



Manoharbhair Shikshan Prasarak Mandal Armori's

**MAHATMA GANDHI ARTS, SCIENCE &
LATE NASARUDDINBHAI PANJWANI COMMERCE
COLLEGE ARMORI**

Dist. Gadchiroli (Maharashtra) 441 208

Affiliated to Gondwana University, Gadchiroli.

Re-accredited by NAAC 'A' with 3.02 CGPA

SELF STUDY REPORT (SSR)

2016~17 to 2020~21

CRITERION – VII
INSTITUTIONAL VALUES &
BEST PRACTICES

METRIC NO: ~ 7.1.2.

METRIC NAME: ~ *Facilities for alternate sources of energy and energy conservation measures*



Web: - mgcollegearmori.ac.in
e-mail: - mgcollege.armori@gmail.com
Phone: - 07137-266558

CRITERION – VII
INSTITUTIONAL VALUES & BEST PRACTICES

| | |
|--------------------|--|
| METRIC NO | 7.1.2. |
| METRIC NAME | <i>Facilities for alternate sources of energy and energy conservation measures</i> |

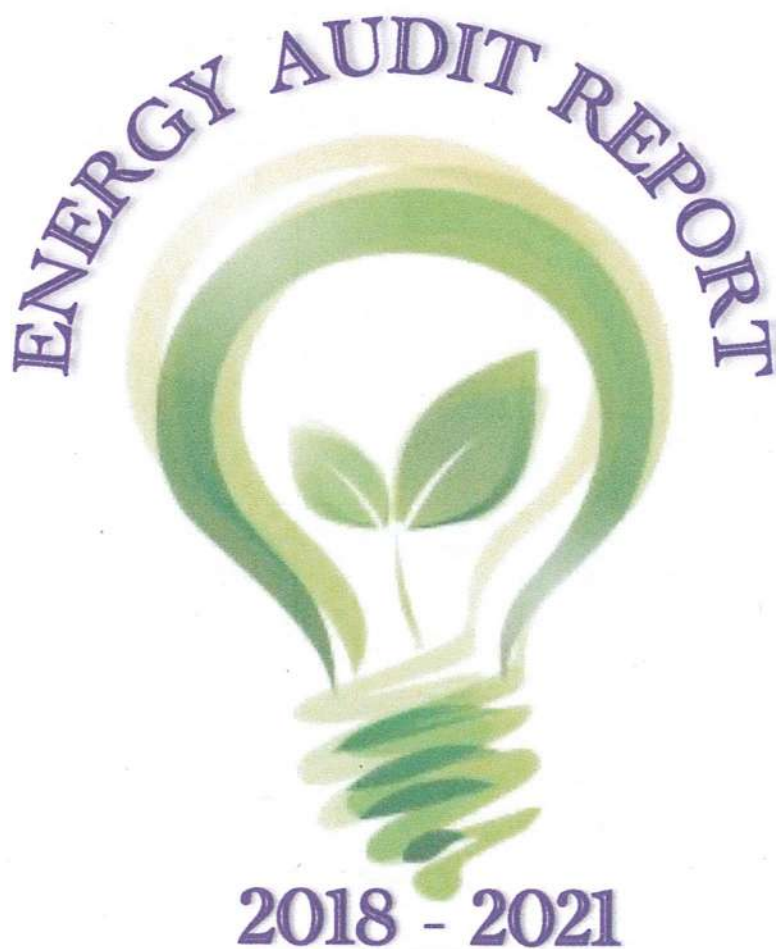
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**Mahatma Gandhi Arts, Science &
Late N. P. Commerce College, Armori
Dist. Gadchiroli (M.S.), 441208**




**Prepared by
Dr. C. D. Mungmode
Associate Professor, Department of Physics
M. G. Arts, Science & Late N. P. Commerce
College, Armori**

ENERGY AUDIT CERTIFICATE

This is to certify that the Department of Physics, **M. G. Arts, Science and Late N. P. Commerce College, Armori** has conducted detailed “**Energy Audit**” of their campus during the academic year 2018 - 2021 and has submitted necessary data and credential for scrutiny. The energy audit was conducted in accordance with the applicable standards. According to the information given to us and to the best of our information, the said energy audit gives true and fair view and report found to be satisfactory. The efforts taken by the college towards energy conservation and environmental consciousness is highly appreciated.



Assistant Engineer
MSEDCL Armori(U)



PRINCIPAL
M. G. Arts, Science &
Late N. P. Commerce College
ARMORI, Dist. Gadchiroli

To,

The Principal,
M. G. Arts, Science
& Late N. P. Commerce College, Armori

Subject: Submission of Energy Audit Report (2018-2021).

Dear Sir,

I am very pleased to submit detailed "Energy Audit Report (2018-2021)" that is required for preparation of "Green Audit Report" of the college which was decided to prepare in IQAC meeting.

I have tried my level best to include all the relevant data, information and the explanation to make the report informative and comprehensive.

The energy audit was conducted for academic year 2018-2019 to 2020-2021 in accordance with the applicable standards.

I am submitting the Energy Audit Report for your kind perusal.



Dr. C. D. Mungmode
Associate Professor, Department of Physics
M. G. Arts, Science & Late N. P. Commerce College,
Armori



"RIGHT PLACE FOR BRIGHT FUTURE"
MANOHARBHAI SHIKSHAN PRASARAK MANDAL ARMORI'S

MAHATMA GANDHI ARTS, SCIENCE & LATE NASARUDDINBHAI PANJWANI COMMERCE COLLEGE

ARMORI Dist. Gadchiroli (M.S.) 441 208

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PRINCIPAL

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Letter No. _MGC/_

Date _____

Certificate

This is to certify that the Department of Physics of the college has conducted detailed 'Energy Audit' of the college for the academic years 2018-2019 to 2020-2021. The Energy Audit was conducted with applicable standards. It gives detailed information about consumption and yield of electricity on the college campus. The recommendations suggested in the report will be considered positively for implementation.




Principal
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Late N.P. Commerce College
ARMORI, Dist. Gadchiroli



<https://www.facebook.com/mgcollegearmori/>



<https://www.youtube.com/channel/UCdoZyKXQ73lnRcKgI.8OHDZw>

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1.0 Introduction:

Electricity plays an important role in the development of human civilization. Numerous electrical appliances have made human life easy. Currently, about 30% of the total residential electricity is used by lighting followed by refrigerators, fans, electric water heaters, and TVs. Approximately 4 % of total residential electricity is used for standby power, which is apparently small amount of power that many modern appliances consume when they are not actively turned on. Modern electrical appliances consume less electricity as compare to old ones which ultimately results into low carbon emission, helping the environment conservation. The Department of Physics conducted energy audit at the college campus which will help in energy management. The college has administrative block, laboratories, indoor stadium, auditorium and classrooms. Various electrical appliances have been installed in all these blocks which consumes electricity generated from Solar PV System installed in the college campus and electricity supplied by Maharashtra State Electricity Distribution Company Limited (MSEDCL). The college has installed **on grid Solar Photovoltaic (PV) System**, having annual energy yield of 35000 kWh. The production of electricity is started from June 2018. The electricity generated during sunny days is consumed by the college and remaining electricity is provided to MSEDCL which is used during needy hours.

2.0 Objective:

To conduct observation and data based energy audit of the energy consumption of electrical appliances within the college campus and to determine how further energy saving can be achieved.

3.0 Methodology Adopted:

- Visual inspection and data collection
- Observations and energy consumption verification.
- Calculation, analysis and identification of energy saving opportunities.

4.0 Electricity Consumption in Administrative Offices

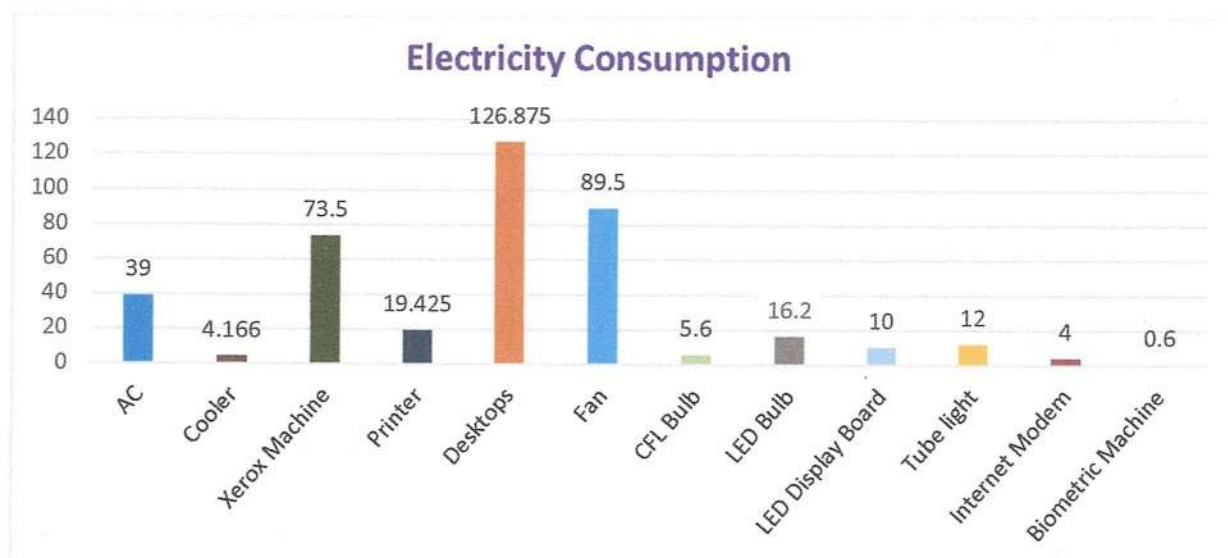
Administrative offices consist of Principle office, clerical section, management office and YCMOU office. The data was collected by actual observation from these offices and the calculation is done. The electricity consumption by the equipment is shown in following table.



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| Sr. No. | Equipment | No. of Units | Avg. Wattage/unit | Avg. Daily Use/unit (Hours) | Total Consumption (kWh/month) (25 Days/month) |
|--------------------------------|----------------------------|--------------|-------------------|-----------------------------|---|
| 1. | AC (1.5 Ton) | 1 | 1.56 kW | 1 | 39 |
| 2. | Cooler | 2 | 200 Watts | 5 (2 Month) | 50 (2 Month) = 4.166 |
| 3. | Xerox Machine | 1 | 1.47 kW | 2 | 73.5 |
| 4. | Laser/Inkjet Printer | 3 | 259 Watts | 1 | 19.425 |
| 5. | Desktops (All in One) | 7 | 145 Watts | 5 | 126.875 |
| 6. | Table Fan | 2 | 55 Watts | 2 | 5.5 |
| 7. | Ceiling Fan | 8 | 60 Watts | 7 | 84 |
| 8. | CFL Bulb | 1 | 32 Watts | 7 | 5.6 |
| 9. | LED Bulb | 36 | 18 Watt | 1 | 16.2 |
| 10. | LED Display Board | 1 | 50 Watt | 8 | 10 |
| 11. | T12 Fluorescent Tube light | 3 | 40 Watts | 4 | 12 |
| 12. | Biometric Machine | 1 | 3 Watts | 8 | 0.6 |
| 13. | Internet Modem | 2 | 10 Watts | 8 | 4 |
| Total Power Consumption | | | | | 400.866 kWh/month |



(Signature)

The electric equipment in Administrative Offices consume about 400.866 kWh electricity per month. The major electric is consumed by Desktops i.e. 126.875 kWh/month followed by ceiling fans (84 kWh/month) and Xerox machine (73.5 kWh/month). Other equipment consumes less electricity as they are less in number. The electricity consumption for lighting purpose is less due to use more number of LED bulbs.

5.0 Electricity Consumption in Departments, Laboratories, Library and IQAC

The electricity is used in all Science Departments as most of the departments use electrical operated laboratory equipment. The details of major equipment and its power consumption is given in following table.

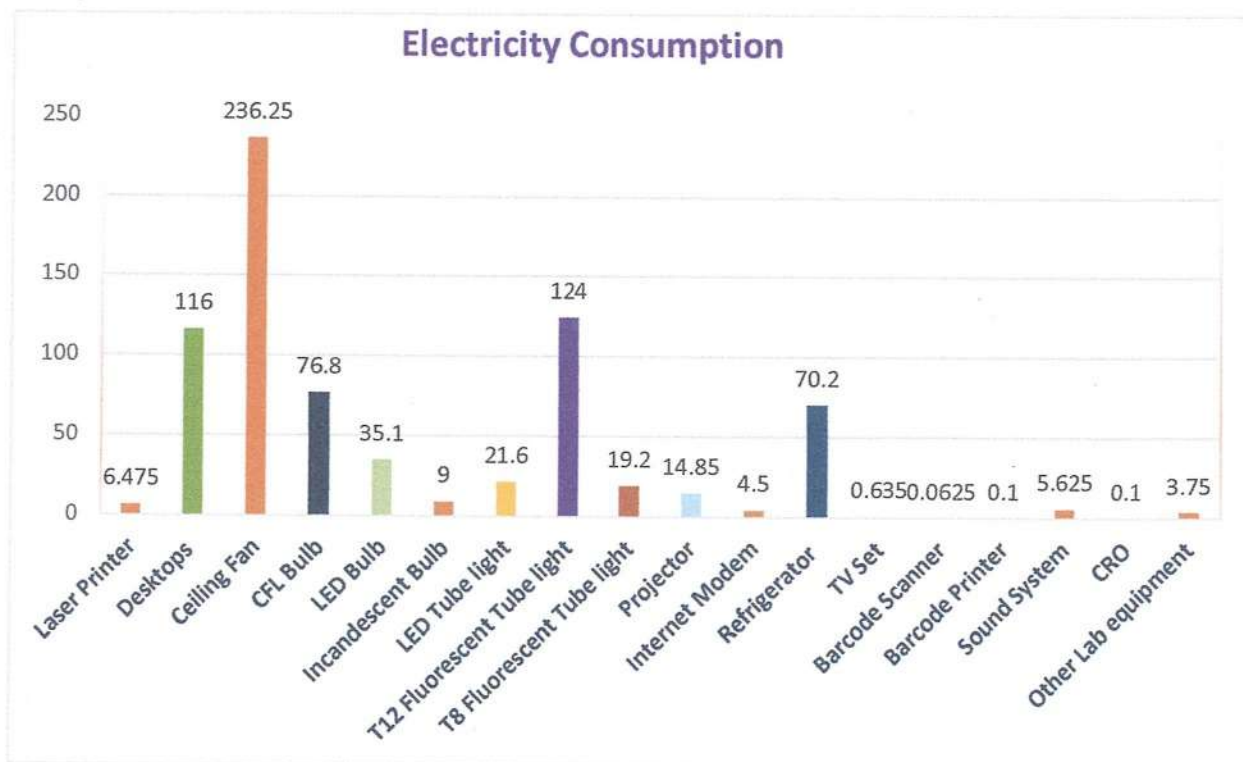
| Sr. No. | Equipment | No. of Units | Avg. Wattage/unit | Avg. Daily Use/unit (Hours) | Total Consumption (kWh/month) (25 Days/month) |
|---------|----------------------------|--------------|-------------------|-----------------------------|---|
| 1. | Laser Printer | 4 | 259 Watts | 0.25 | 6.475 |
| 2. | Desktops | 32 | 145 Watts | 1 | 116 |
| 3. | Ceiling Fan | 63 | 60 Watts | 2.5 | 236.25 |
| 4. | CFL Bulb | 16 | 32 Watts | 6 | 76.8 |
| 5. | LED Bulb | 13 | 18 Watt | 6 | 35.1 |
| 6. | Incandescent Bulb | 3 | 30 Watt | 4 | 9 |
| 7. | LED Tube light | 6 | 24 Watt | 6 | 21.6 |
| 8. | T12 Fluorescent Tube light | 31 | 40 Watts | 4 | 124 |
| 9. | T8 Fluorescent Tube light | 4 | 32 Watt | 6 | 19.2 |
| 10. | Biometric Machine | 1 | 3 Watts | Off Condition | 00.00 |
| 11. | Projector | 4 | 297 Watts | 0.5 | 14.85 |
| 12. | Internet Modem | 3 | 10 Watts | 6 | 4.5 |
| 13. | Refrigerator | 2 | 150 Watts | 6 hrs. Compressor + | 70.2 (30 Days) |



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| | | | | 18 hrs. non- compressor | |
|--------------------------------|------------------------|----|----------------------|-------------------------------|---------------------------|
| 14. | TV Set | 1 | 50 Watts | 0.5 | 0.635 |
| 15. | Barcode Scanner | 1 | 2.5 Watts | 1 | 0.0625 |
| 16. | Barcode Printer | 1 | 20 Watts | 0.2 | 0.1 |
| 17. | Sound System | 1 | 300 Watts | 0.75 | 5.625 |
| 18. | CRO | 1 | 40 Watts | 0.1 | 0.1 |
| 19. | Other Lab equipment | 10 | 15 Watt (average) | 1 | 3.75 |
| Total Power Consumption | | | | | 744.2475 kWh/month |



The major electricity consumption is done by ceiling fan which is equal to 236.25 kWh/month followed by Fluorescent Tube light (124 kWh/month) and Desktops (116 kWh/month). Other equipment consumes less electricity as their number is less. Electricity consumption in these sections can be reduced by replacing conventional tube lights and bulbs with LED bulbs/ tube light.

(Signature)

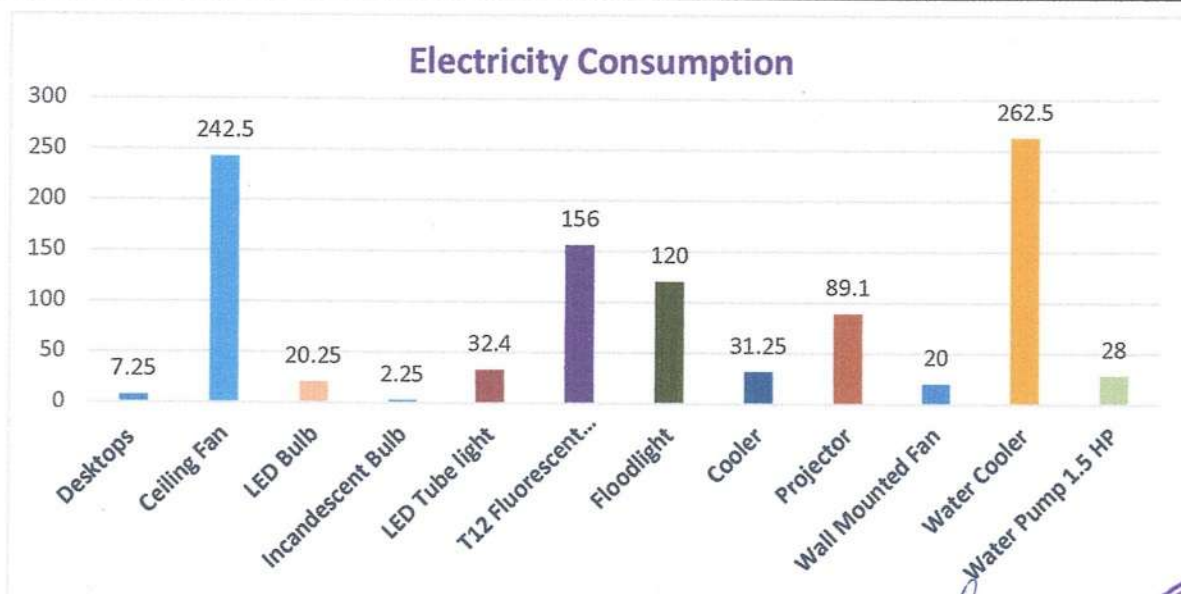

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6.0 Electricity Consumption in Classrooms, Seminar Hall, Indoor Stadium, Corridor & Ground

The details of electricity consumption in classrooms, seminar hall, indoor stadium and remaining area of the college campus is given in following table.

| Sr. No. | Equipment | No. of Units | Avg. Wattage/unit | Avg. Daily Use/unit (Hours) | Total Consumption (kWh/month) (25 Days/month) |
|--------------------------------|----------------------------|--------------|-------------------|-----------------------------|---|
| 1. | Desktops | 1 | 145 Watts | 2 | 7.25 |
| 2. | Ceiling Fan | 97 | 50 Watts | 2 | 242.5 |
| 3. | LED Bulb | 90 | 18 Watt | 0.5 | 20.25 |
| 4. | Incandescent Bulb | 1 | 30 Watt | 3 | 2.25 |
| 5. | LED Tube light | 18 | 24 Watt | 3 | 32.4 |
| 6. | T12 Fluorescent Tube light | 52 | 40 Watts | 3 | 156 |
| 7. | Floodlight | 4 | 100 Watts | 10 | 120 (30 Days) |
| 8. | Cooler | 5 | 500 Watts | 0.5 | 31.25 |
| 9. | Projector | 6 | 297 Watts | 2 | 89.1 |
| 10. | Wall Mounted Fan | 10 | 80 Watts | 1 | 20 |
| 11. | Water Cooler | 4 | 750 Watts | 3.5 | 262.5 |
| 12. | Water Pump 1.5 HP | 2 | 1.12 kW | 0.5 | 28 |
| Total Power Consumption | | | | | 1011.5 kWh/month |



(Signature)

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Majority of electricity is consumed by water cooler (262.5 kWh/month) followed by ceiling fans (291 kWh/month).

Total consumption of electricity in the college by all blocks is around **2,156 kWh/month** or **25,872 kWh/annum**. The annual energy yield of Solar PV System is **35,000 kWh**. Hence, the college is generating excess electricity than it needs and extra generated electricity has been feeding to **MSEDCL**. The data of electricity produced by the solar pv system and electricity consumption during June 2018 to September 2021 is summarized in following charts.

7.0 Total Yield Vs Total Consumption

During June 2018 to September 2020, the college has total electricity yield 67,882 kWh, whereas total electricity consumption (Internal energy supply + External energy supply) in this duration is 47,951 kWh.

Analysis - Mahatma Gandhi College Armori - Sunny Portal | Mahatma Gandhi College Armori



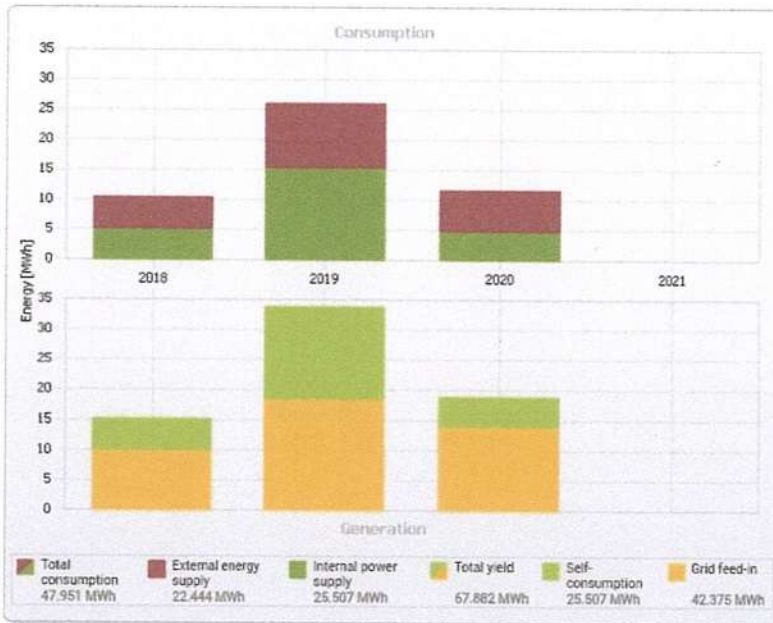
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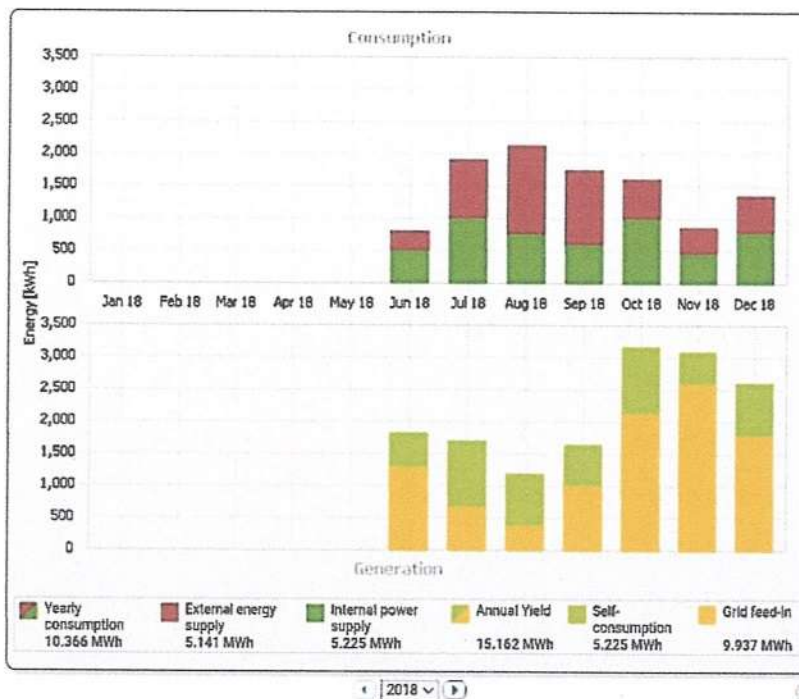
Energy Balance

Current Day Month Year **Total**



Balance

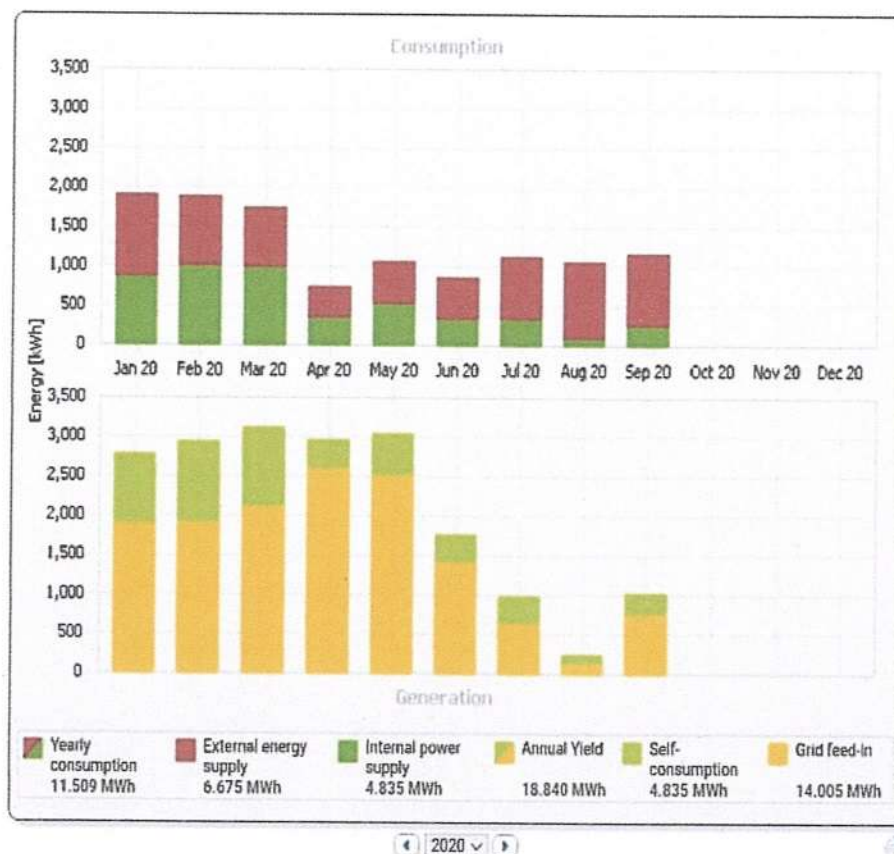
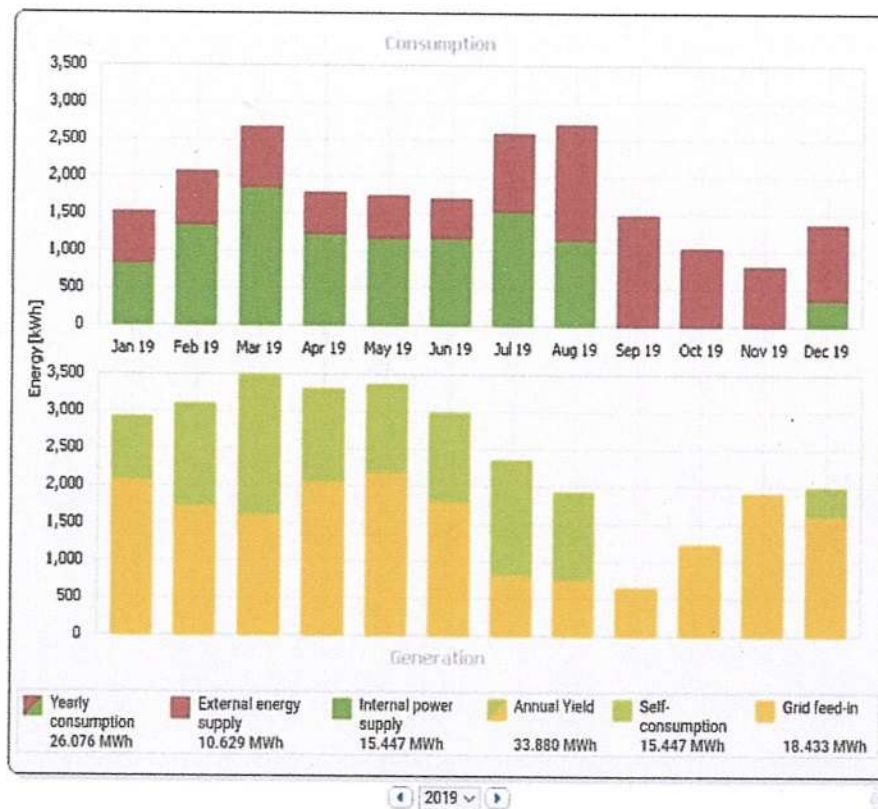
| | | | |
|------------------------|------------|-----------------------|------------|
| Total consumption | 47.951 MWh | Total yield | 67.882 MWh |
| External energy supply | 22.444 MWh | Self-consumption | 25.507 MWh |
| Internal power supply | 25.507 MWh | Grid feed-in | 42.375 MWh |
| Self-sufficiency quota | 53 % | Self-consumption rate | 38 % |



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The electricity consumption and electricity generation for last six months i.e. April 2021 to Sept. 2021 taken from MSEDCL is summarized as follows.

| SOLAR CONSUMPTION DETAILS | | | |
|---------------------------|--------------|--------------|------------------|
| Bill Month | IMPORT Units | EXPORT Units | GENERATION Units |
| SEP-2021 | 704 | 1443 | 1509 |
| AUG-2021 | 696 | 1377 | 1377 |
| JUL-2021 | 341 | 1853 | 1916 |
| JUN-2021 | 288 | 2002 | 2039 |
| MAY-2021 | 206 | 2544 | 2578 |
| APR-2021 | 869 | 2064 | 2071 |



महाराष्ट्र स्टेट इलेक्ट्रिसिटी डिस्ट्रीब्यूशन कंपनी लि.

बीज पुरवठा देयक माह: SEP-2021

Website : www.mahadiscom.in
GSTIN of MSEDCL 27AAECM2933K1ZB
BILL NO.(GGN): 000001319481440

HSN code 27160000

ग्राहक क्रमांक: 490510119522
THE PRINCIPAL M.G. VIDHYALYA HELTH C
AT-POSTARMORI DIST-GADCHIROLI ARMORI 442401
मोबाइल/ ईमेल: 78*****94/***oriurban@gmail.com

देयक दिनांक: 16-SEP-21
देयक रक्कम रु: 0.00

देय दिनांक: 06-OCT-21
या तारखे नंतर भरल्यास: 0.00

बिलिंग युनिट: 4339 :ARMORI S/DN.
दर संकेत: 073 /LT VII(B) Public Service 0-20KW Oth
पोल नं: 00000000
पी.सी./चक्र-मार्ग-क्रमांक/टी.सी.: 0 / 40-0014-0974 /4339079
मिटर क्रमांक: 055XC463498
रिडिंग ग्रुप: 00

पुरवठा दिनांक: 10-Jan-07
मंजूर भार: 18 KW
सुरक्षा ठेव जमा(रु): 18,130.00
चालू रिडिंग दिनांक: 10-SEP-21
मागील रिडिंग दिनांक: 10-AUG-21

| चालू रिडिंग | मागील रिडिंग | गुणक अवयव | युनिट | समा. युनिट | एकूण |
|-------------|--------------|-----------|-------|------------|------|
| 31072 | 30368 | 01 | 704 | -704 | 0 |

NORMAL
Bill Period:1.03 Month(s) /

MSEDCL Bill for the Month of September 2021

The data is also collected from the solar meter installed in the college and electricity bill of MSEDCL. From the meter reading, total electricity yield by the solar PV system from June 2018 up to September 2021 is 90666 kWh; the electricity consumption from external energy supply (MSEDCL) in this duration is 31,072 kWh whereas electricity consumption from internal (solar) power supply is 31,905 kWh. Hence, the total




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electricity consumption by the college in this duration is 62,977 kWh. Therefore, the Rooftop Solar PV System has generated 27,689 kWh excess electricity which is exported to MSEDCL for community use.

8.0 Environment Conservation

The college has been producing electricity by renewable energy source i.e. Solar PV System with annual production of approximately 35,000 kWh. The college not only become energy self-sufficient but also provide approximately 10,000 kWh electricity annually to the community through MSEDCL.

Benefits of Solar PV System installed in the college campus are as follows:

- ♦ Use of green energy source do not produce greenhouse gas emission which reduces air pollution.
- ♦ The installed Solar PV System in the college decreases approximately 24.8 Metric Tons per annum CO₂ emission in the environment.
- ♦ It reduces hazardous toxic waste that would be produced from thermal power plant or nuclear power plant.
- ♦ It reduces consumption of water.

The carbon dioxide-equivalent greenhouse gas emissions data is calculated by using calculator provided on the website of US Environmental Protection Agency (EPA). Other equivalent ways to express those emissions are also presented.

The screenshot shows the EPA Greenhouse Gas Equivalency Calculator interface. The 'If You Have Emissions Data' tab is selected. The input field for 'kilowatt-hours of electricity' contains the value 35000. A green 'Calculate' button is visible. Below the input fields, the 'Equivalency Results' section displays '24.8 Metric Tons' as the result. It also provides a breakdown of emissions: 5.4 from 'Passenger vehicles driven for one year' and 62,337 from 'Miles driven by an average passenger vehicle'.

| Category | Value |
|--|--------|
| Passenger vehicles driven for one year | 5.4 |
| Miles driven by an average passenger vehicle | 62,337 |

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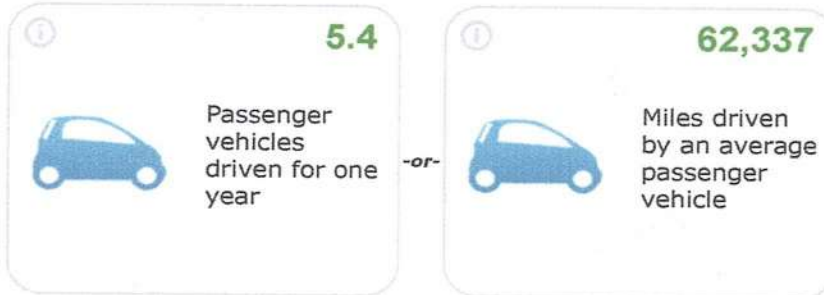
Equivalency Results

[How are they calculated?](#)

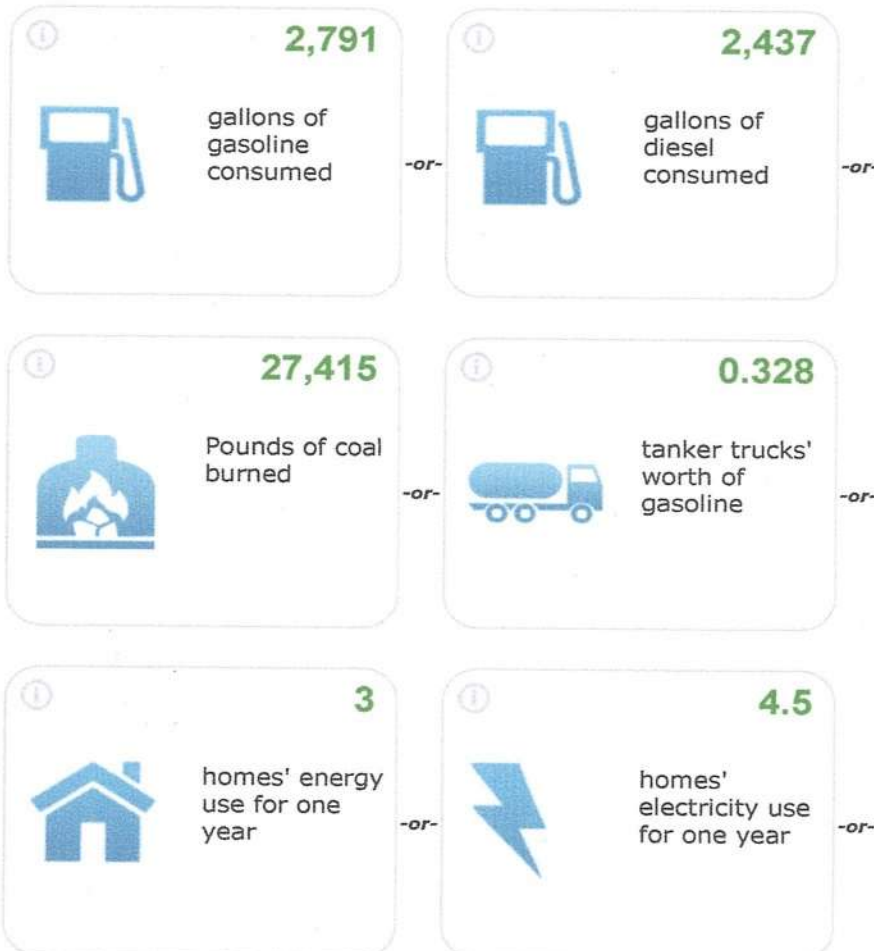
The sum of the greenhouse gas emissions you entered above is of Carbon Dioxide Equivalent. This is equivalent to:

24.8 Metric Tons

Greenhouse gas emissions from



CO₂ emissions from

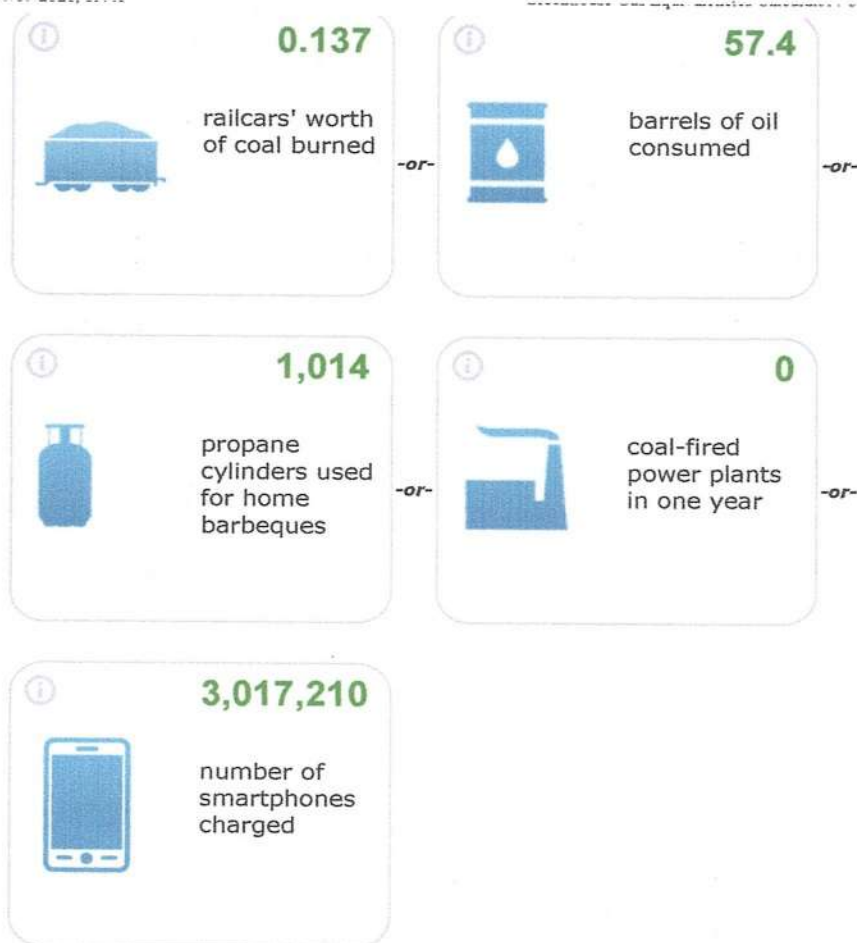


<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>



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Greenhouse gas emissions avoided by



<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

Chung

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Solar PV System installed on the College Rooftop

9.0 Recommendations

The college has become energy self-sufficient due to installation of Solar PV System and supplying extra electricity to community through MSEDCL. Still some of the recommendations are given bellow to reduce electricity consumption.

- * Old Fluorescent Tube Lights can be replaced by LED lights to reduce electricity consumption.
- * Old Desktops and instruments can be replaced with ones having energy efficient certification.
- * Old Ceiling fans can also be replaced by energy efficient fans.
- * Switch off equipment when they are not in use.
- * Replace faulty equipment.

Dr. C. D. Mungmode
Department of Physics



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S.T.D.: 07137

Office: 266558/266043

Fax : 266558

E-mail: mgcollege.armori@gmail.com

Letter No. 501/17

Date 29/08/2017

To,

MR. SHRIPAL KHAIJANCHI

FORTUNE ENERGY SOLUTION LLP

101, Rajmandini, Khare Town

Dharampeth, Nagpur (MS)

**Subject: Work Order for Supply, install, testing and commissioning of on-Grid solar
PV rooftop power plant at our institution campus.**

Dear Sir,

With reference to your proposal dt. 09/07/2017, the Purchasing Committee of the institution in its meeting has approved your proposal with that effect the following work order is made as per the financial proposal, general terms and condition were mentioned and the discussion.

So you are requested to supply and install the following components as per mentioned in technical specification in a due time period upto 10th November 2017.

| | | |
|---|---|-------------------|
| 1 | PV module and Quantity | 95x265 Wp Mono |
| 2 | System size / price summary | 25.175 kWp |
| 3 | Annual energy yield kWh | 35000 kWh |
| 4 | Supply as per the specification in technical proposal | 1888125 |
| 5 | Price per watt peak | 75.00 |
| 6 | Price Per Kilo Watt Peak | 75000 |
| | Total | 1888125.00 |

Service Support: Onsite, Telephonic, Internet, on lineduring warranty. You are requested to immediately depute person for training & installation.




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Fortune Energy Solution LLP

Save Energy, Save Money, Live Happily.

Authorized Distributor of Kirloskar Solar Pumps for Vidarbha.

EPC in On Grid, Off Grid Solar Power Plant and

Kirloskar Solar Water Pumping System.



Enriching Lives

KIRLOSKAR BROTHERS LIMITED

| | | | |
|---|---------------------------------|-----------------------|---|
| 6 | AC Cables | Polycab | Four core 16 sq mm aluminium armoured cables as per site requirement. |
| 7 | Module Mounting Structures | Full rail aluminium. | Anodized Aluminium, with S.S. Nut and Bolts. |
| 8 | Earthing & Lightning Protection | OBO Betterman Germany | 15 years Manufacturer warranty, Dedicated for Inverter, PV Module with M.M.S. & Lighting. |
| 9 | Online Monitoring System | SMA Home Manager 2.0 | Includes software for monitoring of Generation of all Inverters. |

5. Financial Proposal:

5.1 On-Grid System:

Price for design, supply, installation, testing & commissioning (Turn Key) :

| | |
|---|-------------------|
| PV Module & Quantity | 95 x 265 Wp Mono. |
| System Size / Price Summary | 25.175 kWp |
| Annual energy yield kWh | 35000 kWh |
| Supply as per the specification in technical proposal | 1888125 |
| Price Per Watt Peak | 75.00 |
| Price Per Kilo Watt Peak | 75000 |
| Total | 1888125 |

*GST @ 5% will be extra in above price.

Prices are quoted with consideration of Installation at Your collage on RCC roof.

Payment Schedule:

- 55% advance on release of purchase order.
- 40% before despatch of modules from our warehouse (on Proforma Invoice)
- 5% After commissioning of the system.

| | |
|-------------|--|
| Exclusions: | Computer (for generation monitoring), internet connectivity and related hardware |
| | Construction water and power. |

6. Terms & Conditions:

6.1 General Terms:

- Validity: This proposal will remain valid for 30 days from the date of issue
- Delivery & Installation: Delivery of material at site will be 2 weeks from the date of purchase order and release of advance. Installation will be dependent on the conditions available at the site or as per the agreement with customer during the issue of purchase order.
- Installation & Commissioning: Free
- Warranties & Guarantees: As per respective manufacturer warranty and guarantee
- The PV systems will have 365 days' warranty from date of Installation and Commissioning.
- 20 kVa Load Extension and Net Metering will be our scope of work. Security Deposit for Meter will be extra as actual.

20G - DHIRAJ'S 01, Rajnigandha, Khare Town, Dharampeth, Nagpur - 440010.

2021, 16:07

Mobile 9422151123, 9763410000. E-mail - info@fortuneenergysolution.com



[Signature]
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Science & Late
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Armod, Dist - Gadchiroli



Maharashtra State Electricity Distribution Co. Ltd.

Consumer Information

| | |
|----------------------------------|--|
| Application ID | 14261918 |
| Application Date | 10-Jan-18 |
| Consumer No | 490510119522 |
| Sanctioned Load | .2 KW |
| Contract Demand (KVA) | 0 KVA |
| Consumer Name | THE PRINCIPAL M.G. VIDHYALYA HELTH C M.G. VIDHYALYA HEALTH C |
| Address | AT-POST:ARMORI DIST-GADCHIROLI AT-POST:ARMORI ARMORI 442401 |
| Mobile No | 9403235866 |
| Email Address | |
| Consumer Category | Public Services |
| Service Type | Renewable Energy Sources |
| Supply Type | LT-SUPPLY |
| RE Source | Solar |
| RE Capacity (KW) | 20 |
| Scheme Name | |
| Arrangement Type | |
| Total Applied RE Capacity | 20 KW |
| Applied Chronology | |
| No of Documents Online Uploaded. | 0 |
| Application Status | Meter Assignment Approved (Paid Offline) |
| Region Name/Zone Name | NAGPUR REGION / CHANDRAPUR ZONE |
| Circle Name/Division Name | GADCHIROLI CIRCLE / GADCHIROLI DIVISION |
| Sub Division Name/BU | ARMORI S/DN. / 4339 |

Firm Quotation / Demand Note

| Estimate No | Estimate Date | Type |
|-------------|---------------|------|
| 9491449 | 17-Jan-18 | LT |

| Description | Amount (Rs.) |
|----------------------------|---------------|
| FIRST SECURITY DEPOSIT | 10000 |
| GOODS AND SERVICE TAX | 27 |
| PROCESSING FEE | 100 |
| SERVICE CONNECTION CHARGES | 50 |
| | Total : 10177 |



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8/25/2021

Solar RTS Status

Maharashtra State Electricity Distribution Co. Ltd.

NEW CONNECTION SOLAR ROOFTOP CHANGE OF NAME LOAD CHANGE RE-CONNECTION ADDRESS CORRECTION SD REFUND INSTALL

CHECK SOLAR RTS APPLICATION STATUS , PAY FIRM QUOTATION / DEMAND NOTE AND UPLOAD DOCUMENTS.

Search

Search By : Consumer Number ▼

Application Type : ☒ Rooftop ☐ Rooftop Solar PV
Solar PV Enhancement

Consumer Number: 490510119522

9Y6DZY

Enter the above characters in the box.

XSRF8Q

Submit Reset

| Consumer Information | |
|----------------------------------|--|
| Application ID | 14261918 |
| Application Date | 10-Jan-18 |
| Consumer No | 490510119522 |
| Sanctioned Load | 2 KW |
| Contract Demand (KVA) | 0 KVA |
| Consumer Name | THE PRINCIPAL M.G. VIDHYALYA HELTH C M.G. VIDHYALYA HEALTH C |
| Address | AT-POST:ARMORI DIST-GADCHIROLI AT-POST:ARMORI ARMORI 442401 |
| Mobile No | 9403235866 |
| Email Address | |
| Consumer Category | Public Services |
| Service Type | Renewable Energy Sources |
| Supply Type | LT-SUPPLY |
| RE Source | Solar |
| RE Capacity (KW) | 20 |
| Scheme Name | |
| Arrangement Type | |
| Total Applied RE Capacity | 20 KW |
| Applied Chronology | |
| No of Documents Online Uploaded. | 0 |
| Application Status | Meter Assignment Approved (Paid Offline) |
| Region Name/Zone Name | NAGPUR REGION / CHANDRAPUR ZONE |
| Circle Name/Division Name | GADCHIROLI CIRCLE / GADCHIROLI DIVISION |
| Sub Division Name/BU | ARMORI S/D.N. / 4339 |


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Firm Quotation / Demand Note

8/25/2021

Solar RTS Status

| Estimate No | Estimate Date | Type | Description | Amount (Rs.) |
|-------------|---------------|------|----------------------------|--------------|
| 9491449 | 17-Jan-18 | RT | FIRST SECURITY DEPOSIT | 10000 |
| | | | GOODS AND SERVICE TAX | 27 |
| | | | PROCESSING FEE | 100 |
| | | | SERVICE CONNECTION CHARGES | 50 |
| | | | Total : | 10177 |

Print

Receipt Details

| Description | Number | Date | Amount (Rs.) |
|-------------------------|----------|-----------|---------------|
| SERVICE CONNECTION CHRG | 01042976 | 17-Jan-18 | 50 |
| PROCESSING FEES | 01042976 | 17-Jan-18 | 100 |
| GOODS AND SERVICE TAX | 01042976 | 17-Jan-18 | 27 |
| FIRST SECURITY DEPOSIT | 01042976 | 17-Jan-18 | 10000 |
| | | | Total : 10177 |

Print Receipt

Technical Feasibility Information

| | |
|-------------------------------|-----------|
| DTC Code | 4339079 |
| Tech Feasibility Done Date | 12-Jan-18 |
| RE Generation Sanctioned Date | |
| Latitude | |
| Longitude | |
| Sanctioned RE Capacity | 0 KW |

Commission Documents Upload

Meter Assignment Information

| | |
|-------------------------------|-----------|
| Meter Serial No. | XC463498 |
| Meter Receipt Date | 15-May-18 |
| Install Date | 18-May-18 |
| Supply Date | 18-May-18 |
| Meter Make | 085 |
| Meter Make Name | Secure |
| RE Generating Commission Date | |
| Solar Agreement Date | |
| Solar Appc Rate | |

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8/25/2021

View RE Consumption



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Web Self Service Home > View RE Consumption

View RE Consumption

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Name/Password?

View/Pay Bill

Consumption Calculator

Energy Bill Calculator

New Connection Request

Complaint Registration

Complaint Status

Submit Reading

View HT Consumer Info

View RE Consumption

Track Status, Upload
Documents and Pay
Charges*Online Payment of Other
Charges*Register / Update Mobile
number, Email, Aadhar
number, TDS and PAN No
New

Below details are only for information purpose

Indicates a required field

Solar Consumer Number* 490510119522

Submit

Clear

HSEDC SOLAR CONSUMER STATIC INFORMATION

Consumer No. : 490510119522
 Consumer Name : THE PRINCIPAL M.G. VIDHYALYA HELTH C
 Address : AT-POSTARMORI
 DIST-GADCHIROLI
 Pin Code : 442401
 Circle: GADCHIROLI CIRCLE
 Division : GADCHIROLI DIVISION
 SubDivision: ARMORI S/DN.
 Meter No. : 055-XC463498
 Tariff : 073/ LT-X B 1 0-20KW Pub Ser oth
 Contract Demand(KVA) : 0
 Sanctioned Load(KW) : 18
 RE Arrangement Type : Net Metering Arrangements
 RE Capacity(KW) : 18
 Date of Connection : 10-JAN-2007

SOLAR CONSUMPTION DETAILS

| Bill Month | IMPORT Units | EXPORT Units | GENERATION Units |
|------------|--------------|--------------|------------------|
| AUG-2021 | 696 | 1377 | 1377 |
| JUL-2021 | 341 | 1853 | 1916 |
| JUN-2021 | 288 | 2002 | 2039 |
| MAY-2021 | 206 | 2544 | 2576 |
| APR-2021 | 869 | 2064 | 2071 |
| MAR-2021 | 1275 | 347 | 366 |

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ZERO ELECTRIC BILL



Maharashtra State Electricity Distribution Company Limited

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Energy Bill

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Name/Password?

View/Pay Bill

Consumption Calculator

Energy Bill Calculator

New Connection Request

Complaint Registration

Complaint Status

Submit Reading

View HT Consumer Info

View RE Consumption

Track Status, Upload
Documents and Pay
Charges

*Online Payment of Other
Charges

*Register / Update Mobile
number, Email, Aadhar
number, TDS and PAN No
New



Maharashtra State Electricity Distribution Co. Ltd.

BILL OF SUPPLY FOR THE MONTH OF Dec 2021 000001416303520
GSTIN: 27AA ECM2933K12B

GADCHIROLI CIRCLE:655

GADCHIROLI DIVISION : 643

HSN CODE: 27160000

ARMORI S/DN.: 339

| | | | | |
|--------------------------------|---|--------------------------------------|--------------------------------|----------------------------|
| Consumer No. : | 490510119522 | BILL DATE | 13-12-2021 | 0.00 |
| Consumer Name : | THE PRINCIPAL M.G. VIDHYALYA HELTH CLUB | DUE DATE | 03-01-2022 | |
| Address : | AT-POST:ARMORI DIST-GADCHIROLI | IF PAID UPTO | | |
| | | IF PAID AFTER | 03-01-2022 | 0.00 |
| | | Last Receipt No./Date | /27-05-2019 | |
| | | Last Month Payment | 00 | |
| Village : | ARMORI | Scale / Sector | | Large Scale/Private Sector |
| Email ID : | arm*****@gmail.com | Activity : | | |
| Mobile No. : | 78*****94 | Meter No.: | 055-XC463498 | Seasonal : N |
| Tariff : | 073 LT-X B I O- 20KW Pub Ser oth | Connected Load (KW): | 18 KW | Urban/Rural Flag : R |
| Contract Demand (KVA) : | 0.00 | 50% of Con. Demand(KVA) : | 0.00 | Express Feeder Flag : N |
| Sanctioned load (KW) : | 18 KW | Feeder Voltage (KV) : | 11 | LIS Indicator : |
| DTC : | 4339079 | PC-MR-ROUTE- SEQ : | 00-40-0014- 0974 | BU : 4339 |
| | | | | PC : 0 |
| Date of Connection : | 10-01-2007 | Category : | LT-X B I O-20KW Pub Ser oth | GSTIN : |
| Supply at : | LT | Elec. Duty : | 02 | PAN : |
| Prev. Highest (Mth) : | | Prev. Highest Bill Demand (KVA) : | | |
| Security Deposit Held Rs. : | 18,130.00 | Addl. S.D. Demanded Rs. : | 00.00 | |
| Bank Guarantee Rs. : | 0.00 | S.D. Arrears Rs. : | 00.00 | |

BILLING HISTORY

| Bill Month | Consumption (Units) | Bill Demand (KVA) | Bill Amount |
|------------|---------------------|-------------------|-------------|
| Nov 2021 | 0 | 0 | 373 |
| Oct 2021 | 0 | 0 | 373 |
| Sep 2021 | 0 | 0 | 373 |
| Aug 2021 | 0 | 0 | 373 |
| Jul 2021 | 0 | 0 | 373 |
| Jun 2021 | 0 | 0 | 373 |
| May 2021 | 0 | 0 | 373 |
| Apr 2021 | 0 | 0 | 366.73 |
| Mar 2021 | 0 | 0 | 362 |
| Feb 2021 | 0 | 0 | 362 |
| Jan 2021 | 0 | 0 | 362 |
| Dec 2020 | 0 | 0 | 362 |

CUSTOMER CARE Toll Free No.

**1912, 1800-102-3435,
1800-233-3435**

Rule & Procedure for Consumer Grievances Redressal is available at www.mahadiscom.in > consumer portal > CGRF Instead of Printed bill, register for E-bill and avail Rs. 10 per bill as a "Go-green" discount. For registration visit at www.mahadiscom.in > consumer portal > Quick access > Go-green request

For making Energy Bill Payment through RTGS/NEFT mode, use following details

- Beneficiary Name: **MSEDCL**
- Beneficiary Account Number: **MSEDCL01490510119522**
- IFS Code: **SBIN0008965**
- Name of Bank: **STATE BANK OF INDIA**
- Name of Branch: **IFB BKC**
- Bill Amount: **0.00**

Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

CURRENT CONSUMPTION DETAILS

| Reading Date | KWH | KVAH | RKVAH (LAG) | RKVAH (LEAD) | KW (MD) | KVA (MD) |
|---------------------|-----------|-------|-------------|--------------|---------|----------|
| Current 10-12-2021 | 33490.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Previous 09-11-2021 | 32639.000 | 0.000 | 0.000 | 0.000 | | |
| Difference | 851.000 | 0.000 | 0.000 | 0.000 | | |
| Multiplying Factor | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Consumption | 851.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LT Metering | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Adjustment | -851.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Assessed Consump | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total Consumption | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

BILLING DETAILS

| | | | | | |
|---|--------|------------|-------------|------------------------------|-----------------------------|
| Billed Demand (KVA) | 0 | @ Rs. | 373 | Demand Charges | 373.00 |
| Assessed P.F. | | Avg. P.F. | 0.000 | Wheeling Charge @ 01.38 | 00.00 |
| Billed P.F. | 0.000 | L.F. | | Energy Charges | 00.00 |
| Consumption Type | Units | Rate | Charges Rs. | TOD Tariff EC | 00.00 |
| Industrial | 0 | 0.00 | 0.00 | FAC @ 00.00 Ps/U | 00.00 |
| Residential | 0 | 0.00 | 0.00 | Electricity Duty (16.00 %) | 00.00 |
| Commercial | 0 | 0.00 | 0.00 | Other charges | 00.00 |
| E.D. on(Rs) | Rate % | Amount Rs. | | Tax on Sale @ 18 Ps/U | 00.00 |
| 0.00 | 0 | 0.00 | | P.F. Penal Charges/P.F. Inc. | 00.00 |
| 0.00 | 0 | 0.00 | | Charges For Excess Demand | 00.00 |
| 373 | 16 | 0.00 | | Debit Bill Adjustment | 00.00 |
| TOD Zone | Rate | Units | Demand | Charges Rs. | TOTAL CURRENT BILL |
| 2200 Hrs-0600 Hrs | 0.00 | 0 | 0.00 | 00.00 | 373.00 |
| 0600 Hrs-0900hrs & 1200 Hrs-1800 Hrs | 0.00 | 0 | 0.00 | 00.00 | Current Interest 09-12-2021 |
| 0900 Hrs - 1200 Hrs | 0.00 | 0 | 0.00 | 00.00 | 00.00 |
| 1800 Hrs-2200 Hrs | 0.00 | 0 | 0.00 | 00.00 | Principle Arrears |
| | | | | | -72,503.34 |
| | | | | | Interest Arrears |
| | | | | | 00.00 |
| | | | | | Total Bill (Rounded) Rs. |
| | | | | | -72,130.00 |
| | | | | | Delayed Payment Charges Rs. |
| | | | | | 0.00 |

| | | | | | | | | | |
|--------------------------------------|---------------------------|------------------|---------------------------|-----------------|----------------------------|----------|-------------------------------------|------------------|----------|
| | | | | | | | Amount Rounded to Nearest Rs.(10/-) | | 0.00 |
| SOLAR NET METER CONSUMPTION DETAILS | | | | | | | | | |
| SOLAR TARIFF | IMPORT | | | EXPORT | | | GENERATION | | |
| | CURRENT READING | PREVIOUS READING | Units | CURRENT READING | PREVIOUS READING | Units | CURRENT READING | PREVIOUS READING | Units |
| 0000 Hrs-0600 Hrs& 2200 Hrs-2400 Hrs | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 |
| 0600 Hrs-0900 Hrs& 1200 Hrs-1800 Hrs | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 |
| 0900 Hrs - 1200 Hrs | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 |
| 1800 Hrs-2200 Hrs | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 | 00.00 |
| TOTAL | 33,490.00 | 32,639.00 | 851.00 | 62,066.00 | 60,599.00 | 1,467.00 | 66,785.00 | 65,239.00 | 1,546.00 |
| Offset: 851.00 | Previous Banked: 9,412.00 | | Current Banked: 10,028.00 | | Banking Charge Unit: 00.00 | | | Billed: 00.00 | |

As per MERC order dt.24/02/2021, Monthly energy bill receipt in cash is limited to Rs.5000/- w.e.f 01/11/2021.
In case of energy bill paid through NEFT / RTGS, date of amount credited in MSEDCL bank account will be considered as bill payment date.
As per MERC order for Case No 322 of 2019 revised Cheque Bounce charges of Rs. 750 plus GST or Bank charges whichever is higher will be applicable from 01 April 2020.
Message: Rooftop Solar Units:-
Export:1467,Import:851,Adjusted:851,Bank:10028/Previous Bill Prompt Payment Credit (Rs.): -3.73/
For Any Payment to MSEDCL, ENSURE & INSIST for computerised receipt with unique system generated receipt number. Do not accept handwritten receipts. Pay online to avoid any inconvenience.
As per Income Tax provision vide section 269 ST cash receipt of Rs.2.00 lakhs and above will not be accepted by MSEDCL against any type of Payment.
Prev Prompt Payment Credit:-3.73
As per MTR order (322/2019) revised tariff for FY 2021-22 is effective from 01.04.2021.

DPC:0.00
After this date: 03-01-2022

Pay **Rs. 0.00**

[Pay Now](#)

Prompt Payment Discount: Rs. 0.00 , if bill is paid on or before 20-12-2021

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[New Connection Request](#)
[Complaint Registration](#)
[Complaint Status](#)
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[Track Status, Upload Documents and Pay Charges](#)
[*Online Payment of Other Charges](#)
[*Register / Update Mobile number, Email, Aadhar number, TDS and PAN No](#)

Below details are only for information purpose * indicates a required field

Solar Consumer Number*

[Submit](#) [Clear](#)

MSEDCL SOLAR CONSUMER STATIC INFORMATION


| | |
|------------------------|---|
| Consumer No. : | 490510119522 |
| Consumer Name : | THE PRINCIPAL M.G. VIDHYALYA HELTH CLUB |
| Address : | AT-POST:ARMORI DIST-GADCHIROLI |
| Pin Code : | 442401 |
| Circle: | GADCHIROLI CIRCLE |
| Division : | GADCHIROLI DIVISION |
| SubDivision: | ARMORI S/DN. |
| Meter No. : | 055-XC463498 |
| Tariff : | 073/ LT-X B I 0-20KW Pub Ser oth |
| Contract Demand(KVA) : | 0 |
| Sanctioned Load(KW) : | 18 |
| RE Arrangement Type : | Net Metering Arrangements |
| RE Capacity(KW) : | 18 |
| Date of Connection : | 10-JAN-2007 |

SOLAR CONSUMPTION DETAILS

| Bill Month | IMPORT Units | EXPORT Units | GENERATION Units |
|------------|--------------|--------------|------------------|
| DEC-2021 | 851 | 1467 | 1546 |
| NOV-2021 | 750 | 1840 | 1887 |
| OCT-2021 | 817 | 960 | 1019 |
| SEP-2021 | 704 | 1443 | 1509 |
| AUG-2021 | 696 | 1377 | 1377 |
| JUL-2021 | 341 | 1853 | 1916 |

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Main Road, DESAIGANJ (Wadsa)

9

21/8/2021

m. s. collage Armon

For/ Alfa Elect.

Multitask Solutions

12, Reshimbag, Umrer Road,
Nagpur-440009 Ph. 9890929725

INVOICE

| DM No. : | Date : | No. : 11/16-17 | | |
|--|---|---|-----|---------------|
| M/s : To, The Principal, Mahatma Gandhi Arts Science & Late N.P. Commerce College, Armori, Gadchiroli, Maharashtra | | Date : 10-02-2017 | | |
| Sr. No | Particulars | Rate | Qty | Amount |
| 1) | K-YAN INTEGRATED COMMUNITY COMPUTER K-YAN PRO STANDERD | 1,87,750.00/- | 1 | 1,87,750.00/- |
| | (6% Vat) | | | 11,265.00/- |
| <p>Bill By Multitask Solutions 12, Reshimbag, Umrer Road, Nagpur- 440009 (Maharashtra) TIN VAT NO. 27691069042V DT. 25.06.2014 CST TIN NO. 27691069042C Bank Indusind Bank C/Ac No 2009996661040, Dhantoli Branch, IFSC Code INDB0000547</p> | | <p>Amount In Words:- One Lac Ninenty Nine Thousand Fifteen Rupees only</p> <p>Goods once sold cannot be taken back. Our responsibility ceases the moment the goods leaves your premise and no claim of breakage etc. will be accepted claim if any settled in Nagpur. Interest @ 24% will be charge no bill if not paid within one month. If payment not received in a month we have rights to take back goods paying advance money. Please make payment in favour of "Multitask Solutions " NAGPUR</p> | | |
| Total | | 1,99,015.00/- | | |
| <p>Multitask Solutions Principal For Multitask Solutions</p> | | <p>Multitask Solutions Principal For Multitask Solutions</p> | | |




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Gadchiroli, Dist. Gur.

Environmental Consciousness and Sustainability

7.1.4 Percentage of annual lighting power requirements met through LED bulbs (Current Year data) (1)

| Total Lighting requirements | Percentage Lighting through LED bulbs | Percentage Lighting through other sources |
|-----------------------------|---------------------------------------|---|
| 6372 kWh | 1507 kWh (23.64 %) | 4865 kWh (76.36 %) |




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Environmental Consciousness and Sustainability (Current Year data)

7.1.2 Alternate Energy initiatives such as:

Percentage of annual power requirement of the Institution met by the renewable energy sources

Date:16-Sept-2021

| Power requirement met by renewable energy sources | Total power requirement | Renewable energy source | Renewable energy generated and used | Energy supplied Wheeling to the grid |
|---|-------------------------|-------------------------|-------------------------------------|--------------------------------------|
| 25.507 MWh | 47.951 MWh | 67.882 MWh | 25.507 KWh | 42.375 MWh |




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