



Estd. 2000



N.R.I INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

(Run by Taramathi Education Society)

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1, Sajjan Singh Nagar, Opp. Patel Nagar, Raisen Road, Bhopal (M.P.)

Ph. 0755 – 2684058, 2684060, 4941005, Fax. (0755) 2684059

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NRI Institute of Information Science and Technology (NIIST), Bhopal

Approved by AICTE, Affiliated to Rajiv Gandhi Proudyogiki
Vishwavidyalaya, Bhopal

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

1, Sajjan Singh Nagar, Opposite Patel Nagar, Raisen Road Bhopal

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0755-2529059



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**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures:
(Other relevant information)**

Sr.No.	Particular	Availability
1	Solar energy plant	√
2	Bio gas plant	×
3	Wheeling to the Grid	√
4	Sensor-based energy conservation	×
5	Use of LED bulbs/Power efficient equipment	√

- Options:
- A. 4 or All of the above
 - B. Any 3 of the above
 - C. Any 2 of the above
 - D. Any 1 of the above
 - E. None of the above

Answer: Options B: Any 3 of the above

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(I) Solar energy :-

Tax Invoices

SHAGWATI KRUPA SOLAR POWER PVT.LTD. Plot No.23, 1 Floor, Narayan Nagar Bhopal GSTIN/UIN: 23AAHCB5315M220 State Name : Madhya Pradesh, Code : 23	Invoice No. 481 Delivery Note Supplier's Ref 2022-23/07/15 Buyer's Order No. Dispatch Document No. Dispatched through Terms of Delivery
Buyer Taramathi Education Society Sajjan Singh Nagar Opp. Patel Nagar Raisen Road Bhopal. State Name : Madhya Pradesh, Code : 23	Dated 28-Sep-2022 Mode/Terms of Payment Other Reference(s) Dated Delivery Note Date Destination

Sl No.	Description of Goods and Services	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	96 Kw on Grid Solar Rooftop System	85414300	1,000 nos	32,32,761.00	nos		32,93,761.00
	Installation & Commissioning	995449					13,39,834.00
	CGST						3,18,210.72
	SGST						3,18,210.72
	Reimbursement of Net Metering						50,000.00
	ROUND OFF						(-0.44)
	Total		1,000 nos				₹ 53,20,016.00


Amount Chargeable (in words) **INR Fifty Three Lakh Twenty Thousand Sixteen Only** E & O.E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
85414300	32,93,761.00	9%	1,27,028.85	9%	1,27,028.85	3,96,251.32
995449	13,39,834.00	9%	1,20,585.06	9%	1,20,585.06	2,41,170.12
Total	48,33,595.00		3,18,210.72		3,18,210.72	6,36,421.44

Tax Amount (in words) **INR Six Lakh Thirty Six Thousand Four Hundred Twenty One and Forty Four paise Only**

Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

This is a Computer Generated Invoice



for SHAGWATI KRUPA SOLAR POWER PVT. LTD.
Authorized Signatory

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Solar Power Plant

GRID CONNECTED ROOF TOP SOLAR PHOTOVOLTAIC POWER PLANT OF 100 KWP

A solar photovoltaic power plant of grid connected type is designed for captive generation and consumption of electrical power from sunlight during daylight hours, for use in our College, so as to reduce the electricity consumption from the very costly main grid supply. The capacity of power plant is chosen as 100% of the sanctioned connected load of 100 Kilowatt, for maximum allowed saving of electricity from grid. The complete photovoltaic power plant has three sub-plants of 100x100x63 Kilowatt-peak rating.

Additional features are as follow-
100KW power plant details
Plant cap:- 100kw
About Module
No. of Module :- 300Nos
Wattage/Module :- 330wp & 345wp
Voc :- 46-47V
Isc:- 8A & 9A
About Inverter
No. of PV Inverter :- 2Nos
Inverter ac cap:- 50kw
I _{max} :- 80A /inverter
No. of MPPT :- 3/inverter
No. of string /inverter :- 9
No. of string/MPPT :- 3
No. of Module/String:-
18 & 14
No. Of Parallel string/inverter:-3
About Generation meter and its CT(current transformer)
Meter :- Unidirectional
Class :-1.0
Capacity:- 10Amax
CT :- 200/5 A
Class:- 0.5



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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DETAILS OF SOLAR PANEL INSTALLATION LOCATION - NIRT (DIPLOMA)

S.no.	Rated Power (Watt)	No. of panel	Total Power (KW)
1	330	141	46.53
2	345	20	6.9
3	375	1	0.375
	Total		53.805



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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DETAILS OF SOLAR PANEL INSTALLATION LOCATION NIRT-P

S.no.	Rated Power (Watt)	No. of panel	Total Power (KW)
1	330	174	57.42

RenewSys
RenewSys India Pvt Ltd
Sy No. 214/P, Srinagar, 22
Faculty, Meerut (UP),
Ranga Reddy District

Model: DESERV 3M6-330 High Performance Multicrystalline Modules

Rated Power	Voc	Isc	Vmp	Imp	Max System Voltage	Binning	Weight
330 Wp	46.24 V	9.31 A	37.67 V	8.79 A	1000V (EU)	0 - + 4.99 Wp	21.2 Kg

Series Fuse Rating: 15 A
Diode Rating: 15 A
Application Class: A
Fire Hazard Rating: C

For field connections use AWG 12 Insulated Cable min. of rating at least 90°C

IEC 61215, IEC 61730 Certified
IEC 61703, IEC 62716 Certified

CE, RoHS, ISO 9001

ALL Technical Data at Standard Test Conditions: AM 1.5, 1000 W/m², T = 25°C subject to measurement uncertainty

CAUTION | This unit produces electricity when exposed to light. Cover the front surface of the Module with opaque material during installation and handling.

WARNING | Before installing, operating and servicing this unit check installation and operating manual. DO NOT connect or disconnect when system is on load. Failure to comply can be hazardous.

IS 17024/IEC 61215
IS/IEC 61730 (Part 1)
IS/IEC 61703 (Part 1)

S
R-63000760
www.bls.gov.in
Made in India

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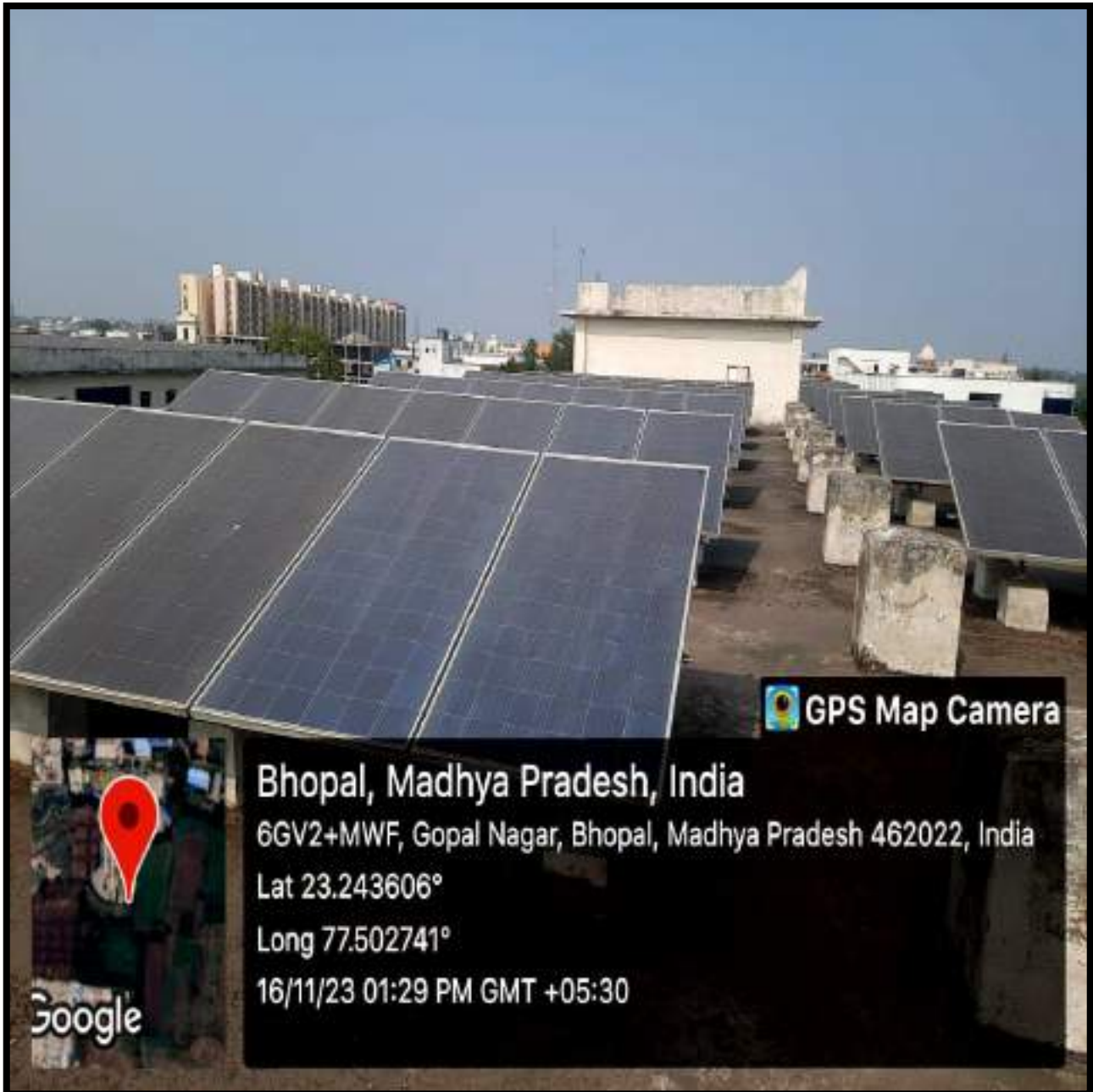
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(II) Wheeling to the Grid :-



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RANJAN ELECTRICALS AND PROJECT

All Type Of Electrical Works, Supplier of Electrical Equipments
and A-Class Electrical Contractor, LIC No. 28/3128-A

प्रति,

दिनांक 02.03.2022

मंससे तारामथि एज्युकेशन सोसायटी,
एम.आर.आई कॉलेज, पटेल नगर, रायसेन रोड, भोपाल (म.प्र.)।

विषय: आपके 2x100+1x63 केबीए, 11/0.433 विद्युत गणना व 1x125 केबीए लोडिंग सेट का
वार्षिक निरीक्षण में पाई गई कमियों की दुरुस्ति रिपोर्ट।

संदर्भ: उद्य./3275 /सहा यंत्री (वि.सु)/2021-22/भोपाल-1 दिनांक 14.03.2022

महोदय,

उपरोक्त विषयावर्तित हमारे द्वारा कार्यालय सहायक यंत्री (वि.सु) के संदर्भित पत्रानुसार पाई गई
कमियों की दुरुस्ति निम्न प्रकार से कर दी गई है:-

- परिसर से गुजर रही लाइनें की गार्डिंग में तीसियों की संख्या बढ़ा दी गई है।
- उपरोक्त परिसर में उभ रही धारा को साफ कर, गिटली बिछा दी गई है।
- डी पी स्क्वयर पर सिल्वर पेंट कर दिया गया है।
- एबीसीसी के ड्रेडल को भूयोजन व्यवस्था से जोड़ दिया गया है।
- एबीसीसी व सर्किट ब्रेकर के मध्य इंटरलाकिंग व्यवस्था दुरुस्त कर दी गयी है।
- फेसिंग को ठीक कर भूयोजन व्यवस्था से जोड़ दिया गया है।
- लाइटिंग अरेस्टर लगा दिये गये हैं।
- डी.डी. बरल लगा दिये गये हैं।
- कंजर्वेटर में अर्थल लेवल निर्धारित सीमा तक भर दिया गया है।
- डी.डी. में एक्सटेंशन पाईप लगाकर एयर लेवल तक कर दिया गया है व आयल घाट में अर्थल भर
दिया गया है।
- सिडिका जेल को नवीनीकरण कर दिया गया है।
- उपरोक्त परिसर में सूखी रेश से भरी बाल्टियों व अग्निशामक बरत की व्यवस्था कर दी गई है।
- उभे पिटरा पर मेशनरी कार्य कर उनके कंजर्वे से डक दिया गया है व न्यार्डिंग कर दिया
गया है।
- कंट्रोल रूम में समस्त पैनलों के सामने रबरफ्लैट बिछा दी गई है।
- कंट्रोल रूम में प्रथमोपचार के लिये अनुपेक्ष घाट व प्रथमोपचार फेटी की व्यवस्था कर दी गई है।
- कंट्रोल रूम में विद्युत सुरक्षा उपकरणों की व्यवस्था कर दी गई है।
- कंट्रोल रूम को स्वच्छी रूप से नार्डफिश कर दिया गया है।
- डी.डी. रूम से समस्त अनावश्यक सामान हटा दिया गया है।

Insulation Test Result of Transformer :-

100KVA		
Phase B to Earth	-	100 MΩ
Phase Y to Earth	-	100 MΩ
Phase B to Earth	-	100 MΩ

Dist. 2

Office: 471, Sansar Bhawan Bhawani Dham Phase - 1, Narola Shankari, Bhopal (M. P.) 462021. Ph - 0755 - 4284867
 63 - B, Sector - 1, Industrial Area, Govindpura, Bhopal (M. P.) 462023. Ph - 0755 - 4917989
 Email: ranjaneelectricalsproject@yahoo.in

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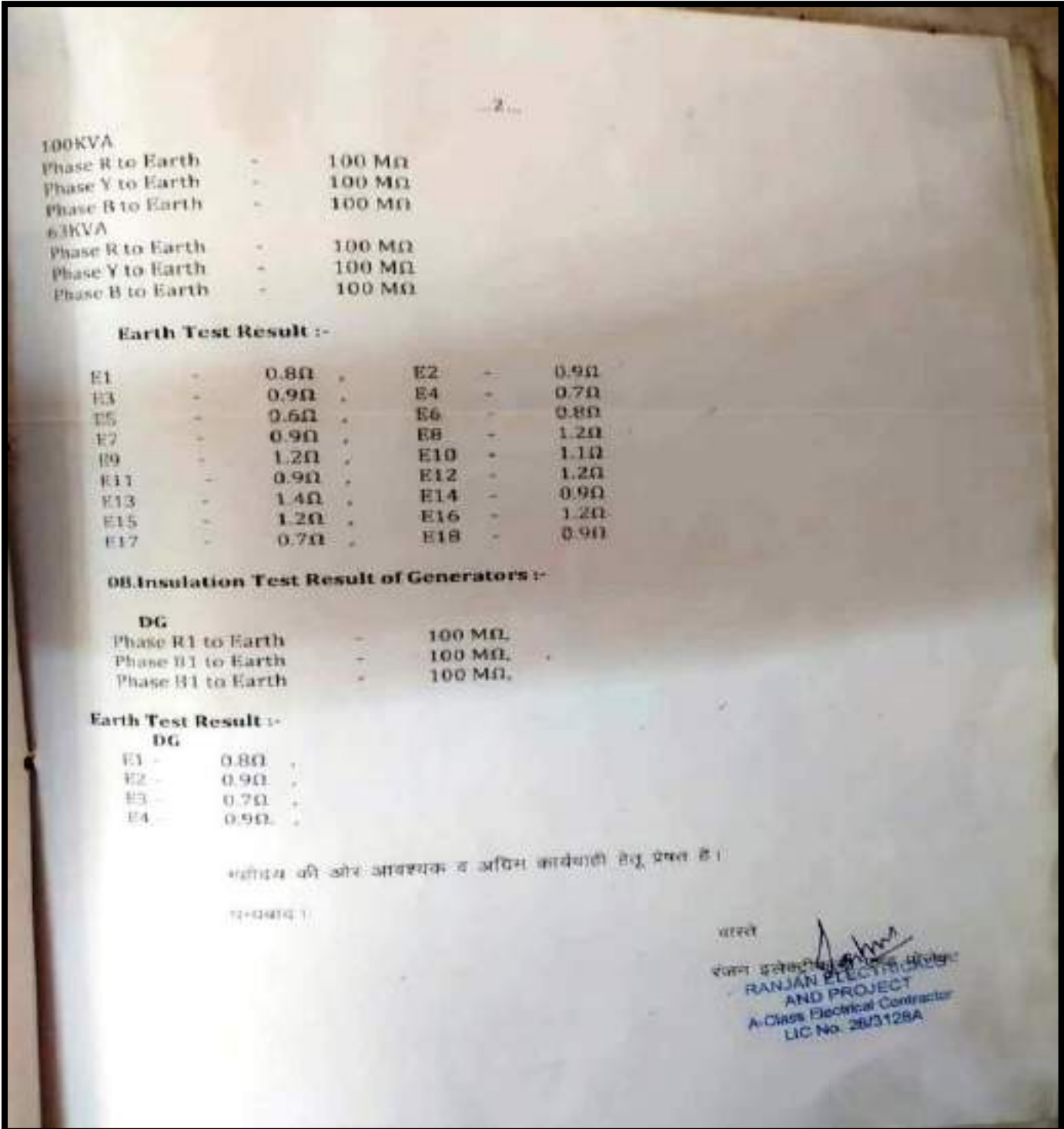
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TRANSFORMER CONVENTIONAL
TYPE) SPECIFICATION REF NO
ISS 2026/0377
M.V.V.R - 100
VECTOR DIAGRAM DYN 11
IMPEDANCE VOLTS 4.5

GPS Map Camera

Bhopal, Madhya Pradesh, India

6GW3+35Q, Gopal Nagar, Bhopal, Madhya Pradesh

462022, India

Lat 23.245165°

Long 77.502829°

09/10/23 10:37 AM GMT +05:30

Google

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(III) Use of LED bulbs/ power efficient equipment :-



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Bill of led bulb

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