

No. 32/24/2020-SPV Division  
Government of India  
Ministry of New & Renewable Energy

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Block No. 14, CGO Complex  
Lodhi Road, New Delhi  
Date: 18 August 2021

**ORDER**

**Subject: Benchmark costs for Off-grid and Decentralized Solar PV Systems for the year 2021-22 –reg.**

I am directed to convey the approval of competent authority for issuing the benchmark costs for Off-grid and Decentralized Solar PV Systems applicable for MNRE Schemes for the year 2021-22. System-wise benchmark costs are as under:

**(i) Standalone Solar Pumps**

Pump Capacity	USPC	Benchmark Costs (Rs. / pump) *	
		General States/ UTs	NER/ Hill States & UTs/ Island UTs
1 HP	without USPC	1,05,500	1,14,900
2 HP	without USPC	1,34,700	1,46,800
3 HP	without USPC	1,81,100	1,97,300
	with USPC	2,17,300	2,36,800
5 HP	without USPC	2,55,500	2,78,400
	with USPC	3,06,600	3,34,100
7.5 HP	without USPC	3,55,100	3,87,000
	with USPC	4,08,300	4,45,000
10 HP	without USPC	4,44,200	4,84,100
	with USPC	5,10,800	5,56,700

\* Cost of solar pump as per MNRE specifications including remote monitoring

**(ii) Solarization of Grid-connected Individual Agricultural Pumps**

Capacity	Above 1 kW and up to 3 kW	Above 3 kW and up to 6 kW	Above 6 kW and up to 10 kW	Above 10 kW and up to 15 kW
Benchmark Cost (Rs / kW) #	48,300	47,100	44,300	41,000

# Cost of solarization (Rs./kW) as per MNRE specifications including remote monitoring

### (iii) Solar Lighting Systems

System	Benchmark Costs (Rs. per system)
Solar Study Lamps <sup>^</sup>	395
Solar Street Lights (with Li batteries) <sup>\$</sup>	14,200

<sup>^</sup> Solar study lamp with 2.5 Wp solar panel, 1 W LED luminaire and 3.2 V – 2000 mAh Li battery as per MNRE specifications

<sup>\$</sup> Solar street lights with 75 Wp solar panel, 12 W LED luminaire and 12.8 V – 30 Ah Li battery as per MNRE specifications


### (iv) Standalone Solar Power Plants/Packs

Capacity	Battery back-up (hrs)	Benchmark Costs (Rs. per Wp) <sup>@</sup>	
		General Category States/ UTs	North Eastern States/Hill States & UTs/ Island UTs
Up to 10 kW	6	94	103
	3	74	81
	1	62	68
Above 10 kW and up to 25 kW	6	84	92
	3	66	72
	1	55	60

<sup>@</sup> Cost of solar power plant (Rs./Wp) as per MNRE specifications including remote monitoring

2. For applications where separate benchmark costs are not specified for specific States/ UTs, same benchmark costs will be applicable in all States and UTs throughout the country. North-eastern Region (NER) includes the States of Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. Hill States/ UTs include Himachal Pradesh, Jammu & Kashmir, Ladakh and Uttarakhand. Island UTs include Andaman & Nicobar and Lakshadweep:

3. Above mentioned benchmark costs are applicable from the date of issuance of this Order. In all cases where LoA (first LoA in case of multiple LoAs under the same sanction) is placed after the issuance of this order, the above specified benchmark costs will be applicable. All the above benchmark costs are inclusive of total cost of system as per MNRE specifications and its installation, commissioning, transportation, insurance, warranty/ guarantee, monitoring, maintenance for 5 years and applicable taxes.

  
(Shobhit Srivastava)  
Scientist-D

To

**All Concerned**