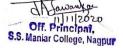
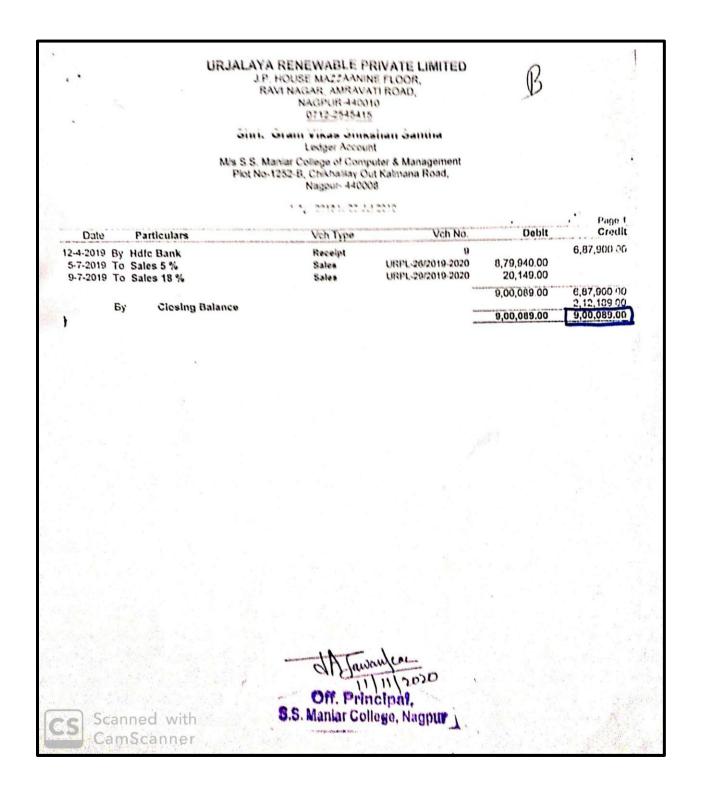
Q_nM 5 marks

- 7.1.2. The institute 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

S. No.	Document
1	Solar energy generation bills
2	Solar Panel on roof top-geotag photographs
3	Wheeling to the Grid
4	LED light bills
5	Certificate of percentage of annual lighting power requirement
	met through LED lights
6	LED bulb geotag photographs
7	Electricity bill before solar energy generation
8	Electricity bill after solar energy generation



1. a) Solar Energy Invoice Rs. 9,00,089/-



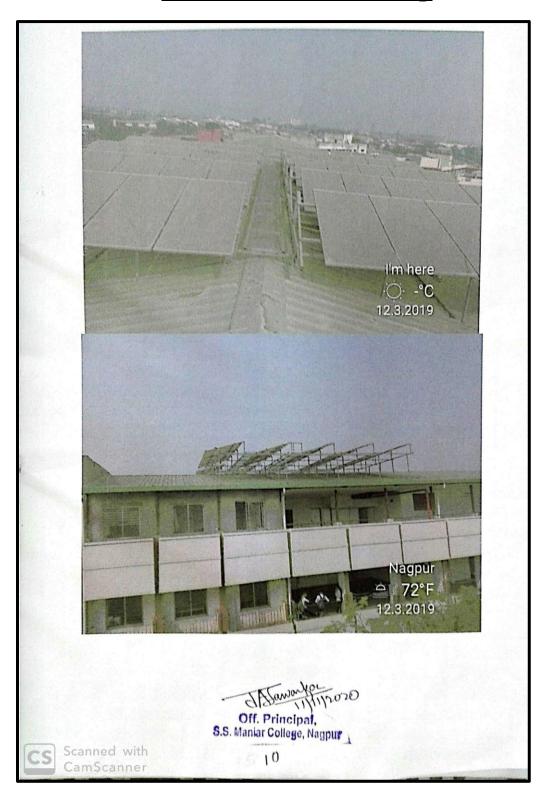
1. b) Solar Energy Tax invoice Rs. 20,149/-

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te	-2545415 IN/UIN 27AACCU2572J1Z4 ∍ Name : Maharashtra, Code : 27 ∍il - pankaj@urjalaya.com/ sudhir@urjalaya	com	Supp	liers R	ef.	Other	Refe	rence(s)
ri.	. Gram Vikas Shikshan Santha		Desp	atch Do	ocument No	Delive	ery No	ote Date
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c	e of Supply : Maharashtra			.50.50	,			
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1. c) Solar Energy Rs. 8,79,940/-

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- AA Jan	bank	0_				6.17
S Scanned with Off. Print CamScanner 8.S. Maniar Co.	park	2020				6.73

2. Solar Panels on roof top



3. a) Wheeling to the Grid

Transforming the power of sun POLYCRYSTALLINE **SOLAR PV MODULES** 5 Busbar Solar Cell 5 busbar cell design improves module efficiency and offers betterpoweroutput



HIGH **EFFICIENCY**

POSITIVE **POWER TOLERANCE**













Outstanding Durability

With its reinforced frame design, our modules can endure front load of up to 5400 Pa and rear load of up to 2400 Pa to withstand heavy wind & snow loads



High Power Output

Our PV modules are compact in size and have been designed to deliver enhanced output and efficiency



Better Performance in High Temperature

Our PV modules deliver efficient performance even in high temperature conditions due to its improved temperature coefficient



Low Light performance

Advanced glass and cell surface texture design ensures excellent performance in low-light environment



Enhanced Performance

Our PV modules provide more than 80% efficiency even after 25 years of operation



Global Certifications

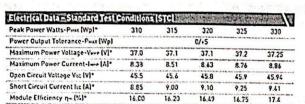
GLODAL CEPTIFICATIONS
IEC 61857 (Fig. 8), IEC 61857 (ertified, Sand and Just storm resistant IEC 60068), Certification as per DIS Saft mist, ammonia and hait resistant IEC 61701) IEC 62716



Officiating Principal Sudha Sureshbhai Maniar College of Computer and Management, Nagpur



POLYCRYSTALLINE SOLAR PV MODULES 72 CELLS 1000 POWER OUTPUT



* Under Standard Yest Conditions (STC) of 1900 W/m' disadrance, AM 1.5 spectrum and 25°C cell temperature. ** 700, 750, 10) & 305 Warmerlute in 77 cell available an apacial requisit

Maximum Power-Paux (Wp)	230	234	238	242	245
Maximum Power Voltage-Vers [V]	34.3	34.3	34.4	34.5	34,6
Maximum Power Current-lw- [A]	6.72	6.83	6,91	7.02	7.06
Open Circuit Vottage Vac (V)	42.2	42.3	42.5	42.6	42.6
Short Circuit Current Is: [A]	7.15	7.27	7.35	7.47	7.73

Solar Cells	Polycrystalline 156.75 x 156.75 mm
Cell Orientation	72 Cells (6x12)
Module Dimensions	1950 x 990 x 35 mm
Weight	22.5 kg
Glass	3.2 mm (0.13 Inches), High Transmission, AR Coated Tempered Glass
Backsheet	Composite film
Cell encapsulation	EVA-Ethylene Vinyl Acetate
Frame	Anodized Aluminium Alloy
J-Box	tP 67/68 with 3 bypass diodes
Cables	Photovoltaic Technology Cable 4.0 mm ² (0.005 Inches ²), 1200 mm (47.2 Inches)
Connector	MC4 Compatible or Amphenol H4/UTX
Fire Type	Type 1 or Type 2

Temperature Ratings	的 的现在分词完全的现在分词
Nominal Operating Cell Temperature (NOCT)	45°C 1+2°C1
Temperature Coefficient of Peux	-0.37%°C
Temperature Coefficient of Vac	-0.324/°C
Temperature Coefficient of Ix	-0 05%/°C

Maximum Ratings Operating Temperature	-40/+85°C
The state of the s	1600V DC HECT
Hazimum System	1000V DC IULI
Voltage	the state of the s
Max Series Fuse Rating	ISA

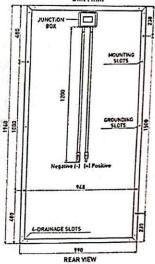
10 pt or Product Workmanship Warranty 75 year Linear Power Warranty

JAKSON GROUP

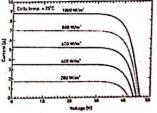
A.43, Phoso-F East, Husery Complex, Hade-201305, U.P., India | Tel.; 471-120 4302409, 4524100 Juli Eyre No. : 1203-120-2300) e-f-61, Augus com James jahran cien

DE JAKSON"





I-V Curve with Irradiance



Linear Performance Warranty







Scanned with

4. LED Light bills Rs. 31,690/-

	Il Shri Ganeshay Hamal Estimate Memo DEVENDI ELECTRICA	RA	9637	410195
AH T	pes of Cooler, Electrical Motor Winding Industrial Wiring & House Wiring Work	Fan, Mixe	r, Starter	Repairing,
H	lanuman Mandir, Bhandara Ro			
BIII N	0. 104	Dat		8-2018
Add:	S.S. Meniax College Chikhali Near Meltita	Kata	Kalas	nana Nag
NO.	PARTICULARS	NOS	RATE	AMOUNT
0	Light Poly EAMP	11	80	880
(2)	power polar 16 Amp	014	150	600
(3)	Exitora Light Poly 6Ano	35	100	3500
(4)	1.5 Samm Lisecuist scuris	110mbe	20	2200
5	4.0 Samm 3 Phese circuit			600
0	HERRY TON M.C.B D.B	01	1200	1200
(F)	Tubelight fitting	чо	80	3200
(8)	eciding Fam Fidding	19	90	1710
(9)	15 wat L. E.D. dight fithing	429	100	2800
10	विविचेश जाम		-	5000
	Thanks 10690 TOTAL			21690
	A Janon a- 1111/2020 Off. Principal.		Si	10690 Inature

5. Certificate of percentage of annual lighting power requirement met through LED lights

M/S KAY ASSOCIATES
ELECTRICAL 'A' CLASS COMPACTOR

NAME: M. C. No.: 17933 Authorised Electrical Contractor G5, 5, At hirvaid Palace, Dhantoli, Nagpur - 440012. Q: (5),530857, 560339, 813621

icetifical contractor

TO WHOMSOEVER IT MAY CONCERN

Certificate of Percentage of Annual Lighting Power Requirements met through LED bulbs.

This is to certify that the percentage of annual lighting power requirements of Sudha Sureshbhai Maniar College of Computer & Management, Plot no B, Khasra no 103/1-2, Mouza Chikhali, Kalamna Market Rd., Kalamna, Nagpur 440 035 met through LED bulbs during 2017-2018 is as follows -.

Total Lighting requirements (units)	Percentage Lighting through LED bulbs	Percentage Lighting through other sources
14479	10.54	89.46

Signature:

Name in Block letters:

Company:

Office Address:

N. H. JAIN

Elec. Sup. Permit

No. M. S. 41694, Nagpur.

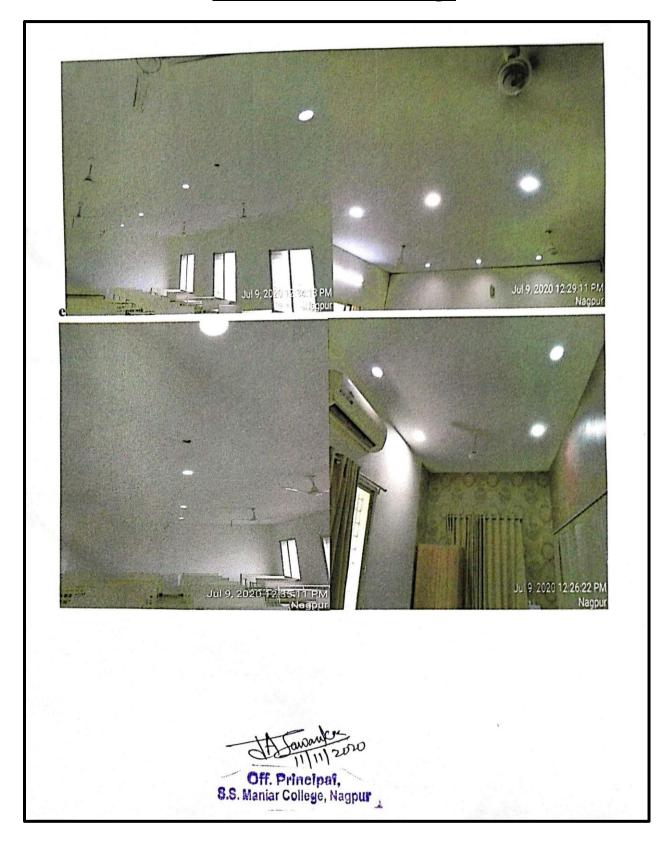
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KAY ASSOCIATES

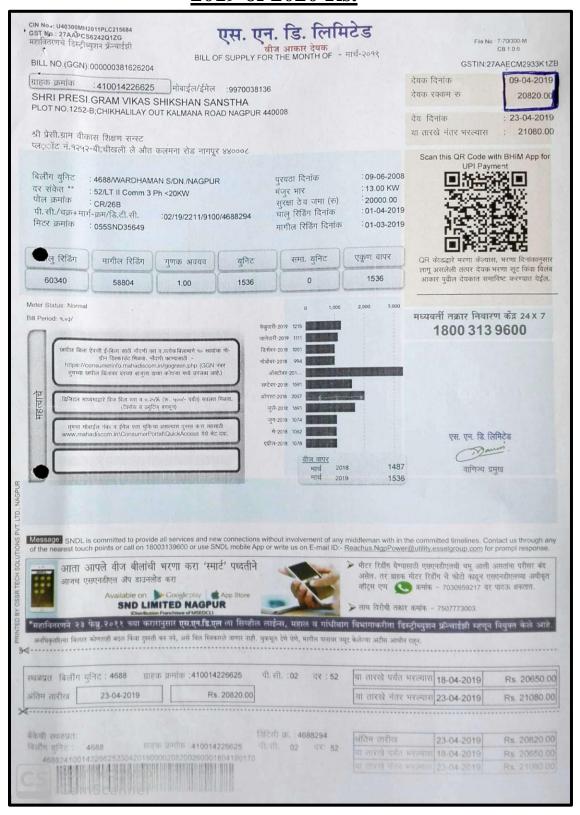
GS. 5, fe her and Palace, Dhantell, in: ur - 440012. G): (51.52 are - 2.3, 81262

Off. Principal, 8.S. Maniar College, Nagpur

6. LED bulbs in College



7. Before Solar panel installation bill for the month of April 2019 of 2020 Rs.





8. After Solar panel installation Bill for the month of March 2019 Rs. 390/-

