



OFFICE OF THE PRINCIPAL
UDAYANATH AUTONOMOUS COLLEGE OF SCIENCE & TECHNOLOGY

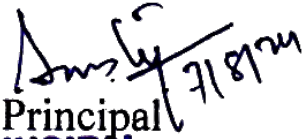
PRACHI JNANAPITHA,
AT/PO : ADASPUR, DIST : CUTTACK

Ph. 0671 - 2805409, E-mail : adaspurcollege@gmail.com, Website : www.udayanathcollege.ac.in

7.1.2-The Institution has facilities for alternate sources of energy and energy conservation measures

- 1. Solar energy**
- 2. Biogas plant**
- 3. Wheeling to the Grid**
- 4. Sensor-based energy conservation**
- 5. Use of LED bulbs/ power efficient equipment**
- 6. Wind mill or any other clean green energy**

Please find the Supporting Files Given Below


Principal
PRINCIPAL
U. N. (Auto) College of Sc. & Tech.
Adaspur, Cuttack

1. Solar energy



Google

Adaspur, Odisha, India

6267+WQC, Adaspur, Odisha 754011, India

Lat 20.212331°

Long 86.014454°

06/07/24 09:09 AM GMT +05:30

1. Solar energy



 **GPS Map Camera**



Adaspur, Odisha, India
6267+WQC, Adaspur, Odisha 754011, India
Lat 20.212331°
Long 86.014454°
06/07/24 08:59 AM GMT +05:30

1. Solar energy



 **GPS Map Camera**



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3. Wheeling to the Grid

WARRANTY CERTIFICATE

150 kWp GRID CONNECTED ROOF TOP SOLAR POWER PLANT		
Sl. No.	Component	Warranty Period
1	335Wp Polycrystalline PV Panel - 450Nos. (Renewsys)	10 Years
2	50KW Solar Inverter - 1 Nos. (FIMER_ Formerly known as ABB)	5 Years
3	100KW Solar Inverter - 1 Nos. (FIMER_ Formerly known as ABB)	5 Years
4	Total System : 150 kWp Solar Power Plant	5 Years

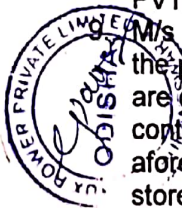
Warranty Certificate Sl. No. : CPPL-WAR-(22-23) - MAY - 22
Client Name : M/s- UDAYA NATH AUTONOMOUS COLLEGE
Installation Location : SH - 60 , ADASPUR
Commissioning Date : 9th, MAY , 2022
Invoice No. : CPPL/20-21/054
Invoice Date : 31st , MARCH , 2021
Warranty Applicable from : 09th MAY 2022

7.0. Warranty Terms and Conditions:

This Warranty is hereby made on behalf of M/s **CRUX POWER PVT. LTD**, Plot No: 1281/3149, Krupa Bhawan, Ground Floor, Jayadurga Nagar, Bomikhal, Bhubaneswar-751 006 towards the Material Supplied and Work Executed under the Contract as per the following:

1. Satisfaction of technical and other parameters mentioned in the specification and contract.
2. Quality and strength of materials used in the manufacture of the equipment considering the applicable codes of practice and regulation.
3. Adequate factors of safety for all parts of the equipment to withstand the mechanical and/ or electrical stresses developed therein under specific operating conditions.
4. The equipment is free from defects in design, material or workmanship.
5. Work Completion Report furnished for the SPV Plant is actually obtained when equipment is installed and tested at the site.
6. M/s CRUX POWER PVT. LTD, is having the obligations under the warranty which shall involve repair, rectification and making good at site the defect, imperfection or fault attributable to defective design, material or workmanship.
7. The equipment is in accordance with the specification/contract suitable in design and workmanship for conditions envisaged in the specifications.
8. Inspection by purchaser representatives at various stages does not relieve M/s CRUX POWER PVT. LTD. from its obligations under the warranty.

M/s CRUX POWER PVT. LTD. is hereby declares that the goods/ store/ articles sold/ supplied to the purchaser under this contract are of best quality and workmanship and new in all respects and are of strictly in accordance with the specifications and particulars contained/ mentioned in the said contract. The goods/ stores/ articles would continue to conform to the description and quality aforesaid for a period as mentioned above from the date of final acceptance of the said goods/ stores/articles and that notwithstanding the fact that the purchaser (Inspector) has inspected and/ or approved the said stores/ articles. If during the aforesaid period the said goods/ stores/ articles





3. Wheeling to the Grid

be discovered not conforming to the description and quality aforesaid or not satisfactory performing or have deteriorated, the decision of the purchaser in that regard shall be final and binding on the contractor/ Seller.

The purchaser shall be entitled to call upon M/s CRUX POWER PVT. LTD. to rectify the goods/ stores/ articles or such portion/ portions thereof as is found to be defective within the reasonable period or such specific period as may be allowed by the purchaser in his discretion on an application made thereon by M/s CRUX POWER PVT. LTD. and in such an event the above mentioned warranty period shall be applied to the goods/ stores/ articles rectified from the date of rectification thereof, otherwise M/s CRUX POWER PVT. LTD. shall pay to the purchaser such compensation, as may arise from breach of the warranty herein contained.

PERFORMANCE WARRANTY FOR SOLAR MODULE:-

The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25 year period and not more than 10% after Ten years period of the full rated original output.

Date: 09th MAY 2022



Authorized Signatory



3. Wheeling to the Grid

TAX INVOICE

(Original for Recipient)

Invoice No	CPPL/20-21/054	Date	31-03-2021
Supplier Name	CRUX POWER PRIVATE LIMITED		
Supplier Address	1281/3149, Jayadurga nagar, Bomikhal, Bhubaneswar, Odisha-751006		
Supplier's GSTIN	21AAFCC5157J1ZS	Supplier's PAN	AAFCC5157J
Supplier's State	Odisha	Supplier's State Code	21
Buyer Name	UDAYANATH AUTONOMOUS COLLEGE OF SC. & TECH		
Buyer's Address	At/Po : Adaspur, Dist : Cuttack		
Buyer's GSTIN	URP	Buyer's PAN No	NA
Buyer's State	Odisha	Buyer's State Code	21
WO/PO No	Letter No:354 UNC	WO/PO Date	30-09-2020
Nature of the Work	Design, Supply, Erection, Installation, Testing and Commissioning of 150kWp On-grid Roof-top solar power Project.		
Location of Work	Udayanath Autonomous College of Sc. & Tech, Cuttack		

Sl. No.	Description of Work	HSN/SAC Code	Qty	Rate (Rs)	Taxable Value (Rs.)	GST Rate		Total (Rs.)
						SGST (2.5%)	CGST (2.5%)	
A	150 kW Solar Power Generating System:- (Supply of 150kW On-Grid Roof top Solar Power Project)	8500	1	39,24,399.50	39,24,399.50	98,109.98	98,109.98	41,20,619.46
B	Design, Civil, Installation, Testing & commissioning of 150kW On- Grid Roof top Solar Power Project)	995461	1	16,81,885.50	16,81,885.50	1,51,369.69	1,51,369.69	19,84,624.88
Total (A+B)					56,06,285.00	2,49,479.67	2,49,479.67	61,05,244.00
HSN/SAC		Taxable value		State Tax		Central Tax		Total Tax Amount
				Rate	Amount	Rate	Amount	
8500		39,24,399.50		2.50%	98,109.98	2.50%	98,109.98	1,96,219.96
995461		16,81,885.50		9%	1,51,369.69	9%	1,51,369.69	3,02,739.38

Amount In Words: Rupees Sixty One Lakh Five Thousand Two Hundred Forty Four Only

Payment terms:-

- 15% of Total Project Cost on Completion of Detailed field inspection, load study and submission of a concept report having milestone plan a pre and post-solar scenario regarding the billing and other special scope of work
- 15% of total Project cost on completion of earthings and LA work and mobilization of staffs for taking up solar structural work.
- 25% of Total project cost on completion of structure and civil work
- 25% of total project cost on delivery of complete bill of materials as per the Technical specification and inspection and approval of the college Authority/Technical committee
- 5% of Total project Cost on completion of satisfactory internal Testing and commissioning of Solar Modules, Inverter and other Balance of systems
- 5% of total project cost on taking up the NoC and Net metering documentation work with DISCOM/TPCODCL
- 5% of total project Cost on successful installation of Generation and Net-Meter, Charging of solar Plant with grid and first solar Billing by DISCOM/TPCODCL
- 5% of Total project cost on completion of special scope of work as mentioned in Tender document and approval of the college authority/technical Committee

Declaration:

Certified that the particulars given are true and correct and the amount indicated represents the price actually charged and that there is no flow or additional consideration directly or indirectly from the buyer

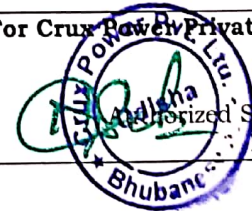
Bank Details:-

Account Name- Crux Power Pvt Ltd
A/C no-27650500000097
IFSC- BARB0SAVNAY (5th digit is "zero")
Bank Of Baroda, Nayapalli Branch, Bhubaneswar

Received By

Signature

For Crux Power Private Limited



Authorized Signatory
E&OM

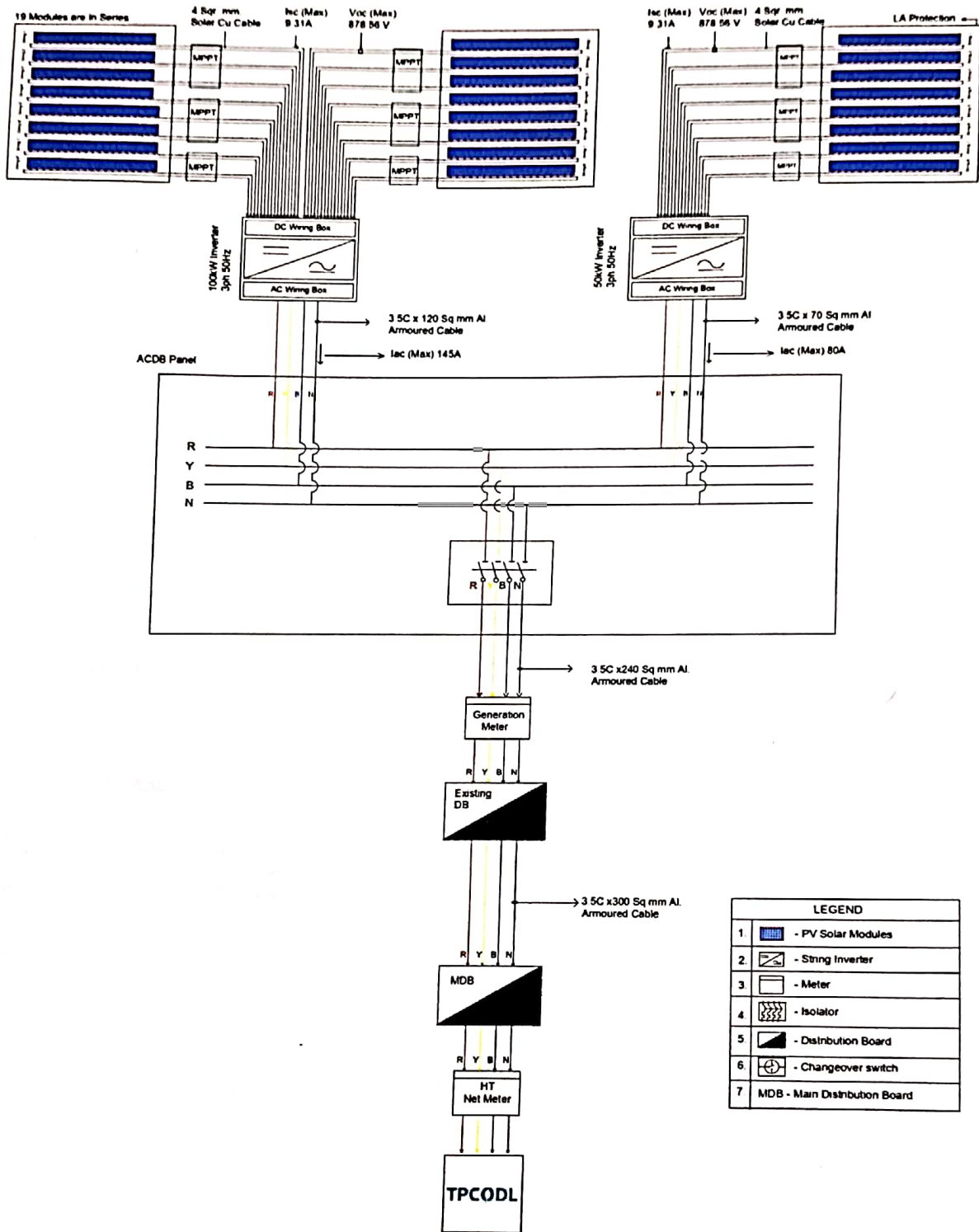
Crux Power Private Limited

CIN : U401Q5OR2013PTC017631

Plot No-1281/3149, Krupa Bhawan, Ground Floor, Jayadurga Nagar, Bomikhal, Bhubaneswar -751006,
Ph: 9778208120, Email - enquiry@cruxpower.co.in, Web: www.cruxpower.com

3. Wheeling to the Grid

SINGLE LINE DIAGRAM OF 150kWp GRID CONNECTED ROOFTOP SOLAR PLANT



LEGEND	
1.	- PV Solar Modules
2.	- String Inverter
3.	- Meter
4.	- Isolator
5.	- Distribution Board
6.	- Changeover switch
7.	- MDB - Main Distribution Board

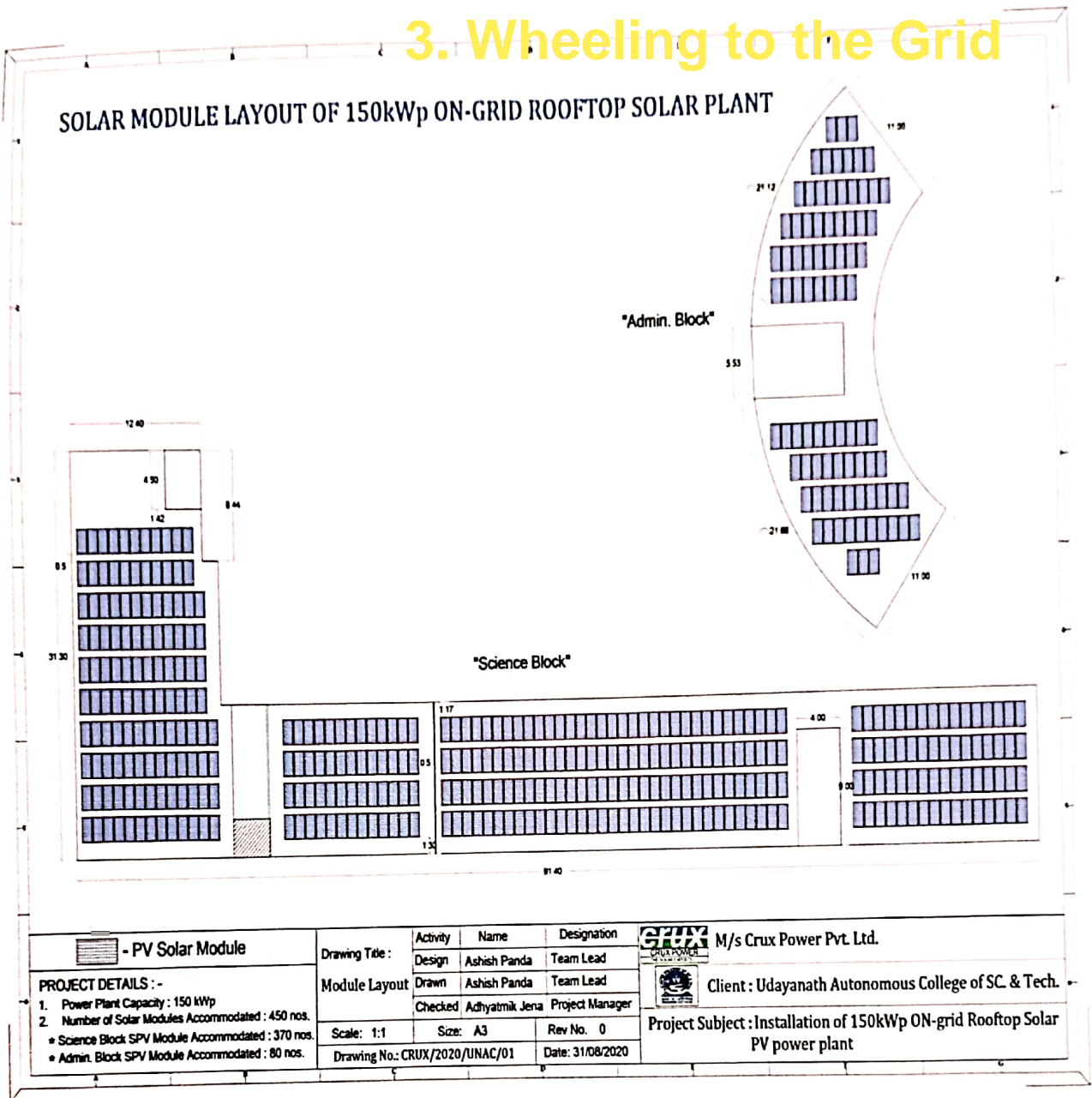
PROJECT DETAILS:-

- Power Plant Capacity : 150 kWp
- Number of Solar Modules Accommodated : 450 nos.
- One number of Isolator
- 19 nos & 18 nos of PV Solar modules are in series to form 12 & 4 Strings respectively, which are connected with 100kW inverter and 6 & 2 such strings are connected with 50kW inverter.

Drawing Title :	Activity	Name	Designation
SINGLE LINE DIAGRAM	Design	Ashish Panda	Team Lead
	Drawn	Ashish Panda	Design Engineer
	Checked	Adhyatmik Jena	Project Manager
	Scale 1:1	Size A3	Rev No 0
Drawing No.: CRUX/2022/UNAC/02		Date: 10/05/2022	

Installed by M/s Crux Power Pvt. Ltd.
 Client : Udayanath Autonomous College of SC, & Tech.
 Project Subject : Installation of 150kWp Grid Connected Rooftop Solar PV power plant

3. Wheeling to the Grid



Use of LED bulbs



Use of LED bulbs



Use of LED bulbs



Use of LED bulbs



Use of LED bulbs

