



एन.एल.सी इंडिया लिमिटेड **NLC India Limited**

(पूर्व में नेयवेली लिग्नाइट कॉर्पोरेशन लिमिटेड) (formerly Neyveli Lignite Corporation Limited)  
(“नवरत्न” – भारत सरकार का एक उपक्रम) ('Navratna' - Government of India Enterprise)

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## **NLC INDIA FORAYS INTO RENEWABLE ENERGY**

**Installing 500 MW Solar Power Plants for Rs.2170 Crore at various places of Tamilnadu !**

The Success of the 10 MW Pilot Solar Power Plant, which was set up at Neyveli flagged to set up more such plants in various places of Tamil Nadu at a cost of Rs.2170 Crore with a capacity of 500 MW, as a part of NLCIL's Solar Mission of 4000 MW in various parts of the country.

### **Renewable Energy**

The renewable energy now becomes popular around the world, as the natural, non-renewable sources, such as Lignite, Coal, which may become extinct, in the course of time. By using the untapped natural resources such as Sun Light, Wind, not only, the dependency on non-renewable natural resources would reduce, but also, the Environment Pollution would also be drastically been reduced.

### **National Solar Mission**

Government of India with its National Solar Mission has planned to establish, Solar Power Plant with an installed capacity of One Lakh Mega Watt, before the end of 2022. To support the National Target in time, NLC India joins hands with the Government of India to establish, 4000 MW Solar Power Plants at various parts of Country as its share; and the process is moving on.

### **Pilot Plant**

On an experimental basis, a pilot project of Solar Power Unit with a capacity of 10 MW at the cost of Rs.75 Crore was installed near Neyveli Air Strip by NLC India Limited. The success of the project, paved way for us to add 130 MW (65 MW x 2) Solar Power Units at Neyveli and the work was assigned to M/s. BHEL and M/s. Jackson Engineers Ltd., each with 65 MW. About 650 acres in north and west side of the Neyveli Township were apportioned for this purpose.

### **Solar Power Project at Andaman Island**

NLC India Limited received a plea from Union Ministry for New & Renewable Energy to establish a Solar Power Plant at Andaman & Nicobar Islands. To comply with, NLC India Limited proposed to establish 20 MW Solar Power Plant at Attam Bahar at South Andaman and 30 MW Solar Power Plant at Kishori Nagar, North Andaman. The foundation stone was

laid down at Attam Bahar; and the tendering work is under progress. The project is proposed to be installed with sufficient capacity of battery energy storage system, to cater the power needs of the island throughout the day time and even in peak demand period. Also, the preliminary works for Solar Power Project at Kishori Nagar has already been initiated.

#### Rs.2170 Crore Solar Power Project

The company is going to establish, 500 MW Solar Power Plant at various places of Tamilnadu, NLC India Limited floated tenders and obtained quotations from different firms, subject to a minimum formation capacity of 50 MW. The power thus generated from the Rs.2170 Crore projects, would be given, totally to Tamilnadu Power Generation & Distribution Corporation (TANGEDCO), for which, necessary Power Purchase Agreement has already been signed. It is expected to generate 83 Crore Unit of power per annum, by taking into consideration of 19% of capacity utilization factor (CUF) on an average. The power would be generated within 13 months, from the date of work order, given.

#### Solar Development Operator

All the agreement for the projects would be made under the new system of Solar Development Operator Mode. According to it, the company/firm, selected would identify the land to carry out the project, acquire necessary land, obtain permission from the respective authorities, design, install and commission the generation of Power, evacuation of power to TANGEDCO, Operation & Maintenance for 15 years would be contracted under the new system.

#### Reverse Auction

Inviting Quotations, Selection of Firms for the projects were done completely with transparent procedures. At the final stage, the work order was given to the firm, who has come to execute the work at lowest rate, under Reverse Auction scheme. Recently, to fix an agency to obtain loan from banks, NLC India Limited adopted the system of Reverse Auction; by which, reduction in interest payable amount has put the exchequer, the savings of Rs.460 Crore.

#### New Power Plants for Neyveli

A new Lignite based, Thermal Power Station with a capacity of 1000 MW, as replacement for the existing 60 year old Thermal Power Station-I (600 MW) is under progress at Neyveli in Tamil Nadu. Also it has planned to set up a lignite based, Thermal Power Plant with a capacity of 2640 MW at Neyveli, for which the Lignite would be spared from the proposed Third Mine with a production capacity of 1 Crore 15 Lakhs Ton per annum. In addition the company is operating a 1000 MW coal based Thermal Power Station at Thoothukudi through NLC Tamil Nadu Power Ltd., A Joint Venture Company incorporated by NLC India and TANGEDCO.

Odisa :

Solar Power Plant :

Tender has been floated to set up a 250 MW Solar Power Plant in Odisha. The evacuation of power, to be obtained from the project would be made to Odisha State Electricity Board, for which, steps had been taken to make the power purchase agreement with them.

Thermal Power Plant :

The Government of India has allotted a Coal Mine at Thalapira in Odisha State to NLC India Limited. The coal excavated from the mine would be utilized for the proposed 4000 MW Pit-Head Thermal Power Plant.

3000 MW in Three States :

Solar Power Plant :

Also, the preliminary works are in progress, Dispense of Power, to set up 1000 MW Solar Power Plant, each at Uttarpradesh, Madhyapradesh and Maharashtra States.

Thermal Power Plant :

It is worth mentioning, that, construction works for a coal based Thermal Power Plant with a generating capacity of 1980 MW is under progress at Kanpur District, Uttarpradesh. The coal required for the project would be transported from Pachwara Coal Mine in Jarkand State, which was allotted to NLC India Limited by the Central Government.

Wind Mills

Under Renewable Energy Plan, NLC India Limited is setting up 34 Wind Mills with a production capacity of 1.5 MW, each. Of which, power from 29 Wind Mills had already commenced. It is also under plan of NLC India Limited to set up more wind mills with power generating capacity of 200 MW in Tamil Nadu.

2 Crore Unit per Hour

NLC India Limited has plan to generate power with a total capacity of 20,971 MW (2 Crore 9 Lakh 70 Thousand Units per hour), at the end of year, 2025, which includes Thermal Power Plants and Renewable Energy Projects. It is significant to note, NLCI's thermal power plants are fuel-sufficient. To cater the needs of all Thermal Power Plants, to be established by the company, it is proposed to increase the Lignite production capacity to 6 Crore 21 Lakhs Tonnes per annum and the coal production capacity to 3 Crore 10 Lakhs Tonnes per annum.



EXE. DIRECTOR/T.A/PR/CSR/EDN.