Profile of the User Agency

Greenko Group is India's leading clean energy company, with ~4.8 GW operational portfolio across 15 states in India. Greenko Group has an existing asset base of over USD 5.5 Billion with an equity investment of USD 2 Billion. Greenko enjoys strong shareholder support of the world's largest sovereign wealth funds of Singapore (GIC) and Abu Dhabi (ADIA). Greenko Group has an experienced & diverse management team to develop, execute and operate challenging projects with expertise across large-scale Wind, Solar PV and Hydro projects. The team has recently commissioned one of the World's largest single 816 MW_{DC} Solar PV Plant in Kurnool, Andhra Pradesh within a record time of 6 months.

Greenko Group has over the past 10 years, developed capabilities not just in RE project execution, but also state of the art digital capabilities for efficiently forecasting renewable generation trends in Solar & Wind domains giving it a unique capability to integrate diverse generation streams of energy to lead the creation of a Decarbonized, Digitized future on the Energy sector in India.

Greenko Group has been in the process of evaluating suitable locations for such integrated projects for over 1 year and has identified Pinnapuram, Kurnool District, Andhra Pradesh for the proposed Pinnapuram Integrated Renew able Energy Project (IREP). Pinnapuram IREP has been conceived as the World's First & Largest Gigawatt Scale integrated project with Solar, Wind and Pumped Storage components that can supply Schedulable Power On Demand (SPOD) which is Dispatchable & Schedulable Renewable Energy for the first time to consumers across India.

After evaluating the site for over 1 year, assessing the Wind & Solar resources, Greenko Group has approached the Government of Andhra Pradesh (GoAP) for necessary permissions and approvals for the proposed Project. Presently, GoAP has approved the project with 1000 MW Solar, 550 MW Wind & 1200 MW of Standalone Pumped Storage capacities.

S.No	Description	Details	
01	Name of the Company	Greenko Energies Private Limited	
02	Designation and Address	Gopi Krushna N	
		Dy. General Manager	
		Plot No. I 071, Road No.44, Jubilee Hills,	
		Hyderabad - 500033, Telangana.	
03	Email address	envifor.irepap@greenkoenergyprojects.com	
04	Contact no	040-40301000	
		Fax No 040-23540287	
05	Contact no-mobile	9959666709	

Gopokrushna Authorised Signa

STATE	STATEMENT OF FOREST LAND REQUIR	ST LANI	D REQUIRED FOR ESTAR	BLISHMENT OF STAND/ IREP	KED FOR ESTABLISHMENT OF STANDALONE PUMPED STORAGE COMPONENT OF PINNAPURAM IREP	GE COMPONENT OF	PINNAPURAM
S.L. No	Name of Division	the	Name of the Range	Name of the Beat & RF Block	Name of the Component	Compartment No	Forest Land Area Ha
L1	Kurnool		Kurnool	Ghani RF	Intake structure	117	8.02
2	Kurnool		Kurnool	Ghani RF	Penstock	117	6.96
ε	Kurnool		Kurnool	Ghani RF	Power House &TRC Outlet	117	22.50
					5	115	0.95
4	Kurnool		Kurnool	Ghani RF	Tailrace Channel	116	0.32
						117	1.15
						113	69.00
S	Kurnool		Kurnool	Ghani RF	Lower Reservoir	114	1.72
					8	115	213.10
						116	35.20
					Proposed road		
					1. From Lower	116	4.15
9	Kurnool		Kurnool	Ghani RF	Reservoir to Power		
					house		
					Proposed road		
					2. From Power house	117	2.58
					to Upper Reservoir		
						TOTAL	365.66



Details of DGPS Survey Instruments Used





S.No	Description	Instrument	Persons involved	Period of
		Used		Survey
1	Surveyed & Prepared by	Trimble	Forest Department	
	GIS Team of Greenko		officials and GIS team	2018
	Group		& Environment &	
			Forest Team of	
			Greenko	

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1		Pinnapuram Reservoir - Lower	Lower Reservoir
	а	Top of Reservoir	EL +343.00 m
	b	Full Reservoir level (FRL)	EL +340.00 m
	С	Max Height of Embankment	33.0 m
	d	Top Width of Embankment	10.0 m
2		Powerhouse	
	а	Туре	Surface Powerhouse
	b	Dimensions	L 240.00m x B 24.00 m x H 58.00 m
3		Tail Race Channel	Trapezoidal Channel - Lined
	а	Lenth of the channel	1300 m
	b	Bed Width	70 m
	С	Full supply depth	6.00 m
	d	Bed slope	1 in 5000

Major Salient features of the project

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	BREAK UP OF TOTAL LAND REQUIRED FOR IN	NTEGRATED RENEWABL NNAPURAM	E ENERGY STORAG	E PROJECT -
Sl. No.	Components	Total Area (Ha)	Forest Land Area (Ha)	Non-Forest Land Area (Ha)
1	Upper Reservoir	280.17	-	280.17
2	Intake Structure	10.61	8.02	2.59
3	Penstock	6.96	6.96	-
4	Power House & TRC Outlet	22.75	22.50	0.25
5	TailRace Channel	16.83	2.43	14.4
6	Lower Reservoir	319.02	319.02	-
7	Pot Head Yard	0.25	-	0.2
8	Proposed roads: from Power House to Lower Reservoir from Lower Reservoir to Power House	10.41	6.73	3.6
9	Contractor facilities, cement and E & M stores, Temporary colony area. (2 Locations) (5.5ha +5.0ha)	10.50	-	10.5
10	Muck disposal areas	21.00	-	21.0
11	Quarry Area	15.00	-	15.00
12	Magazine	0.05	-	0.0
	TOTAL	713.55	365.66	347.89

N. Gov bine ELE ENTRE ES DE CD + GRE LELIN