

F. No. 283/22/2023-GRID SOLAR-Pt.
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 August, 2023

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;

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 had issued major reforms in the Approved List of Models and Manufactures for Solar Photovoltaic Modules which inter-alia include enlistment of only such models of Solar PV Module Manufacturers, 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 under ALMM
Category I	Utility / Grid Scale Power Plants	20.0%
Category II	Rooftop and Solar Pumping	19.5%
Category III	Solar Lighting	19.0%

3. Post 10.05.2023, only such models of Solar PV Modules have been considered for enlistment under ALMM List-I, whose module efficiency is equal to or greater than 19.00%.

4. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 was last updated on 17.08.2023.

5. The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XV 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. This issues with the approval of competent authority.



(Sanjay 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 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
1	Emmvee Photovoltaic Power Pvt. Ltd.	#13/1, International Airport Road (Bellary Road), Bettahalasuru Post, Bengaluru-562157, Karnataka	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.	532	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				
3	M/s Solex Energy Ltd	Plot No. 131/A Phase-1, G.I.D.C, Vitthal Udyognagar, Anand, Gujarat	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
4	Saatvik Green Energy Pvt. Ltd.	Village Dubli, Tehshil- Barara, Dist- Ambala -133101, Haryana	566	iii	Mono C-Si PERC Modules	SES24CM144W380 (380 Wp)	SES24CM144W375	19.01	144 (Half Cells)	1000	10.03.2023	09.03.2027
							SES24CM144W380	19.30				
							SES24CM144W385	19.51				
				i	Mono C-Si PERC Modules	SGE 190-36M (190 Wp)	SGE 190-36M	19.11	36 (Full Cells)	1000	10.03.2023	09.03.2027
				ii	Mono C-Si PERC Modules	SGE 255-48M (255 Wp)	SGE 255-48M	19.37	48 (Full Cells)	1000	10.03.2023	09.03.2027
				iii	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 380-72M	19.61	72 (Full Cells)	1500	10.03.2023	09.03.2027
							SGE555-156MHC	19.78				
							SGE560-156MHC	19.96				
				vi	Mono C-Si PERC Modules	SGE570-156MHC, (570 Wp)	SGE565-156MHC	20.14	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							SGE570-156MHC	20.32				
							SGE575-156MHC	20.50				
							SGE580-156MHC	20.67				
							SGE585-156MHC	20.85				
							SGE590-156MHC	21.03				
							SGE520-144MHC	20.13				
							SGE525-144MHC	20.32				
				vii	Mono C-Si PERC Modules	SGE530-144MHC, (530 Wp)	SGE530-144MHC	20.52	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							SGE535-144MHC	20.70				
							SGE540-144MHC	20.9				
							SGE545-144MHC	21.10				
							SGE470-132MHC	19.78				
							SGE475-132MHC	20.01				
							SGE480-132MHC	20.23				

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				viii	Mono C-Si PERC Modules	SGE485-132MHC, (485 Wp)	SGE485-132MHC	20.41	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							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				
				xi	Mono C-Si PERC Modules	SGE 395-72M, (395 Wp)	SGE410-108MHC	20.98	72 (Full Cell)	1500	10.03.2023	09.03.2027
							SGE 385-72M	19.22				
							SGE 390-72M	19.47				
							SGE 395-72M	19.72				
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	250	i	Mono C-Si PERC Modules	NSM375 (375 Wp)	NSM370	19.07	72 (Full Cells)	1500	10.03.2023	09.03.2027
							NSM375	19.33				
							NSM380	19.58				
				ii	Mono C-Si PERC Modules	NSM320-60 (320 Wp)	NSM310-60	19.09	60 (Full Cells)	1500	10.03.2023	09.03.2027
							NSM315-60	19.40				
							NSM320-60	19.71				
							NSM325-60	20.02				
							NSM330-60	20.33				
				iii	Mono C-Si PERC Modules	NSM350-66 (350 Wp)	NSM340-66	19.03	66 (Full Cells)	1500	10.03.2023	09.03.2027
							NSM345-66	19.31				
							NSM350-66	19.59				
							NSM355-66	19.87				
				iv	Mono PERC C-Si Module	NSM580-156 (580 Wp)	NSM570-156	20.39	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM575-156	20.57				
							NSM580-156	20.74				
							NSM585-156	20.92				
				v	Mono PERC C-Si Module	NSM540-144 (540 Wp)	NSM525-144	20.32	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM530-144	20.51				
							NSM535-144	20.71				
							NSM540-144	20.90				
							NSM545-144	21.09				
							NSM550-144	21.29				
							NSM555-144	21.48				
							NSM560-144	21.67				
				vi	Mono PERC C-Si Module	NSM500-132 (500 Wp)	NSM480-132	20.21	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM485-132	20.42				
							NSM490-132	20.64				
							NSM495-132	20.85				
							NSM500-132	21.06				
				vii	Mono PERC C-Si Module	NSM445-120 (445 Wp)	NSM435-120	20.09	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM440-120	20.33				
							NSM445-120	20.56				
							NSM450-120	20.79				
							NSM455-120	21.02				
							NSM390-108	19.96				
							NSM395-108	20.21				

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S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				viii	Mono PERC C-Si Module	NSM400-108 (400 Wp)	NSM400-108	20.47	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM405-108	20.72				
							NSM410-108	20.98				
				ix	Mono PERC C-Si Module	NSM360-96 (360 Wp)	NSM350-96	20.06	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM355-96	20.35				
							NSM360-96	20.64				
				x	Mono PERC C-Si Module	NSM270-72 (270 Wp)	NSM365-96	20.92	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM260-72	19.62				
							NSM265-72	20.00				
				xi	Mono PERC C-Si Module	NSM470-156 (470 Wp)	NSM270-72	20.38	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM275-72	20.76				
							NSM460-156	19.65				
				xii	Mono PERC C-Si Module	NSM450-144 (450 Wp)	NSM465-156	19.86	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM470-156	20.07				
							NSM475-156	20.29				
				xiii	Mono PERC C-Si Module	NSM450-144 (450 Wp)	NSM480-156	20.50	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM485-156	20.72				
							NSM435-144	20.08				
				xiv	Mono PERC C-Si Module	NSM405-132 (405 Wp)	NSM440-144	20.32	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM445-144	20.78				
							NSM450-144	20.55				
				xv	Mono PERC C-Si Module	NSM370-120 (370 Wp)	NSM455-144	21.01	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM460-144	21.64				
							NSM465-144	21.47				
				xvi	Mono PERC C-Si Module	NSM290-96 (290 Wp)	NSM395-132	19.85	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM400-132	20.10				
							NSM405-132	20.35				
				xvii	Mono PERC C-Si Module	NSM330-108 (330 Wp)	NSM410-132	20.60	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM415-132	20.85				
							NSM360-120	19.84				
				xviii	Mono PERC C-Si Module	NSM370-120 (370 Wp)	NSM365-120	20.11	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM370-120	20.39				
							NSM375-120	20.66				
				xix	Mono PERC C-Si Module	NSM220-72 (220 Wp)	NSM320-108	19.52	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM325-108	19.82				
							NSM330-108	20.13				
				xx	Mono PERC C-Si Module	NSM290-96 (290 Wp)	NSM335-108	20.43	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM340-108	20.74				
							NSM285-96	19.47				
				xxi	Mono PERC C-Si Module	NSM220-72 (220 Wp)	NSM290-96	19.81	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM295-96	20.15				
							NSM300-96	20.49				
				xxii	Mono PERC C-Si Module	NSM395 (395 Wp)	NSM215-72	19.32	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027
							NSM220-72	19.77				
							NSM225-72	20.22				
				xxiii	Mono PERC C-Si Module	NSM395 (395 Wp)	NSM385	19.40	72 (Full Cells)	1500	10.03.2023	09.03.2027
							NSM390	19.65				
							NSM395	19.90				
6	Jakson Engineers Ltd.	Plot No-25, Ecotech-III, Udyog Kendra, Greater NOIDA-201306, Gautam Budha Nagar, Uttar Pradesh, India.	500	i	Mono C-Si PERC Modules	JH-440M, (440Wp)	NSM400	20.15	120 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
							JH-420M	19.26				
							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				
							JH-475M	19.87				

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				ii	Mono C-Si PERC Modules	JH-490M, (490Wp)	JH-480M	20.08	132 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
							JH-485M	20.29				
							JH-490M	20.50				
							JH-495M	20.71				
							JH-500M	20.92				
							JH-505M	21.13				
							JH-510M	21.34				
							JH-515M	19.85				
				iii	Mono C-Si PERC Modules	JH-535M, (535Wp)	JH-520M	20.04	144 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
							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-560M	19.96	156 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
							JH-565M	20.14				
							JH-570M	20.31				
							JH-575M	20.49				
							JH-580M	20.67				
							JH-585M	20.85				
							JH-590M	21.03				
							JH-595M	21.21				
				v	Mono C-Si PERC Modules	JP-H395M, (385Wp-405Wp)	JH-600M	21.38	72 (Full Cells)	1500	17.08.2023	16.08.2027
							JP-H385M	19.37				
							JP-H390M	19.62				
							JP-H395M	19.87				
							JP-H400M	20.12				
							JP-H405M	20.37				
				vi	Mono C-Si PERC Modules	JH-580M, (580Wp)	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				
7	Himalayan Solar Pvt. Ltd.	HSIIDC Industrial Estate, Alipur Barwala, Panchkula, Haryana	41	i	Multi C-Si Modules	HIMSOL-00243 (300 Wp)	HIMSOL-85242		72 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-85243					
							HIMSOL-72					
				ii	Multi C-Si Modules	HIMSOL-30243 (330 Wp)	HIMSOL-20243		72 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-25243					
							HIMSOL-30243					
				iii	Multi C-Si Modules	HIMSOL-60 (260 Wp)	HIMSOL-35243		60 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-50242					
							HIMSOL-60					
				iv	Multi C-Si Modules	HIMSOL-75242 (275 Wp)	HIMSOL-65242		60 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-70242					
				v	Multi C-Si Modules	HIMSOL-72/275 (275 Wp)	HIMSOL-75242		72 (Cut Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-72/275					
							HIMSOL-72/280					
				vi	Multi C-Si Modules	HIMSOL-72/290 (290 Wp)	HIMSOL-72/285		72 (Cut Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-72/290					
							HIMSOL-72/295					
				vii	Multi C-Si Modules	HIMSOL-72/260 (260 Wp)	HIMSOL-72/300		72 (Cut Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-72/250					
							HIMSOL-72/255					
							HIMSOL-72/260					
							HIMSOL-72/265					
							HIMSOL-72/270					

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S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				viii	Multi C-Si Modules	HIMSOL-24210 (210 Wp)	HIMSOL-24200		48 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-24210					
							HIMSOL-24220					
				ix	Multi C-Si Modules	HIMSOL-12155 (155 Wp)	HIMSOL-12150		36 (Full Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-12155					
							HIMSOL-12160					
				x	Multi C-Si Modules	HIMSOL-12120 (120 Wp)	HIMSOL-12115		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-12120					
							HIMSOL-12125					
				xi	Multi C-Si Modules	HIMSOL-12105 (105 Wp)	HIMSOL-12100		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							HIMSOL-12105					
							HIMSOL-12110					
				xii	Multi C-Si Modules	HIMSOL-1285 (85 Wp)	HIMSOL-1285		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xiii	Multi C-Si Modules	HIMSOL-1280 (80 Wp)	HIMSOL-1280		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xiv	Multi C-Si Modules	HIMSOL-1275 (75 Wp)	HIMSOL-1275		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xv	Multi C-Si Modules	HIMSOL-1265 (65 Wp)	HIMSOL-1265		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xvi	Multi C-Si Modules	HIMSOL-1260 (60 Wp)	HIMSOL-1260		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xvii	Multi C-Si Modules	HIMSOL-1255 (55 Wp)	HIMSOL-1255		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xviii	Multi C-Si Modules	HIMSOL-1250 (50 Wp)	HIMSOL-1250		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xix	Multi C-Si Modules	HIMSOL-1240 (40 Wp)	HIMSOL-1240		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xx	Multi C-Si Modules.	HIMSOL-40243 (340Wp)	HIMSOL-40243		72 (Full Cells)	1000	29.09.2021	28.09.2023
8	Sun N Sand Exim (India) Pvt. Ltd.	HSIIDC Industrial Estate, Bahadurgarh, Distt-Jhajjar, Haryana	40	i	Multi C-Si Modules	SNS72FP325Wp (325 Wp)	SNS72FP310Wp		72 (Full Cells)	1500	29.09.2021	28.09.2023
							SNS72FP315Wp					
							SNS72FP320Wp					
							SNS72FP325Wp					
							SNS72FP330Wp					
							SNS72FP335Wp					
							SNS72FP340Wp					
				ii	Multi C-Si Modules	SNS60FP260Wp (260 Wp)	SNS60FP250Wp		60 (Full Cells)	1500	29.09.2021	28.09.2023
							SNS60FP255Wp					
							SNS60FP260Wp					
							SNS60FP265Wp					
							SNS60FP270Wp					
				iii	Multi C-Si Modules	SNS36FP160Wp (160 Wp)	SNS36FP155Wp		36 (Full Cells)	600	29.09.2021	28.09.2023
							SNS36FP160Wp					
							SNS36FP165Wp					
				iv	Multi C-Si Modules	SNS36CP115Wp (115 Wp)	SNS36CP110Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
							SNS36CP115Wp					
							SNS36CP120Wp					
				v	Multi C-Si Modules	SNS36CP100Wp (100 Wp)	SNS36CP100Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
				vi	Multi C-Si Modules	SNS36CP080Wp (80 Wp)	SNS36CP080Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
				vii	Multi C-Si Modules	SNS36CP075Wp (75 Wp)	SNS36CP075Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
				viii	Multi C-Si Modules	SNS36CP060Wp (60 Wp)	SNS36CP060Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
				ix	Multi C-Si Modules	SNS36CP050Wp (50 Wp)	SNS36CP050Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
				x	Multi C-Si Modules	SNS36CP040Wp (40 Wp)	SNS36CP040Wp		36 (Cut Cells)	600	29.09.2021	28.09.2023
9	Insolation Energy Pvt. Ltd	Khasra No 766/2, Vill-Bagwara, Teh-Amer Jaipur, Rajasthan	98	i	Multi C-Si Modules	INA72P325 (325 Wp)	INA72P315		72 (Full Cells)	1500	29.09.2021	28.09.2023
							INA72P320					
							INA72P325					
							INA72P330					
				ii	Multi C-Si Modules	INA60P265 (265 Wp)	INA60P260		60 (Full Cells)	1000	29.09.2021	28.09.2023
							INA60P265					
							INA60P270					
							INA60P275					
				iii	Multi C-Si Modules	INA36P160 (160 Wp)	INA36P155		36 (Full Cells)	1000	29.09.2021	28.09.2023
							INA36P160					
							INA36P165					
							INA72MP360					
				iv	Mono PERC C-Si Modules	INA72MP365 (365 Wp)	INA72MP365		72 (Full Cells)	1500	29.09.2021	28.09.2023
							INA72MP370					
							INA72MP375					
							INA72MP375					
							LGV24VS330W					
							LFV24VS330W					

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				v	Multi C-Si Modules	INA72P335, (335 Wp)	INA72P335 LGV24VS335W LFV24VS335W		72 (Full Cells)	1500	29.09.2021	28.09.2023
							INA72P340 LGV24VS340W LFV24VS340W					
				vi	Mono PERC C-Si Modules	INA72MP385, (385 Wp)	INA72MP380 LGV24VS380WM LFV24VS380WM		72 (Full Cells)	1500	29.09.2021	28.09.2023
							INA72MP385 LGV24VS385WM LFV24VS385WM					
							INA72MP390 LGV24VS390WM LFV24VS390WM					
							INA72MP395 LGV24VS395WM LFV24VS395WM					
				vii	Multi C-Si Modules	INA66P305, (305 Wp)	INA66P300 LGV24VS300W6 LFV24VS300W6		66 (Full Cells)	1500	29.09.2021	28.09.2023
							INA66P305 LGV24VS305W6 LFV24VS305W6					
							INA66P310 LGV24VS310W6 LFV24VS310W6					
				viii	Multi C-Si Modules	INA48P210, (210 Wp)	INA48P200 LGV24VS200W LFV24VS200W		48 (Full Cells)	1500	29.09.2021	28.09.2023
							INA48P205 LGV24VS205W LFV24VS205W					
							INA48P210 LGV24VS210W LFV24VS210W					
							INA48P215 LGV24VS215W LFV24VS215W					
				ix	Multi C-Si Modules	INA36P37, (37 Wp)	INA36P37 LGV12VS37 LFV12VS37		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				x	Multi C-Si Modules	INA36P40, (40 Wp)	INA36P40 LGV12VS40W LFV12VS40W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xi	Multi C-Si Modules	INA36P45, (45 Wp)	INA36P45 LGV12VS45W LFV12VS45W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xii	Multi C-Si Modules	INA36P50, (50 Wp)	INA36P50 LGV12VS50W LFV12VS50W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xiii	Multi C-Si Modules	INA36P55, (55 Wp)	INA36P55 LGV12VS55W LFV12VS55W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xiv	Multi C-Si Modules	INA36P60, (60 Wp)	INA36P60 LGV12VS60W LFV12VS60W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xv	Multi C-Si Modules	INA36P75, (75 Wp)	INA36P75 LGV12VS75W LFV12VS75W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xvi	Multi C-Si Modules	INA36P80, (80 Wp)	INA36P80 LGV12VS80W		36 (Cut Cells)	1000	29.09.2021	28.09.2023

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				xvii	Multi C-Si Modules	INA36P85, (85 Wp)	LFV12VS80W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							INA36P85					
							LGV12VS85W					
							LFV12VS85W					
				xviii	Multi C-Si Modules	INA36P105, (105 Wp)	INA36P100		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							LGV12VS100W					
							LFV12VS100W					
							INA36P105					
							LGV12VS105W					
							LFV12VS105W					
							INA36P110					
							LGV12VS110W					
				xix	Multi C-Si Modules	INA36P120, (120 Wp)	LFV12VS110W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							INA36P115					
							LGV12VS115W					
							LFV12VS115W					
							INA36P120					
							LGV12VS120W					
							LFV12VS120W					
							INA36P125					
				xx	Multi C-Si Modules	INA36P130, (130 Wp)	LGV12VS125W		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							LFV12VS125W					
							INA36P130					
							LGV12VS130W					
							LFV12VS130W					
							INA36P135					
							LGV12VS135W					
							LFV12VS135W					
10	Pennar Industries Ltd.	Chandpur, Sadasivapet, Sangareddy, Telangana	75	i	Multi C-Si Modules	PIL-72P-325 (325Wp)	PIL-72P-315		72 (Full Cells)	1500	29.09.2021	28.09.2023
							PIL-72P-320					
							PIL-72P-325					
							PIL-72P-330					
				ii	Mono PERC C-Si Modules	PIL-72M-395 (395Wp)	PIL-72P-335		72 (Full Cells)	1500	29.09.2021	28.09.2023
							PIL-72M-380					
							PIL-72M-385					
							PIL-72M-390					
11	GreenBrilliance Renewable Energy LLP.	GIDC Estate, Waghodia, Vadodara, Gujarat	50	i	Multi C-Si Modules	GBPLC-36-040-12 (40Wp)	GBPLC-36-040-12		36 (Cut Cells)	600	29.09.2021	28.09.2023
				ii	Multi C-Si Modules	GBPLC-36-075-12 (75Wp)	GBPLC-36-075-12		36 (Cut Cells)	600	29.09.2021	28.09.2023
				iii	Multi C-Si Modules	GBPLC-36-100-12 (100Wp)	GBPLC-36-100-12		36 (Cut Cells)	600	29.09.2021	28.09.2023
				iv	Multi C-Si Modules	GBPLF-36-165-12 (165Wp)	GBPLC-36-160-12		36 (Full Cells)	600	29.09.2021	28.09.2023
				v	Multi C-Si Modules	GBPLF-72-340-24 (340Wp)	GBPLC-36-165-12					
							GBPLC-36-170-12					
							GBPLF-72-330-24					
							GBPLF-72-335-24					
							GBPLF-72-340-24		72 (Full Cells)	1000	29.09.2021	28.09.2023
							GBPLF-72-345-24					
							GBPLF-72-350-24					
							GBPLF-72-355-24					
				vi	Mono C-Si Modules	GBMOF-72-365-24 (340Wp)	GBMOF-72-360-24		72 (Full Cells)	1000	29.09.2021	28.09.2023
							GBMOF-72-365-24					
							GBMOF-72-370-24					
12	Sanelite Solar Pvt. Ltd.	Bhagyalaxmi Industrial Estate, Rakanpur Taluka, Kalol Dist, Gandhinagar, Gujarat.	20	i	Multi C-Si Modules.	SS-72P340F (340Wp)	SS-72P330F		72 (Full Cells)	1000	29.09.2021	28.09.2023
							SS-72P335F					
							SS-72P340F					
				ii	Multi C-Si Modules.	SS-72P315F (315Wp)	SS-72P300F		72 (Full Cells)	1000	29.09.2021	28.09.2023
							SS-72P305F					
							SS-72P310F					
							SS-72P315F					
							SS-72P320F					
							SS-72P325F					

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
13	Gautam Solar Pvt. Ltd.	Plot No-67-70, Sector-8A IIE, Sidcul Haridwar- 249403, Uttarakhand	228	iii	Multi C-Si Modules.	SS-60P285F (285Wp)	SS-60P275F		60 (Full Cells)	1000	29.09.2021	28.09.2023
							SS-60P280F					
							SS-60P285F					
							SS-60P290F					
							SS-60P295F					
				iv	Multi C-Si Modules.	SS-60P260F (260Wp)	SS-60P250F		60 (Full Cells)	1000	29.09.2021	28.09.2023
							SS-60P255F					
							SS-60P260F					
							SS-60P265F					
							SS-60P270F					
				v	Multi C-Si Modules.	SS-48P215F (215Wp)	SS-48P205F		48 (Full Cells)	1000	29.09.2021	28.09.2023
							SS-48P210F					
							SS-48P215F					
							SS-48P220F					
							SS-48P225F					
				vi	Multi C-Si Modules.	SS-36P100C (100Wp)	SS-36P100C		36 (Cut Cells)	600	29.09.2021	28.09.2023
				vii	Multi C-Si Modules.	SS-36P75C (75Wp)	SS-36P74C		36 (Cut Cells)	600	29.09.2021	28.09.2023
				viii	Multi C-Si Modules.	SS-36P40C (40Wp)	SS-36P75C		36 (Cut Cells)	600	29.09.2021	28.09.2023
				ix	Multi C-Si Modules.	SS-36P40C (40Wp)	SS-36P40C		36 (Cut Cells)	600	29.09.2021	28.09.2023
							SS-36P155F					
							SS-36P160F					
				i	Multi C-Si Modules	SSGS-72P300 (300Wp)	SS-36P165F		72 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-72P285					
							SSGS-72P290					
							SSGS-72P295					
							SSGS-72P300					
							SSGS-72P305					
							SSGS-72P310					
				ii	Multi C-Si Modules	SSGS-72P325 (325Wp)	SSGS-72P315		72 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-72P320					
							SSGS-72P325					
							SSGS-72P330					
							SSGS-72P335					
				iii	Multi C-Si Modules	SSGS-66P250 (250Wp)	SSGS-66P250		66 (Full Cells)	1000	29.09.2021	28.09.2023
				iv	Multi C-Si Modules	SSGS-66P270 (270Wp)	SSGS-66P260		66 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-66P270					
							SSGS-66P275					
							SSGS-66P280					
				v	Multi C-Si Modules	SSGS-66P295 (295Wp)	SSGS-66P285		66 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-66P290					
							SSGS-66P295					
							SSGS-66P300					
				vi	Multi C-Si Modules	SSGS-60P260 (260Wp)	SSGS-60P250		60 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-60P255					
							SSGS-60P260					
							SSGS-60P265					
				vii	Multi C-Si Modules	SSGS-60P275 (275Wp)	SSGS-60P270		60 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-60P275					
							SSGS-60P280					
							SSGS-60P285					
				viii	Multi C-Si Modules	SSGS-60P290 (290Wp)	SSGS-60P290		60 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-60P295					
							SSGS-60P300					
							SSGS-54P220					
				ix	Multi C-Si Modules	SSGS-54P230 (230Wp)	SSGS-54P225		54 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-54P230					
							SSGS-54P235					
							SSGS-54P240					
				x	Multi C-Si Modules	SSGS-48P195 (195Wp)	SSGS-48P190		48 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-48P195					
							SSGS-48P200					
							SSGS-48P205					

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 23.08.2023)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	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
				xi	Multi C-Si Modules	SSGS-48P215 (215Wp)	SSGS-48P210		48 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-48P215					
							SSGS-48P220					
				xii	Multi C-Si Modules	SSGS-42P185 (185Wp)	SSGS-42P180		42 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-42P185					
				xiii	Multi C-Si Modules	SSGS-42P195 (195Wp)	SSGS-42P190		42 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-42P195					
				xiv	Multi C-Si Modules	SSGS-36P155 (155Wp)	SSGS-36P150		36 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P155					
				xv	Multi C-Si Modules	SSGS-36P165 (165Wp)	SSGS-36P160		36 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P165					
				xvi	Multi C-Si Modules	SSGS-32P140 (140Wp)	SSGS-32P135		32 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-32P140					
				xvii	Multi C-Si Modules	SSGS-32P150 (150Wp)	SSGS-32P145		32 (Full Cells)	1000	29.09.2021	28.09.2023
							SSGS-32P150					
				xviii	Multi C-Si Modules	SSGS-36P25 (25Wp)	SSGS-36P24		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P25					
				xix	Multi C-Si Modules	SSGS-36P30 (30Wp)	SSGS-36P30		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xx	Multi C-Si Modules	SSGS-36P35 (35Wp)	SSGS-36P35		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxi	Multi C-Si Modules	SSGS-36P37 (37Wp)	SSGS-36P37		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxii	Multi C-Si Modules	SSGS-36P40 (40Wp)	SSGS-36P40		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxii	Multi C-Si Modules	SSGS-36P45 (45Wp)	SSGS-36P45		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxiv	Multi C-Si Modules	SSGS-36P50 (50Wp)	SSGS-36P50		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxv	Multi C-Si Modules	SSGS-36P55 (55Wp)	SSGS-36P55		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxvi	Multi C-Si Modules	SSGS-36P60 (60Wp)	SSGS-36P60		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxvii	Multi C-Si Modules	SSGS-36P65 (65Wp)	SSGS-36P65		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxviii	Multi C-Si Modules	SSGS-36P70 (70Wp)	SSGS-36P70		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxix	Multi C-Si Modules	SSGS-36P74 (74Wp)	SSGS-36P74		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P75					
				xxx	Multi C-Si Modules	SSGS-36P80 (80Wp)	SSGS-36P80		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxxi	Multi C-Si Modules	SSGS-36P85 (85Wp)	SSGS-36P85		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxxii	Multi C-Si Modules	SSGS-36P90 (90Wp)	SSGS-36P90		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxxiii	Multi C-Si Modules	SSGS-36P95 (95Wp)	SSGS-36P95		36 (Cut Cells)	1000	29.09.2021	28.09.2023
				xxxiv	Multi C-Si Modules	SSGS-36P105 (105Wp)	SSGS-36P100		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P105					
							SSGS-36P110					
				xxxv	Multi C-Si Modules	SSGS-36P120 (120Wp)	SSGS-36P115		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P120					
							SSGS-36P125					
				xxxvi	Multi C-Si Modules	SSGS-36P135 (135Wp)	SSGS-36P130		36 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-36P135					
							SSGS-36P140					
				xxxvii	Multi C-Si Modules	SSGS-60P210 (210Wp)	SSGS-60P200		60 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-60P205					
							SSGS-60P210					
							SSGS-60P215					
							SSGS-60P220					
				xxxviii	Multi C-Si Modules	SSGS-60P235 (235Wp)	SSGS-60P225		60 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-60P230					
							SSGS-60P235					
							SSGS-60P240					
							SSGS-60P245					
				xxxix	Multi C-Si Modules	SSGS-72P210 (210Wp)	SSGS-72P200		72 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-72P205					
							SSGS-72P210					
							SSGS-72P215					
							SSGS-72P220					
				xxxx	Multi C-Si Modules	SSGS-72P235 (235Wp)	SSGS-72P225		72 (Cut Cells)	1000	29.09.2021	28.09.2023
							SSGS-72P230					
							SSGS-72P235					
							SSGS-72P240					
							SSGS-72P245					