

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: 23rd January, 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 06.01.2025.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XXXIV 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:

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

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23rd January 2025)													
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	Emmvee Photovoltaic Power Pvt. Ltd.	#13/1, International Airport Road (Bellary Road), Bettahalasuru Post, Bengaluru-562157, Karnataka	R-62001074	512	i	Mono C-Si PERC Modules	E390M72 (390 Wp)	E385M72	19.20	72 (Full Cells)	1500	10.03.2023	09.03.2027
								E390M72	19.45				
								E395M72	19.70				
					ii	Mono C-Si PERC Modules	E325M60 (325 Wp)	E320M60	19.04	60 (Full Cells)	1500	10.03.2023	09.03.2027
								E325M60	19.34				
								E330M60	19.64				
2	M/s Sova Solar Ltd.	Layout Plot No: 25, E.P.I.P, Banskopa, Durgapur 713212, West Bengal, India.	R-51000590	1297	i	Mono C-Si PERC Modules	SS535144HCMP (535Wp)	SS520144HCMP	20.16	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
								SS525144HCMP	20.35				
								SS530144HCMP	20.54				
								SS535144HCMP	20.74				
								SS540144HCMP	20.93				
								SS545144HCMP	21.13				
								SS550144HCMP	21.32				
								SS555144HCMP	21.51				
					ii	Mono C-Si PERC Bifacial Modules	SS535144HCBP (535Wp)	SS520144HCBP	20.16	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
								SS525144HCBP	20.35				
								SS530144HCBP	20.54				
								SS535144HCBP	20.74				
								SS540144HCBP	20.93				
								SS545144HCBP	21.13				
								SS550144HCBP	21.32				
								SS555144HCBP	21.51				
					iii	Bifacial Mono c-Si PERC Modules (Glass to Transparent Backsheet)	SS535144HCMP (535Wp)	SS520144HCMP	20.16	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
								SS525144HCMP	20.35				
								SS530144HCMP	20.54				
								SS535144HCMP	20.74				
								SS540144HCMP	20.93				
								SS545144HCMP	21.13				
								SS550144HCMP	21.32				
								SS555144HCMP	21.51				
					iv	N-Type TOPCON Modules (Glass to Glass)	SS565144HCGT (565Wp)	SS580144HCGT	22.48	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SS575144HCGT	22.29				
								SS570144HCGT	22.09				
								SS565144HCGT	21.90				
								SS560144HCGT	21.71				
								SS555144HCGT	21.51				
								SS550144HCGT	21.32				
								SS545144HCGT	21.12				
								SS540144HCGT	20.93				
					v	Mono c-Si PERC Modules (Glass to Transparent Backsheet)	SS490132HCMP (490Wp)	SS505132HCMP	21.27	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SS500132HCMP	21.06				
								SS495132HCMP	20.85				
								SS490132HCMP	20.64				
								SS485132HCMP	20.43				
								SS480132HCMP	20.22				
								SS475132HCMP	20.01				
								SS470132HCMP	19.80				
3	M/s Solex Energy Ltd	Plot No. 131/A Phase-1, G.I.D.C, Vitthal Udyognagar, Anand, Gujarat	R-72002577	21	i	Mono C-Si PERC Modules	SESM24375 (375 Wp)	SESM24370	19.04	72 (Full Cells)	1000	10.03.2023	09.03.2027
								SESM24375	19.30				
								SESM24380	19.55				
					ii	Mono C-Si PERC Modules	SES20CM120W320 (320 Wp)	SES20CM120W320	19.21	120 (Half Cells)	1000	10.03.2023	09.03.2027
								SES24CM144W375	19.01				
								SES24CM144W380	19.30				
4	Saatvik Green Energy Pvt. Ltd.	Village Dubli, Tehsil- Barara, Dist- Ambala -133101, Haryana	R-91003670	1740	iii	Mono C-Si PERC Modules	SES24CM144W380 (380 Wp)	SES24CM144W385	19.51	144 (Half Cells)	1000	10.03.2023	09.03.2027
								SGE 190-36M (190 Wp)	19.11				
								SGE 255-48M (255 Wp)	19.37				
					ii	Mono C-Si PERC Modules	SGE 285-54M (285 Wp)	SGE 280-54M	19.15	54 (Full Cells)	1000	10.03.2023	09.03.2027
								SGE 285-54M	19.49				
								SGE 310-60M	19.08				
					iv	Mono C-Si PERC Modules	SGE 315-60M (315 Wp)	SGE 315-60M	19.41	60 (Full Cells)	1500	10.03.2023	09.03.2027
								SGE 370-72M	19.09				
								SGE 375-72M	19.35				
					v	Mono C-Si PERC Modules	SGE 375-72M (375 Wp)	SGE 375-72M	19.35	72 (Full Cells)	1500	10.03.2023	09.03.2027
								SGE 375-72M	19.35				

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)
					vi	Mono C-Si PERC Modules	SGE570-156MHC, (570 Wp)	SGE 380-72M	19.61	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE555-156MHC	19.78				
								SGE560-156MHC	19.96				
								SGE565-156MHC	20.14				
								SGE570-156MHC	20.32				
								SGE575-156MHC	20.50				
								SGE580-156MHC	20.67				
								SGE585-156MHC	20.85				
					vii	Mono C-Si PERC Modules	SGE530-144MHC, (530 Wp)	SGE590-156MHC	21.03	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE520-144MHC	20.13				
								SGE525-144MHC	20.32				
								SGE530-144MHC	20.52				
								SGE535-144MHC	20.70				
								SGE540-144MHC	20.90				
								SGE545-144MHC	21.10				
								SGE550-144MHC	21.29				
					viii	Mono C-Si PERC Modules	SGE485-132MHC, (485 Wp)	SGE470-132MHC	19.78	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE475-132MHC	20.01				
								SGE480-132MHC	20.23				
								SGE485-132MHC	20.41				
								SGE490-132MHC	20.63				
								SGE495-132MHC	20.84				
								SGE500-132MHC	21.05				
					ix	Mono C-Si PERC Modules	SGE440-120MHC, (440 Wp)	SGE420-120MHC	19.37	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE425-120MHC	19.60				
								SGE430-120MHC	19.83				
								SGE435-120MHC	20.06				
								SGE440-120MHC	20.29				
								SGE445-120MHC	20.52				
								SGE450-120MHC	20.76				
								SGE455-120MHC	20.99				
					x	Mono C-Si PERC Modules	SGE395-108MHC, (395 Wp)	SGE380-108MHC	19.44	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE385-108MHC	19.69				
								SGE390-108MHC	19.95				
								SGE395-108MHC	20.20				
								SGE400-108MHC	20.46				
								SGE405-108MHC	20.71				
								SGE410-108MHC	20.98				
					xi	Mono C-Si PERC Modules	SGE 395-72M, (395 Wp)	SGE 385-72M	19.22	72 (Full Cell)	1500	10.03.2023	09.03.2027
								SGE 390-72M	19.47				
								SGE 395-72M	19.72				
								SGE 400-72M	19.97				
					xii	Bifacial Mono c-Si PERC Modules (Glass to Transparent Backsheet)	SGE535-144MBHC (535 Wp)	SGE525-144MBHC	20.32	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE530-144MBHC	20.52				
								SGE535-144MBHC	20.71				
								SGE540-144MBHC	20.90				
								SGE545-144MBHC	21.10				
								SGE550-144MBHC	21.29				
					xiii	Bifacial N Type TOPCon Module	SGE425-108TGG (425 Wp)	SGE410-108TGG	20.97	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE415-108TGG	21.22				
								SGE420-108TGG	21.48				
								SGE425-108TGG	21.74				
								SGE430-108TGG	21.99				
								SGE435-108TGG	22.25				
								SGE440-108TGG	22.51				
								SGE460-120TGG	21.21	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xiv	Bifacial N Type TOPCon Module	SGE475-120TGG (475 Wp)	SGE465-120TGG	21.46				
								SGE470-120TGG	21.68				
								SGE475-120TGG	21.91				
								SGE480-120TGG	22.14				
								SGE485-120TGG	22.37				
								SGE490-120TGG	22.60				
								SGE510-132TGG	21.46	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xv	Bifacial N Type TOPCon Module	SGE520-132TGG (520 Wp)	SGE515-132TGG	21.67				
								SGE520-132TGG	21.88				
								SGE525-132TGG	22.09				
								SGE530-132TGG	22.30				
								SGE535-132TGG	22.51				
								SGE560-144TGG	21.68				

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)
					xvi	Bifacial N Type TOPCon Module	SGE575-144TGG (575 Wp)	SGE565-144TGG SGE570-144TGG SGE575-144TGG SGE580-144TGG SGE585-144TGG SGE590-144TGG	21.87 22.06 22.26 22.45 22.64 22.84	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xvii	Bifacial N Type TOPCon Module	SGE615-156TGG (615 Wp)	SGE600-156TGG SGE605-156TGG SGE610-156TGG SGE615-156TGG SGE620-156TGG SGE625-156TGG	21.47 21.65 21.83 22.01 22.19 22.37	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xviii	Mono c-Si PERC Module	SGE500-144 MHC (500 Wp)	SGE500-144 MHC	19.35	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
5	Navitas Green Solutions Pvt. Ltd.	Plot No. B-20/3, Road No. 13, 14, Palsana-Baleshwar Rd, Hoziwala Industrial Estate, Sachin, Surat-394230, Gujarat	R-72003140	250	i	Mono C-Si PERC Modules	NSM375 (375 Wp)	NSM370 NSM375 NSM380	19.07 19.33 19.58	72 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM310-60 NSM315-60 NSM320-60 NSM325-60 NSM330-60	19.09 19.40 19.71 20.02 20.33	60 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM340-66 NSM345-66 NSM350-66 NSM355-66	19.03 19.31 19.59 19.87	66 (Full Cells)	1500	10.03.2023	09.03.2027
					iv	Mono PERC C-Si Module	NSM580-156 (580 Wp)	NSM570-156 NSM575-156 NSM580-156 NSM585-156	20.39 20.57 20.74 20.92	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM525-144 NSM530-144 NSM535-144 NSM540-144 NSM545-144 NSM550-144 NSM555-144 NSM560-144	20.32 20.51 20.71 20.90 21.09 21.29 21.48 21.67	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					vi	Mono PERC C-Si Module	NSM500-132 (500 Wp)	NSM480-132 NSM485-132 NSM490-132 NSM495-132 NSM500-132 NSM435-120	20.21 20.42 20.64 20.85 21.06 20.09	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					vii	Mono PERC C-Si Module	NSM445-120 (445 Wp)	NSM440-120 NSM445-120 NSM450-120 NSM455-120	20.33 20.56 20.79 21.02	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					viii	Mono PERC C-Si Module	NSM400-108 (400 Wp)	NSM390-108 NSM395-108 NSM400-108 NSM405-108 NSM410-108	19.96 20.21 20.47 20.72 20.98	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					ix	Mono PERC C-Si Module	NSM360-96 (360 Wp)	NSM350-96 NSM355-96 NSM360-96 NSM365-96	20.06 20.35 20.64 20.92	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					x	Mono PERC C-Si Module	NSM270-72 (270 Wp)	NSM260-72 NSM265-72 NSM270-72 NSM275-72	19.62 20.00 20.38 20.76	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xi	Mono PERC C-Si Module	NSM470-156 (470 Wp)	NSM460-156 NSM465-156 NSM470-156 NSM475-156 NSM480-156 NSM485-156	19.65 19.86 20.07 20.29 20.50 20.72	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					xii	Mono PERC C-Si Module	NSM450-144 (450 Wp)	NSM435-144 NSM440-144 NSM445-144 NSM450-144	20.08 20.32 20.78 20.55	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027

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)
								NSM455-144	21.01				
								NSM460-144	21.64				
								NSM465-144	21.47				
					xiii	Mono PERC C-Si Module	NSM405-132 (405 Wp)	NSM395-132	19.85	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM400-132	20.10				
								NSM405-132	20.35				
								NSM410-132	20.60				
								NSM415-132	20.85				
								NSM360-120	19.84				
					xiv	Mono PERC C-Si Module	NSM370-120 (370 Wp)	NSM365-120	20.11	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM370-120	20.39				
								NSM375-120	20.66				
								NSM320-108	19.52				
					xv	Mono PERC C-Si Module	NSM330-108 (330 Wp)	NSM325-108	19.82	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM330-108	20.13				
								NSM335-108	20.43				
								NSM340-108	20.74				
								NSM285-96	19.47				
					xvi	Mono PERC C-Si Module	NSM290-96 (290 Wp)	NSM290-96	19.81	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM295-96	20.15				
								NSM300-96	20.49				
								NSM215-72	19.32				
					xvii	Mono PERC C-Si Module	NSM220-72 (220 Wp)	NSM220-72	19.77	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								NSM225-72	20.22				
								NSM385	19.40				
					xviii	Mono PERC C-Si Module	NSM395 (395 Wp)	NSM390	19.65	72 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM395	19.90				
								NSM400	20.15				
					xix	Mono PERC C-Si Module	NSM-WBPR64 - MIO-160(160Wp)	NSM-WBPR64 - MIO-160	19.82	64 (Half Cut Cells)	1000	10.03.2023	09.03.2027
					xx	Mono PERC C-Si Module	NSM-WBPR60 - MIO-225(225Wp)	NSM-WBPR60 - MIO-225	20.28	60 (Half Cut Cells)	1000		
					xxi	Mono PERC C-Si Module	NSM-WBPR56 - MIO-210(210Wp)	NSM-WBPR56 - MIO-210	20.26	56(Half Cut Cells)	1000		
					xxii	Mono PERC C-Si Module	NSM-WBPR52 - MIO-200(200Wp)	NSM-WBPR52 - MIO-200	20.72	52 (Half Cut Cells)	1000		
					xxiii	Mono PERC C-Si Module	NSM-WBPR48 - MIO-180(180Wp)	NSM-WBPR48 - MIO-180	20.13	48 (Half Cut Cells)	1000		
					xxiv	Mono PERC C-Si Module	NSM-WBPR44 - MIO-110(110Wp)	NSM-WBPR44 - MIO-110	19.38	44 (Half Cut Cells)	1000		
					xxv	Mono PERC C-Si Module	NSM-WBPR44 - MIO-165(165Wp)	NSM-WBPR44 - MIO-160	20.05	44 (Half Cut Cells)	1000		
					xxvi	Mono PERC C-Si Module	NSM-WBPR40 - MIO-150(150Wp)	NSM-WBPR40 - MIO-150	19.95	40 (Half Cut Cells)	1000		
					xxvii	Mono PERC C-Si Module	NSM-WBPR36 - MIO-90(90Wp)	NSM-WBPR36 - MIO-90	19.07	36 (Half Cut Cells)	1000		
					xxviii	Mono PERC C-Si Module	NSM-WBPR36 - MIO-135(135Wp)	NSM-WBPR36 - MIO-135	19.83	36 (Half Cut Cells)	1000		
					xxix	Mono PERC C-Si Module	NSM-WBPR32 - MIO-120(120Wp)	NSM-WBPR32 - MIO-120	19.68	32 (Half Cut Cells)	1000		
6	Jakson Engineers Ltd.	Plot No-25, Ecotech-III, Udyog Kendra, Greater NOIDA-201306, Gautam Budha Nagar, Uttar Pradesh, India.	R-93005959	1162	i	Mono C-Si PERC Modules	JH-440M, (440Wp)	JH-420M	19.26	120 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-425M	19.49				
								JH-430M	19.71				
								JH-435M	19.94				
								JH-440M	20.17				
								JH-445M	20.40				
								JH-450M	20.63				
								JH-455M	20.86				
								JH-460M	21.09				
								JH-470M	19.66				
					ii	Mono C-Si PERC Modules	JH-490M, (490Wp)	JH-475M	19.87	132 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-480M	20.08				
								JH-485M	20.29				
								JH-490M	20.50				
								JH-495M	20.71				
								JH-500M	20.92				
								JH-505M	21.13				
								JH-510M	21.34				
					iii	Mono C-Si PERC Modules	JH-535M, (535Wp)	JH-515M	19.85	144 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-520M	20.04				
								JH-525M	20.23				
								JH-530M	20.43				
								JH-535M	20.62				
								JH-540M	20.81				
								JH-545M	21.00				
								JH-550M	21.20				
								JH-555M	21.39				
					iv	Mono C-Si PERC Modules	JH-580M, (580Wp)	JH-580M	20.67	156 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-585M	20.85				
								JH-590M	21.03				
								JH-595M	21.21				

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)
								JH-600M	21.38				
					v	Mono C-Si PERC Modules	JP-H395M, (385Wp-405Wp)	JP-H385M	19.37	72 (Full Cells)	1500	17.08.2023	16.08.2027
								JP-H390M	19.62				
								JP-H395M	19.87				
								JP-H400M	20.12				
								JP-H405M	20.37				
					vi	Mono C-Si PERC Modules	JH-400M, (400Wp)	JH-380M	19.28	108 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-385M	19.53				
								JH-390M	19.79				
								JH-395M	20.04				
								JH-400M	20.29				
								JH-405M	20.55				
								JH-410M	20.88				
								JH-415M	21.06				
					vii	Mono c-Si Bifacial PERC Module	JH-400BB	JH-380BB	19.48	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-385BB	19.73				
								JH-390BB	19.99				
								JH-395BB	20.25				
								JH-400BB	20.50				
								JH-405BB	20.76				
								JH-410BB	21.01				
								JH-415BB	21.27				
					viii	Mono c-Si Bifacial PERC Module	JH-440BB	JH-420BB	19.39	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-425BB	19.62				
								JH-430BB	19.85				
								JH-435BB	20.08				
								JH-440BB	20.31				
								JH-445BB	20.54				
								JH-450BB	20.77				
								JH-455BB	21.00				
								JH-460BB	21.23				
					ix	Mono c-Si Bifacial PERC Module	JH-490BB	JH-475BB	20.02	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-480BB	20.23				
								JH-485BB	20.44				
								JH-490BB	20.65				
								JH-495BB	20.86				
								JH-500BB	21.07				
								JH-505BB	21.29				
								JH-510BB	21.50				
								JH-515BB	21.71				
					x	Mono c-Si Bifacial PERC Module	JH-535BB	JH-520BB	20.15	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-525BB	20.34				
								JH-530BB	20.53				
								JH-535BB	20.73				
								JH-540BB	20.92				
								JH-545BB	21.11				
								JH-550BB	21.31				
					xi	Mono c-Si Bifacial PERC Module	JH-400BT	JH-555BB	21.50	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-380BT	19.48				
								JH-385BT	19.73				
								JH-390BT	19.99				
								JH-395BT	20.25				
								JH-400BT	20.50				
								JH-405BT	20.76				
								JH-410BT	21.01				
								JH-415BT	21.27				
					xii	Mono c-Si Bifacial PERC Module	JH-440BT	JH-420BT	19.39	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-425BT	19.62				
								JH-430BT	19.85				
								JH-435BT	20.08				
								JH-440BT	20.31				
								JH-445BT	20.54				
								JH-450BT	20.77				
								JH-455BT	21.00				
								JH-460BT	21.23				
					xiii	Mono c-Si Bifacial PERC Module	JH-490BT	JH-475BT	20.02	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-480BT	20.23				
								JH-485BT	20.44				
								JH-490BT	20.65				
								JH-495BT	20.86				
								JH-500BT	21.07				
								JH-505BT	21.29				

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)
					xiv	Mono c-Si Bifacial PERC Module	JH-535BT	JH-510BT	21.50	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-515BT	21.71				
								JH-520BT	20.15				
								JH-525BT	20.34				
								JH-530BT	20.53				
								JH-535BT	20.73				
								JH-540BT	20.92				
								JH-545BT	21.11				
								JH-550BT	21.31				
								JH-555BT	21.50				
					xv	Mono c-Si Bifacial PERC Module	JH-400BW	JH-380BW	19.48	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-385BW	19.73				
								JH-390BW	19.99				
								JH-395BW	20.25				
								JH-400BW	20.50				
								JH-405BW	20.76				
								JH-410BW	21.01				
								JH-415BW	21.27				
								JH-420BW	19.39				
					xvi	Mono c-Si Bifacial PERC Module	JH-440BW	JH-425BW	19.62	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-430BW	19.85				
								JH-435BW	20.08				
								JH-440BW	20.31				
								JH-445BW	20.54				
								JH-450BW	20.77				
								JH-455BW	21.00				
								JH-460BW	21.23				
								JH-475BW	20.02	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027
					xvii	Mono c-Si Bifacial PERC Module	JH-490BW	JH-480BW	20.23				
								JH-485BW	20.44				
								JH-490BW	20.65				
								JH-495BW	20.86				
								JH-500BW	21.07				
								JH-505BW	21.29				
								JH-510BW	21.50				
								JH-515BW	21.71				
					xviii	Mono c-Si Bifacial PERC Module	JH-535BW	JH-520BW	20.15	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-525BW	20.34				
								JH-530BW	20.53				
								JH-535BW	20.73				
								JH-540BW	20.92				
								JH-545BW	21.11				
								JH-550BW	21.31				
								JH-555BW	21.50				
								JN-400BT	20.50	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
					xix	N-Type TOPCon Module (Glass to Transparent Backsheet)	JN-420BT (420 Wp)	JN-405BT	20.76				
								JN-410BT	21.01				
								JN-415BT	21.27				
								JN-420BT	21.53				
								JN-425BT	21.78				
								JN-430BT	22.04				
								JN-435BT	22.29				
								JN-440BT	22.55				
					xx	N-Type TOPCon Module (Glass to Transparent Backsheet)	JN-470BT (470 Wp)	JN-445BT	20.54	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JN-450BT	20.77				
								JN-455BT	21.00				
								JN-460BT	21.23				
								JN-465BT	21.46				
								JN-470BT	21.70				
								JN-475BT	21.93				
								JN-480BT	22.16				
								JN-485BT	22.39				
								JN-490BT	22.62	132 (Half Cut cells)	1500	17.08.2023	16.08.2027
					xxi	N-Type TOPCon Module (Glass to Transparent Backsheet)	JN-520BT (520 Wp)	JN-495BT	20.86				
								JN-500BT	21.07				
								JN-505BT	21.28				
								JN-510BT	21.50				
								JN-515BT	21.71				
								JN-520BT	21.92				
								JN-525BT	22.13				
								JN-530BT	22.34				
								JN-535BT	22.55				

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)
								JN-540BT	22.76	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
					xxii	N-Type TOPCon Module (Glass to Transparent Backsheet)	JN-570BT (570 Wp)	JN-545BT	21.12				
								JN-550BT	21.31				
								JN-555BT	21.50				
								JN-560BT	21.70				
								JN-565BT	21.89				
								JN-570BT	22.08				
								JN-575BT	22.28				
								JN-580BT	22.47				
								JN-585BT	22.66				
								JN-590BT	22.86				
					xxiii	N-Type TOPCon Module (Glass to Glass)	JN-420G (420 Wp)	JN-400G	20.50	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JN-405G	20.76				
								JN-410G	21.01				
								JN-415G	21.27				
								JN-420G	21.53				
								JN-425G	21.78				
								JN-430G	22.04				
								JN-435G	22.29				
								JN-445G	20.54				
								JN-450G	20.77				
								JN-455G	21.00				
					xxiv	N-Type TOPCon Module (Glass to Glass)	JN-470G (470 Wp)	JN-460G	21.23	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JN-465G	21.46				
								JN-470G	21.70				
								JN-475G	21.93				
								JN-480G	22.16				
								JN-485G	22.39				
								JN-495G	20.86				
								JN-500G	21.07				
								JN-505G	21.28				
					xxv	N-Type TOPCon Module (Glass to Glass)	JN-520G (520 Wp)	JN-510G	21.50	132 (Half Cut cells)	1500	17.08.2023	16.08.2027
								JN-515G	21.71				
								JN-520G	21.92				
								JN-525G	22.13				
								JN-530G	22.34				
								JN-545G	21.12				
								JN-550G	21.31				
								JN-555G	21.50				
					xxvi	N-Type TOPCon Module (Glass to Glass)	JN-570G (570 Wp)	JN-560G	21.70	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								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, 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
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)	INA72MP390	19.55				
								INA72MP385	19.30				
								INA72MP380	19.05				
								G2XBifacial1734-HAE	20.20	156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1741-HAE	20.38				
								G2XBifacial1747-HAE	20.56				
								G2XBifacial1754-HAE	20.74				
								G2XBifacial1760-HAE	20.92				
								G2XBifacial1767-HAE	21.10				
								G2XBifacial1773-HAE	21.28				
								G2XBifacial1663-HAD	19.74	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					ii	Mono c-Si PERC Modules	G2XBifacial1695-HAD (535 Wp) (510Wp-550Wp)	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				
								G2XBifacial1715-HAD	21.29				
					iii	Mono c-Si PERC Modules	G2XBifacial1643-HAB (495 Wp) (485Wp-505Wp)	G2XBifacial1656-HAB	21.13	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1650-HAB	20.92				
								G2XBifacial1643-HAB	20.71				
								G2XBifacial1637-HAB	20.50				
								G2XBifacial1630-HAB	20.29				
								G2XBifacial1598-HAA	21.09				

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	Mono c-Si PERC Modules	G2XBifacial1585-HAA (450 Wp) (440Wp-460Wp)	G2XBifacial1591-HAA	20.87	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2XBifacial1585-HAA	20.64				
								G2XBifacial1578-HAA	20.41				
								G2XBifacial1572-HAA	20.18				
					v	Mono c-Si PERC Modules	G2XBifacial1526-HAY (405 Wp) (390Wp-415Wp)	G2XBifacial1539-HAY	21.06	108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								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				
					vii	Mono c-Si PERC Modules	G2X590-HAE (590 Wp)	G2XBifacial1455-HAX	19.86	156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X565-HAE	20.20				
								G2X570-HAE	20.38				
								G2X575-HAE	20.56				
								G2X580-HAE	20.74				
								G2X585-HAE	20.92				
					viii	Mono c-Si PERC Modules	G2X530-HAD (530 Wp)	G2X590-HAE	21.10	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X595-HAE	21.28				
								G2X510-HAD	19.74				
								G2X515-HAD	19.94				
								G2X520-HAD	20.13				
								G2X525-HAD	20.32				
								G2X530-HAD	20.52				
								G2X535-HAD	20.71				
								G2X540-HAD	20.90				
								G2X545-HAD	21.10				
					ix	Mono c-Si PERC Modules	G2X495-HAB (495 Wp)	G2X550-HAD	21.29	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X505-HAB	21.13				
								G2X500-HAB	20.92				
								G2X495-HAB	20.71				
					x	Mono c-Si PERC Modules	G2X450-HAA (450 Wp)	G2X490-HAB	20.50	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X485-HAB	20.29				
								G2X460-HAA	21.09				
								G2X455-HAA	20.87				
					xi	Mono c-Si PERC Modules	G2X405-HAY (405 Wp)	G2X450-HAA	20.64	108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X445-HAA	20.41				
								G2X440-HAA	20.18				
								G2X415-HAY	21.06				
					xii	Mono c-Si PERC Modules	G2X360-HAX (360 Wp)	G2X410-HAY	20.80	96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X405-HAY	20.55				
								G2X400-HAY	20.30				
								G2X390-HAY	19.79				
					xiii	Mono c-Si PERC Modules	GS-420-AAA (420 Wp)	G2X365-HAX	20.71	78 (Full Cells)	1500	29.09.2023	28.09.2027
								G2X360-HAX	20.43				
								G2X355-HAX	20.14				
								G2X350-HAX	19.86				
					xiv	Mono c-Si PERC Modules	GS-400-AAB (400 Wp)	GS-410-AAA	19.03	72 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-415-AAA	19.26				
								GS-420-AAA	19.49				
								GS-425-AAA	19.72				
								GS-430-AAA	19.95				
								GS-380-AAB	19.13				
								GS-385-AAB	19.39				
								GS-390-AAB	19.64				
								GS-395-AAB	19.89				
								GS-400-AAB	20.14				
					xv	Mono c-Si PERC Modules	GS-360-AAC (360 Wp)	GS-405-AAB	20.39	66 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-410-AAB	20.64				
								GS-415-AAB	20.90				
								GS-420-AAB	21.15				
					xvi	Mono c-Si PERC Modules	GS-330-AAD (330 Wp)	GS-350-AAC	19.13	60 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-355-AAC	19.40				
								GS-360-AAC	19.67				
								GS-365-AAC	19.95				
								GS-320-AAD	19.16	60 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-325-AAD	19.46				
								GS-330-AAD	19.76				