

**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: 1<sup>st</sup> 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](https://www.crsbis.in/BIS/Lims_registrationc.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

New additions on 01/03/2026 in the List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order

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)					
1	Mis Startup Energy Private Limited (New Addition in ALMM)	SP1-1, STARTUP ENERGY PRIVATE LIMITED, TAPUKARA EXTN, INDUSTRIAL AREA, KAROLI, BHWADI, KHARITHAL, TULARA, RAJASTHAN, 301707	R-84005800	1034	i	Bifacial N-Type TOPCon Module (Glass to Glass)	MMXG12R120N525 (525 Wp)	MMXG12R132N635	23.49	132 (Half Cut Cells)	1500	01.03.2026	28.02.2030					
								MMXG12R132N630	23.30									
								MMXG12R132N625	23.12									
								MMXG12R132N620	22.93									
								MMXG12R132N615	22.75									
								MMXG12R132N610	22.56									
								MMXG12R132N605	22.38									
								MMXG12R132N600	22.19									
								MMXG12R132N595	22.01									
								MMXG12R132N590	21.82									
								MMXG12R132N585	21.64									
								MMXG12R120N580	23.55									
								MMXG12R120N575	23.35									
								MMXG12R120N570	23.14									
								MMXG12R120N565	22.94									
MMXG12R120N560	22.74																	
MMXG12R120N555	22.53																	
MMXG12R120N550	22.33																	
MMXG12R120N545	22.13																	
MMXG12R120N540	21.92																	
MMXG12R120N535	21.72																	
MMXG12R120N530	21.52																	
MMXG12R120N525	21.32																	
ii	Bifacial N-Type TOPCon Module (Glass to Glass)	MMXG12R120N555 (555 Wp)	MMXG12R108N520	23.40	108 (Half Cut Cells)	1500												
			MMXG12R108N515	23.17														
			MMXG12R108N510	22.95														
			MMXG12R108N505	22.72														
			MMXG12R108N500	22.50														
			MMXG12R108N495	22.27														
			MMXG12R108N490	22.05														
			MMXG12R108N485	21.82														
			MMXG12R108N480	21.60														
			MMXG12R108N475	21.37														
			MMXG12R108N470	21.15														
			iii	Bifacial N-Type TOPCon Module (Glass to Glass)			MMXG12R120N525 (525 Wp)	MMXG12R108N520	23.40	108 (Half Cut Cells)	1500							
								MMXG12R108N515	23.17									
								MMXG12R108N510	22.95									
								MMXG12R108N505	22.72									
MMXG12R108N500	22.50																	
MMXG12R108N495	22.27																	
MMXG12R108N490	22.05																	
MMXG12R108N485	21.82																	
MMXG12R108N480	21.60																	
MMXG12R108N475	21.37																	
MMXG12R108N470	21.15																	
iv	Bifacial N-Type TOPCon Module (Glass to Glass)	MMXG12R108N500 (500 Wp)			MMXG12R108N520	23.40		108 (Half Cut Cells)	1500									
					MMXG12R108N515	23.17												
					MMXG12R108N510	22.95												
					MMXG12R108N505	22.72												
			MMXG12R108N500	22.50														
			MMXG12R108N495	22.27														
			MMXG12R108N490	22.05														
			MMXG12R108N485	21.82														
			MMXG12R108N480	21.60														
			MMXG12R108N475	21.37														
			MMXG12R108N470	21.15														
			v	Bifacial N-Type TOPCon Module (Glass to Glass)	MMXG12R108N470 (470 Wp)	MMXG12R108N520	23.40			108 (Half Cut Cells)	1500							
						MMXG12R108N515	23.17											
						MMXG12R108N510	22.95											
						MMXG12R108N505	22.72											
MMXG12R108N500	22.50																	
MMXG12R108N495	22.27																	
MMXG12R108N490	22.05																	
MMXG12R108N485	21.82																	
MMXG12R108N480	21.60																	
MMXG12R108N475	21.37																	
MMXG12R108N470	21.15																	
2	Mis Insolation Green Energy Pvt. Ltd., Jaipur (Rajasthan) (Capacity Addition)	KHASRA NO. 4205/3454, 4207/3460, 3447-3452, 4383/3458, 3486-3498, 3500-3309, 3511, VILLAGE - SAWARDA, TEH - MAUZAMABAD, DUDU, RAJASTHAN India-303348				R-84005622	4282	i	Bifacial N-Type TOPCon Module (Glass to Glass)			INA-156THC-GGF-625	INA-156THC-GGF-650	23.25	156 (Half Cut Cells)	1500	13.10.2025	12.10.2029
													INA-156THC-GGF-645	23.07				
													INA-156THC-GGF-640	22.90				
													INA-156THC-GGF-635	22.72				
			INA-156THC-GGF-630	22.54														
			INA-156THC-GGF-625	22.36														
			INA-156THC-GGF-620	22.18														
			INA-156THC-GGF-615	22.00														
			INA-156THC-GGF-610	21.82														
			INA-156THC-GGF-605	21.64														
			INA-144THC-GGF-600	23.23														
			INA-144THC-GGF-595	23.03														
			INA-144THC-GGF-590	22.84														
			INA-144THC-GGF-585	22.65														
			INA-144THC-GGF-580	22.45														
INA-144THC-GGF-575	22.26																	
INA-144THC-GGF-570	22.07																	
ii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-144THC-GGF-575	INA-144THC-GGF-650	23.25	144 (Half Cut Cells)	1500												
			INA-144THC-GGF-645	23.07														
			INA-144THC-GGF-640	22.90														
			INA-144THC-GGF-635	22.72														
			INA-144THC-GGF-630	22.54														
			INA-144THC-GGF-625	22.36														
			INA-144THC-GGF-620	22.18														
			INA-144THC-GGF-615	22.00														
			INA-144THC-GGF-610	21.82														
			INA-144THC-GGF-605	21.64														
			INA-144THC-GGF-600	23.23														
			INA-144THC-GGF-595	23.03														
			INA-144THC-GGF-590	22.84														
			INA-144THC-GGF-585	22.65														
			INA-144THC-GGF-580	22.45														
INA-144THC-GGF-575	22.26																	
INA-144THC-GGF-570	22.07																	

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; also deemed to be delisted)
3	M/s Rajdeep Solar Energy Pvt. Limited (New Addition in ALMM)	Survey no. 432, Moti Chiral, Block 1, on National Highway, Bhachau-370140, Gujarat, Kachchh, Gujarat, India - 370140	R-72012270	194	i	Bifacial Mono c-Si PERC Module (Glass to Transparent Backsheet)	RS10-M10-144-545 (545 Wp)	RS10-M10-144-555	21.48	144 (Half Cut Cells)	1500	01.03.2026	28.02.2030
								RS10-M10-144-550	21.29				
								RS10-M10-144-545	21.10				
								RS10-M10-144-540	20.90				
								RS10-M10-144-535	20.71				
								RS10-M10-144-530	20.52				
								SWT35B5G4620	22.95				
								SWT35B5G4615	22.77				
								SWT35B5G4610	22.58				
								SWT35B5G4605	22.40				
								SWT35B5G4600	22.21				
								SWT35B5G4595	22.03				
SWT35B5G4590	21.84												
SWT35B5G4585	21.66												
SWT35B5G4580	21.47												
SWT35B5G4575	21.29												
SWT35B5G4570	21.10												
4	M/s Sivalact HHV Solar Photovoltaics Private Limited (Model Addition + Capacity Addition)	No. 169/166, Sembagoundan Pudur, Kuppeppalayam Village, Coimbatore, Coimbatore North Taluk, Coimbatore District, Tamil Nadu -641107	R-61003433	853	i	Bifacial N-Type TOPCon Module (Glass to Glass)	HYPER SOL VSM5DH.66.530.05 (530 Wp)	HYPER SOL VSM5DH.66.640.05	23.69	132 (Half Cut Cells)	1500	01.03.2026	28.02.2030
								HYPER SOL VSM5DH.66.635.05	23.57				
								HYPER SOL VSM5DH.66.630.05	23.32				
								HYPER SOL VSM5DH.66.625.05	23.14				
								HYPER SOL VSM5DH.66.620.05	22.95				
								HYPER SOL VSM5DH.66.615.05	22.77				
								HYPER SOL VSM5DH.66.610.05	22.58				
								HYPER SOL VSM5DH.66.605.05	22.40				
								HYPER SOL VSM5DH.66.600.05	22.21				
								HYPER SOL VSM5DH.60.570.05	23.55				
								HYPER SOL VSM5DH.60.575.05	23.35				
								HYPER SOL VSM5DH.60.570.05	23.14				
HYPER SOL VSM5DH.60.565.05	22.94												
HYPER SOL VSM5DH.54.520.05	23.40												
HYPER SOL VSM5DH.54.515.05	23.17												
5	M/s Vikram Solar Limited (New Addition in ALMM)	PLOT NO. B400, B390B, INDOSPACE INDUSTRIAL PARK, SIPCOT VALLAM VADAGAL, SRPERUMBUDUR, BOODHANUR, KANCHEEPURAM, TAMIL NADU, INDIA, NA, TAMIL NADU, India - 602105	R-61006990	3358	i	Bifacial N-Type TOPCon Module (Glass to Glass)	HYPER SOL VSM5DH.60.570.05 (570 Wp)	HYPER SOL VSM5DH.60.570.05	23.87	120 (Half Cut Cells)	1500	01.03.2026	28.02.2030
								HYPER SOL VSM5DH.60.570.05	23.68				
								HYPER SOL VSM5DH.60.565.05	23.48				
								HYPER SOL VSM5DH.60.560.05	23.29				
								HYPER SOL VSM5DH.60.555.05	23.10				
								HYPER SOL VSM5DH.60.550.05	22.91				
								HYPER SOL VSM5DH.60.545.05	22.72				
								HYPER SOL VSM5DH.60.540.05	22.53				
								HYPER SOL VSM5DH.60.535.05	22.34				
								HYPER SOL VSM5DH.60.530.05	22.15				
								HYPER SOL VSM5DH.60.525.05	21.96				
								HYPER SOL VSM5DH.60.520.05	21.77				
HYPER SOL VSM5DH.60.515.05	21.58												
HYPER SOL VSM5DH.60.510.05	21.39												
HYPER SOL VSM5DH.60.505.05	21.20												
HYPER SOL VSM5DH.60.500.05	21.01												
iii	Bifacial N-Type TOPCon Module	HYPER SOL VSM5DH.60.570.05 (570 Wp)	INA-108THC-GGF-450	22.94	108 (Half Cut Cells)	1500	INA-144THC-GGF-565	21.87					
							INA-144THC-GGF-560	21.68					
							INA-144THC-GGF-555	21.48					
							INA-144THC-GGF-550	21.29					
							INA-144THC-GGF-545	21.10					
							INA-132THC-GGF-540	22.73					
							INA-132THC-GGF-535	22.52					
							INA-132THC-GGF-530	22.31					
							INA-132THC-GGF-525	22.10					
							INA-132THC-GGF-520	21.89					
							INA-132THC-GGF-515	21.68					
							INA-132THC-GGF-510	21.47					
INA-120THC-GGF-500	23.02												
v	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-108THC-GGF-450	22.94	108 (Half Cut Cells)	1500	INA-132T210RGGF835	23.51						
						INA-132T210RGGF830	23.32						
						INA-132T210RGGF825	23.14						
						INA-132T210RGGF820	22.95						
						INA-132T210RGGF815	22.77						
						INA-132T210RGGF810	22.58						
						INA-132T210RGGF805	22.40						
						INA-132T210RGGF800	22.21						
						INA-132T210RGGF795	22.03						
						INA-132T210RGGF790	21.84						
						INA-132T210RGGF785	21.66						
						INA-132T210RGGF780	21.47						
INA-132T210RGGF775	21.29												
INA-132T210RGGF770	21.10												
vi	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-132T210RGGF815	23.51	132 (Half Cut Cells)	1500	INA-132T210RGGF835	23.51						
						INA-132T210RGGF830	23.32						
						INA-132T210RGGF825	23.14						
						INA-132T210RGGF820	22.95						
						INA-132T210RGGF815	22.77						
						INA-132T210RGGF810	22.58						
						INA-132T210RGGF805	22.40						
						INA-132T210RGGF800	22.21						
						INA-132T210RGGF795	22.03						
						INA-132T210RGGF790	21.84						
						INA-132T210RGGF785	21.66						
						INA-132T210RGGF780	21.47						
INA-132T210RGGF775	21.29												
INA-132T210RGGF770	21.10												