

F. No. 283/54/2018-GRID SOLAR-Part(1)
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: 10th April, 2024

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 22.03.2024.

5. The List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XXIII 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 10.04.2024)

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 E390M72 E395M72	19.20 19.45 19.70	72 (Full Cells)	1500	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Modules	E325M60 (325 Wp)	E320M60 E325M60 E330M60	19.04 19.34 19.64	60 (Full Cells)	1500	10.03.2023	09.03.2027
2	M/s Sova Solar Ltd.	Layout Plot No: 25, E.P.I.P, Banskopa, Durgapur 713212, West Bengal, India.	R-51000590	532	i	Mono C-Si PERC Modules	SS535144HCMP (535Wp)	SS520144HCMP SS525144HCMP SS530144HCMP SS535144HCMP SS540144HCMP SS545144HCMP SS550144HCMP SS555144HCMP	20.16 20.35 20.54 20.74 20.93 21.13 21.32 21.51	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Bifacial Modules	SS535144HCBP (535Wp)	SS520144HCBP SS525144HCBP SS530144HCBP SS535144HCBP SS540144HCBP SS545144HCBP SS550144HCBP	20.16 20.35 20.54 20.74 20.93 21.13 21.32	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
3	M/s Solex Energy Ltd	Plot No. 131/A Phase-1, G.I.D.C, Vitthal Udyog Nagar, Anand, Gujarat	R-72002577	21	i	Mono C-Si PERC Modules	SESM24375 (375 Wp)	SESM24370 SESM24375 SESM24380	19.04 19.30 19.55	72 (Full Cells)	1000	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Modules	SES20CM120W320 (320 Wp)	SES20CM120W320	19.21	120 (Half Cells)	1000	10.03.2023	09.03.2027
					iii	Mono C-Si PERC Modules	SES24CM144W380 (380 Wp)	SES24CM144W375 SES24CM144W380 SES24CM144W385	19.01 19.30 19.51	144 (Half Cells)	1000	10.03.2023	09.03.2027
4	Saatvik Green Energy Pvt. Ltd.	Village Dubli, Tehsil- Barara, Dist- Ambala -133101, Haryana	R-91003670	566	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 SGE 285-54M	19.15 19.49	54 (Full Cells)	1000	10.03.2023	09.03.2027
					iv	Mono C-Si PERC Modules	SGE 315-60M (315 Wp)	SGE 310-60M SGE 315-60M	19.08 19.41	60 (Full Cells)	1500	10.03.2023	09.03.2027
					v	Mono C-Si PERC Modules	SGE 375-72M (375 Wp)	SGE 370-72M SGE 375-72M SGE 380-72M	19.09 19.35 19.61	72 (Full Cells)	1500	10.03.2023	09.03.2027
					vi	Mono C-Si PERC Modules	SGE570-156MHC, (570 Wp)	SGE555-156MHC SGE560-156MHC SGE565-156MHC SGE570-156MHC SGE575-156MHC SGE580-156MHC SGE585-156MHC SGE590-156MHC	19.78 19.96 20.14 20.32 20.50 20.67 20.85 21.03	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					vii	Mono C-Si PERC Modules	SGE530-144MHC, (530 Wp)	SGE520-144MHC SGE525-144MHC SGE530-144MHC SGE535-144MHC SGE540-144MHC SGE545-144MHC SGE550-144MHC	20.13 20.32 20.52 20.70 20.90 21.10 21.29	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					viii	Mono C-Si PERC Modules	SGE485-132MHC, (485 Wp)	SGE470-132MHC SGE475-132MHC SGE480-132MHC SGE485-132MHC SGE490-132MHC SGE495-132MHC SGE500-132MHC SGE420-120MHC	19.78 20.01 20.23 20.41 20.63 20.84 21.05 19.37	132 (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)
					ix	Mono C-Si PERC Modules	SGE440-120MHC, (440 Wp)	SGE425-120MHC	19.60	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE430-120MHC	19.83				
								SGE435-120MHC	20.06				
								SGE440-120MHC	20.29				
								SGE445-120MHC	20.52				
								SGE450-120MHC	20.76				
					x	Mono C-Si PERC Modules	SGE395-108MHC, (395 Wp)	SGE455-120MHC	20.99	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE380-108MHC	19.44				
								SGE385-108MHC	19.69				
								SGE390-108MHC	19.95				
								SGE395-108MHC	20.20				
								SGE400-108MHC	20.46				
					xi	Mono C-Si PERC Modules	SGE 395-72M, (395 Wp)	SGE405-108MHC	20.71	72 (Full Cell)	1500	10.03.2023	09.03.2027
								SGE410-108MHC	20.98				
								SGE 385-72M	19.22				
								SGE 390-72M	19.47				
								SGE 395-72M	19.72				
								SGE 400-72M	19.97				
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	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				
					iv	Mono PERC C-Si Module	NSM580-156 (580 Wp)	NSM355-66	19.87	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
NSM570-156	20.39												
NSM575-156	20.57												
NSM580-156	20.74												
v	Mono PERC C-Si Module	NSM540-144 (540 Wp)	NSM585-156	20.92	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM525-144	20.32									
			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									
			NSM480-132	20.21									
vi	Mono PERC C-Si Module	NSM500-132 (500 Wp)	NSM485-132	20.42	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM490-132	20.64									
			NSM495-132	20.85									
			NSM500-132	21.06									
			NSM435-120	20.09									
vii	Mono PERC C-Si Module	NSM445-120 (445 Wp)	NSM440-120	20.33	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM445-120	20.56									
			NSM450-120	20.79									
			NSM455-120	21.02									
			NSM390-108	19.96									
viii	Mono PERC C-Si Module	NSM400-108 (400 Wp)	NSM395-108	20.21	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM400-108	20.47									
			NSM405-108	20.72									
			NSM410-108	20.98									
			NSM350-96	20.06									
ix	Mono PERC C-Si Module	NSM360-96 (360 Wp)	NSM355-96	20.35	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM360-96	20.64									
			NSM365-96	20.92									
			NSM260-72	19.62									
x	Mono PERC C-Si Module	NSM270-72 (270 Wp)	NSM265-72	20.00	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM270-72	20.38									
			NSM275-72	20.76									
			NSM460-156	19.65									
xi	Mono PERC C-Si Module	NSM470-156 (470 Wp)	NSM465-156	19.86	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM470-156	20.07									
			NSM475-156	20.29									

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												From	To (subject to valid BIS Registration; else deemed to be delisted)
								JP-H405M	20.37				
								JH-380M	19.28				
								JH-385M	19.53				
								JH-390M	19.79				
					vi	Mono C-Si PERC Modules	JH-400M, (400Wp)	JH-395M	20.04	108 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-400M	20.29				
								JH-405M	20.55				
								JH-410M	20.88				
								JH-415M	21.06				
								JH-380BB	19.48				
								JH-385BB	19.73				
					vii	Mono c-Si Bifacial PERC Module	JH-400BB	JH-390BB	19.99	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-395BB	20.25				
								JH-400BB	20.50				
								JH-405BB	20.76				
								JH-410BB	21.01				
								JH-415BB	21.27				
								JH-420BB	19.39				
								JH-425BB	19.62				
								JH-430BB	19.85				
					viii	Mono c-Si Bifacial PERC Module	JH-440BB	JH-435BB	20.08	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-440BB	20.31				
								JH-445BB	20.54				
								JH-450BB	20.77				
								JH-455BB	21.00				
								JH-460BB	21.23				
								JH-475BB	20.02				
								JH-480BB	20.23				
								JH-485BB	20.44				
								JH-490BB	20.65				
					ix	Mono c-Si Bifacial PERC Module	JH-490BB	JH-495BB	20.86	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-500BB	21.07				
								JH-505BB	21.29				
								JH-510BB	21.50				
								JH-515BB	21.71				
								JH-520BB	20.15				
								JH-525BB	20.34				
								JH-530BB	20.53				
								JH-535BB	20.73				
								JH-540BB	20.92				
								JH-545BB	21.11				
								JH-550BB	21.31				
								JH-555BB	21.50				
								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				
								JH-420BT	19.39				
								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				
								JH-475BT	20.02				
								JH-480BT	20.23				
								JH-485BT	20.44				
								JH-490BT	20.65				
								JH-495BT	20.86				
								JH-500BT	21.07				
								JH-505BT	21.29				
								JH-510BT	21.50				
								JH-515BT	21.71				
								JH-520BT	20.15				
								JH-525BT	20.34				
								JH-530BT	20.53				

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-535BT	20.73	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-540BT	20.92									
								JH-545BT	21.11									
								JH-550BT	21.31									
								JH-555BT	21.50									
								JH-380BW	19.48									
					xv	Mono c-Si Bifacial PERC Module	JH-400BW	JH-385BW	19.73	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-390BW	19.99									
								JH-395BW	20.25									
								JH-400BW	20.50									
								JH-405BW	20.76									
								JH-410BW	21.01									
					xvi	Mono c-Si Bifacial PERC Module	JH-440BW	JH-415BW	21.27	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-420BW	19.39									
								JH-425BW	19.62									
								JH-430BW	19.85									
								JH-435BW	20.08									
								JH-440BW	20.31									
					xvii	Mono c-Si Bifacial PERC Module	JH-490BW	JH-445BW	20.54	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-450BW	20.77									
								JH-455BW	21.00									
								JH-460BW	21.23									
								JH-475BW	20.02									
								JH-480BW	20.23									
xviii	Mono c-Si Bifacial PERC Module	JH-535BW	JH-485BW	20.44	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027										
			JH-490BW	20.65														
			JH-495BW	20.86														
			JH-500BW	21.07														
			JH-505BW	21.29														
			JH-510BW	21.50														
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					
								INA72MP395	19.80									
					ii	Mono c-Si PERC Module	INA72MP385	INA72MP390	19.55	72 (Full Cells)	1500	29.09.2023	28.09.2027					
								INA72MP385	19.30									
					8	Gautam Solar Pvt. Ltd.	Plot No-67-70, Sector-8A IIE, Sidcul Haridwar- 249403, Uttarakhand	R-83006041	319	i	Mono c-Si PERC Modules	G2XBifacial1767-HAE (590 Wp) (565Wp-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																	
iii	Mono c-Si PERC Modules	G2XBifacial1643-HAB (495 Wp) (485Wp-505Wp)	G2XBifacial1689-HAD	20.52	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027										
			G2XBifacial1695-HAD	20.71														
			G2XBifacial1702-HAD	20.90														
			G2XBifacial1708-HAD	21.10														
			G2XBifacial1715-HAD	21.29														
			G2XBifacial1656-HAB	21.13														
iv	Mono c-Si PERC Modules	G2XBifacial1585-HAA (450 Wp) (440Wp-460Wp)	G2XBifacial1650-HAB	20.92	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027										
			G2XBifacial1643-HAB	20.71														
			G2XBifacial1637-HAB	20.50														
			G2XBifacial1630-HAB	20.29														
			G2XBifacial1598-HAA	21.09														
			G2XBifacial1591-HAA	20.87														
													G2XBifacial1585-HAA	20.64				
													G2XBifacial1578-HAA	20.41				
													G2XBifacial1572-HAA	20.18				
													G2XBifacial1539-HAY	21.06				

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)
					v	Mono c-Si PERC Modules	G2XBifacial1526-HAY (405 Wp) (390Wp-415Wp)	G2XBifacial1533-HAY 20.80 G2XBifacial1526-HAY 20.55 G2XBifacial1520-HAY 20.30 G2XBifacial1507-HAY 19.79 G2XBifacial1474-HAX 20.71		108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					vi	Mono c-Si PERC Modules	G2XBifacial1468-HAX (360 Wp) (365Wp-350Wp)	G2XBifacial1468-HAX 20.43 G2XBifacial1461-HAX 20.14 G2XBifacial1455-HAX 19.86		96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					vii	Mono c-Si PERC Modules	G2X590-HAE (590 Wp)	G2X565-HAE 20.20 G2X570-HAE 20.38 G2X575-HAE 20.56 G2X580-HAE 20.74 G2X585-HAE 20.92 G2X590-HAE 21.10 G2X595-HAE 21.28		156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					viii	Mono c-Si PERC Modules	G2X530-HAD (530 Wp)	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 G2X550-HAD 21.29 G2X505-HAB 21.13		144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					ix	Mono c-Si PERC Modules	G2X495-HAB (495 Wp)	G2X500-HAB 20.92 G2X495-HAB 20.71 G2X490-HAB 20.50 G2X485-HAB 20.29 G2X460-HAA 21.09 G2X455-HAA 20.87		132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					x	Mono c-Si PERC Modules	G2X450-HAA (450 Wp)	G2X450-HAA 20.64 G2X445-HAA 20.41 G2X440-HAA 20.18 G2X415-HAY 21.06 G2X410-HAY 20.80		120 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xi	Mono c-Si PERC Modules	G2X405-HAY (405 Wp)	G2X405-HAY 20.55 G2X400-HAY 20.30 G2X390-HAY 19.79 G2X365-HAX 20.71		108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xii	Mono c-Si PERC Modules	G2X360-HAX (360 Wp)	G2X360-HAX 20.43 G2X355-HAX 20.14 G2X350-HAX 19.86		96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xiii	Mono c-Si PERC Modules	GS-420-AAA (420 Wp)	GS-410-AAA 19.03 GS-415-AAA 19.26 GS-420-AAA 19.49 GS-425-AAA 19.72 GS-430-AAA 19.95		78 (Full Cells)	1500	29.09.2023	28.09.2027
					xiv	Mono c-Si PERC Modules	GS-400-AAB (400 Wp)	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 GS-405-AAB 20.39 GS-410-AAB 20.64 GS-415-AAB 20.90 GS-420-AAB 21.15 GS-350-AAC 19.13		72 (Full Cells)	1500	29.09.2023	28.09.2027
					xv	Mono c-Si PERC Modules	GS-360-AAC (360 Wp)	GS-355-AAC 19.40 GS-360-AAC 19.67 GS-365-AAC 19.95 GS-320-AAD 19.16		66 (Full Cells)	1500	29.09.2023	28.09.2027
					xvi	Mono c-Si PERC Modules	GS-330-AAD (330 Wp)	GS-325-AAD 19.46 GS-330-AAD 19.76 GS-335-AAD 20.06 GS-290-AAE 19.21		60 (Full Cells)	1500	29.09.2023	28.09.2027
					xvii	Mono c-Si PERC Modules	GS-295-AAE (295 Wp)	GS-295-AAE 19.54		54 (Full Cells)	1500	29.09.2023	28.09.2027

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)
								GS-300-AAE	19.87				
					xviii	Mono c-Si PERC Modules	GS-260-AAF (260 Wp)	GS-260-AAF	19.26	48 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-265-AAF	19.63				
					xix	Mono c-Si PERC Modules	GS-230-AAG (230 Wp)	GS-230-AAG	19.33	42 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-195-AAH	19.26				
					xx	Mono c-Si PERC Modules	GS-200-AAH (200 Wp)	GS-200-AAH	19.75	36 (Full Cells)	1500	29.09.2023	28.09.2027
								GS-205-AAH	20.25				
								GS-210-AAH	20.74				
9	Novasys Greenergy Pvt. Ltd	Khasra No. 185, Mouza: Mahalgaon, Tehsil: Kamptee, Nagpur-441202, Maharashtra	R-71010499	261	i	Mono c-Si PERC Modules	NOVA195MP36 (195Wp)	NOVA195MP36	19.4	36 (Full Cell)	1500	24.02.2024	23.02.2028
					ii	Mono c-Si PERC Modules	NOVA250MP48 (250Wp)	NOVA255MP48	19.2	48 (Full Cell)	1500	24.02.2024	23.02.2028
								NOVA260MP48	19.6				
								NOVA315MP60	19.2				
					iii	Mono c-Si PERC Modules	NOVA320MP60 (320Wp)	NOVA320MP60	19.5	60 (Full Cell)	1500	24.02.2024	23.02.2028
								NOVA325MP60	19.8				
								NOVA330MP60	20.1				
								NOVA340MP66	19				
					iv	Mono c-Si PERC Modules	NOVA350MP66 (350Wp)	NOVA345MP66	19.3	66 (Full Cell)	1500	24.02.2024	23.02.2028
								NOVA350MP66	19.6				
								NOVA355MP66	19.9				
								NOVA360MP66	20.1				
					v	Mono c-Si PERC Modules	NOVA290MP54 (290Wp)	NOVA285MP54	19.2	54 (Full Cell)	1500	24.02.2024	23.02.2028
								NOVA290MP54	19.5				
								NOVA295MP54	19.9				
					vi	Mono c-Si PERC Modules	NOVA380MP72 (380Wp)	NOVA380MP72	19.14	72 (Full Cells)	1500	24.02.2024	23.02.2028
								NOVA385MP72	19.4				
								NOVA390MP72	19.65				
								NOVA395MP72	19.9				
					vii	Mono c-Si PERC Modules	NOVA380MP144 (380Wp)	NOVA380MP144	19	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA385MP144	19.3				
								NOVA390MP144	19.5				
								NOVA395MP144	19.8				
					viii	Mono c-Si PERC Modules	NOVA350MP96 (350 Wp)	NOVA335MP96	19.06	96 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA340MP96	19.35				
								NOVA345MP96	19.63				
								NOVA350MP96	19.92				
								NOVA355MP96	20.21				
								NOVA360MP96	20.5				
								NOVA365MP96	20.78				
					ix	Mono c-Si PERC Modules	NOVA265MP72 (265 Wp)	NOVA255MP72	19.06	72 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA260MP72	19.45				
								NOVA265MP72	19.81				
								NOVA270MP72	20.19				
								NOVA275MP72	20.57				
								NOVA375MP108	19.11				
					x	Mono c-Si PERC Modules	NOVA390MP108 (390 Wp)	NOVA380MP108	19.37	108 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA385MP108	19.63				
								NOVA390MP108	19.88				
								NOVA395MP108	20.14				
								NOVA400MP108	20.4				
								NOVA405MP108	20.66				
					xi	Mono c-Si PERC Modules	NOVA415MP108 (415 Wp)	NOVA410MP108	20.91	108 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA415MP108	21.17				
								NOVA415MP120	19.11				
								NOVA420MP120	19.34				
								NOVA425MP120	19.57				
								NOVA430MP120	19.8				
					xii	Mono c-Si PERC Modules	NOVA435MP120 (435 Wp)	NOVA435MP120	20.03	120 (Half Cut Cells)	1500	24.02.2024	23.02.2028
								NOVA440MP120	20.26				
								NOVA445MP120	20.49				
								NOVA450MP120	20.72				
								NOVA455MP120	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	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
					xiii	Mono c-Si PERC Modules	NOVA460MP 120 (460 Wp)	NOVA460MP 120	21.18	120 (Half Cut Cells)	1500	24.02.2024	23.02.2028
					xiv	Mono c-Si PERC Modules	NOVA475MP132 (475 Wp)	NOVA455MP132	19.2	132 (Half Cut Cells)	1500	24.02.2024	23.02.2028
				NOVA460MP132				19.41					
				NOVA465MP132				19.62					
				NOVA470MP132				19.83					
				NOVA475MP132				20.04					
				NOVA480MP132				20.25					
				NOVA485MP132				20.46					
				NOVA490MP132				20.67					
				NOVA495MP132	20.89								
				xv	Mono c-Si PERC Modules	NOVA500MP132 (500 Wp)	NOVA500MP132	21.1	132 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
				xvi	Mono c-Si PERC Modules	NOVA520MP144 (520 Wp)	NOVA505MP132	21.31	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
							NOVA495MP144	19.16					
							NOVA500MP144	19.35					
							NOVA505MP144	19.54					
							NOVA510MP144	19.74					
							NOVA515MP144	19.94					
							NOVA520MP144	20.13					
							NOVA525MP144	20.31					
							NOVA530MP144	20.51					
							NOVA535MP144	20.7					
				NOVA540MP144	20.89								
				NOVA545MP144	21.09								
				xvii	Mono c-Si PERC Modules	NOVA550MP144 (550Wp)	NOVA550MP144	21.28	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
10	M/s. Pahal Solar	189, Block No.-71, Olpad Sayan Road, Atodara, Olpad Surat-394540, Gujarat	R-72001848	306	i	Mono c-Si PERC Modules	PS_540 (540Wp)	PS_550	21.29	144 (Half Cut Cell)	1500	24.02.2024	23.02.2028
				PS_545				21.09					
				PS_540				20.9					
				PS_535				20.71					
				PS_530				20.51					
				PS_525	20.32								
				ii	Mono c-Si PERC Modules	PS_500 (500Wp)	PS_500	19.35	132 (Half Cut Cell)	1500	24.02.2024	23.02.2028	
							PS_495	19.16					
							PS_445	20.37					
				iii	Mono c-Si PERC Modules	PS_445 (445Wp)	PS_440	20.14	144 (Half Cut Cell)	1500	24.02.2024	23.02.2028	
							PS_435	19.91					
							PS_430	19.68					
				iv	Mono c-Si PERC Modules	PS_415 (415 Wp)	PS_415	19	132 (Half Cut Cell)	1500	24.02.2024	23.02.2028	
							PS_380	19.53					
				v	Mono c-Si PERC Modules	PS_370 (370 Wp)	PS_375	19.28	132 (Half Cut Cell)	1500	24.02.2024	23.02.2028	
							PS_370	19.02					
							PIX MP3 72 380	19.14					
				i	Mono c-Si PERC Modules	PIX MP3 72 390 (390 Wp)	PIX MP3 72 385	19.4	72 (Full Cells)	1500	24.02.2024	23.02.2028	
							PIX MP3 72 390	19.65					
							PIX MP3 72 395	19.9					
							PIX MP3 72 400	20.15					
							ALP380WM (380 Wp)	19.38					
12	Alpex Solar Pvt. Ltd.	Plot No. I-25 & I-26, UPSIDC, Site-5, Kasna, Greater Noida, Uttar Pradesh-201306	R-93007480	248	i	MONO C-Si PERC Modules.	ALP380WM, (380Wp-385Wp)	ALP385WM (385 Wp)	19.64	72 (Full Cells)	1500	24.01.2024	23.01.2028
				SOMERA VSMH.72.555.05				21.52					
				i	Mono c-Si PERC Modules	SOMERA VSMH.72.550.05 (550 Wp)	SOMERA VSMH.72.550.05	21.33	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
							SOMERA VSMH.72.545.05	21.13					
							SOMERA VSMH.72.540.05	20.94					
							SOMERA VSMH.60.460.05	21.28					
							SOMERA VSMH.60.455.05	21.05					
				ii	Mono c-Si PERC Modules	SOMERA VSMH.60.455.05 (455 Wp)	SOMERA VSMH.60.450.05	20.82	120 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
							SOMERA VSMH.60.445.05	20.59					
							PARADEA VSMHDH.72.550.05	21.33					
							PARADEA VSMHDH.72.545.05	21.13					
							PARADEA VSMHDH.72.540.05	20.94					
				iii	Bifacial Mono c-Si PERC Modules	PARADEA VSMHDH.72.545.05 (545 Wp)	PARADEA VSMHDH.72.535.05	20.75	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
							PREXOS VSMDHT.72.535.05	20.75					
							PREXOS VSMDHT.72.530.05	20.55					
				iv	Mono c-Si PERC Modules	PREXOS VSMDHT.72.535.05 (535 Wp)	PREXOS VSMDHT.72.535.05	20.75	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028	
							PREXOS VSMDHT.72.530.05	20.55					

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)							
					v	Bifacial Mono c-Si PERC Modules	PARADEA VSM DH.66.650.05 (650 Wp)	PARADEA VSM DH.66.660.05	21.25	132 (Half Cut Cells)	1500	24.02.2024	23.02.2028							
								PARADEA VSM DH.66.655.05	21.09											
								PARADEA VSM DH.66.650.05	20.92											
								PARADEA VSM DH.66.645.05	20.76											
								PARADEA VSM DH.66.640.05	20.60											
					vi	Bifacial Mono c-Si PERC Modules	PARADEA VSM DH.60.590.05 (590 Wp)	PARADEA VSM DH.60.600.05	21.20	120(Half Cut Cells)	1500	24.02.2024	23.02.2028							
								PARADEA VSM DH.60.595.05	21.02											
								PARADEA VSM DH.60.590.05	20.85											
								PARADEA VSM DH.60.585.05	20.67											
								PARADEA VSM DH.60.580.05	20.50											
					vii	Mono c-Si PERC Modules	SOMERA VSM H.66.655.05 (655 Wp)	SOMERA VSM H.66.670.05	21.57	132 (Half Cut Cells)	1500	24.02.2024	23.02.2028							
								SOMERA VSM H.66.665.05	21.41											
								SOMERA VSM H.66.660.05	21.25											
								SOMERA VSM H.66.655.05	21.09											
								SOMERA VSM H.66.650.05	20.92											
					viii	Mono c-Si PERC Modules	SOMERA VSM H.60.600.05 (600 Wp)	SOMERA VSM H.60.610.05	21.55	120 (Half Cut Cells)	1500	24.02.2024	23.02.2028							
								SOMERA VSM H.60.605.05	21.38											
								SOMERA VSM H.60.600.05	21.20											
								SOMERA VSM H.60.595.05	21.02											
								SOMERA VSM H.60.590.05	20.85											
ix	Mono c-Si PERC Modules	SOMERA VSM H.72.450.05 (450 Wp)	SOMERA VSM H.60.585.05	20.67	144 (Half Cut Cells)	1500	24.02.2024	23.02.2028												
			SOMERA VSM H.60.580.05	20.49																
			SOMERA VSM H.72.455.05	20.46																
			SOMERA VSM H.72.450.05	20.23																
			SOMERA VSM H.72.445.05	20.01																
14	M/s. Contendre Greenergy Pvt. Ltd.	Unit No: I/6, Rajlaxmi HiTech Industrial Park, Sonale Village, Bhiwandi-421302, Maharashtra	R-71013196	49	i	Mono c-Si PERC Modules	CG MB72-405 (405 Wp)	CG MB72-395	19.17	72 (Full Cells)	1500	10.04.2024	09.04.2028							
								CG MB72-400	19.41											
								CG MB72-405	19.66											
								CG MB72-410	19.90											
								CG MB72-415	20.14											
								CG-X144-500	19.04											
								CG-X144-505	19.24											
		Co-ALMM with M/s. Credence Solar Panels Private Limited	R-72008656	30 (As per Co-Branding Agreement)	ii	Mono c-Si PERC Module	CG-X144-525 (525 Wp)	CG-X144-510	19.43	144 (Half Cut Cells)	1500	10.04.2024	24.01.2025							
								CG-X144-515	19.62											
								CG-X144-520	19.81											
								CG-X144-525	20.00											
								CG-X144-530	20.19											
								CG-X144-535	20.38											
								CG-X144-540	20.57											
Co-ALMM with M/s Navitas Green Solutions Pvt. Ltd.	R-72008389	100 (As per Co-Branding Agreement)	iv	Mono c-Si PERC Module	ECE072M220 (220 Wp)	ECE072M215	19.32	72 (Half Cut Cells)	1500	10.04.2024	28.05.2025									
						ECE072M220	19.77													
						ECE072M225	20.22													
						ECE072M260	19.62													
						ECE072M265	20.00													
						ECE072M270	20.38													
						ECE072M275	20.76													
v	Mono c-Si PERC Module	ECE072M270 (270 Wp)	ECE096M285	19.42	72 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE096M290	19.81																
			ECE096M295	20.15																
			ECE096M300	20.49																
			ECE096M350	20.06																
vi	Mono c-Si PERC Module	ECE096M295 (295 Wp)	ECE096M355	20.35	96 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE096M360	20.64																
			ECE096M365	20.92																
vii	Mono c-Si PERC Module	ECE096M360 (360 Wp)	ECE108M320	19.52	96 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE108M325	19.82																
			ECE108M330	20.13																
viii	Mono c-Si PERC Module	ECE108M330 (330 Wp)	ECE108M335	20.43	108 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
15	M/s. ECE (India) Energies Pvt. Ltd.	F-27, Express Highway, MIDC, Amravati-444607, Maharashtra, India.	R-71012220	40	i	Mono c-Si PERC Module	ECE060M310 (310Wp)	ECE060M310	19.19	60 (Full Cells)	1500	10.04.2024	09.04.2028							
								ii	Mono c-Si PERC Module					ECE060M340 (340Wp)	ECE060M340	19.23	66 (Full Cells)	1500	10.04.2024	09.04.2028
								iii	Mono c-Si PERC Module					ECE060M370 (370Wp)	ECE060M370	19.17				
		Co-ALMM with M/s Navitas Green Solutions Pvt. Ltd.	R-72008389	100 (As per Co-Branding Agreement)	iv	Mono c-Si PERC Module	ECE072M270 (270 Wp)	ECE072M215	19.32	72 (Half Cut Cells)	1500	10.04.2024	28.05.2025							
								ECE072M220	19.77											
								ECE072M225	20.22											
								ECE072M260	19.62											
								ECE072M265	20.00											
v	Mono c-Si PERC Module	ECE072M270 (270 Wp)	ECE072M270	20.38	72 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE072M275	20.76																
			ECE096M285	19.42																
vi	Mono c-Si PERC Module	ECE096M295 (295 Wp)	ECE096M290	19.81	96 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE096M295	20.15																
			ECE096M300	20.49																
vii	Mono c-Si PERC Module	ECE096M360 (360 Wp)	ECE096M350	20.06	96 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE096M355	20.35																
			ECE096M360	20.64																
viii	Mono c-Si PERC Module	ECE108M330 (330 Wp)	ECE096M365	20.92	108 (Half Cut Cells)	1500	10.04.2024	28.05.2025												
			ECE108M320	19.52																
			ECE108M325	19.82																