

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 25.11.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XLV (*in the format of additions / modifications to Revision-XLIV*) is enclosed at Annexure-I. The last revision no. XLIV dated 25.11.2025 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_registrationc.do?hmode=getLimsData

8. This issues with the approval of competent authority.



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Encl: as above

To: All Concerned

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

A. Amendments/ Updations in previous lists of ALMM List-I

1. Revision XXXVI Sl. No. 1 => Removal of Emmvee Unit-1 located in # 13/1, International Airport Road. Bettahalasur Post, Bengaluru - 562 157, India, from ALMM List-I for solar PV modules, as the BIS validity of the said manufacturing plant has already expired on 19.09.2025 and has not been renewed and the manufacturer has discontinued manufacturing operations at this location.

2. Revision XLIV Sl.No. 4 => M/s. Sirius Solar Energy Systems Pvt. Ltd. - Address Update

Old Address:- PLOT NO.30 & 46, ALEAP INDUSTRIAL ESTATE, PRAGATHI NAGAR, GAJULARAMARAM, QUTUBULLAPUR MANDAL, Telangana, India - 500090

New Address:- PLOT NO: F33, SY.NO:70 & 174, IP SULTANPUR, PATANCHERU, SANGAREDDY- 502319, Telangana, India



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)					
16	M/s. Insolation Green Energy Private Limited (Model Addition + Capacity Addition)	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	2791	i	Bifacial N-Type TOPCon Module (Glass to Glass)	INA132T210RGGF615 (615 Wp)	INA132T210RGGF635	23.51	132 (Half Cut Cells)	1500	13.10.2025	12.10.2029	
								INA132T210RGGF630	23.32					
								INA132T210RGGF625	23.14					
								INA132T210RGGF620	22.95					
								INA132T210RGGF615	22.77					
								INA132T210RGGF610	22.58					
								INA132T210RGGF605	22.40					
								INA132T210RGGF600	22.21					

Note: In case of model inclusion or capacity addition / change, through revision in ALMM List, the capacity mentioned against any manufacturing unit, as appearing in the said Revision to the ALMM List, shall be the ALMM enlisted manufacturing capacity for that manufacturing unit (from the date of the said revision), and the capacity enlisted for that manufacturing unit should not be interpreted as Sum of (enlisted capacity for that manufacturing unit in previous ALMM list/ previous revision to ALMM List) and (enlisted capacity in the present revision)

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)
						(Glass to Glass)		SGE-M10120T16G-500	23.13				
								SGE-M10120T16G-495	22.90				
								SGE-M10120T16G-490	22.67				
					xv	Bifacial N-Type TOPCon Module (Glass to Glass)	SGE - M10120T16G - 475 (475 Wp)	SGE-M10120T16G-485	22.44	120 (Half Cut Cells)	1500		
								SGE-M10120T16G-480	22.21				
								SGE-M10120T16G-475	21.98				
								SGE-M10120T16G-470	21.75				
								SGE-M10120T16G-465	21.51				
								SGE-M10120T16G-460	21.28				
					xvi	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	SGE - M10108T16T - 450 (450 Wp)	SGE-M10108T16T-460	23.58	108 (Half Cut Cells)	1500		
								SGE-M10108T16T-455	23.33				
								SGE-M10108T16T-450	23.07				
								SGE-M10108T16T-445	22.81				
								SGE-M10108T16T-440	22.56				
								SGE-M10108T16T-435	22.30				
					xvii	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	SGE - M10108T16T - 425 (425 Wp)	SGE-M10108T16T-430	22.05	108 (Half Cut Cells)	1500		
								SGE-M10108T16T-425	21.79				
								SGE-M10108T16T-420	21.53				
								SGE-M10108T16T-415	21.28				
								SGE-M10108T16G-460	23.58				
								SGE-M10108T16G-455	23.33				
					xviii	Bifacial N-Type TOPCon Module (Glass to Glass)	SGE - M10108T16G - 450 (450 Wp)	SGE-M10108T16G-450	23.07	108 (Half Cut Cells)	1500		
								SGE-M10108T16G-445	22.81				
								SGE-M10108T16G-440	22.56				
								SGE-M10108T16G-435	22.30				
								SGE-M10108T16G-430	22.05				
								SGE-M10108T16G-425	21.79				
					xix	Bifacial N-Type TOPCon Module (Glass to Glass)	SGE - M10108T16G - 425 (425 Wp)	SGE-M10108T16G-420	21.53	108 (Half Cut Cells)	1500		
								SGE-M10108T16G-415	21.28				
								INA-156THC-GGF-650	23.25				
								INA-156THC-GGF-645	23.07				
								INA-156THC-GGF-640	22.90				
								INA-156THC-GGF-635	22.72				
								INA-156THC-GGF-630	22.54	144 (Half Cut Cells)	1500		
								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				
								INA-144THC-GGF-565	21.87	132 (Half Cut Cells)	1500		
								INA-144THC-GGF-560	21.68				
								INA-144THC-GGF-555	21.48				
								INA-144THC-GGF-550	21.29				
								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-500	21.05				
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				
								INA-144THC-GGF-600	23.23				
								INA-144THC-GGF-595	23.03				
								INA-144THC-GGF-590	22.84	144 (Half Cut Cells)	1500		
								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	132 (Half Cut Cells)	1500		
								INA-144THC-GGF-555	21.48				
								INA-144THC-GGF-550	21.29				
								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-500	21.05				

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)
					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		
9	M/s. Jakson Engineers Limited (Model Addition + Capacity Addition)	Plot No-25, Ecotech-III, Udyog Kendra, Greater Noida-201306, Gautam Budha Nagar, Uttar Pradesh, India	R-93005959	1209	i	Bifacial N-Type TOPCon Module (Glass to Glass)	JN-615GR (615 Wp)	JN-605GR JN-610GR JN-615GR	22.42 22.60 22.79	132 (Half Cut Cells) Cell Size: 182*210mm	1500	17.08.2023	16.08.2027
10	M/s. Suryanand Solar Cluster Association (New Addition in ALMM)	Opp Prince Steel, Plot No CL 1, Barshi Road, Additional MIDC, Harangul Buzurg, Latur -413531, Maharashtra, India	R-71028959	33	i	Mono c-Si PERC Module	SSCA350WC (350 Wp)	SSCA335WC	19.19	96 (Half Cut Cells)	1500	13.10.2025	12.10.2029
								SSCA340WC	19.47				
								SSCA345WC	19.76				
								SSCA350WC	20.05				
								SSCA355WC	20.33				
								SSCA360WC	20.62				
					iii	Mono c-Si PERC Module	SSCA390WC (390 Wp)	SSCA375WC	19.18	108 (Half Cut Cells)	1500		
								SSCA380WC	19.43				
								SSCA385WC	19.69				
								SSCA390WC	19.94				
								SSCA395WC	20.20				
								SSCA400WC	20.45				
								SSCA405WC	20.71				
					iii	Mono c-Si PERC Module	SSCA425WC (425 Wp)	SSCA415WC	19.16	120 (Half Cut Cells)	1500		
								SSCA420WC	19.39				
								SSCA425WC	19.62				
								SSCA430WC	19.85				
								SSCA435WC	20.08				
					iv	Mono c-Si PERC Module	SSCA450WC (450 Wp)	SSCA440WC	20.31	120 (Half Cut Cells)	1500		
								SSCA445WC	20.54				
								SSCA450WC	20.77				
								SSCA455WC	21.00				
								SSCA460WC	21.23				
					v	Mono c-Si PERC Module	SSCA485WC (485 Wp)	SSCA465WC	19.59	132 (Half Cut Cells)	1500		
								SSCA470WC	19.80				
								SSCA475WC	20.01				
								SSCA480WC	20.22				
								SSCA485WC	20.43				
								SSCA490WC	20.64				
								SSCA495WC	20.85				
								SSCA500WC	21.06				
					vi	Mono c-Si PERC Module	SSCA525WC (525 Wp)	SSCA505WC	19.57	144 (Half Cut Cells)	1500		
								SSCA510WC	19.76				
								SSCA515WC	19.95				
								SSCA520WC	20.15				
								SSCA525WC	20.34				
								SSCA530WC	20.53				
								SSCA535WC	20.73				
								SSCA540WC	20.92				
								SSCA545WC	21.12				
					11	M/s. Axitec Energy India Pvt Ltd	Co-ALMM with M/s. Knack Energy Private Limited	R-72013854	150 (As per	i	Bifacial N-Type TOPCon		

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
					vii	Mono PERC C-Si Module	SUN120P445 (445 Wp)	SUN120P450	20.79	120 (Half Cut Cell)	1500		
								SUN120P445	20.55				
								SUN120P440	20.30				
								SUN120P435	20.07				
					viii	Mono PERC C-Si Module	SUN108P410 (410 Wp)	SUN108P420	21.43	108 (Half Cut Cell)	1500		
								SUN108P415	21.16				
								SUN108P410	20.90				
								SUN108P405	20.65				
								SUN108P400	20.39				
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				
								INA-120THC-WF-455	20.95				
					vi	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-120THC-TF-475 (475 Wp)	INA-120THC-TF-495	22.79	120 (Half Cut Cells)	1500		
								INA-120THC-TF-490	22.56				
								INA-120THC-TF-485	22.33				
								INA-120THC-TF-480	22.10				
								INA-120THC-TF-475	21.87				
								INA-120THC-TF-470	21.64				
								INA-120THC-TF-465	21.41				
								INA-120THC-TF-460	21.18				
								INA-120THC-TF-455	20.95				

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 deemd to be delisted)	
												From	To
					vii	N-Type TOPCon Module	INA-108THC-WF-430 (430 Wp)	INA-108THC-WF-450	22.94	108 (Half Cut Cells)	1500		
								INA-108THC-WF-445	22.68				
								INA-108THC-WF-440	22.43				
								INA-108THC-WF-435	22.17				
								INA-108THC-WF-430	21.92				
								INA-108THC-WF-425	21.66				
								INA-108THC-WF-420	21.41				
								INA-108THC-WF-415	21.15				
					viii	Bifacial N-Type TOPCon Module (Glass to Transparent Backsheet)	INA-108THC-TF-430 (430 Wp)	INA-108THC-WF-410	20.90	108 (Half Cut Cells)	1500		
								INA-108THC-TF-450	22.94				
								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				
					ix	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-156THC-GGF-610 (610 Wp)	INA-108THC-TF-415	21.15	156 (Half Cut Cells)	1500		
								INA-108THC-TF-410	20.90				
								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				
					x	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-144THC-GGF-560 (560 Wp)	INA-156THC-GGF-600	21.46	144 (Half Cut Cells)	1500		
								INA-156THC-GGF-595	21.29				
								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				
					xi	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-132THC-GGF-530 (530 Wp)	INA-144THC-GGF-555	21.48	132 (Half Cut Cells)	1500		
								INA-144THC-GGF-550	21.29				
								INA-144THC-GGF-545	21.10				
								INA-132THC-GGF-540	22.73				
					xii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-120THC-GGF-465 (465 Wp)	INA-132THC-GGF-535	22.52	120 (Half Cut Cells)	1500		
								INA-132THC-GGF-530	22.31				
								INA-132THC-GGF-525	22.10				
								INA-132THC-GGF-520	21.89				
					xiii	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-108THC-GGF-420 (420 Wp)	INA-120THC-GGF-475	21.87	108 (Half Cut Cells)	1500		
								INA-120THC-GGF-470	21.64				
								INA-120THC-GGF-465	21.41				
								INA-120THC-GGF-460	21.18				
					xiv	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-96THC-GGF-370 (370 Wp)	INA-108THC-GGF-430	21.92	96 (Half Cut Cells)	1500		
								INA-108THC-GGF-425	21.66				
								INA-108THC-GGF-420	21.41				
								INA-108THC-GGF-415	21.15				
					xv	Bifacial N-Type TOPCon Module (Glass to Glass)	INA-72THC-GGF-280 (280 Wp)	INA-108THC-GGF-410	20.90	72 (Half Cut Cells)	1500		
								INA-96THC-GGF-380	21.62				
								INA-96THC-GGF-375	21.33				
								INA-96THC-GGF-370	21.05				
6	M/s. Integrated Batteries India Pvt Ltd (Model Addition)	Plot No. 40, Sector -10, Greater Noida - 201310, Uttar Pradesh, India	R-93017612	93	i	Mono c-Si PERC Module	IBMPH-205 (205 Wp)	INA-96THC-GGF-365	20.77	56 (Half Cut Cells)	1500	10.04.2024	09.04.2028
								INA-96THC-GGF-360	20.48				
					ii	Mono c-Si PERC Module	IBMPH-355	INA-72THC-GGF-285	21.23	96 (Half Cut Cells)	1500		
								INA-72THC-GGF-280	20.85				
								INA-72THC-GGF-275	20.48				
								IBMPH-200	19.17				
								IBMPH-205	19.65				
								IBMPH-210	20.13				
								IBMPH-345	19.70				
								IBMPH-350	19.99				
								IBMPH-355	20.28				

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)
					xxv	N-Type TOPCon Module (Glass to Glass)	JN-520G (520 Wp)	JN-505G	21.28	132 (Half Cut cells)	1500	17.08.2023	16.08.2027
								JN-510G	21.50				
								JN-515G	21.71				
								JN-520G	21.92				
								JN-525G	22.13				
								JN-530G	22.34				
					xxvi	N-Type TOPCon Module (Glass to Glass)	JN-570G (570 Wp)	JN-545G	21.12	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JN-550G	21.31				
								JN-555G	21.50				
								JN-560G	21.70				
								JN-565G	21.89				
								JN-570G	22.08				
								JN-575G	22.28				
								JN-580G	22.47				
7	Insolation Energy Pvt. Ltd	Khasra No 766/2, VIII-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				
8	Gautam Solar Pvt. Ltd.	Plot No-67-70, Sector-8A IIE, Sidcul Haridwar- 249403, Uttarakhand	R-83006041	710	i	Mono c-Si PERC Modules	G2XBifacial1767-HAE (590 Wp) 595Wp)	INA72MP380	19.05	156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1734-HAE	20.20				
								G2XBifacial1741-HAE	20.38				
								G2XBifacial1747-HAE	20.56				
								G2XBifacial1754-HAE	20.74				
								G2XBifacial1760-HAE	20.92				
					ii	Mono c-Si PERC Modules	G2XBifacial1695-HAD (535 Wp) (510Wp-550Wp)	G2XBifacial1767-HAE	21.10	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1773-HAE	21.28				
								G2XBifacial1663-HAD	19.74				
								G2XBifacial1669-HAD	19.94				
								G2XBifacial1676-HAD	20.13				
								G2XBifacial1682-HAD	20.32				
								G2XBifacial1689-HAD	20.52				
								G2XBifacial1695-HAD	20.71				
								G2XBifacial1702-HAD	20.90				
								G2XBifacial1708-HAD	21.10				
					iii	Mono c-Si PERC Modules	G2XBifacial1643-HAB (495 Wp) (485Wp-505Wp)	G2XBifacial1715-HAD	21.29	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1656-HAB	21.13				
								G2XBifacial1650-HAB	20.92				
								G2XBifacial1643-HAB	20.71				
					iv	Mono c-Si PERC Modules	G2XBifacial1585-HAA (450 Wp) (440Wp-460Wp)	G2XBifacial1637-HAB	20.50	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1630-HAB	20.29				
								G2XBifacial1598-HAA	21.09				
								G2XBifacial1591-HAA	20.87				
								G2XBifacial1585-HAA	20.64				
								G2XBifacial1578-HAA	20.41				
					v	Mono c-Si PERC Modules	G2XBifacial1526-HAY (405 Wp) (390Wp-415Wp)	G2XBifacial1572-HAA	20.18	108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1539-HAY	21.06				
								G2XBifacial1533-HAY	20.80				
								G2XBifacial1526-HAY	20.55				
								G2XBifacial1520-HAY	20.30				
					vi	Mono c-Si PERC Modules	G2XBifacial1468-HAX (360 Wp) (365Wp-350Wp)	G2XBifacial1507-HAY	19.79	96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1474-HAX	20.71				
								G2XBifacial1468-HAX	20.43				
								G2XBifacial1461-HAX	20.14				
								G2XBifacial1455-HAX	19.86				
					vii	Mono c-Si PERC Modules	G2X590-HAE (590 Wp)	G2X565-HAE	20.20	156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X570-HAE	20.38				
								G2X575-HAE	20.56				
								G2X580-HAE	20.74				
								G2X585-HAE	20.92				
								G2X590-HAE	21.10				
								G2X595-HAE	21.28				
								G2X510-HAD	19.74				
								G2X515-HAD	19.94				
								G2X520-HAD	20.13				