

## SUMMARY OF TEST REPORTS NO 4788938966.1.1-BIS-S1 DATED(mm/dd/yyyy): 12/31/2019

ULR No: TC616819100001190F

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TEST FORMAT AS PER IS 14286 : 2010 (First Revision)

1. Name of manufacturer:	Navitas Green Solutions Pvt Ltd
2. Product:	Crystalline Silicon Photovoltaic (PV) Modules
3. Models:	<p><b>Representative Model:</b> NSM380</p> <p><b>Series Models:</b> For Mono-PERC solar Module Series NSMxxx, xxx stands for power range from 375 to 320, in step of 5W (72 cell Family) NSMxxx-60, xxx stands for power range from 330 to 250, in step of 5W (60 cell Family) NSMxxx-54, xxx stands for power range from 295 to 215, in step of 5W (54 cell Family) NSMxxx-48, xxx stands for power range from 265 to 180, in step of 5W (48 cell Family) NSMxxx-36, xxx stands for power range from 185 to 150, in step of 5W (36 cell Family) NSMxxx-66, xxx stands for power range from 355 to 295, in step of 5W (66 cell Family)</p> <p>For Poly Crystalline solar Module Series NSAxxx, xxx stands for power range from 345 to 295, in step of 5W, &amp; NSA200 (72 cell Family) NSAxxx-60, xxx stands for power range from 300 to 250, in step of 5W, NSA240-60 &amp; NSA230-60 (60 cell Family) NSAxxx-54, xxx stands for power range from 270 to 230, in step of 5W (54 cell Family) NSAxxx-48, xxx stands for power range from 240 to 200, in step of 5W (48 cell Family) NSAxxx-36F, xxx stands for power range from 175 to 150, in step of 5W &amp; NSA140-36F (36 (Full) cell Family) NSA170-36, NSA165-36, NSA160-36, NSA155-36, NSA150-36, NSA140-36, NSA130-36, NSA125-36, NSA120-36, NSA110-36, NSA100-36, NSA90-36, NSA80-36, NSA75-36, NSA74-36, NSA70-36, NSA60-36, NSA50-36, NSA40-36, NSA37-36 (36 (Cut) cell Family) NSA235-96, NSA230-96, NSA225-96, NSA220-96,</p>



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	NSA210-96, NSA210-96, NSA200-96 (96 cell Family) NSAxxx-120, xxx stands for power range from 300 to 250, in step of 5W (120 cell Family) NSAxxx-144, xxx stands for power range from 340 to 300, in step of 5W (144 cell Family) NSAxxx-66, xxx stands for power range from 325 to 275, in step of 5W (66 cell Family)
<b>4. Model differences provided</b>	YES
<b>5. Model differences verified as per MNRE Guidelines for series formulation</b>	YES

**6. Test Results:**

SL	TEST REQUIREMENTS	CLAUSE	VERDICT
1	Marking	4	P
2	Visual Inspection	10.1	P
3	Maximum Power Determination	10.2	P
4	Insulation Test	10.3	P
5	Measurement of Temperature Coefficients.	10.4	P
6	Measurement of NOCT	10.5	P
7	Performance at STC and NOCT	10.6	P
8	Performance at low irradiance.	10.7	P
9	Outdoor exposure test	10.8	P
10	Hot-spot endurance test	10.9	P
11	UV preconditioning	10.10	P
12	Thermal cycling test	10.11	P
13	Humidity freeze test	10.12	P
14	Damp heat test	10.13	P
15	Robustness of termination test	10.14	P
16	Wet leakage current test	10.15	P
17	Mechanical load test	10.16	P
18	Hail test	10.17	P
19	Bypass diode thermal test	10.18	P



**SUMMARY OF TEST REPORTS NO 4788938966.1.1-BIS-S1 DATED(mm/dd/yyyy): 12/31/2019****ULR No: TC616819100001190F****General Information:**

1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC/UL standards (where IS standards are not available) are also provided in the list of critical component.

**CONCLUSION:**

- 1) Sample meets all relevant requirements of IS 14286 : 2010 (First Revision):
- 2) ~~Sample fails to meet the following test requirements:~~

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements of IS 14286: 2010(First Revision)/~~does not meet the requirements stated above at 2) of conclusion.~~ If any deviation is found, suitable punitive action may be taken by BIS.

**Date (mm/dd/yyyy): 12/31/2019****(Signature of Authorized person with stamp)**