

Minimum requirement for installation of Solar Powered Public EV Charging Stations


1. Minimum 100 m² land area near NH/ / Main road/State Highway (Preference for malls, office complex, Restaurant and Hotels)
2. Refreshment facility.
3. Wash room facility.
4. KSEB feasibility for Service Connection of 80Kw connected load
5. If KSEB feasibility is not available, separate 100/160 KVA transformer is required for one Public EV Charging Station Hub (Rs.3-6 lakhs is required for Transformer and accessories)
6. CCTV camera and security for the site.
7. It is advised that, charging stations may be connected with renewable energy source of required capacity, as per MNRE guidelines, so as to ensure grid stability and green energy for electric vehicles. Such Public Charging Stations (PCSs) may also be connected to the Grid to ensure round the clock operation. Minimum 50 Sqm shade free area is required for installation of 5kW solar power plants. 5kWto 50kW solar power plants can be installed depends on site conditions.
8. Detailed civil drawing of the cite
9. Approximate Investment -₹15 -₹20 lakhs per site.

Terms and conditions of Solar Powered public EV Charging Station Programme

1. Site Survey, Site Feasibility, Technical support for selection of EVCI machine and support for service connection will be done by ANERT.
2. If the land owner is not interested for investment of EVCI machines, ANERT will identify the investor and land owner can executed an agreement with investor for minimum 10 year contract for operation of EVCI machines. ₹0.70ps/unit will be given to land owner as land rent. Land owner should also permit to install and operation of solar power plant for minimum 10 year period in the proposed land.
3. Type test certificate from NABL approved laboratories is required for all EVCI machines
4. The Specifications and standards of all EVCI machines should be as per guidelines of Ministry of Power, Govt of India.
5. Primary location assessment survey report (with GPS co- ordinates of the proposed site).
6. All EVCI Machines should have 5 year comprehensive warranty or 3 year warranty with 2 year AMC.
7. ANERT will provide special incentives for Solarisation of EVCI Project.
8. ₹5 per unit will be charged by KSEB for Public EVCI project as electricity charge.
9. The Installation work of panel board and cabling work shall be done through licensed Electrical contractor.
10. The proper earthing should be done as per IS standard.

A digital platform to book chargers, online booking of specific time slot, integrate of all available mode of project , location of EV Charger, such real time information to EV owners, information regarding location,type,the number of chargers installed,cost of charging,available slots will be provided by ANERT.

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Approximate Cost Estimate of Public EVCI

1.	50 kW CCS II Machine	₹ 12,00,000/-
2.	15 kW DC 001 Machine	₹ 2,00,000/-
3.	10 kW AC 001 3 Gun	₹ 60,000/-
4.	5kW combined charger (multi function)	₹ 40,000/-
		<u>₹ 15,00,000/-</u>
5.	Service connection charges for 80 kW load	₹ 30,000/-
6.	Security deposit for 80 kW	₹ 80,000/-
7.	Line extension work or cabling work (₹50,000- ₹2,00,000/-)	₹ 50,000/-
8.	Civil Work, fencing, canopy work, CCTV Camera etc (₹1, 00,000 -₹2, 00,000/-)	₹ 1,00,000/-
9.	Additional Transformer (if required) (₹ 3-6 lakhs) (100kVA/160kVA)	₹ 3,00,000/-
10.	Approximate Cost of on grid solar power plant. (₹ 2-5L)	₹ 2,50,000/-