PROPOSAL FOR A PHOTOVOLTAIC PANEL PRODUCTION LINE

8 MW – 30 MW

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PROPOSAL FOR A PHOTOVOLTAIC PANEL PRODUCTION LINE 8 MW TO 30 MW:

Anjali Exim is a company with a vision to use and implement renewable energy technology for generating Solar Power for commercial purpose. Our main focus areas are selling of PV (photo voltaic) panel manufacturing plant. The mission of the company is to make more affordable solar system for a better future of our planet.

We offer complete turnkey solutions for our products. We are having team of experts who have been educated from well known education institute and having very good hands on experience of solar industry. We have strong relationship with many research institutes across the globe for developing efficient solar panel for generating maximum solar power.

Our groups are in the business of solar module manufacturing, laser, textile, waste recycling and solar module manufacturing equipment.

Renewable energy is the emerging sector. Because of global warming effect, high price of crude and economic recession, world is in a search of clean alternate source of energy. We strongly believe that renewable energy is the next revolution after semiconductor and computer business. Solar is the most aggressive energy in all the renewable sources of energy.

Today most of the developed and developing countries have introduced solar incentive policy. Indian government is promoting production of Solar Power. Indian government introduced ‘NATIONAL SOLAR MISSION’, in which government targeted 20000 Mw of installed solar generation capacity by 2020 and 100,000Mw by 2030.
**PV MODULES:**

Flat-plate photovoltaic collectors contain an array of individual photovoltaic cells, connected in a series/parallel circuit, and encapsulated within a sandwich structure with the front surface being glass or plastic. Solar energy falls directly upon the photovoltaic cell front surface and produces a small direct current voltage, providing electrical energy to a load.

Like flat-plate photovoltaic collectors (panels) absorb both energy coming directly from the sun's disc, and diffuse and reflected energy coming from other directions. In general, flat-plate photovoltaic panels are mounted in a fixed position and tilted toward the south to optimize noontime and daily energy production. However, it is common to see flat-plate photovoltaic panels mounted on mechanisms that track the sun about one tilted axis, thereby increasing the daily output of the panels.

All state government in India is also introducing their own solar policy too. We strongly believe that solar technology is the most emerging technology among all renewable energy technologies. Sun is an infinite source of energy for our earth.
**PROJECT DETAIL:**

We are pleased to offer you our solution for producing photovoltaic panels with an output of 8mw/year to 30mw/year from 3 shifts, 280days. We are also listing the material and service required in order to start up production on the plant on a turnkey basis.

The ANJALI EXIM line from 8MW to 30MW includes the following items:

1. Production equipments.
2. Technology of the PV process
3. Special lay out for your factory
4. Set up and installation in the customer facility
5. Transfer of know-how with the training in your site.
6. Demonstration runs of the module production cycle
7. Comprehensive spare parts kit.
8. One year equipment warranty
THE PV MODULE PRODUCTION PROCESS:

- Cutting EVA and placing it on the glass substrate, using the Film Cutting Machine
- Assembling and soldering strings of cells interconnected with metal ribbons using the Tabber & Stringer. Strings can be unloaded on the Lighting Table for the visual inspection or placed directly on EVA on glass.
- Aligning and placing strings on EVA on glass thanks to the Lay out Machine (option of the Tabber & Stringer)
- Completing the module laminate circuit by soldering bus ribbons to connect the strings together and provide output leads at the busing station.
- Visually inspecting and electrically testing the module laminate circuit by measuring its dark I-V characteristics at the inspection station.
- Cutting EVA and back sheets to length and assembling them with the glass and cells circuit, in preparation for the encapsulation.
- Laminating the sandwich and curing the EVA with the Laminator.
- Completing final assembly, which includes edge trimming at the Trimming station, installing and edge gasket and frame with the Frame Assembly and attaching a junction box at the JB station.
- Performing a high voltage isolation test to measure the voltage isolation between the cells circuit and the module frame, and testing the frame ground continuity.
- Electrically testing the module under simulated sunlight with the Solar Simulator to measure its performance.
- Visually inspecting the completed module for quality of materials and workmanship.
Solar Panel Manufacturing Plant


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Thank You . . . !!!!

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