

F. No. 283/54/2018-GRID SOLAR – Part(1)
भारत सरकार / Government of India
नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New & Renewable Energy
ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Block No. 14, C.G.O. Complex,
Lodhi Road, New Delhi – 110003.
Dated: 10th March, 2021.

OFFICE MEMORANDUM

Sub: Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 – Implementation – Reg.

As noted in this Ministry's OM of even no. dated 02.01.2019, solar PV power installations are set up for a period of 25 years and, solar PV cells and modules used in plants require long term warranty. It is thus desirable to ensure that such products are indeed made in units in which production has been claimed. It is possible that some units may claim production of solar cells & modules produced or made elsewhere. The reliability of producer is essential to protect the consumer interests and ensure larger energy security of the Country.

2. In order to address this issue, MNRE issued an order "**Approved Models & Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019**" and "**Guidelines for enlistment under Approved Models & Manufacturers of Solar Photovoltaic Modules (Requirements for Compulsory Registration) Order, 2019**". These orders provide for enlistment of Models and manufacturers of Solar PV Cells & Modules, after due inspection of manufacturing facilities.

3. Considering the recommendations of a Committee constituted to review the implementation of ALMM order and inspections reports submitted by NISE, Hon'ble Minister for Power & NRE has approved the ALMM list for Solar PV Modules i.e. List I – List of Models and Manufacturers for Solar PV Modules, as on 10.03.2021. The ALMM list for Solar PV Modules is enclosed at **Annexure – I**.

4. In accordance with the ALMM order dated 02.01.2019 and amendment thereto:

- i. The enlistment shall be valid for two years and can be renewed on submission of necessary documents.

S. Surma
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- ii. The Ministry is empowered to conduct production & sale audit and random quality test, inspection of facility at any time to ensure the compliance and in case of any non-compliance, the enlisted manufacturer shall be removed from ALMM.
- iii. The Approved List of Models and Manufacturers (ALMM) will be uploaded on the MNRE website and will be monthly updated.
- iv. Only the models and manufacturers included in this list shall be eligible for use in Government / Government assisted Projects / Projects under Government schemes & Programmes, installed in the country, including Projects set up for sale of electricity to Government under the Guidelines issued by Central Government under section 63 of Electricity Act, 2003 and amendment thereof. The word "Government" shall include Central Government, State Government, Central Public Sector Enterprises, State Public Sector Enterprises and Central and State Organizations / Autonomous bodies.

5. Further in partial modification to this Ministry's OM of even number dated 02.02.2021 ALMM Order in respect of List – I (Modules) or List – II (Cells) shall be applicable only on the projects for which the bids are concluded after 30 days of publication of such List. Accordingly, **ALMM order in respect of List I (Modules) shall be applicable on all such bids whose last date of bid submission is on or after 10.04.2021.**

6. To bring contractual clarity, the Bidding Agencies shall take an explicit declaration from the Bidders that they are aware of binding provisions of the ALMM Order and the List(s) thereunder, while quoting the tariff in that bid.

7. This issues with the approval of Hon'ble Minister, New and Renewable Energy.

S. Suman
10/03/2021

(Shiva Suman)

Dy. Director.

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To: All Concerned

CC: Director (Technical), NIC, MNRE for uploading this document on MNRE's website

List of Manufacturers and Models of Solar PV Modules enlisted under ALMM Order

S. No.	Name of the Manufacturer	Location of Manufacturing	Enlisted Capacity	S. No.	Type of Module	Model Name	Enlisted Models	No. of Cells in Module	Validity	
									From	To
1	Mundra Solar PV Ltd.	Tunda, Mundra SEZ, Mundra, Gujarat, India	1100	i	Multi C-Si Modules	ENCORE Series, ASP-7-AAA (AAA=325-350)	ASP-7-325	72 (Full Cells)	10.03.2021	09.03.2023
							ASP-7-330			
							ASP-7-335			
							ASP-7-340			
							ASP-7-345			
							ASP-7-350			
				ii	Mono C-Si PERC Modules	ETERNAL Series, ASM-7-PERC-AAA (AAA=355-390)	ASM-7-PERC-355	72 (Full Cells)	10.03.2021	09.03.2023
							ASM-7-PERC-365			
							ASM-7-PERC-370			
							ASM-7-PERC-375			
							ASM-7-PERC-380			
							ASM-7-PERC-385			
							ASM-7-PERC-390			
2	Vikram Solar Ltd.	Falta SEZ, South 24 Parganas, West Bengal, India	970	i	Multi Crystalline Silicon Module	Eldora VSP.72.AAA.05 (AAA= 320Wp-345Wp)	VSP.72.320.05	72 (Full Cells)	10.03.2021	09.03.2023
							VSP.72.325.05			
							VSP.72.330.05			
							VSP.72.335.05			
							VSP.72.340.05			
							VSP.72.345.05			
				ii	Multi Crystalline Silicon Module	Eldora VSPH.72.AAA.05 (AAA= 340Wp-350Wp)	VSPH.72.340.05	144 (Half Cut Cells)	10.03.2021	09.03.2023
							VSPH.72.350.05			
				iii	Mono Crystalline Silicon Module	Somera VSM.72.AAA.05 (AAA=370Wp-375Wp)	VSM.72.370.05	72 (Full Cells)	10.03.2021	09.03.2023
				iv	Mono Crystalline Silicon Module	Somera VSMH.72.AAA.05 (AAA=380Wp-400Wp)	VSMH.72.380.05	144 (Half Cut Cells)	10.03.2021	09.03.2023
							VSMH.72.390.05			
							VSMH.72.395.05			
							VSMH.72.400.05			
3	Bharat Electronics Ltd.	Jalahalli, Bengaluru, Karnataka, India	10	i	Multi C-Si Module	BEP-A.XXX (310Wp-335Wp)	BEP-A.310	72 (Full Cells)	10.03.2021	09.03.2023
							BEP-A.315			
							BEP-A.320			
							BEP-A.325			
							BEP-A.330			
							BEP-A.335			
				ii	Mono C-Si Module	BE-A.XXX (310Wp-335Wp)	BE-A.310	72 (Full Cells)	10.03.2021	09.03.2023
							BE-A.320			
							BE-A.325			
							BE-A.330			
							BE-A.335			

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4	Emmvee Photovoltaic Power Pvt. Ltd.	Bettahalasuru, Bengaluru, Karnataka, India	500	i	Multi C-Si Module	E335P72 (320Wp-350Wp)	E320P72	72 (Full Cells)	10.03.2021	09.03.2023
							E325P72			
							E330P72			
							E335P72			
							E340P72			
							E345P72			
				E350P72						
				ii	Multi C-Si Module	E280P60 (265Wp-290Wp)	E265P60	60 (Full Cells)	10.03.2021	09.03.2023
							E270P60			
							E275P60			
							E280P60			
							E285P60			
							E290P60			
				iii	Mono PERC Module	E380M72 (360Wp-395Wp)	E360M72	72 (Full Cells)	10.03.2021	09.03.2023
							E365M72			
							E370M72			
							E375M72			
							E380M72			
							E385M72			
				iv	Mono PERC Module	E315M60 (300Wp-330Wp)	E390M72	60 (Full Cells)	10.03.2021	09.03.2023
E395M72										
E300M60										
E305M60										
E310M60										
E315M60										
E320M60										
E325M60										
E330M60										

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5	ORB Energy Pvt. Ltd.	Yeshwanthapura, Bengaluru, Karnataka, India	50	i	Multi C-Si Module	Orb320P72-15 (305Wp-335Wp)	Orb305P72-15	72 (Full Cells)	10.03.2021	09.03.2023
							Orb310P72-15			
							Orb315P72-15			
							Orb320P72-15			
							Orb325P72-15			
							Orb330P72-15			
				ii	Multi C-Si Module	Orb270P60-15 (260Wp-280Wp)	Orb335P72-15	60 (Full Cells)	10.03.2021	09.03.2023
							Orb260P60-15			
							Orb265P60-15			
							Orb270P60-15			
				iii	Multi C-Si Module	Orb320P72 (305Wp-335Wp)	Orb275P60-15	72 (Full Cells)	10.03.2021	09.03.2023
							Orb280P60-15			
							Orb305P72			
							Orb310P72			
							Orb315P72			
							Orb320P72			
				iv	Multi C-Si Module	Orb270P60 (260Wp-280Wp)	Orb325P72	60 (Full Cells)	10.03.2021	09.03.2023
							Orb330P72			
							Orb335P72			
							Orb260P60			
							Orb265P60			
							Orb270P60			
				v	Mono C-Si Module	Orb370M72-15 (355Wp-385Wp)	Orb275P60	72 (Full Cells)	10.03.2021	09.03.2023
							Orb280P60			
							Orb355M72-15			
							Orb360M72-15			
							Orb365M72-15			
							Orb370M72-15			
vi	Mono C-Si Module	Orb305M60-15 (290Wp-320Wp)	Orb375M72-15	60 (Full Cells)	10.03.2021	09.03.2023				
			Orb380P72-15							
			Orb385P72-15							
			Orb290M60-15							
			Orb295M60-15							
			Orb300M60-15							
vii	Mono C-Si Module	Orb370M72 (355Wp-385Wp)	Orb305M60-15	72 (Full Cells)	10.03.2021	09.03.2023				
			Orb310M60-15							
			Orb315M60-15							
			Orb320M60-15							
			Orb355M72							
			Orb360M72							
viii	Mono C-Si Module	Orb305M60 (290Wp-320Wp)	Orb365M72	60 (Full Cells)	10.03.2021	09.03.2023				
			Orb370M72							
			Orb375M72							
			Orb380M72							
			Orb385M72							
			Orb290M60							
Orb295M60										
Orb300M60										
Orb305M60										
Orb310M60										
Orb315M60										
Orb320M60										

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