

MAYWELL ELECTRIC PRIVATE LIMITED PRIVATE LIMITED., INDIA embarked on an exciting journey to develop Solar Projects and provide Ecofriendly power alternatives in India. Our Plan is to be a key player in India in EPC Solar Segment in near future. Solution Provider with expertise in all aspects of Project Consultancy, Pre-feasibility Analysis, Detailed Project Report, Statutory and Non-statutory clearances and liaising with Electricity Board & other Government Bodies, Site Supervision during construction, Consultancy for Carbon Solutions and REC mechanism of Utility Scaled Projects, Rooftop/Off- grid Solar Photovoltaic Solar Power Projects along with other RE Projects.

MAYWELL ELECTRIC PRIVATE LIMITED is focused on bringing the best green energy technologies available in the world, for its varied projects – with the intent to reduce carbon footprint and create sustainable energy solutions.

MAYWELL ELECTRIC PRIVATE LIMITED's core areas of technology partnering are as diverse as the solutions themselves; and each solution is specifically tailored to address a 'best fit' situation.

1 MW Ground Mount Solar Power Plant – Andhra Pradesh

Location of the proposed Project to be installed

Site Longitude	: 80.77963
Latitude of the Site	: 16.942569
Altitude of the Site	: 466 meters
Proposed Solar Power Project Capacity:	5 MW
Total extent of Land Available	: 12 acres
Shadow free land area	: 12 acres
Obstacles	: No big trees. No Hillocks causing shadow.

Distance of nearest substations

Chatrai mandal 33/11 KV SS : 4.5 km – 6 Km

Soil nature	: Red Cotton soil with Rocky terrain
Availability of water	: Sufficient water is available. Site near to a lake.
Drainage System	: very good
Approach road	: Visannapet Near Nuzvid, Nearest city Vijaywada
Connectivity by Road	: very good
Connectivity by train	: Vijaywada - Nuzvid
Connectivity by Air	: International Air port, Vijaywada
Distance from urban infrastructure:	23 KM Nuzvid
Availability of labor	: Plenty
Social Support for the Power Plant:	Very good
Security	: Secured Zone

Power Purchase Plan

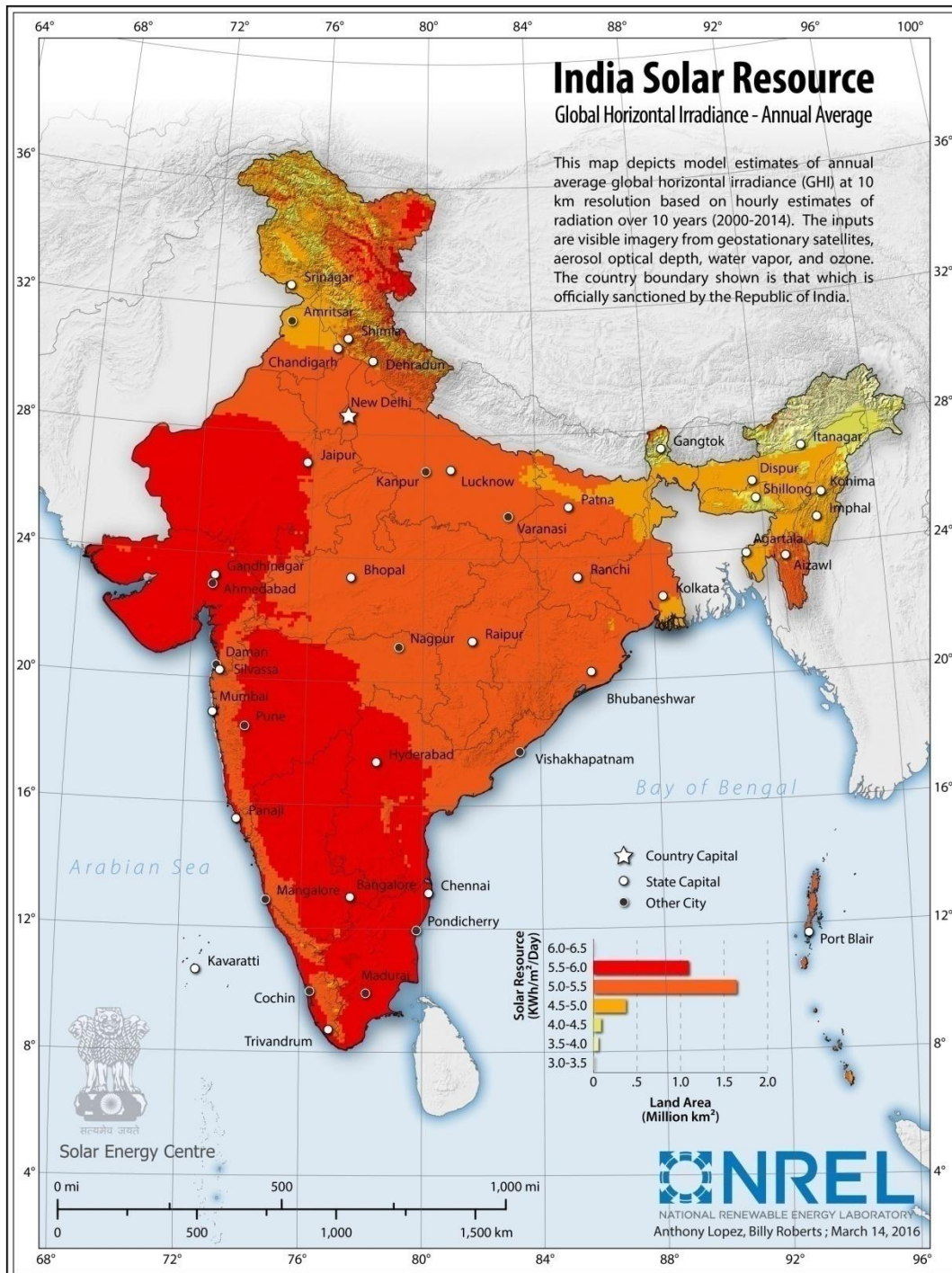
Power off-taking plan	: captive consumption in Open Access
Power off-takers	: Multiple companies located within the discom
PPA duration	: 20 yrs
PPA rate	: INR 4.00 - 4.50 with escalation 2%, proportional to Govt.
escalation	
COD	: 2017

Financials

Cost of setting up 10 MW EPC	: INR 1500000
Expected term of the plant	: 25 yrs
Annual power generation	: 1 x 15,00,000 Kw
Average cost of sale of electricity	: INR 4.00 per unit
Degradation of plant for first 10 yrs	: 0.05%
Degradation of plant from 11-25 yrs	: 0.67%
Yearly escalation in cost of electricity	: around 3% (in line with Govt escalation)
Expected rate of interest for debt	: 5% (trending foreign investment)
If Equity	: 20% for 10 yrs & 50% for the remainder
Repayment period for debt funding	: 6 to 9 yrs
O&M cost of plant	: INR 5,00,000 per MW annually
Depreciation	: 5.28%

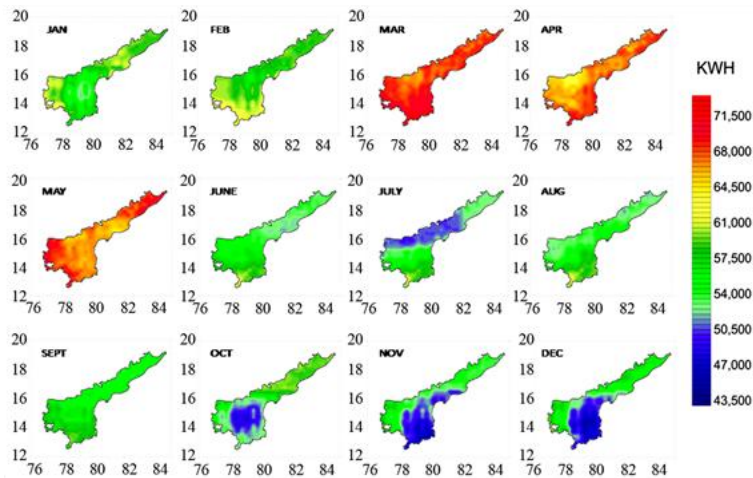
EPC & DEVELOPER : MAYWELL ELECTRIC Private Limited

SOLAR IRRADIATION IN INDIA



India still need 21 GW by year 2020

SOLAR IRRADIATION IN ANDHRA PRADESH



INCENTIVES TO GO SOLAR IN INDIA :

Net Metering : Net Metering allows the Solar Projects Owner to feed the excess Solar Power to Grid when the load available is low.

Accelerated Depreciation : Accelerated Depreciation of 80% is available under the Income Tax act for the Commercial and Industrial Rooftop Solar PV Systems. This can provide significant savings to a PV Power Plant generator who is a taxable assessee and has sufficient profits against which the Depreciation can be charged.

Section 12 : Indian Income Tax Act provides AD of 80% of the Invested Capital in to Solar PV Projects to Professional companies with Tax Liability. Investors can set off their tax liability on the Taxable Income to the tune of 80% in the 1st Year and subsequent 20% in the 2nd year.

Section 80-IA (Sub section 4) of Income tax Act, 1961 allows 100% tax waiver on the income generated for any single 10 year period during first 15 years of operational life of a power generation project.

EPC Scope Matrix for Solar Power Farms

TASKS & RESPONSIBILITY MAYWELL ELECTRIC PRIVATE LIMITED EPC

General Contract and Administration

- 1 Site Selection
- 2 Soil Testing
- 3 Site Survey, Generation Estimates, Site Layout Map
- 4 Permission / Agreement with Utility or SNA

5 PPA with Utility or SNA

6 Obtaining Statutory Approvals

7 Approval for Grid-Connection with Utility

8 Construction Approval from Local Bodies

9 Land Development

10 Construction Work (license)

11 Electrical Work (license)

12 Grid Connection Fees

13 Transmission Line

ENGINEERING – General

1 **Project Basic Engineering:** Design & Selection of Modules, DC & AC, Power Connections, Inverters, Cables, String sizing, Monitoring system

2 Preparation of Project Schedule with milestone plan

3 Spec Sheet Preparation of Major Components

4 Approval of Basic Engineering Design

CIVIL AND MECHANICAL ENGINEERING

1 Survey of Land Levelling

2 Preparation of Detailed Foundation Layout

3 Designing of Civil Foundations & GA Drawing

4 Generation of BOM and Specs for Civil Foundations

5 Approval of GA Drawings

6 Designing of Structures & Structural GA Drawing

7 Approval of Designs and GA Drawings

8 Generation of Structural BOM and Purchase Specs

9 Generation of Structural Fabrication Drawings

10 Procurement of Materials as per spec sheet

11 Carrying out Civil Works

12 Structure Fabrication and Installation

13 Inspection of Civil Works / Fabricated Structural

MODULES

1 Supply and Erection of Modules & Inter-Connection as per Design

ELECTRICAL ENGINEERING

1 Preparation of SLDs for AC & DC systems, including HT

2 Preparation of Spec sheets for Inverter, Distribution / JUNCTION BOXES, Cables, Monitoring system, Transformers, HT Yard etc.,

3 Design of Cable Routing Drawing (AC & DC systems)

4 Preparation of BOM.

5 Procurement & Installation of Cables, Inverters, Monitoring system, Junction / Distribution Boxes, Step-Up Transformer, HT systems and other related Equipments / Accessories

6 Testing & Commissioning of Electrical & Monitoring systems

Inspection, Supervision & Training

1 Training to Contractor's Staff & Client's Staff

2 Inspection of Incoming Materials and Acceptance as per Quality Standards

3 Supervision of Installation Process as per Quality Standards

4 Project Management

5 HSE Management:

6 Waste Management: Reducing Waste and Increasing re-cycling

Commissioning

1 Testing of systems and pre-commissioning.

2 Commissioning & connection with grid

Others

- 1 Transport and custom clearance
- 2 All risk – Marine cum erection Insurance (MCER)
- 3 Corrective maintenance (for duration of warranty of contract)
- 4 Remote monitoring and analysis
- 5 Security at site up to commissioning
- 6 Fencing
- 7 Internal Lighting & roads

* Necessary technical documentation / support will be provided by MAYWELL ELECTRIC PRIVATE LIMITED

team

** Additional, to be discussed during contract.

Yours Sincerely,

Vedvyas V

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Land Photos:

