

# KONECRANES: TOWARDS GREENER LIFTING PRACTISES

## First plant to be installed in Konecranes globally!

### QUICK FACTS

- ❖ Location: Pune (Jejuri)
- ❖ Capacity: 730 kWp
- ❖ Type of system: Metal roof
- ❖ Type of modules: Polycrystalline
- ❖ Type of inverters: String
- ❖ Annual generation: 11 lac units
- ❖ Carbon dioxide abated: 1096 MT annually
- ❖ Date of commissioning: August 2016

### THE FIRST EVER SOLAR PLANT

Sustainable growth is what drives the senior management at Konecranes. It's the same aspiration to adopt eco-friendly business practices that convinced Konecranes to go solar by bringing their first ever solar plant at Jejuri near Pune, Maharashtra. CleanMax Solar turned out to be the clear choice, beating all the competitors, because of the state of the art solutions it offered. Thus began a partnership, which gave Konecranes its first ever solar power plant globally.

### THE FIRST EVER SOLAR PLANT

Konecranes management was highly impressed with the BOOT model. Under this arrangement, Konecranes could get solar power plant with no operational risks on Konecranes and the billing would be done as per the plant generation. CleanMax Solar took upon itself the responsibility to maintain the plant and ensure uninterrupted power generation. Subsequently, structural stability analysis was done which suggested that the company could install 730 kWp solar power plant on its roof and generate approximately 11 lac units annually.



### Safety at the Core of Everything

As an organisational policy, CleanMax Solar takes efficient safety measures during plant installation to avoid any work-related accident. End to end harness, safety gears, lifelines and high quality personnel protection equipment were used. Executive ladders were placed for people inspecting the plant and skylight demarcation was highlighted as well.

### Sustainable business practice

The plant is spread across an area of 7,300 sq m and is expected to generate 11 lac units annually. To ensure smooth functioning and on par performance, high quality Delta inverters have been used. The plant was commissioned in August 2016 and is expected to reduce Konecranes' carbon footprints by 2,575 tons during the lifetime of the project. This is equivalent to saving almost 11,500 trees.

### Net metering

The plant has been working in accordance with net metering allowing periodic surpluses, such as on weekly holidays to be exported back to the grid in a manner where Konecranes gets credit for the units exported to the grid. The plant is expected to save around 17% of electricity bills, starting right from the first day of generation, amounting to more than Rs 25 lacs annually. In fact, the plant will also help reduce temperature in working area by 1.5 to 2 degrees as heat absorption shall take place at roof by solar panels.

In order to ensure hassle free power generation, the plant will be monitored 24\*7 through remote monitoring system installed by CleanMax Solar. This will provide crucial data such as live energy generation, plant performance over the years and the saving achieved so far.

### KEY CHALLENGES

- ❖ Ensuring strong safety measures are in place to avoid any potential hazards

### HIGHLIGHTS

- ❖ Konecranes' first facility to go solar across continents
- ❖ Energy cost reduction of up to Rs 25 lacs annually

### ABOUT KONECRANES



With over 12,000 employees at 600 locations in 48 countries, Konecranes is a world-leading group of lifting businesses, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals.

### ABOUT CLEANMAX SOLAR



Founded in 2011, CleanMax Solar is India's largest onsite rooftop solar developer with 55 MWp installations in more than 100 projects. The company has been adjudged as the best rooftop solar developer as well as best solar EPC player by Ministry of New & Renewable Energy.

#### Disclaimer:

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