




# Pratap Technocrats Private Limited

PURCHASE ORDER

CIN : U74900RJ2015PTC048699

<b>Invoice To</b> <b>PRATAP TECHNOCRATS PRIVATE LIMITED</b> 10TH FLOOR, 1008, Tower-A1 SPAZE I-Tech Park, SECTOR 49, GURGAON, Gurgaon, Haryana-122018 GSTIN/UIN: 06AAICP3621R1ZZ State Name : Haryana, Code : 06 E-Mail : geeta.dangi@nexgeninfra.tech		<b>Voucher No.</b> PO#PTPL/NexGen/22-23/001		<b>Dated</b> 31-Dec-22		
				<b>Mode/Terms of Payment</b>		
		<b>Supplier's Ref./Order No.</b> PO#PTPL/NexGen/22-23/001		<b>Other Reference(s)</b>		
<b>Dispatch To</b> <b>PRATAP TECHNOCRATS PRIVATE LIMITED</b>  GSTIN/UIN: State Name : MP, Code : E-Mail : geeta.dangi@nexgeninfra.tech		<b>Dispatch through : Road</b>		<b>Destination: As mentioned in Annexure.</b>		
<b>Supplier</b> <b>Insolation Green Energy Pvt. Ltd.</b> Head office : G-25, City Center, S.C. Road, Jaipur-302001, Rajasthan (India) Factory: Khasra No. 11/1, 1136/9, 1140/10, Village – Jatawali, Tehsil – Chomu, Dist. Jaipur 303806 (Raj.) GSTIN/UIN: 08AAGCI2799R1ZJ Pan No. AAGCI2799R IEC No. AAGCI2799R State Name : Rajasthan, Code : 08 E-Mail : info@insolationenergy.in		<b>Terms of Delivery: As mentioned in Annexure.</b>				
<b>SI No.</b>	<b>Description of Goods</b>	<b>Make</b>	<b>Quantity</b>	<b>UoM</b>	<b>Rate/ Unit</b>	<b>Amount</b>
1	INA Make Mono Perc Solar Module 540 Wp, Non DCR, BIS Approved  GST@12% TCS@0.1%	INA	11000	KW	24,000	26,40,00,000  3,16,80,000 2,64,000
<b>Total</b>						29,59,44,000
<b>Value in words:- Rupees Twenty Nine Crore Fifty Nine Lac Fouty Four Thousand Only</b>						
<b>Other Commercial Terms:-</b> <b>1. Annexure-A Attached</b>  Company's PAN : AADCL5567D  <div style="text-align: right;"> for PRATAP TECHNOCRATS PRIVATE LIMITED Authorized Signatory</div>						
This is computer generated document therefore not require signature						



## Terms & Conditions: -

1. Delivery- Delivery schedule based on mutual agreement as mentioned below:

Delivery Plan Confirmation	
Ready for Dispatch Promise Date	Qty Promised
25-Jan-23	2 MW
10-Feb-23	3 MW
26-Feb-23	3 MW
18-Mar-23	3 MW

2. Inco Terms- Ex-works Jaipur.
3. Payment Terms- 25% Adv. With 7 days after PO, 65% after PDI and Remaining 10% along with 100% taxes on final product delivery at our site/warehouse.
4. **Warranty-** 10 Years & 25 years for linear performance from the date of invoice or 30 years from the date of commissioning whichever is earlier.
5. LD- Penalty of 1% every week & Max 5% & termination of PO.
6. Insurance: Included.
7. Loading: Included.
8. Unloading: Excluded.
9. Delivery Plan:

States	Site	Qty (KW)	Delivery
Jharkhand	816	4,100	Delivery at Multiple locations But Minimum One Location for One Truck Load
Chattisgarh	371	1,850	
Odisha	261	1,300	
Bihar	250	1,240	
Telangana	173	900	
West Bengal	96	475	
UP (E)	78	400	
Maharashtra	65	320	
Andhra Pradesh	62	310	
Madhya Pradesh	22	110	
<b>Total</b>	<b>2194</b>	<b>11,005</b>	



Technical Data Sheet- Solar Panel					
Name of Partner/ Supplier					
S No	Group	Parameters	Specification Required	Confirmation	Additional Remark (if deviation)
1	General	Cell Type	MONO PERC HALF CUT/Full	Compliance	
2	General	Capacity (Wp)	540	Compliance	
3	General	No. of Cells in series	72-75/ 144-150	Compliance	72 Cells in series1 ll 72 Cells in series2
4	General	Voltage	24V	Compliance	
5	General	Size of individual cell	180-185 MM(Full Cell)	Compliance	182x182 mm Full cells size (convert in 91x182 mm cut )
6	General	Quality of Cell	Class A	Compliance	
i	Electrical	Pmax (W)	540	Compliance	540
ii	Electrical	Vpm (V)	>38.64	Compliance	41.81V±5%
iii	Electrical	Ipmp (A)	13.32	Compliance	12.95A±5%
iv	Electrical	Voc (V)	49.63	Compliance	49.61±5%
v	Electrical	Isc (A)	13.84	Compliance	13.83±5%
vi	Electrical	FF ( Fill Factor)	>75%	Compliance	
vii	Electrical	Module Eff. (%)	>21.5	Compliance	>20.90 for 540W
viii	Electrical	Electrical Tolerance (+%)	0-4.99	Compliance	
ix	Electrical	Fuse Rating	>=25A	Compliance	
x	Electrical	Maximum System Voltage (V)	1500	Compliance	
xi	Electrical	Derating power Factor	0.5% Per Year	Compliance	
xii	Electrical	Voltage De rating	-0.5% Per Degree above 25 Degree	Compliance	
xiii	Electrical	Conversion Efficiency	>13%	Compliance	
i	Module	Width - W (mm)	1134	Compliance	
ii	Module	Length - L (mm)	2278	Compliance	
iii	Module	Thickness - T (mm)	35	Compliance	
8	Module	Module Weight (kg)	29	Compliance	
9	Module	No. of Mounting Hole	8	Compliance	
10	Module	Mounting Hole Dimension	14*9	Compliance	
11	Module	Mounting Hole (X-Axis) (X)	1087	Compliance	
12	Module	First Mounting Hole (Y-Axis) Distance between Holes) (Y1)	1200	Compliance	
13	Module	Second Mounting Hole (Y-Axis) Distance between Holes) (Y2)	1600	Compliance	
14	Module	Negative Grounding Hole (G)	1139	Compliance	
15	Module	Maximum power point/ Irradiance at 25 Degree	1000W/Mtr Square	Compliance	
16	Module	Operational Temp	-40 to +85 degree	Compliance	
17	Module	Nominal Operating Temp	45+2 Degree	Compliance	
18	Module	Mechanical Load Test(Snow Load/Wind Load)	5400Pa/2400 Pa	Compliance	
19	Module	Front Glass	ARC Coted Tempered Glass, >3 MM ,Anti reflective module	Compliance	3.2 mm
20	Module	Encapsulation	Ultra Clear PID Free EVA	Compliance	
21	Module	Back Side	UV Protected reflective Back sheet	Compliance	
22	Module	Solar Cable Length	1.5 Mtr	Partial Compliance	400 mm cable x 2 Nos

Cells Legends
Mandatory Data to be Filled by Partner
Optional Data Field

End      End      End      End      End      End

Note-	Test sheet certification required	
	Test	Test Condition
1	Dry Heat	+85℃ C 16 hours
2	Clod	-40℃ C 16 hours
3	Rapid Change of Temperature	-40℃ C to 80℃ C 10 cycles
4	Composite	25℃ C to -10℃ C
5	Temperature Humidity Cyclic Test	25℃ C to 65℃ C 95% RH 10 cycles



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,  
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402


ई-मेल/E-mail: registration@bis.gov.in

वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2022-5043/R-84003549

Date:22-11-2022

**Subject : Licence Document**

Manufacturing Unit :	INSOLATION GREEN ENERGY PVT. LTD. KHASRA NOS 11/1,1136/9, CHOMU, JATAVALI, JAIPUR, JAIPUR, RAJASTHAN, 302001 RAJASTHAN,India-302001 operations@insolationenergy.in 09116122132	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name:	Crystalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
IS NO :	IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004
Brand (As Declared by Manufacturer) :	INA
Model :	[Brand -> INA, Models -> INA-108MHC-TF-390, INA-108MHC-TF-395, INA-108MHC-TF-400, INA-108MHC-TF-405, INA-108MHC-WF-390, INA-108MHC-WF-395, INA-108MHC-WF-400, INA-108MHC-WF-405, INA-120MHC-TF-435, INA-120MHC-TF-440, INA-120MHC-TF-445, INA-120MHC-TF-450, INA-120MHC-WF-435, INA-120MHC-WF-440, INA-120MHC-WF-445, INA-120MHC-WF-450, INA-132MHC-TF-480, INA-132MHC-TF-485, INA-132MHC-TF-490, INA-132MHC-TF-495, INA-132MHC-TF-500, INA-132MHC-WF-480, INA-132MHC-WF-485, INA-132MHC-WF-490, INA-132MHC-WF-495, INA-132MHC-WF-500, INA-144MHC-TF-520, INA-144MHC-TF-525, INA-144MHC-TF-530, INA-144MHC-TF-535, INA-144MHC-TF-540, INA-144MHC-TF-545, INA-144MHC-WF-520, INA-144MHC-WF-525, INA-144MHC-WF-530, INA-144MHC-WF-535, INA-144MHC-WF-540, INA-144MHC-WF-545]
Factory Address :	KHASRA NOS 11/1,1136/9, CHOMU, JATAVALI, JAIPUR, JAIPUR, RAJASTHAN, 302001 RAJASTHAN,India-302001

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-84003549** which has been made operative from **22-11-2022** and is valid upto **21-11-2024** . The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,  
(Sonali Gupta)  
Scientist-B  
Telfax : +91-11-23230856  
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.  
To verify authentication of letter, kindly scan the QR code on this letter.



## **Annex - 1**

The guidelines for use of Standard Mark for Scheme-C are per 3(1) of BIS (Conformity Assessment) Regulations,2017 are given below:

- i) The monogram of the 'Standard Mark' consists of the pictorial representation, drawn in the exact style as indicated in the figure in the figure in Annexure I. Its photographic reductin and enlargement is permitted.
- ii)The 'Standard Mark' can be displayed in single colour or multi-colour as per the details given below. The colour scheme for the Standard Mark to be used in multi colour shall be use as indicated below.
- iii) The licensee shall diplay the 'Standard Mark' on the article and/or the packaging, as the case may be, in a manner so as to be easily visible. It shall be legible, indelible and non-remobable. Further, the durability of marking shall be as per the provisions of the relevant Indian Standard, wherever applicable. The diplay of IS number, Registration number and words shall not be less than Arial forn size 6.
- iv) Any device with a integrated display sceen may present the Standard Mark electronically (e-labelling) in lieu of a physical presentation on the product.

Technical drawing of a rectangular sign with rounded corners. The sign features a large stylized 'S' and the text 'R-12345678' at the bottom. The drawing includes numerous dimensions and labels for various parts of the sign.

**Dimensions:**

- Overall width: 240.49 mm
- Overall height: 175.48 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm

**Labels:**

- B1**: Bottom-left corner radius
- B2**: Bottom-right corner radius
- B3**: Bottom-left corner radius
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- B99**: Bottom-left corner radius
- B100**: Bottom-right corner radius

H1	200
H2	100
H3	39.3
H4	21.6
H5	17.7
L1	91.0
L2	84.3
L3	25.2
L4	40.4
L5	3.36
D1	23.5
D2	23.5
D3	7.52
D4	19.6
D5	42.4
D6	8.57
B1	240.49
B2	175.48
B3	66.26
B4	12.00
B5	8.24

a) For printing purposes, colours shall be "Oriental Blue" and "Monopol Red" as per IS 1222:1992. 'Ink, duplicating for twin cylinder rotary machines (third revision)'

b) For sign board purposes, colours shall be "French Blue" (No.166) Red" (No.537) as per IS 5:1994 "Colours for ready mixed paints and enamels (fourth revision)".

The font style and size used is Arial-85 pt.

**IS -----**



**R - XXXXXXXXX**

For details information on BIS, consult the e-BIS Portal ([www.manakonline.in](http://www.manakonline.in)).  
Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery.



Date: 22/12/2022

To,  
M/s. Insolation Green Energy Private Limited  
Khasra No. 766/02, Village: Bhagwada,  
Tehsil-Amer, Jaipur, Rajasthan-302028.

**Sub: Statement of Compliance Letter**

This is to inform you that M/s. Insolation Green Energy Private Limited have submitted Mono Perc Crystalline M10 modules with Model no: INA-144MHC-WF-545 for below mentioned Testing Standard against corresponding report number. Testing has completed successfully, and results meet the compliances. All the Series model covered are with same Bill Of Materials.

**Models Covered:**

**144 Half Cut Cell Series:** INA-144MHC-WF- xxx, xxx stands for power range from 520~545, in step of 5 W  
**132 Half Cut Cell Series:** INA-132MHC-WF- xxx, xxx stands for power range from 480~500, in step of 5 W  
**120 Half Cut Cell Series:** INA-120MHC-WF- xxx, xxx stands for power range from 435~450, in step of 5 W  
**108 Half Cut Cell Series:** INA-108MHC-WF- =xxx, xxx stands for power range from 390~405, in step of 5 W

**Testing Standard Covered:**

**1.Report Number: 4790408605.3.1-S1 dated 29<sup>th</sup> August 2022.**

**Standard:** PID (Potential Induced Degradation) Testing of Solar Photovoltaic modules as per IEC TS 62804 – Test Methods for The Detection of Potential-Induced Degradation Part 1: Crystalline Silicon Photovoltaic Modules. Edition 1.0, 2015-08 [Negative Grounding] (Severity level as per MNRE requirement: 3 Cycles at 85°C  $\pm$  2°C, 85  $\pm$  3% of RH for 96Hrs – Total 288Hrs).

**2. Report Number: 4790408605.2.1-S1 dated 30<sup>th</sup> November 2022**

**Standard:** IEC 61853-2 Edition 1.0, 2016-09- Photovoltaic (PV) module performance testing and energy rating – Part 2: Spectral responsivity, incidence angle and module operating temperature measurements.

**3. Report Number: 4790408605.4.1-S1 dated 22<sup>nd</sup> December 2022**

**Standard:** IEC 62716 Edition 1.0, 2013-06- Photovoltaic (PV) modules – Ammonia corrosion testing.

**4. Report Number: 4790408605.5.1-S1 dated 22<sup>nd</sup> December 2022**

**Standard:** IEC 60068-2-68 Edition 1.0, 1994-08- Environmental Testing- Part 2: Dust and Sand.

Sincerely Yours,

**Jayalakshmi M**  
**Engineer Project Associate**  
**UL India Private Limited.**





Date: 22/12/2022

To,  
M/s. Insolation Green Energy Private Limited  
Khasra No. 766/02, Village: Bhagwada,  
Tehsil-Amer, Jaipur, Rajasthan-302028.

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**108 Half Cut Cell Series:** INA-108MHC-WF- =xxx, xxx stands for power range from 390~405, in step of 5 W

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