



# Eco Active Energy Solutions

An envision to sustain

Infront of Police Station, Civil Line, Risod , Dist. Washim. Phone: 9049973330, 9096825007  
Email id: ecoactivesolar@gmail.com

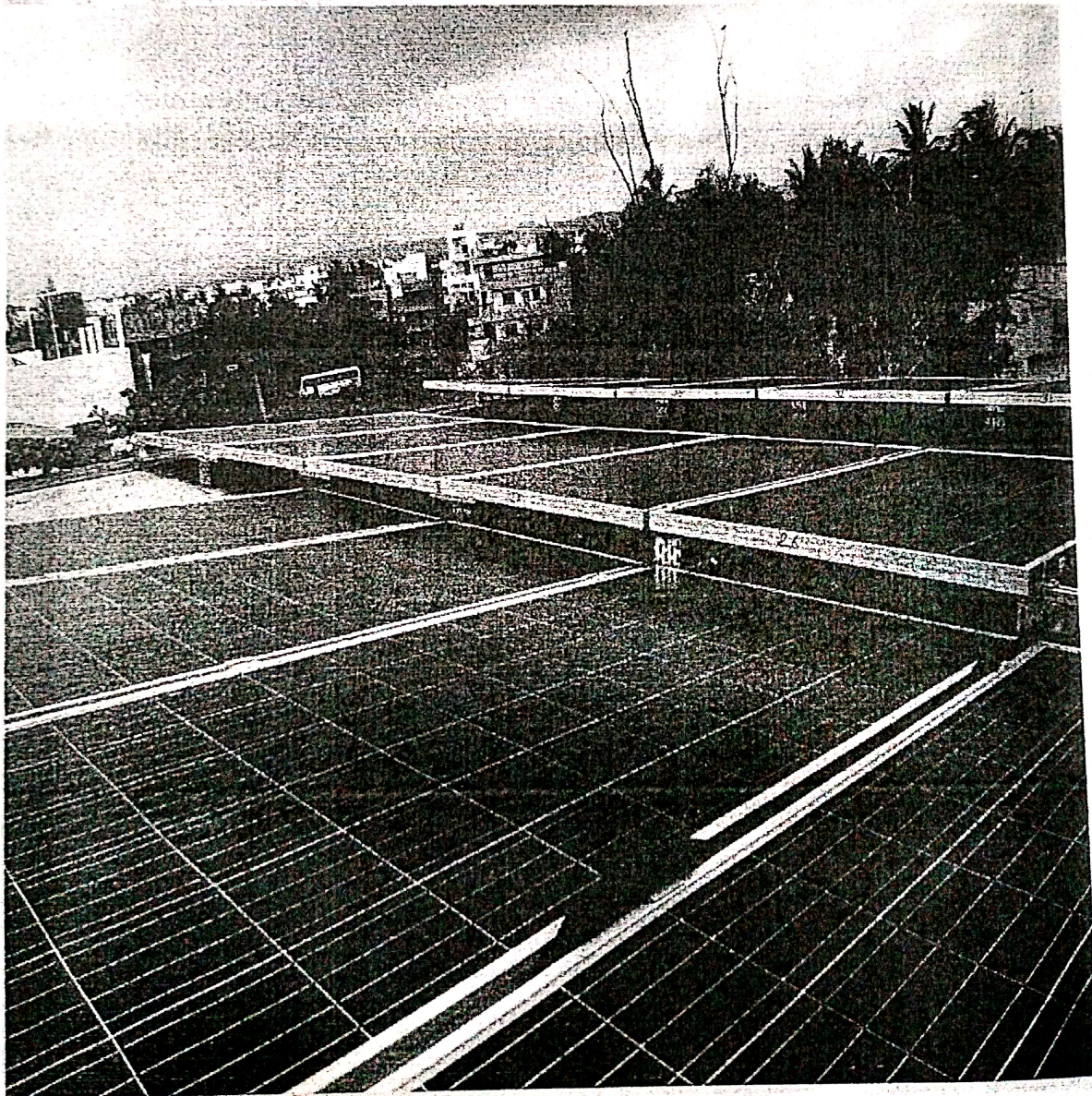
## Proposal for Rooftop Solar Power Plant

DESIGN, ENGINEERING, SUPPLY, ERECTION, INSTALLATION, TESTING AND COMMISSIONING

DOC. Ref. No: 0912

Site: Lakhdatar Farmer Producer Co. Ltd, Chandur Railway

Capacity: 40 KWp





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## Location Analysis:

Solar Irradiation: 5.45 kWh/m<sup>2</sup>/day (As per metrology department)

Sun path: Additional fabrication cannot be required as the terrace is facing in south direction only.

Longitude: 77.97° E

Latitude: 20.81° N

Considering the Latitude / Longitude of the site, for optimized results all through the year, it will be necessary to place the PV panels tilting @ 05-14 degrees facing south.

## System Basic Design at Site:

Site Visit	Current usage, available space, working conditions, current unit rate considered.
Type of roof	Flat
Monthly Requirement	average -
Possible installation	As per requirement
Recommended installation	40 kw/p
Object	To reduce monthly expenditure on conventional electricity with the help of solar plant.
Timings	Generation of power will be during day time i.e. the Sun-shine hours.
Usage	Any time without losses after net metering



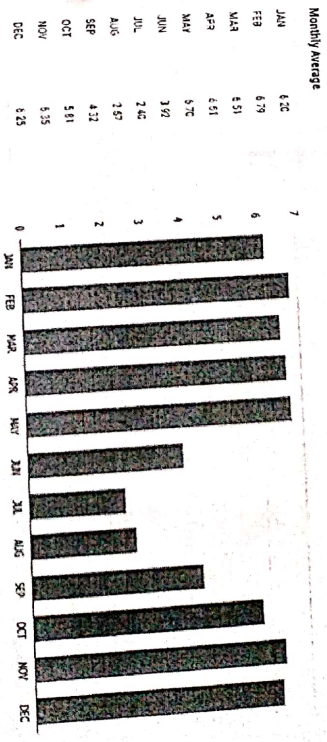
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## Chandur Railway, Amravati, Maharashtra

Latitude: 20.15 °N, 76.46° 11' E  
Annual Average : 5.37 kWh/m<sup>2</sup>/day



## Conclusion:

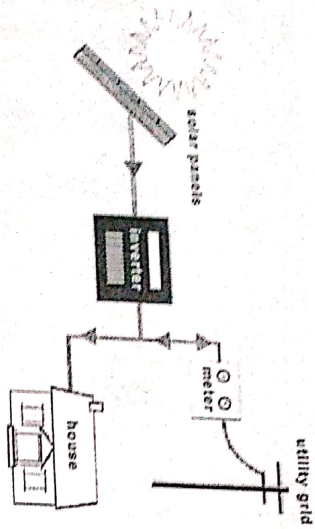
- The latest average solar irradiation as per metrological data is 5.37 kWh/m<sup>2</sup>/day. Accordingly expected per year generation is 57600 units.
- Generation will be different for different month as per the solar irradiance of that particular month.
- The maximum wind load bearing capacity of the structure is 120kms/hour.

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What is Grid-tie Solar rooftop power plant:



## Advantages of Grid-Tied Systems:

- A grid-connection will allow you to save more money with solar panels through better efficiency rates, plus lower equipment and installation costs.
- Batteries are not there so there is no maintenance.
- Unlike solar, prices of other sources will keep increasing.
- It is Ultra clean source of energy and will help green environment.

## Connection to net metering System:

- Solar Power Project will be synchronized with the Grid of MSEDCL.
- Excess generated power will go to Grid and you will get the benefit of such supply.
- At the time of Grid power failure, the solar system will disconnect power supply.

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Commercial offer for 40 kwp Grid-Tie Rooftop System:

Sr. No	Item	Proposed Vendors
1	Modules	NOVASYS GROWATT
2	Inverter	MS Structure Rails for Panel Mounting, Aluminium U and Z Clamps, SS 304 Bolts for fastening of Modules, Pre galvanized/MS Painted Super Structure. Structure to the height of parapet wall, FRP Structure can be provided as per the requirement.
3	Structure	
4	AC Cables (LT)	4 Core Armoured for system larger than 25 K W
5	DC Cables	UV Protected DC cable(Pure Copper), TUV Approved 4/6 sq.mm
6	Connectors	ISI approved
7	Lightening Arrester	Copper Coated, Standard Three Pronged LA
8	DCDB	Standard Switchgears
9	ACDB	Standard Reputed Make Switchgears
10	Earthing	Maintenance free chemical filled earthing with heavy duty earthing rods
11	Earthing Conductor	GI Strip (25x3) for plant Structure Earthing/ Copper cables * as per the site location.
12	PVC Conduit	ISI
13	Net Meter	MSEDCL Approved Net meter

Total Price of the power Plant **21,88,000/-** Including taxes

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## Your scope:

- Earth pit for DC Earthing.
- AC Earthing
- AC Cabling if more than 20 mtts.
- Grid connection up to inverter.
- Suitable covered space near solar system to install inverter with necessary Junction box.
- Provision for ventilation.

## Warranty:

The set up will carry One year warranty from the date of delivery.

- Inverter – Manufacturer's Five or Seven (depends on make) years back to back warranty from the date of installation.
- Solar Panels: 25 years generation warranty.
- Limitation to Liability: In no event shall we be liable for any consequential damages and/or losses arising out and connected with this supply order in any manner what-so-ever. Our liability is limited to defect or failure of the system. Any changes in connection or cabling without our notice will treat warranty null & void.

## Delivery, Installation and commissioning:

- Delivery: 1 week
  - Installations: 1 week
  - Commissioning: 1 week
  - Net metering: 3-4 weeks
- Payment terms:**
- 75 % advance against purchase order.
  - 20% against material dispatch.
  - 5% after installation.

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## Key Points:

- A detailed site survey is to be done before the initialising the project.
- Kindly check the contract load before initialising.
- All transport and material will be used as per the location of the site.
- Civil work and additional load charges will be in your scope.
- Time required for net metering and commissioning depends on the time taken by the MSEB officer.

## OUR ACCOUNT DETAILS

Name: Eco Active Energy Solutions  
Bank: HDFC Bank  
Branch: Risod  
Account No.: 50200058935775  
ISFC Code: HDFC0005892  
GSTIN: 27AAJFE0104E1Z2

## Contact Person

Mr. Parash Agrawal  
Mo. No. 9096825007

Mr. Ronak Toshniwal  
Mo. No. 9049973330



Please turn over for some of our installed sites...

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