

Harikisan Jajoo Education Sanstha's

# COLLEGE OF MANAGEMENT AND COMPUTER SCIENCE, YAVATMAL

13/4-A, Behind Naringe Nagar, Dhamangaon Road, Yavatmal-445001 (M.S.)

Recognized by Govt. of Maharashtra,
Affiliated to Sant Gadge Baba Amravati University
and Approved by AICTE

ISO Certification:9001:2015

Website:-https://cmcs.hjes.in

# Alternate Sources of Energy and Energy Conservation Measures

( Affiliated to Santa Gadge Baba Amravati University, Amravati) College Code - 457 / MBA Code -1106 Address :- 13/4 (A), Behind Naringe Nagar, Dhamangaon Road, Yavatmal - 445001 (M.S.)

www.cmcs.hjes.in

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cmcs457@sgbau.ac.in

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94231-31946

Ref. No.

Date :- \_\_\_\_\_

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The Institution has facilities for Alternate Sources
Of Energy and Energy Conservation Measures.

The Institution has following facilities for Alternate Sources Of Energy and Energy Conservation Measures.

- 1. Solar Energy
- 2. Use of LED Bulbs/Power efficient Equipment

Since Year 2018-2019 Institution has installed Solar System to conserve electricity. Moreover, Institution also makes use of LED Bulbs instead of high power traditional bulb, in class rooms, office rooms and premises to save electricity consumption.

### **Information about Solar Panel**

Institute has installed 15 KW solar panel in year 2018. This System can generate energy about 60 units per day, 1800 units per month. The total cost of plant is about Rs. 9.00 lakh. The Solar System consist of solar PV module, hot dip roof top module mounting structure, Solar on grid string inverter, AC distribution box, DC distribution box, Lightning arrester and earthing rods.

The System is producing more power than is being used, surplus is fed into the main electrical grid via solar net metering. The plant is regularly controlled, analyzed and maintained by electrician and wiremen.



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### Solar System Bill:-

No Solar ROOF TOP ON GRID 1 8,57,143/- 8,57,143/- 21428.5/- 21428.5/- 2.50% 9,00,000.15/  1. SOLAR PV MODULE: 15040Wp[waaree] 2. HOT DIP ROFF TOP MODULE MOUNTING STRUCTURE 3. SOLAR ON-GRID STRING INVERTER ABB TRIO-20- TL-OUTD (3 PHASE) 4. AC DISTRIBUTION BOX SPD CLASS II 5. DC DISTRIBUTION BOX 6. LIGHTINING ARRESTER 7. EARTHING RODS SST 21428.5/- CGST 21428.5/- NET BILL 9,00,000.15/ NET PAYABLE BILL 9,00,000/- Received material in good condition  Customer Signature				TAVIN	VOICE			
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### Solar System PHOTOGRAPHS





Solar Panel Place on College Roof Top



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Solar Panel Unit of Distribution of Electricity



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### Sensor-based Energy Conservation



Sensor-based energy conservation in college premises



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### **Information about LED Bulbs**

The institution has total of 64 LED's from the last 3 to 4 years covering the campus and office area. Replacement of traditional high energy bulbs over LED bulbs has proven effective against saving electricity.

Sr. No.	Type Of LED	Watt	Total Nos.	Operating hrs/day
1	LED Bulb	10	3	7 hrs/day
2	LED Tubes	20	49	7 hrs/day
3	LED Flood Light Focus	100	8	4 hrs/day
4	LED Focus White Outdoor	400	13	4 hrs/day

# **LED Bulbs Used in Institution Photographs**





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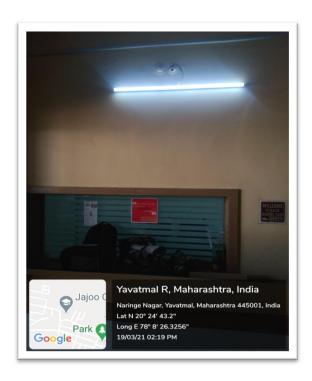
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Maximum Use of LED Bulbs in college premises



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Copy of the Invoices (For Solar Panels and LED)

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# COLLEGE OF MANAGEMENT AND COMPUTER SCIENCE, YAVATMAL



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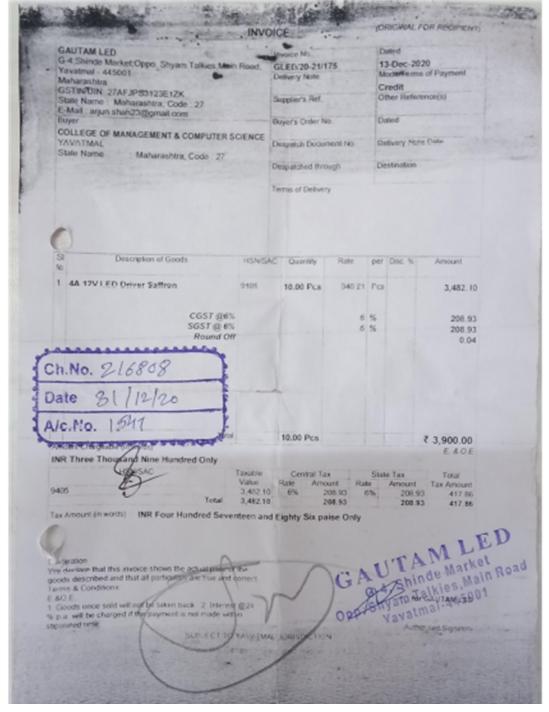
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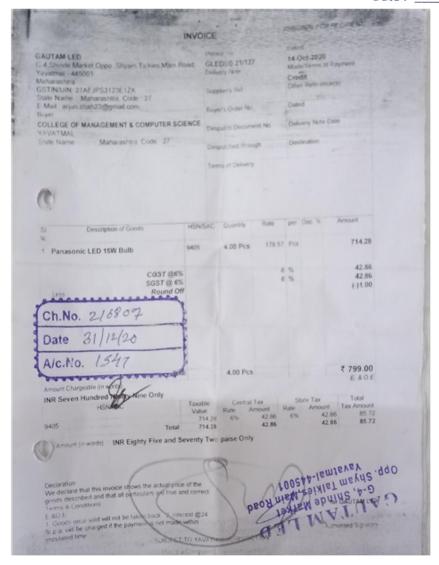
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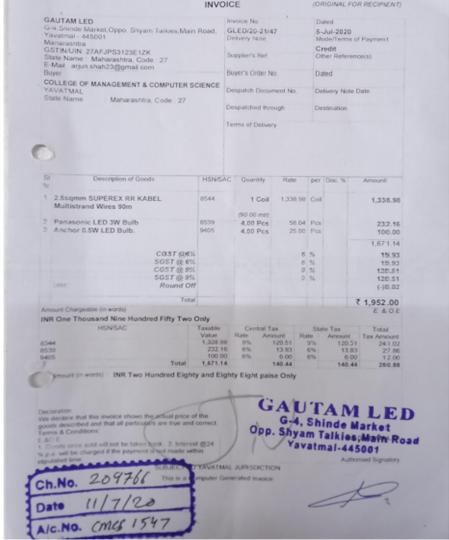
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Ref. No.

Date:-INVOICE (ORIGINAL FOR RECIPIENT) Invoice No. Dated GLED/20-21/47





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Date :- \_

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Ref. No.

Stock Book Entry for Solar and LED

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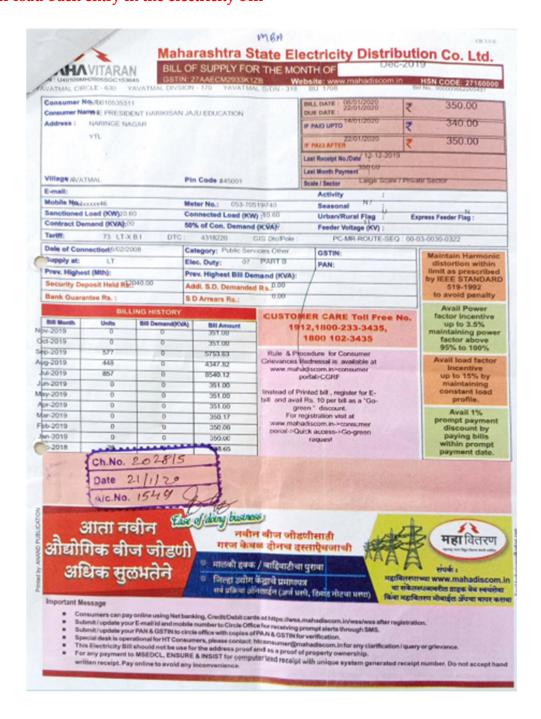
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9 9 Date :-

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Power load-back entry in the electricity bill





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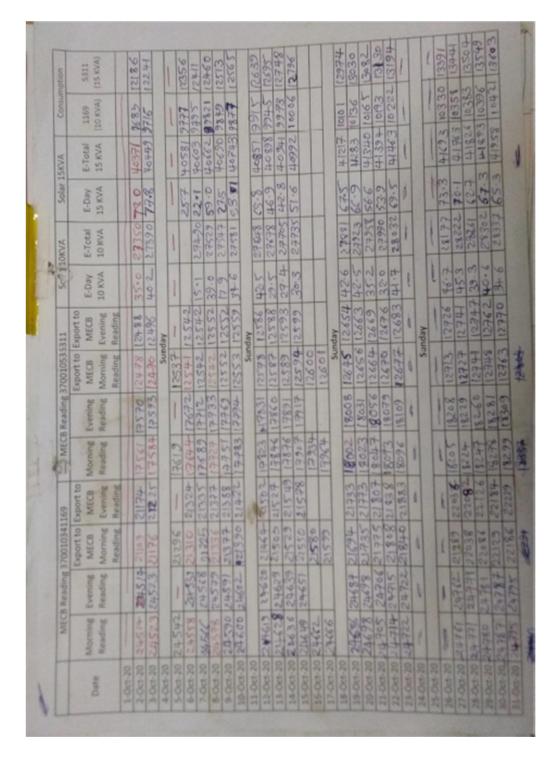
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# Support Documents for Wheeling to the Grid





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Date :-Installation Photographs of the Solar Plant along with Array DC

# Yavatmal R. Maharashtra, India Naringe Nagar, Yavatmal, Maharashtra 445001, India

Google

### DC CONVERTER

18/06/21 09:40 AM



SOLAR ENERGY DISTRIBUTION SYSTEM UNIT



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# SOLAR INVERTER



**ENERGY DISTRIBUTION SYSTEM** 



ARRAY DC DISCONNECT

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NAAC AQAR 2020-2021 Criteria VII