



CASE STUDY

150 kW Rooftop Solar Project PALM SPRING CENTRE.

Palm spring center is an established & prominent commercial building on Link Rd, Malad (W), Mumbai housing corporate offices & commercial showroom with restaurants. The common electricity bills for common utilities power was more than INR 3 Lacs PM @ INR 14 per unit. Palm spring committee therefore desired to put up a grid connected solar power generating system. We at **Penta Solar** along with **Team MNM (Tata power solar)** offered a solution to install solar power project on their rooftop, that would substantially reduce their power consumption bills and free-up their initial capital investment in three-four years.

Upon evaluation it was observed that there was plain terrace space available along with RCC lift rooms & an outdoor, open to sky, restaurant space 20 ft below the terrace level. With this challenge, we designed a super elevated structure on the top of outdoor restaurant space along with monoslope structure matching the structure on plain rooftop space. Further, the RCC Lift room loft was also utilized and designed a 150 kW mammoth solar project. Today it is successfully generating an average of 500 units of power daily thereby reducing the average monthly bill to INR 18000 PM.

Not only has there been saving of INR 11 per unit of power consumed, but the capital cost of the system will also be zero in four years and the power generated would be absolutely free of cost.

150 kW PALM SPRING CENTRE – DESIGN, MANUFACTURING & SUPPLY



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