

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 19.09.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XLIII (in the format of additions / modifications to Revision-XLII) is enclosed at Annexure-I. The last revision no. XLII dated 19.09.2025 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_registrationnc.do?hmode=getLimsData

8. This issues with the approval of competent authority.



(Sanjay G. Karndhar)

Scientist-E

E-mail: karndhar.sg@nic.in

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)		
8	M/s. Insolation Green Energy Private Limited (New Addition in ALMM)	Khasra No. 4205/3454, 4207/3460, 3447-3452, 4383/3458, 3488 -3498,3500 -3509, 3511, Village - Sawarda Teh - Mauzamabad - 303348, Dudu, Rajasthan,India	R-84005622	1202	i	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-156THC-GGF-625 (625 Wp)	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						
					ii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-144THC-GGF-575 (575 Wp)	INA-144THC-GGF-600	23.23	144 (Half Cut Cells)	1500				
								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						
								INA-144THC-GGF-565	21.87						
								INA-144THC-GGF-560	21.68						
								INA-144THC-GGF-555	21.48						
								INA-144THC-GGF-550	21.29						
					iii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-132THC-GGF-525 (525 Wp)	INA-132THC-GGF-540	22.73	132 (Half Cut Cells)	1500				
								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-500	21.05						
					iv	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-120THC-GGF-500 (500 Wp)	INA-120THC-GGF-500	23.02	120 (Half Cut Cells)	1500				
					v	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-108THC-GGF-450 (450 Wp)	INA-108THC-GGF-450	22.94	108 (Half Cut Cells)	1500				

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- 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 21.04.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XXXVIII (in the format of additions / modifications to Revision-XXXVII) is enclosed at Annexure-I. The last revision no. XXXVII dated 21.04.2025 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.



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Encl: as above

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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 (subject to valid BIS Registration; else deemed to be delisted)	
												From	To
5	M/s. Insolation Green Energy Pvt. Ltd (Model Addition & Capacity Addition)	Khasra No 11/1, 1136/9, Chomu, Jatavali, Jaipur-302001, Rajasthan, India	R-84003549	637	i	N-Type TOPCon Module	INA-144THC-WF-560 (560 Wp)	INA-144THC-WF-580	22.45	144 (Half Cut Cells)	1500	31.05.2023	30.05.2027
								INA-144THC-WF-575	22.26				
								INA-144THC-WF-570	22.07				
								INA-144THC-WF-565	21.87				
								INA-144THC-WF-560	21.68				
								INA-144THC-WF-555	21.48				
								INA-144THC-WF-550	21.29				
					INA-144THC-WF-545	21.10							
					ii	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-144THC-TF-560 (560 Wp)	INA-144THC-TF-580	22.45	144 (Half Cut Cells)	1500		
								INA-144THC-TF-575	22.26				
								INA-144THC-TF-570	22.07				
								INA-144THC-TF-565	21.87				
								INA-144THC-TF-560	21.68				
								INA-144THC-TF-555	21.48				
								INA-144THC-TF-550	21.29				
					INA-144THC-TF-545	21.10							
					iii	N-Type TOPCon Module	INA-132THC-WF-520 (520 Wp)	INA-132THC-WF-545	22.94	132 (Half Cut Cells)	1500		
								INA-132THC-WF-540	22.73				
								INA-132THC-WF-535	22.52				
								INA-132THC-WF-530	22.31				
								INA-132THC-WF-525	22.10				
								INA-132THC-WF-520	21.89				
								INA-132THC-WF-515	21.68				
								INA-132THC-WF-510	21.47				
								INA-132THC-WF-505	21.26				
								INA-132THC-WF-500	21.05				
					iv	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-132THC-TF-520 (520 Wp)	INA-132THC-TF-545	22.94	132 (Half Cut Cells)	1500		
								INA-132THC-TF-540	22.73				
								INA-132THC-TF-535	22.52				
								INA-132THC-TF-530	22.31				
								INA-132THC-TF-525	22.10				
								INA-132THC-TF-520	21.89				
								INA-132THC-TF-515	21.68				
								INA-132THC-TF-510	21.47				
								INA-132THC-TF-505	21.26				
								INA-132THC-TF-500	21.05				
					v	N-Type TOPCon Module	INA-120THC-WF-475 (475 Wp)	INA-120THC-WF-495	22.79	120 (Half Cut Cells)	1500		
								INA-120THC-WF-490	22.56				
								INA-120THC-WF-485	22.33				
								INA-120THC-WF-480	22.10				
								INA-120THC-WF-475	21.87				
								INA-120THC-WF-470	21.64				
								INA-120THC-WF-465	21.41				
								INA-120THC-WF-460	21.18				
					vi	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-120THC-TF-475 (475 Wp)	INA-120THC-WF-455	20.95	120 (Half Cut Cells)	1500		
								INA-120THC-TF-450	20.90				
								INA-120THC-TF-445	20.85				
								INA-120THC-TF-440	20.80				
								INA-120THC-TF-435	20.75				
								INA-120THC-TF-430	20.70				
								INA-120THC-TF-425	20.65				
								INA-120THC-TF-420	20.60				
					vii	N-Type TOPCon Module	INA-108THC-WF-430 (430 Wp)	INA-120THC-TF-415	21.15	108 (Half Cut Cells)	1500		
								INA-120THC-TF-410	21.10				
								INA-108THC-WF-410	20.90				
								INA-108THC-WF-405	20.85				
								INA-108THC-WF-400	20.80				
								INA-108THC-WF-395	20.75				
								INA-108THC-WF-390	20.70				
								INA-108THC-WF-385	20.65				
					viii	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-108THC-TF-430 (430 Wp)	INA-108THC-TF-450	22.94	108 (Half Cut Cells)	1500		
								INA-108THC-TF-445	22.68				
								INA-108THC-TF-440	22.43				
								INA-108THC-TF-435	22.17				
								INA-108THC-TF-430	21.92				
								INA-108THC-TF-425	21.66				
								INA-108THC-TF-420	21.41				
								INA-108THC-TF-415	21.15				
					ix	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-156THC-GGF-610 (610 Wp)	INA-108THC-TF-410	20.90	156 (Half Cut Cells)	1500		
								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-156THC-GGF-600	21.46				
					x	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-144THC-GGF-560 (560 Wp)	INA-156THC-GGF-595	21.29	144 (Half Cut Cells)	1500		
								INA-156THC-GGF-590	21.11				
								INA-144THC-GGF-580	22.45				
								INA-144THC-GGF-575	22.26				
								INA-144THC-GGF-570	22.07				
								INA-144THC-GGF-565	21.87				
								INA-144THC-GGF-560	21.68				
								INA-144THC-GGF-555	21.48				
					xi	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-132THC-GGF-530 (530 Wp)	INA-144THC-GGF-550	21.29	132 (Half Cut Cells)	1500		
								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				
					xii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-120THC-GGF-465 (465 Wp)	INA-120THC-GGF-475	21.87	120 (Half Cut Cells)	1500		
								INA-120THC-GGF-470	21.64				
								INA-120THC-GGF-465	21.41				
								INA-120THC-GGF-460	21.18				
					xiii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-108THC-GGF-420 (420 Wp)	INA-120THC-GGF-430	21.92	108 (Half Cut Cells)	1500		
								INA-108THC-GGF-430	21.92				
								INA-108THC-GGF-425	21.66				
								INA-108THC-GGF-420	21.41				
xiv	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-96THC-GGF-370 (370 Wp)	INA-108THC-GGF-415	21.15	96 (Half Cut Cells)	1500							
			INA-108THC-GGF-410	20.90									
			INA-96THC-GGF-380	21.62									
			INA-96THC-GGF-375	21.33									
xv	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-72THC-GGF-280 (280 Wp)	INA-96THC-GGF-365	20.77	72 (Half Cut Cells)	1500							
			INA-96THC-GGF-360	20.48									
			INA-72THC-GGF-280	20.85									
			INA-72THC-GGF-275	20.48									

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: 27th March, 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;

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. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023 and O.M. of even no. dated 22.03.2024 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 requirement for crystalline-Silicon technology based Solar PV Modules	Minimum Module Efficiency requirement for Cadmium Telluride Thin Film technology based Solar PV Modules
Category I	Utility / Grid Scale Power Plants	20.0%	19.00%
Category II	Rooftop and Solar Pumping	19.5%	18.50%
Category III	Solar Lighting	19.0%	18.00%

3. Post the O.M. dated 10.05.2023 and subsequent O.M. dated 22.03.2024, 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 17.02.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XXXVI of same is enclosed at Annexure-I. The details of provisional enlistments granted by MNRE in ALMM List-I are 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:
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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)
7	Insolation Energy Pvt. Ltd	Khasra No 766/2, Vill-Bagwara, Teh-Amer Jaipur, Rajasthan	R-84002330	174	i	Mono c-Si PERC Module	INA72MP375	INA72MP375	19.23	72 (Full Cells)	1500	29.09.2023	28.09.2027
					ii	Mono c-Si PERC Module	INA72MP385	INA72MP395	19.80	72 (Full Cells)	1500	29.09.2023	28.09.2027
								INA72MP390	19.55				
								INA72MP385	19.30				
								INA72MP380	19.05				
39	M/s. Insolation Green Energy Pvt. Ltd	Khasra No 11/1, 1136/9, Chomu, Jatavali, Jaipur-302001, Rajasthan	R-84003549	617	i	Mono PERC c-Si Modules	INA-144MHC-WF-530 (530Wp)	INA-144MHC-WF-520	20.14	144 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-144MHC-WF-525	20.33				
								INA-144MHC-WF-530	20.53				
								INA-144MHC-WF-535	20.72				
								INA-144MHC-WF-540	20.91				
								INA-144MHC-WF-545	21.11				
					ii	Bifacial Mono PERC c-Si Modules	INA-144MHC-TF-530 (530Wp)	INA-144MHC-TF-520	20.14	144 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-144MHC-TF-525	20.33				
								INA-144MHC-TF-530	20.53				
								INA-144MHC-TF-535	20.72				
								INA-144MHC-TF-540	20.91				
								INA-144MHC-TF-545	21.11				
					iii	Mono PERC c-Si Modules	INA-132MHC-WF-490 (490Wp)	INA-132MHC-WF-480	20.19	132 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-132MHC-WF-485	20.41				
								INA-132MHC-WF-490	20.62				
								INA-132MHC-WF-495	20.83				
								INA-132MHC-WF-500	21.04				
								INA-132MHC-TF-480	20.19				
					iv	Bifacial Mono PERC c-Si Modules	INA-132MHC-TF-490 (490Wp)	INA-132MHC-TF-485	20.41	132 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-132MHC-TF-490	20.62				
								INA-132MHC-TF-495	20.83				
								INA-132MHC-TF-500	21.04				
								INA-120MHC-WF-435	20.04				
								INA-120MHC-WF-440	20.27				
					v	Mono PERC c-Si Modules	INA-120MHC-WF-440 (440Wp)	INA-120MHC-WF-445	20.50	120 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-120MHC-WF-450	20.73				
								INA-120MHC-TF-435	20.04				
								INA-120MHC-TF-440	20.27				
					vi	Bifacial Mono PERC c-Si Modules	INA-120MHC-TF-440 (440Wp)	INA-120MHC-TF-445	20.50	120 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-120MHC-TF-450	20.73				
								INA-108MHC-WF-390	19.86				
								INA-108MHC-WF-395	20.11				
					vii	Mono PERC c-Si Modules	INA-108MHC-WF-395 (395Wp)	INA-108MHC-WF-400	20.37	108 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-108MHC-WF-405	20.62				
								INA-108MHC-TF-390	19.86				
								INA-108MHC-TF-395	20.11				
					viii	Bifacial Mono PERC c-Si Modules	INA-108MHC-TF-395 (395Wp)	INA-108MHC-TF-400	20.37	108 (Half Cut Cell)	1500	31.05.2023	30.05.2027
								INA-108MHC-TF-405	20.62				
								INA-144MHC-WF-550	21.29				
								INA-144MHC-WF-555	21.48				
					ix	Mono c-Si PERC Module	INA-144MHC-WF-555	INA-144MHC-WF-560	21.68	144 Half Cut Cells	1500	31.05.2023	30.05.2027
								INA-144MHC-TF-550	21.29				
								INA-144MHC-TF-555	21.48				
					x	Bifacial Mono c-Si PERC Module	INA-144MHC-TF-555	INA-144MHC-TF-560	21.68	144 Half Cut Cells	1500	31.05.2023	30.05.2027