

F. No. 283/41/2024-GRID SOLAR

भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New & Renewable Energy

ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Atal Akshay Urja Bhawan,
Lodhi Road, New Delhi – 110003.Dated: 13th August 2025**OFFICE MEMORANDUM****Sub: Updation of List I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 – Reg.**

- Ref:** (i) MNRE's O.M. No. 283/54/2018-GRID SOLAR-Part(1) dated 10.03.2021
(ii) MNRE's O.M. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023;
(iii) MNRE's O.M. No. 283/22/2023-GRID SOLAR/Pt dated 22.03.2024;
(iv) MNRE's O.M. No. 32/33/2024-SPV Division dated 06.05.2025;

Reference is invited to this Ministry's O.M.s of even no. dated 10.03.2021, regarding implementation of Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 and publishing List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019.

2. This Ministry vide its O.M.s referred at (ii), (iii) & (iv) above, inter-alia, directed that only such models of Solar PV Module Manufacturers will be enlisted under ALMM, which comply with the BIS Standards and are having the following minimum module efficiency:

Category	Application/Use	Minimum Module Efficiency required to be eligible for enlistment in ALMM for solar PV modules	
		For c-Si technology based solar PV modules	For CdTe thin film technology based solar PV modules
Category-I	Utility/Grid Scale Power Plants	20.00%	19.00%
Category-II	Rooftop and Solar Pumping	19.50%	18.50%
Category-III	Off-grid projects/applications like solar lamps, solar lights, solar street lights, solar fans, etc. (other than solar powered agricultural pumps and solar PV rooftops) requiring individual capacity of each solar PV module deployed, to be of less than 200 Watt peak	18.00%	18.00%
		(not to be included in main ALMM List-I but to be included in a separate ALMM list called ALMM List-I (DRE))	
Category-IV	Any other application	19.00%	18.00%

3. Post the aforesaid O.M. dated 10.05.2023 and subsequent O.M.s dated 22.03.2024 and 06.05.2025, only such models of Solar PV Modules have been considered for enlistment under ALMM List-I, whose module efficiency is meeting the eligibility criteria as mentioned in table at para-2 above.

4. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 was last updated on 30.06.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XLI (*in the format of additions / modifications to Revision-XL*) is enclosed at Annexure-I. The last revision no. XL dated 30.06.2025 along with provisional enlistments therein (*excluding those which have been removed on account of inclusion in main ALMM List-I*) is at pages after Annexure-I.

6. The ALMM enlistment validity is subject to valid BIS Registration; else deemed to be delisted.

7. The details of Registration No. (R. No.) which has been allotted by BIS is mentioned against each manufacturer / manufacturing unit enlisted in ALMM and further details related to BIS certification like validity, models included, etc. may be checked from BIS website by using the following link:
https://www.crsbis.in/BIS/Lims_registration.do?hmode=getLimsData

8. This issues with the approval of competent authority.



(Sanjay G. Karndhar)

Scientist-E

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Encl: as above

To: All Concerned

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

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
17	M/s. Citizen Solar Private Limited (Model Addition + Capacity Addition)	New Survey No-966, Village: Indrad, Chhatrai Kadi Road, Ta: Kadi, Dist. Mehsana, Gujarat-382715, India.	R-72001929	198	i	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-156THC-GF-625 (625 Wp)	CSPL-156THC-GF-605	21.63	156 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-156THC-GF-610	21.81				
								CSPL-156THC-GF-615	21.99				
								CSPL-156THC-GF-620	22.17				
								CSPL-156THC-GF-625	22.35				
								CSPL-156THC-GF-630	22.53				
								CSPL-156THC-GF-635	22.71				
								CSPL-156THC-GF-640	22.89				
								CSPL-156THC-GF-645	23.07				
								CSPL-156THC-GF-650	23.24				
					ii	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-144THC-GF-580 (580 Wp)	CSPL-144THC-GF-555	21.48	144 (Half Cut Cells)	1500		
								CSPL-156THC-GF-560	21.68				
								CSPL-144THC-GF-565	21.87				
								CSPL-144THC-GF-570	22.07				
								CSPL-144THC-GF-575	22.26				
								CSPL-144THC-GF-580	22.45				
								CSPL-144THC-GF-585	22.65				
								CSPL-144THC-GF-590	22.84				
								CSPL-144THC-GF-595	23.03				
								CSPL-144THC-GF-600	23.23				
					iii	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-144THC-GF-545 (545 Wp)	CSPL-144THC-GF-540	20.90	144 (Half Cut Cells)	1500		
								CSPL-144THC-GF-545	21.10				
								CSPL-144THC-GF-550	21.29				
					iv	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-132THC-GF-510 (510 Wp)	CSPL-132THC-GF-490	20.65	132 (Half Cut Cells)	1500		
								CSPL-132THC-GF-495	20.87				
								CSPL-132THC-GF-500	21.08				
								CSPL-132THC-GF-505	21.29				
								CSPL-132THC-GF-510	21.50				
								CSPL-132THC-GF-515	21.71				
								CSPL-132THC-GF-520	21.92				
								CSPL-132THC-GF-525	22.13				
								CSPL-132THC-GF-530	22.34				
								CSPL-132THC-GF-535	22.55				
					v	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-132THC-GF-485 (485 Wp)	CSPL-132THC-GF-485	20.44	132 (Half Cut Cells)	1500		
								CSPL-132THC-GF-490	20.65				
					vi	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-120THC-GF-460 (460 Wp)	CSPL-120THC-GF-440	20.34	120 (Half Cut Cells)	1500		
								CSPL-120THC-GF-445	20.57				
								CSPL-120THC-GF-450	20.80				
								CSPL-120THC-GF-455	21.03				
								CSPL-120THC-GF-460	21.26				
								CSPL-120THC-GF-465	21.49				
								CSPL-120THC-GF-470	21.72				
								CSPL-120THC-GF-475	21.95				
								CSPL-120THC-GF-480	22.18				
								CSPL-108THC-GF-410	20.90				
					vii	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-108THC-GF-425 (425 Wp)	CSPL-108THC-GF-415	21.15				
								CSPL-108THC-GF-420	21.41				
								CSPL-108THC-GF-425	21.66				
								CSPL-108THC-GF-430	21.92				
								CSPL-108THC-GF-435	22.17				
					viii	Bifacial-N-type TOPCon Module (Glass to Glass)	CSPL-96THC-GF-395 (395 Wp)	CSPL-96THC-GF-380	21.79	96 (Half Cut Cells)	1500		
								CSPL-96THC-GF-385	22.07				
								CSPL-96THC-GF-390	22.36				
								CSPL-96THC-GF-395	22.65				
								CSPL-96THC-GF-400	22.93				
								CSPL-96THC-GF-405	23.22				
					ix	Mono c-Si PERC Module	CSPL-132MHC-WF-500 (500 Wp)	CSPL-132MHC-WF-500	21.06	132 (Half Cut Cells)	1500		
					x	Bifacial-Mono c-Si PERC Module (Glass to Transparent Backsheet)	CSPL-132MHC-TF-500 (500 Wp)	CSPL-132MHC-TF-500	21.06	132 (Half Cut Cells)	1500		

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deeedm to be delisted)
18	M/s. Citizen Solar Pvt. Ltd.	New Survey No-966, Village: Indrad, Chhatral Kadi Road, Ta: Kadi, Dist.: Mehsana, Gujarat-382715, India.	R-72001929	150	i	Mono c-Si PERC Module (Glass to Transparent backsheet)	CSPL-144MHC-TF-535 (535Wp)	CSPL-144MHC-TF-520	20.14	144 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-144MHC-TF-525	20.33				
								CSPL-144MHC-TF-530	20.52				
								CSPL-144MHC-TF-535	20.72				
								CSPL-144MHC-TF-540	20.91				
								CSPL-144MHC-TF-545	21.11				
								CSPL-144MHC-TF-550	21.30				
								CSPL-144MHC-TF-555	21.49				
					ii	Mono c-Si PERC Module	CSPL-144MHC-WF-535 (535Wp)	CSPL-144MHC-TF-560	21.69	144 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-144MHC-WF-520	20.14				
								CSPL-144MHC-WF-525	20.33				
								CSPL-144MHC-WF-530	20.52				
								CSPL-144MHC-WF-535	20.72				
								CSPL-144MHC-WF-540	20.91				
								CSPL-144MHC-WF-545	21.11				
								CSPL-144MHC-WF-550	21.30				
					iii	Mono c-Si PERC Module (Glass to Transparent backsheet)	CSPL-132MHC-TF-485 (485Wp)	CSPL-144MHC-WF-555	21.49	132 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-144MHC-WF-560	21.69				
								CSPL-132MHC-TF-480	20.21				
								CSPL-132MHC-TF-485	20.42				
					iv	Mono c-Si PERC Module	CSPL-132MHC-WF-485 (485Wp)	CSPL-132MHC-TF-490	20.63	132 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-132MHC-TF-495	20.84				
								CSPL-132MHC-WF-480	20.21				
								CSPL-132MHC-WF-485	20.42				
					v	Mono c-Si PERC Module (Glass to Transparent backsheet)	CSPL-120MHC-TF-440 (440Wp)	CSPL-132MHC-WF-490	20.63	120 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-132MHC-WF-495	20.84				
								CSPL-120MHC-TF-435	20.04				
								CSPL-120MHC-TF-440	20.27				
					vi	Mono c-Si PERC Module	CSPL-120MHC-WF-440 (440Wp)	CSPL-120MHC-TF-445	20.50	120 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-120MHC-TF-450	20.73				
								CSPL-120MHC-WF-435	20.04				
								CSPL-120MHC-WF-440	20.27				
					vii	Mono c-Si PERC Module (Glass to Transparent backsheet)	CSPL-108MHC-TF-395 (395Wp)	CSPL-120MHC-WF-445	20.50	108 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-120MHC-WF-450	20.73				
								CSPL-108MHC-TF-390	19.88				
								CSPL-108MHC-TF-395	20.14				
					viii	Mono c-Si PERC Module	CSPL-108MHC-WF-395 (395Wp)	CSPL-108MHC-TF-400	20.39	108 (Half Cut Cells)	1500	04.03.2024	03.03.2028
								CSPL-108MHC-TF-405	20.65				
								CSPL-108MHC-WF-390	19.88				
								CSPL-108MHC-WF-395	20.14				
					ix	Mono c-Si PERC Modules.	CSPL24M390 (390 Wp)	CSPL-108MHC-WF-400	20.39	72 (Full Cells)	1500	04.03.2024	03.03.2028
								CSPL-108MHC-WF-405	20.65				
								CSPL24M380	19.15				
								CSPL24M385	19.41				
								CSPL24M390	19.66				
								CSPL24M395	19.91				
								CSPL24M400	20.16				