

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: 1st March 2026

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 07.02.2026.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XLVII (*in the format of additions / modifications to Revision-XLVI*) is enclosed at Annexure-I. The last revision no. XLVI dated 07.02.2026 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_registrationc.do?hmode=getLimsData

8. This issues with the approval of competent authority.



(Sanjay G. Karndhar)

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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)
								NS-N16-108HG-505	22.64				
								NS-N16-108HG-500	22.42				
					xii	Bifacial N-Type TOPCon Module (Glass to Glass)	NS-N16-96HG-455 (455 Wp)	NS-N16-96HG-460	23.11	96 (Half Cut Cell)	1500		
							NS-N16-96HG-455	22.86					
							NS-N16-96HG-450	22.61					
							NS-N16-96HG-445	22.36					
							NS-N16-84HG-405	23.13					
					xiii	Bifacial N-Type TOPCon Module (Glass to Glass)	NS-N16-84HG-400 (400 Wp)	NS-N16-84HG-400	22.85	84 (Half Cut Cell)	1500		
							NS-N16-84HG-395	22.56					
							NS-N16-84HG-390	22.27					
							NS-N16-72HG-345	22.84					
					xiv	Bifacial N-Type TOPCon Module (Glass to Glass)	NS-N16-72HG-340 (340 Wp)	NS-N16-72HG-340	22.51	72 (Half Cut Cell)	1500		
							NS-N16-72HG-335	22.18					
							AS-144TG-600	23.24					
7	M/s ARMY SOLAR ENERGY PRIVATE LIMITED (New Addition in ALMM)	NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT - 394110 India	R-72013790	622	i	Bifacial N-Type TOPCon Module (Glass to Glass)	AS-144TG-590 (590 Wp)	AS-144TG-595	23.04	144 (Half Cut Cells)	1500	01.03.2026	28.02.2030
								AS-144TG-590	22.85				
								AS-144TG-585	22.66				
								AS-144TG-580	22.43				
								AS-144TG-575	22.25				
								AS-144TG-570	22.07				
								AS-144TG-565	21.88				
								AS-144TG-560	21.70				
								AS-144TG-555	21.49				
								AS-144TG-550	21.31				
					ii	Bifacial N-Type TOPCon Module (Glass to Glass)	AS-144TG-555 (555 Wp)	AS-144TG-545	21.11				
								AS-144TG-540	20.92				
								AS-132TG-535	22.57				
								AS-132TG-530	22.35				
								AS-132TG-525	22.12				
								AS-132TG-520	21.93				
								AS-132TG-515	21.70				
								AS-132TG-510	21.52				
					iii	Bifacial N-Type TOPCon Module (Glass to Glass)	AS-132TG-510 (510 Wp)	AS-132TG-505	21.31				
								AS-132TG-500	21.08				
								AS-132TG-495	20.87				
								AS-132TG-490	20.66				
								AS-120TG-485	22.43				
								AS-120TG-480	22.18				
								AS-120TG-475	21.98				
								AS-120TG-470	21.72				
					iv	Bifacial N-Type TOPCon Module (Glass to Glass)	AS-120TG-465 (465 Wp)	AS-120TG-465	21.50				
								AS-120TG-460	21.27				
AS-120TG-450	20.81												
AS-120TG-445	20.56												
AS-120TG-440	20.32												
STGP132R210B16-625	23.14												
STGP132R210B16-620	22.95												
STGP132R210B16-615	22.77												
STGP132R210B16-610	22.58												
STGP132R210B16-605	22.40												
8	M/s. Solex Energy Limited (Capacity Addition)	Plot No 1A, Block 938, Tadkeshwar, Kim Mandvi Road, Mandvi, Surat - 394110, Gujarat	R-72008125	3782	i	Bifacial N-type Topcon Module (Glass to Glass)	STGP132R210B16-600 (600 Wp)	STGP132R210B16-600	22.21	132 (Half Cut Cells)	1500	01.09.2023	31.08.2027
							STGP132R210B16-600	22.21					
							STGP132R210B16-595	22.03					
							STGP132R210B16-590	21.84					
							STGP132R210B16-585	21.66					
							STGP132R210B16-580	21.47					
							STGP132R210B16-575	21.29					