renewable green sour of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employmer opportunities petty work contract machinery hiring, business opportunities		5965.33 Cr
Height of Dam from River Bed (EL) The upper Reservoir is beir constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. Details of submergence area District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The upper Reservoir is beir constructed away from the River, Top Dam is 858.00m and height of rockfidam is 43m. NA NA Rarlakatti & Chakrageri under Yekkun Gram Panchyat No. of Affected Families The Project is a renewable green sour of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employmer opportunities petty work contract machinery hiring, business opportunities		213.70 Ha
District to provide irrigation facility (if applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct econom opportunities like employment opportunities petty work contract machinery hiring, business opportunities		constructed away from the River, Top of Dam is 858.00m and height of rockfill dam is 43m.
applicable) Details of tunnels on upper level & lower level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct econom opportunities like employment opportunities petty work contract machinery hiring, business opportunities	Details of submergence area	128.58 Ha (Upper Reservoir area)
level and length of canal (if applicable) No. of affected Village No. of Affected Families Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct economy opportunities like employment opportunities petty work contract machinery hiring, business opportunities	100 mg	NA
No. of affected Village No. of Affected Families Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct economy opportunities like employment opportunities petty work contract machinery hiring, business opportunities		NA
No. of Affected Families No. of Affected Families Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct economy opportunities like employment opportunities petty work contract machinery hiring, business opportunities	level and length of canal (if applicable)	
Project Benefits The Project is a renewable green source of energy and helps to reduce carbon for print, direct and In-direct economy opportunities like employment opportunities petty work contract machinery hiring, business opportunities	No. of affected Village	Gram Panchyat
of energy and helps to reduce carbon fo print, direct and In-direct econom opportunities like employme opportunities petty work contract machinery hiring, business opportuni	No. of Affected Families	
contracts (roads, retaining walls etc Local area development and communi development activities like educatio health, drinking water, basic amenitie livelihood enhancement, transportatio	Project Benefits	of energy and helps to reduce carbon foot print, direct and In-direct economic opportunities like employment opportunities petty work contracts, machinery hiring, business opportunity etc., Infrastructure development contracts (roads, retaining walls etc.), Local area development and community development activities like education, health, drinking water, basic amenities, livelihood enhancement, transportation, road network and other infrastructure
project falls in two revenue villages viz Chakrageri and Karlakatti under Saundatti Tehsil. The village Chakrageri is un-inhabited and the owners of the identified land reside in Karlakatti Village. The R&R Plan has been prepared in line with The Right to Fair Compensation and Transparence in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (RFCT_LARE and The Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement (Karnataka) Rules, 2015. An amount	R&R details	Saundatti Tehsil. The village Chakrageri is un-inhabited and the owners of the identified land reside in Karlakatti Village. 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 (Karnataka) Rules, 2015. An amount of Rs 517.50 Lakhs has been
Catchment area/Command area NA	Catchment area/Command area	NA

during construction/Operation	Major waste generation is muck from excavation. Total quantity of excavated material is worked out as 7.21 MCM,
Material used for blasting and its composition	
as per DGMS standards.	NA
E-Flows for the Project	NA
Is Projects earlier studied in Cumulative Impact assessment & Carrying Capacity studies (CIA&CC) for River in which project located. If yes, then E-flow with TOR/ Recommendation by EAC a per CIA&CC study of River Basin. If not the E-Flows maintain criteria for	
sustaining river ecosystem. Details on provision of fish pass	NA
Project benefit including employment details (no. of employee)	
Area of Compensatory Afforestation (CA) with tentative no. of plantation.	
Previous EC details	Nil
EC Compliance Report by R.O, MOEF&CC	Nil

Electricity generation capacity:

	1000 300
1 Installed Canacity	1260 MW
Powerhouse Installed Capacity	14616 MWH
Generation of Electricity Annually	14010 WW1
	6 nos. (4 X 252MW & 2 X 126 MW)
No. of Units	

Muck Management Details:

1 1' we seel area //type of land-	2. Non-forest
No. of proposed disposal area/(type of land-	
Forest/Pvt. land) Cross section of proposed muck area,	MD-1, 7 Ha, Capacity-12,58,640 Cum
Height of muck with slope.	MD-2, 3 Ha, Capacity-4,86,675 Cum
Height of fluck with stops.	Ht- 4.75m
Distance of muck disposal area (location),	Within 500 m i.e. About 450 &250 m from
from muck generation sources (project	Powerhouse
area)/River, HFL of proposed muck	
area)/River, Tirle of proposed	
disposal area.	10 Ha
Total Muck Disposal Area	7.21 MCM
Estimate Muck to be generated	By road
Transportation for Muck Disposal	to two older titll be
Monitoring mechanism for Muck Disposal	used
Transportation	0.000

Land Area Breakup:

2' to land	36.64 Ha
Private land Government land/Forest Land	18.66 Ha / 160.40 ha
Submergence area/Reservoir area	128.58 Ha (Upper Reservoir)

Land required for project components	213.70 На

Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/N o	Certificate/ letter/ Remarks
Reserve Forest/ Protected Forest Land	Yes	Obtained Stage-I FC on 12.07.2022
National Park	No	
Wildlife Sanctuary	No	
Archaeological sites monuments/ historical temples etc.	No	
Additional information (if any)	_	

Availability of Schedule-I species in study area- one bird species falls under Schedule I i.e. *Pavo cristatus* (Indian Peafowl).

Public Hearing (PH) Details

Advertisement for PH with date	05.12.2018-English. Kannada-	
	06.12.2018	
Date of PH	7th January, 2019	
Venue	adjacent to Mallur Electrical Sub-	
	station	
Chaired by	District Collector Water Availability for Agriculture,	
Main issues raised during PH		
	Compensation of land	
No. of people attended	381	

- 8. The proposal was earlier recommended by the EAC in its 22nd meeting held on 27.02.2019 for grant of Environmental Clearance with certain conditions. Based on recommendation of the EAC, the Ministry vide letter dated 4.12.2020 requested to submit Stage- I Forest Clearance. The project proponent vide letter dated 18.07.2022 submitted stage-I/In-principle approval under the Forest (Conservation) Act, 1980 for diversion of 160.4 ha. of forest land which was accorded on 12.07.2022. As the Stage- I FC was submitted after the expiry of 18 months and as per OM dated 19th June, 2014 the proposal again referred to EAC for having a relook.
- 9. The proposal was further considered by the EAC (River Valley and Hydroelectric Projects) in its 31st meeting held on 29.07.2022. The project proponent and their accredited consultant M/s R. S. Envirolink Technologies Pvt. Ltd., made a detailed presentation and have presented the EIA/EMP report. The EAC observed that EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent. The EAC after detailed deliberations on the information submitted and as presented during the meeting reiterated its earlier recommendations and recommended for grant of environmental clearance to the project for Saundatti HEP (1200 MW) Integrated Renewable Energy with Pumped Storage Project at village Karlakatti, Tehsil Saundatti, District Belgaum (Karnataka).

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- The EAC, constituted under the provision of the EIA Notification, 2006 and 10. comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- The recommendation of the Expert Appraisal Committee has been examined in the Ministry. The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards/ conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.
- Based on the proposal submitted by the project proponent and recommendations 12. of the EAC (River Valley & hydroelectric sector), Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project for Saundatti HEP (1200 MW) Integrated Renewable Energy with Pumped Storage Project in an area of 228.97 ha at village Karlakatti, Tehsil - Saundatti, District - Belgaum, Karnataka by M/s Greenko Solar Energy Pvt. Ltd., under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of environmental safeguard conditions as recommended by the EAC as well as the standard EC conditions:-

A. Specific conditions

1. Environmental Management and Biodiversity Conservation

- (i) Rain water harvesting shall be carried out. Surplus water and harvested rain water shall be used as irrigation in area.
- (ii) Compensatory afforestation be done by Forest Department, the survival rate of plants shall be maintained more than 95%.
- (iii) Ambient Air Quality Monitoring Stations be installed and real time monitoring data be displayed at site and submitted to respective IRO, MoEF&CC regularly.
- (iv) 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.
- (v) Safe and secured passage to empty the reservoir in case of leakage or any catastrophic events shall be created.
- (vi)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.
- (vii) 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.

2. Socio-economic Study

(viii) Families those are losing their entire agricultural land or left with <1 Ha of their land, at least one member from such families will be getting job in project as per their qualifications.

(ix) Sport complex with multi-sport facility shall be established. The children's from

economically weaker section shall be given free of cost sport facility.

(x) 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.

3. Disaster Management

(xi) Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. No use of single-use plastics be ensured.

(xii) 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.

(xiii) After detailed geological study of muck, re-utilization of muck during the construction of dam is to be carried out.

(xiv) Adequate protection measures should be taken up to avoid any spillage of muck to

the adjoining agricultural fields.

(xv) Muck Transportation monitoring plan shall be prepared and implemented using latest vehicle tracking technologies.

4. Miscellaneous

(xvi) The Multi-Disciplinary Committee to be constituted and the meeting of the committee be held at regular interval.

(xvii) The status of compliance will be submitted to the regional Office of the Ministry along

with six monthly compliance report.

(xviii) 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.

(xix) 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.

(xx) Apart from strengthening the basic amenities in the project affected villages like maintaining drinking water supply, providing health care facilities, etc. CER activities should give preference to education facilities along with amenities in Schools.

(xxi) Provision of permanent job opportunities to project affected families and other villagers as permanent source of livelihood should be explored.

(xxii) Skill development to be provided to the habitants of affected panchayats in the trades which can give them opportunity for employment in the project.

(xxiii) The compliance of the issues raised during Public hearing be ensured in time bound manner and implementation schedule be reported in the six monthly compliance report to IRO, MoEF&CC

(xxiv) Financial provisions made for conservation of biodiversity has to be carefully monitored. The money goes to forest department, there should be a way to check that the work on biodiversity conservation has been done to expectations.

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- 13. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
- 14. Concealing factual data or submission of false/fabricated data and failure comply with any of the conditions mentioned above may withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 15. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 16. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.
- 17. This issues with the approval of the competent authority.

(Yogendra Pal Singh) Scientist 'E'

Telefax: 011-20819364

Email Id: yogendra78@nic.in

Copy to: -

- 1. The Secretary, Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi -3.
- 2. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. AmbedkarVeedhi, Bangalore 1
- 3. The Deputy DGF (C), MoEF&CC Regional Office (SZ), KendriyaSadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore 34
- 4. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi 110 032.
- 5. The Member Secretary, Karnataka State Pollution Control Board, ParisaraBhavan, #49, 4th & 5th Floor, Church Street, Bangalore 1
- 6. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor bagh Road, New Delhi.

7. The District Collector, Belgaum, Karnataka.

8. Guard File/Record File/Monitoring File/Website of MoEF&CC

(Yogendra Pal Singh) Scientist 'E'

Signature Not Verified
Digitally signed by Yogendra Pal
Singh
Scientist E

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