

DOC No. : MCIND/2023/LB/050.V1 Plot 5 and 6, Swastik Industrial Estate, Vill: Sari, Tal:
Telephone : +91 9871742221 Sanand, Ahmedabad, Ahmadabad, Gujarat, India -
FAX : 41204299 382220
E-Mail : puneet.kumar@mitsuicchemicals.com
BO Code : NA

**Test REPORT AS PER : IS/IEC 61730 : PART 1
(2004)****QR Code/Barcode : 129189CRS****REPORT NO : SC22EPI13880_1**

DATE : 02 Aug, 2023

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address : NOVASYSGREENERGY PRIVATE LIMITED
KHASRA NO. 185, MOUZA: MAHALGAON, TAHSIL:
KAMPTEE, NAGPUR-441202, MAHARASHTRA,
INDIA, NA, MAHARASHTRA, India - 441202

b) Nature of sample : -

c) Grade/Variety/Type/Class Size etc : NA

d) Declare values, if any : -

e) Batch No. & Date of Manufacture : /

f) Quantity : 8

g) Date of Receipt : 01 Dec, 2022

h) BIS Seal : Verified by Sample Cell

i) IO's Signature : Verified by Sample Cell

j) Any other Information / Expiry Date, If any : /

k) Date of Commencement of Testing : 02 Aug, 2023

l) Date of Completion of Testing : 02 Aug, 2023

m) Section Code : 22E4798N

n) Section Report No. : 22E4798N_1

o) Report Type : New

p) Reference Report No. :

q) Remarks : Proceed for further process.

Vinay Singh
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 02 Aug, 2023 19:08 PM

1. Mitsui Chemicals India Pvt. Ltd.

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PART B. SUPPLEMENTARY INFORMATION

- | | |
|--|----------------|
| 1. Reference to sampling procedure, wherever applicable. | Not Applicable |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any. | Not Applicable |
| 3. NABL Report required ? | Yes |

Vinay Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 02 Aug, 2023 19:06 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	11	Marking	-	-	-	-	Provided in inside laminate in front side of the module and on backside marking plate. The Date of manufacturing is traceable through serial number provided in inside laminate marking plate.
2	10	Field wiring compartments with covers	mm, Cu. cm.	-	-	-	Certified Junction box used. See Annex 1 for constructional details.
3	9	Creepage and clearance distances	mm	-	-	-	Minimum measured clearance: 13mm, measured on sample no: MCIND/2022/0516 with SI. No. NOVABTMPVJ01656) [min. required distance is 11mm]
4	8	Bonding and grounding	Ω	-	-	-	Grounding provision has been provided on the frame and is explained in the user manual.
5	7	Connections	mm, °C. or certificate verification	-	-	-	Connectors are certified as per IEC. 62852:2014 Refer to the attached test report, See Annex 1 for construction details.
6	6	Internal wiring and current-carrying parts	mm sq., mm. or certificate verification	-	-	-	Cell connector: Manufactured by: Valeo Products LLP, dimension= 0.35mm, Composition of alloy: SnPb-60/40 Note: Please Refer old report no. 4790378653.1.1-BIS-S2. Alternate: Please Refer old report no. 4790378653.1.1-BIS-S2. String connector: Manufactured by: Valeo Products LLP, dimension= 5x0.40 mm, Composition of alloy: SnPb-60/40 Note: Please Refer old report no. 4790378653.1.1-BIS-S2. Alternate: Please Refer old report no. 4790378653.1.1-BIS-S2.

7	5	Polymeric materials °C, mm. or certificate verification	-	-	-	-	All materials are at least 20°C above maximum measured temperature. Tested as per temperature test clause MST-21 in IS/IEC 61730-2 refer report No. MCIND/2023/LB/051.V1
8	4	Construction requirements	-	-	-	-	Sample is tested as per environmental stress testing procedure and under relevant conditions mentioned in IS14286:2010 and IS/IEC 61730-2:2004. Module is with frame and completely assembled.
9	3	Application classes	-	-	-	-	Application Class: Class A

Vinay Singh
OIC Electrical
 (Authorized Signatory)
 Authorized on: 02 Aug, 2023 19:06 PM

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PART D. REMARKS

Proceed for further process.

Vinay Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 02 Aug, 2023 19:06 PM

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Test Report issued under the responsibility of:



SUMMARY OF TEST REPORT

Solar PV Laboratory

TEST REPORT NO: MCIND/2023/LB/050.V1
ULR: TC890623000000050F
DATED (dd/mm/yyyy): 02/08/2023

(Number of pages in test report: 4 to 85)

TEST FORMAT AS PER IS/IEC 61730-1:2004 (First Edition) +A1:2017 + A2:2017

1. Name of manufacturer:	Novasys Greenergy Private Limited
2. Product:	Crystalline Silicon Terrestrial Photovoltaic Modules (Si wafer based)
3. Test Request Number:	SC22EPI13880
4. Model:	<p>Mono Crystalline (PERC): NOVA550MP144 (Representative Model) <u>Series Models:</u> 144 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA545MP144, NOVA540MP144, NOVA535MP144, NOVA530MP144, NOVA525MP144, NOVA520MP144, NOVA515MP144, NOVA510MP144, NOVA505MP144, NOVA500MP144, NOVA495MP144</p> <p>132 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA505MP132, NOVA500MP132, NOVA495MP132, NOVA490MP132, NOVA485MP132, NOVA480MP132, NOVA475MP132, NOVA470MP132, NOVA465MP132, NOVA460MP132, NOVA455MP132</p> <p>120 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA460MP120, NOVA455MP120, NOVA450MP120, NOVA445MP120, NOVA440MP120, NOVA435MP120, NOVA430MP120, NOVA425MP120, NOVA420MP120, NOVA415MP120</p>



ULR No.: TC890623000000050F

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		108 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA415MP108, NOVA410MP108, NOVA405MP108, NOVA400MP108, NOVA395MP108, NOVA390MP108, NOVA385MP108, NOVA380MP108, NOVA375MP108 96 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA365MP96, NOVA360MP96, NOVA355MP96, NOVA350MP96, NOVA345MP96, NOVA340MP96, NOVA335MP96, NOVA330MP96, NOVA325MP96 72 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA275MP72, NOVA270MP72, NOVA265MP72, NOVA260MP72, NOVA255MP72, NOVA250MP72, NOVA245MP72	
5. Model differences provided (if applicable): Yes/No		YES	
6. Model differences verified as per MNRE Guidelines for series formulation: Yes/No		YES	
7. Test Results:			
SL.NO.	TEST REQUIREMENTS	CLAUSE	VERDICT
1	Application Classes	3	P
2	Construction Requirements	4	P
3	Polymeric Materials	5	P
4	Internal wiring and current carrying parts	6	P
5	Connections	7	P
6	Bonding and Grounding	8	P
7	Creepage and clearance distances	9	P
8	Field wiring Compartments with covers	10	P
9	Marking	11	P
10	Requirements for supplied documents	12	P



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General Information:

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

CONCLUSION:

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results.

1. Sample meets all relevant requirements of IS/IEC 61730-1: 2004 (First Edition) + A1:2017: + A2:2017.
- ~~2. Sample fails to meet the following test requirements:~~
3. "If any deviation is found, suitable punitive action may be taken by BIS".



Date(dd/mm/yyyy): 02/08/2023

(Signature of Authorized person with stamp)