



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 3.24 CGPA**

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## **ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2022-23**

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### **CRITERION – VII INSTITUTIONAL VALUES & BEST PRACTICES**

**METRIC NO: ~ 7.1.2.**

**METRIC NAME: ~ *The Institution has facilities for alternate sources of energy and energy conservation measures***



Web: - [mgcollegearmori.ac.in](http://mgcollegearmori.ac.in)  
e-mail: - [mgcollege.armori@gmail.com](mailto:mgcollege.armori@gmail.com)  
Phone: - 07137-266558



MANOHAR BHAJI SHIKSHAN PRASARAK MANDAL ARMORI'S  
**MAHATMA GANDHI ARTS, SCIENCE &  
LATE NASARUDDIN BHAJI PANJWANI COMMERCE COLLEGE**



ARMORI Dist. Gadchiroli (M.S.) 441 208  
Affiliated to Gondwana University, Gadchiroli  
Re-accredited by NAAC 'A' with 3.24 CGPA(2022)  
Web: mgcollegearmori.ac.in

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Principal & IQAC Chairman  
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Dr. Satish. S. Kola  
IQAC Coordinator  
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E-mail: [satish.kolawar@gmail.com](mailto:satish.kolawar@gmail.com)

## Certificate of Verification

The document herewith is a testimonial of the following specifics;


- AQAR 2022-23
- Criterion - VII (Institutional Values & Best Practices)
- Metric no. – 7.1.2
- Metric Particular - Facilities for alternate source of energy and energy conservation measures.

It is affirmed that the attached document pertinent to the above cited specifics are duly verified and approved by the IQAC.

  
Criterion Head

  
IQAC Coordinator

**IQAC-Co-ordinator**

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



**CRITERION – VII**  
**INSTITUTION VALUES & BEST PRACTICES**

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





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



**Prepared by**  
**Department of Physics**  
**M. G. Arts, Science & Late N. P.**  
**Commerce College, Armori**



## CONTENTS

1.0	Introduction
2.0	Objective
3.0	Methodology Adopted
4.0	Electricity Consumption in Administrative Offices
5.0	Electricity Consumption in Departments, Laboratories, Library and IQAC
6.0	Electricity Consumption in Classrooms, Seminar Hall, Indoor Stadium, Corridor & Ground
7.0	Total Yield Vs Total Consumption
8.0	Environment Conservation
9.0	Recommendations

## **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.

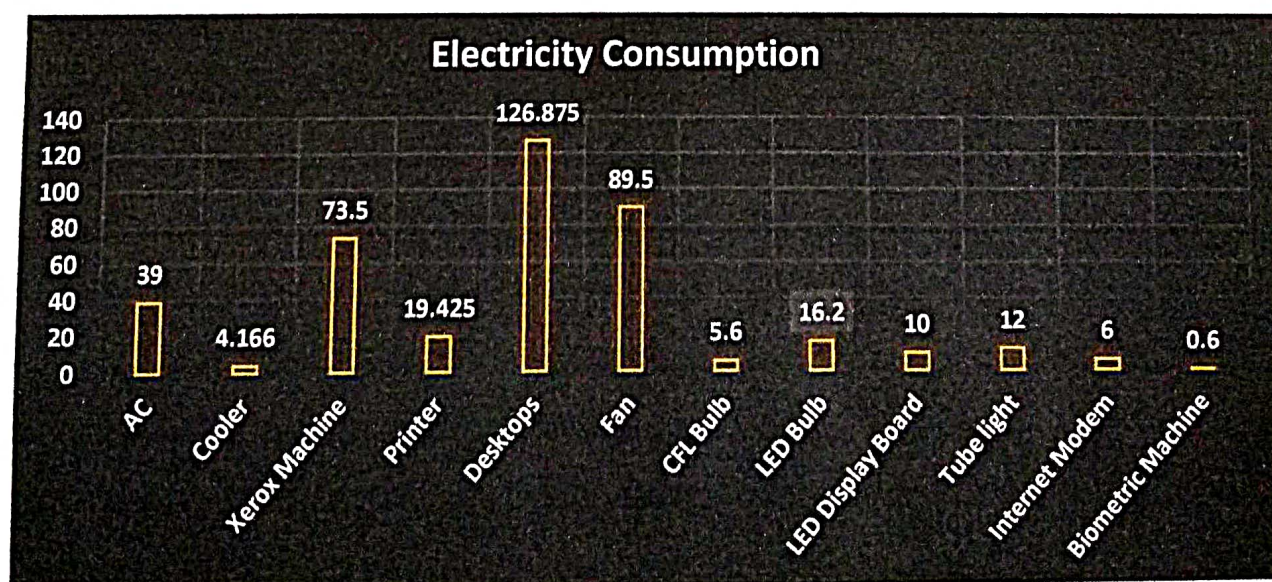
## **3.0 Methodology Adopted:**

- 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.

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	3	10 Watts	8	6
<b>Total Power Consumption</b>					<b>402.866 kWh/month</b>





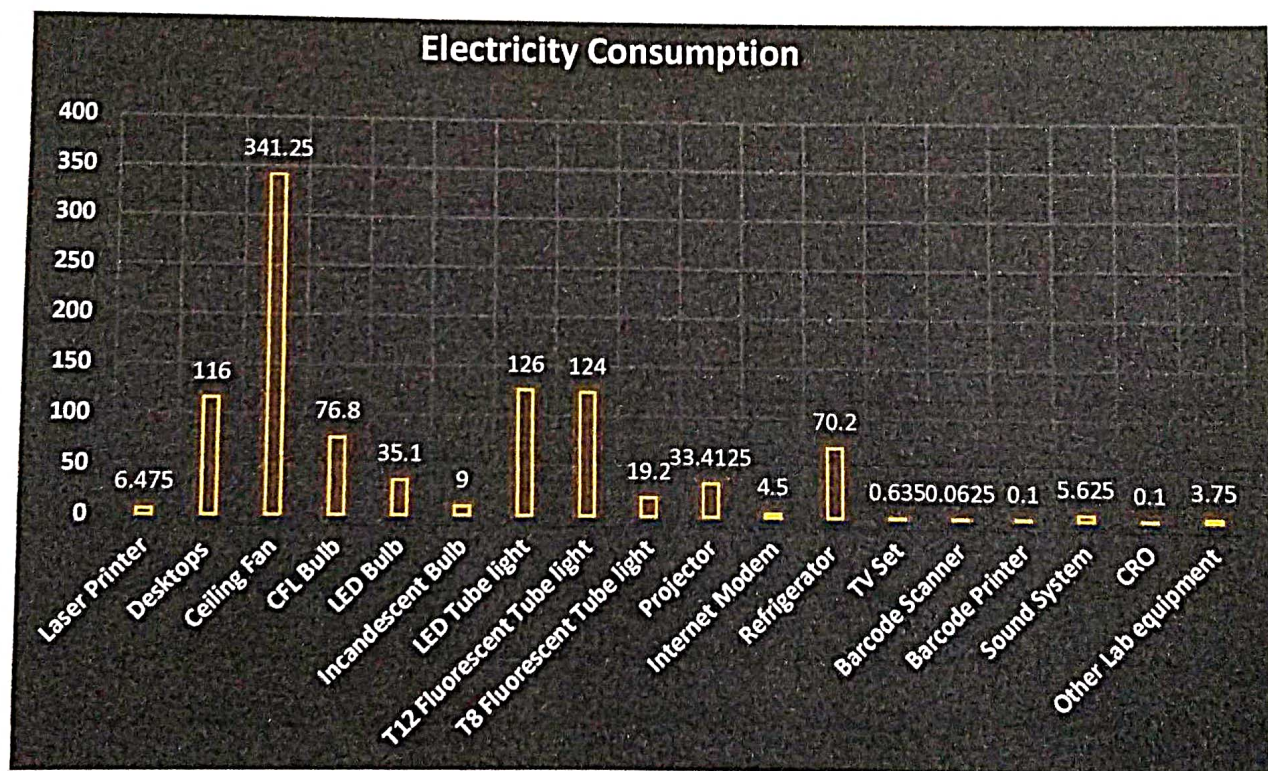
The electric equipment in Administrative Offices consume about 402.866 kWh electricity per month. The major electric is consumed by Desktops i.e. 126.875 kWh/month followed by ceiling fans (84 kWh/month) and Xerox machine (73.5 kWh/month). Other equipment consumes less electricity as they are less in number. The electricity consumption for lighting purpose is less due to use of 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 electrically 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	91	60 Watts	2.5	341.250
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	35	24 Watt	6	126
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	9	297 Watts	0.5	33.4125
12.	Internet Modem	3	10 Watts	6	4.5
13.	Refrigerator	2	150 Watts	6 hrs. Compressor +	70.2 (30 Days)

				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
<b>Total Power Consumption</b>					<b>972.21 kWh/month</b>



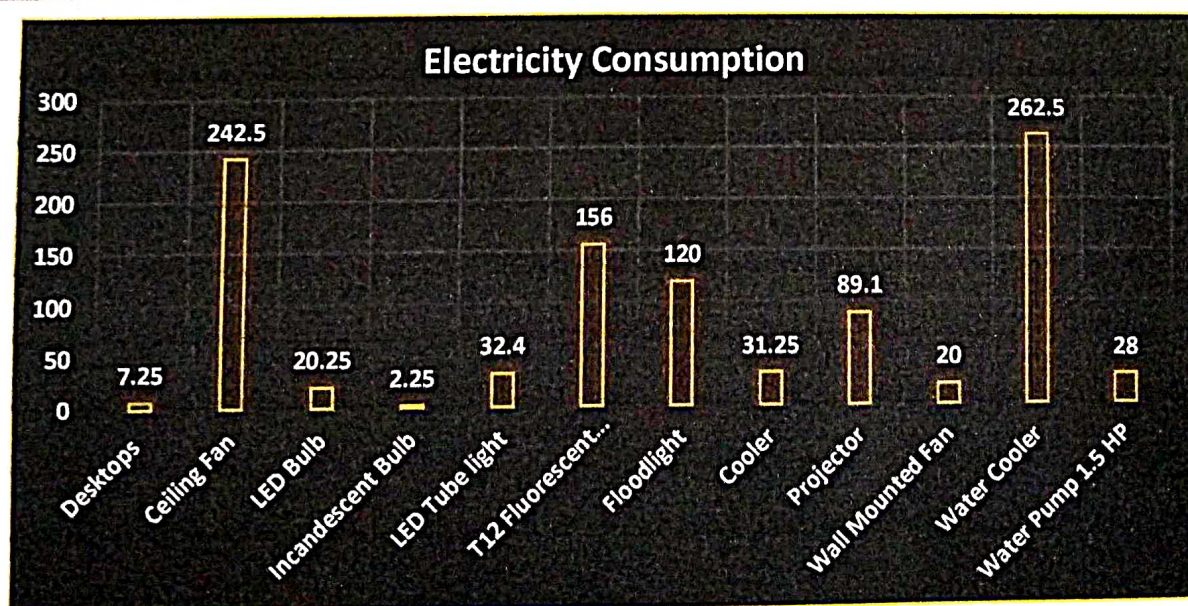
The major electricity consumption is done by ceiling fan which is equal to 341.25 kWh/month followed by LED Tube light (126 kWh/month) and Fluorescent Tube light (124 kWh/month). Other equipment consumes less electricity as their number is less. Electricity consumption in these sections can be reduced by replacing conventional tube lights and bulbs with LED bulbs/ tube light.



## 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
<b>Total Power Consumption</b>					<b>1011.5 kWh/month</b>





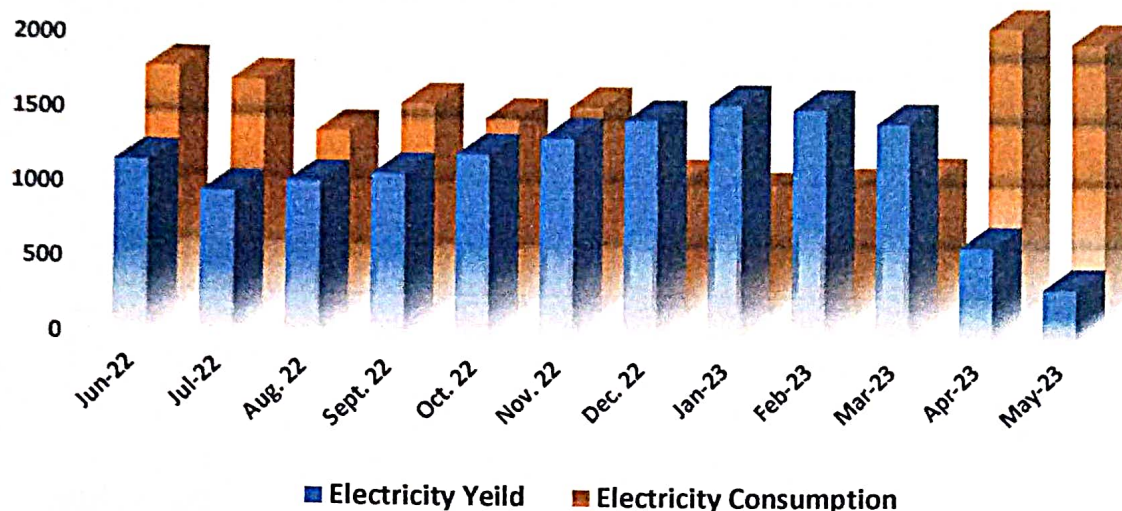
Majority of electricity is consumed by water cooler (262.5 kWh/month) followed by ceiling fans (291 kWh/month).

## 7.0 Total Yield Vs Total Consumption

Total consumption of electricity in the college by all blocks is around 2,386 kWh/month or 28,639 kWh/annum. The annual energy yield of Solar PV System is 35,000 kWh. Hence, the college is supposed to generate excess electricity than it needs and extra generated electricity has to be fed to MSEDCL. However, the data collected from electricity bill and the solar PV system for the duration June 2022 to May 2023 shows that the actual consumption of electricity is found to be 16,131 kWh/annum and electricity yield is 13,894 kWh/annum. Hence, net import of electricity from MSEDCL for the duration is 2,237 kWh/annum. This may be due to lack of maintenance of Solar Panels and other equipment. The data is summarized in following table and charts.

Sr. No.	Month	Electricity Yield for the month (kWh)	Electricity Consumption for the month (kWh)	Net-Import / Export of Electricity (kWh)
1.	June - 2022	1148	1638	490
2.	July - 2022	955	1567	612
3.	Aug. - 2022	1035	1235	200
4.	Sept. - 2022	1095	1430	335
5.	Oct. - 2022	1235	1335	100
6.	Nov. - 2022	1350	1420	70
7.	Dec. - 2022	1478	935	- 543
8.	Jan. - 2023	1586	852	- 734
9.	Feb. - 2023	1559	884	- 675
10.	Mar. - 2023	1469	959	- 510
11.	Apr. - 2023	634	1986	1352
12.	May - 2023	350	1890	1540

## ELECTRICITY YEILD AND CONSUMPTION



## 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 has become energy self-sufficient.

**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 decreased approximately 9.8 Metric Tons CO<sub>2</sub> emission in the environment during June 2022 to May 2023.
- ◆ 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.



## Step 1 - Enter and convert data

Select data to convert: ⓘ

- ☒ Energy data ⓘ  
☐ Emissions data

Enter data:

Unit	Amount
<input type="radio"/> Gallons of gasoline	
<input type="radio"/> Gasoline-powered passenger vehicles ⓘ	
<input checked="" type="radio"/> Kilowatt-hours avoided ⓘ	13894
<input type="radio"/> Kilowatt-hours used ⓘ	
<input type="radio"/> MCF of natural gas	
<input type="radio"/> Therms of natural gas	

Convert data

Clear Fields

## Step 2 - View results

9.8 Metric Tons of Carbon Dioxide (CO<sub>2</sub>) equivalent

This is equivalent to greenhouse gas emissions from:

2.2 gasoline-powered passenger vehicles driven for one year ⓘ



25,242 miles driven by an average gasoline-powered passenger vehicle ⓘ



This is equivalent to CO<sub>2</sub> emissions from:

1,108 gallons of gasoline consumed ⓘ



967 gallons of diesel consumed ⓘ



11,030 pounds of coal burned ⓘ



0.13 tanker trucks' worth of gasoline ⓘ



1.2 homes' energy use for one year ⓘ



1.9 homes' electricity use for one year ⓘ



0.054 railcars' worth of coal burned ⓘ



22.8 barrels of oil consumed ⓘ



452 propane cylinders used for home barbeques ⓘ



0 coal-fired power plants in one year ⓘ



0 natural gas-fired power plants in one year ⓘ



1,197,746 number of smartphones charged ⓘ





This is equivalent to greenhouse gas emissions avoided by:

**3.4** tons of waste recycled instead of landfilled ?



**0.487** garbage trucks of waste recycled instead of landfilled ?



**426** trash bags of waste recycled instead of landfilled ?



**0.003** wind turbines running for a year ?



**373** incandescent lamps switched to LEDs ?



This is equivalent to carbon sequestered by:

**163** tree seedlings grown for 10 years ?



**11.7** acres of U.S. forests in one year ?



**0.055** acres of U.S. forests preserved from conversion to cropland in one year ?

?



## 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 but it is observed that actual energy yield during the study period is way below that of the actual

capacity of the installed Solar PV System. Some of the recommendations are given below to increase the energy yield to its full capacity and reduce electricity consumption.

- Regular maintenance and cleaning of Rooftop Solar PV System is required.
- 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.

Date:-



Dr. C. D. Mungmode  
Department of Physics

## **CONTENT**

### **Invoice of Solar Panel and Consumer Information**

<b>Sr. No.</b>	<b>Evidence Particulars</b>
<b>1</b>	<b>Invoice of Solar Panel</b>
<b>2</b>	<b>Work order of Solar Panel</b>
<b>3</b>	<b>Financial Proposal of Fortune Energy Soln LLP</b>
<b>4</b>	<b>Consumer Information</b>
<b>5</b>	<b>Percentage of Annual Lighting of LED Bulb</b>



# Tax Invoice

**Fortune Energy Solution LLP**  
401, Utkarsh Rajnigandha Apt.  
Lane No 1, Khare Town  
Dharampath, Nagpur.  
GSTIN/UIN: 27AAEFF8801C1ZQ  
State Name : Maharashtra, Code : 27  
CIN: AAH4070  
Contact : 07122569999, 9763410000  
E-Mail : info@fortuneenergysolution.com

Invoice No. **6**  
Dated **28-Sep-2017**  
Delivery Note  
Mode/Terms of Payment **By Cheque/RTGS**  
Supplier's Ref.  
Other Reference(s)

Consignee  
**Mahatma Gandhi Collage, Armori**  
Wadsa Road, Bardi, At Po Ta Armori, District  
Gadchiroli  
PAN/IT No : AAAJN2356F  
State Name : Maharashtra, Code : 27

Buyer's Order No.  
Dated  
Despatch Document No.  
Delivery Note Date  
Despatched through  
Destination **Armori**

Buyer (if other than consignee)  
**Mahatma Gandhi Collage, Armori**  
Wadsa Road, Bardi, At Po Ta Armori, District  
Gadchiroli  
PAN/IT No : AAAJN2356F  
State Name : Maharashtra, Code : 27

Terms of Delivery

SI No	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	<b>Solar Power Generation System 25.175kWp</b> Seraphim 265Wp Mono Module 95 Nos. SMA STP 20000TL-30 Solar Inverter Aluminium Structure with S.S. Nut Bolts B.O.S.		25,175.00 Wp	75.00	Wp	18,88,125.00
	INPUT CGST 2.5%			2.50 %		47,203.00
	INPUT SGST 2.5%			2.50 %		47,203.00
	Total		25,175.00 Wp			19,82,531.00

Amount Chargeable (in words)

**INR Nineteen Lakh Eighty Two Thousand Five Hundred Thirty One Only**

E. & O.E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
	18,88,125.00	2.50%	47,203.00	2.50%	47,203.00	94,406.00
Total	18,88,125.00		47,203.00		47,203.00	94,406.00

Tax Amount (in words) : **INR Ninety Four Thousand Four Hundred Six Only**

**Remarks:**  
Warranties & Guarantees: As per respective manufacturer warranty and guarantee.  
Company's VAT TIN: 27051426688V  
Company's CST No: 27051426688C  
Company's IAN: AAEPF8801C  
Declaration: I/We hereby certify that register registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force and invoice is made by me/ us at the same rate specified in this tax invoice and the amount of tax is paid to the respective authorities of sales of goods and the due tax is paid to the respective authorities of sales of goods or shall be paid.

Customer's Seal and Signature

Company's Bank Details  
Bank Name : Punjab National Bank  
A/c No. : 2162002100011826  
Branch & IFS Code : Bharat Nagar Nagpur & PUNE0216200  
for Fortune Energy Solution LLP



**Principal**  
M.G.Arts, Science &  
Late N.P. Commerce College  
ARMORI, Dist. - Gadchiroli

SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

**Principal**  
Mahatma Gandhi Arts,  
Science & Late  
N. P. Commerce College,  
Armori, Dist - Gadchiroli

**Authorized Signatory**



MAHATMA GANDHI ARTS, SCIENCE &  
LATE NASARUDDINBHAI PANJWANI COMMERCE COLLEGE  
ARMORI Dist. Gadchiroli (M.S.) 441 208  
Re-accredited by NAAC 'A' with 3.02 CGPA

PRINCIPAL

Dr. Lalsingh H. Khalsa  
M. Sc., Ph. D.  
Mob. 9422153197  
E-mail: lalsinghkhalsa@yahoo.com

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 KHAJANCHI  
FORTUNE ENERGY SOLUTION LLP  
101, Rajnandini, Khare Town  
Dharampetli, 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 10<sup>th</sup> November 2017.

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

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



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

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Mahatma Gandhi Arts,  
Science & Late  
N. P. Commerce College,  
Armori, Dist - Gadchiroli



# 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

2021, 16:07

001, Rajnigandha, Khare Town, Dharampeth, Nagpur - 440010.

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



Principal

Mahatma Gandhi Arts,  
Science & Late  
N. P. Commerce College,  
Armore, 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	Description	Amount (Rs.)
9491449	17-Jan-18	LT	FIRST SECURITY DEPOSIT	10000
			GOODS AND SERVICE TAX	27
			PROCESSING FEE	100
			SERVICE CONNECTION CHARGES	50
				Total : 10177



*Principal*  
Mahatma Gandhi Arts,  
Science & Late  
N. P. Commerce College,  
Armori, Dist - Gadchiroli



Environmental Consciousness and Sustainability

Percentage of annual lighting power requirement met through

LED bulbs (Current Year data)

Total Lighting requirements	Percentage Lighting through LED bulbs	Percentage Lighting through other sources
7,617.6 kWh	2,759.4 kWh (36.22%)	4,858.2 kWh (63.78%)

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

Power requirement met by renewable energy sources	Total Power requirement	Generated power through Renewable energy sources	Renewable energy generated and used	Energy supplied/imported to the grid
13.894 MWh	16.131MWh	13.894 MWh	13.894 MWh	2.237 MWh



**Permission document for connection to the grid for  
Permission document for connection to the grid from  
government/ electricboard or authority on government/  
electric board or authority**

## Maharashtra State Electricity Distribution Co. Ltd

Report : 1.1

New Service Connection Consumer Details

Run Date : 29-APR-2022  
Page No.: 1

Billing Unit: 4339 - ARMORI S/DN. S/DN

LT

**CONSUMER DETAILS :**

Appln No.: **14261918**

Appln Date : 10-Jan-2018

Consumer No.: **490510119522**

Consumer Name: **THE PRINCIPAL M.G. VIDHYALYA HELTH C M.G. VIDHYALYA HEALTH C**

Service Type: Renewable Energy Sources

Billing Address: AT-POST:ARMORI  
Address Line 1 : DIST-GADCHIROLI  
Lane/ Street :AT-POST:ARMORI  
Village : ARMORI  
Pin Code : 442401

Meter Address: AT-POST:ARMORI  
Address Line 1: DIST-GADCHIROLI  
Lane/ Street : AT-POST:ARMORI  
Village : ARMORI  
Pin Code : 442401

Contact Details: Telephone No.:

Mobile No: 9403235866

email Id:

Processing Cycle:

MRCY-ROUTE-SEQ : 01-

POLE NO.: 1

**LOAD ASSESSMENT DETAILS :**

Load Number	Load Date	Item Name	Wattage	Quantity	Load in W
16592622	10-Jan-2018	TUBES	40.00	25	1000.00
		FAN	60.00	25	1500.00
		MOTOR	1500.00	1	1500.00
		COMPUTER	100.00	12	1200.00
		AIR CONDITIONER	1800.00	1	1800.00
		WATER COOLER	760.00	8	6080.00
		5 A POWER PLUG	60.00	40	2400.00
		CFL	20.00	51	1020.00
		30 A PLUG	100.00	5	500.00
		STREET LIGHT	500.00	6	3000.00
Load Demanded : 0.20 Kw			Load Sanctioned : 20000.00		

**ESTIMATE GENERATION DETAILS :**

Estimate Number	Estimate Date	Account Head Name	Amount in Rs
9491449	17-Jan-2018	FIRST SECURITY DEPOSIT	10000.00
		SERVICE CONNECTION CHARGES	50.00
		PROCESSING FEE	100.00
		GOODS AND SERVICE TAX	27.00
			10177.00

**RECEIPT GENERATION DETAILS :**

Receipt Number	Receipt Date	Mode of Payment	Manual Receipt Number	Manual Receipt Date	Receipt Type	Amount in Rs
9042242	17-May-2018	Cash	01042976	17-Jan-2018	22-SERVICE CONNECTION CHRGS	50.00
			01042976	17-Jan-2018	23-PROCESSING FEES	100.00
			01042976	17-Jan-2018	32-GOODS AND SERVICE TAX	27.00
			01042976	17-Jan-2018	03-FIRST SECURITY DEPOSIT	10000.00
						Receipt Total : 10177.00

**METER DETAILS :**

Meter Number Make Code	No. of Digits	MF	Status	Test Lab Number Test Date	Allotment Status Allotment Date	SF KWH
XC463498 Secure	6	1.0	Normal	111 07-May-2018	Alloted 18-May-2018	1

**UNIT TYPE DETAILS :**

Unit Type	Serial Number	Make Code	Date Of Assignment	CT Ratio	PT Ratio
CT UNIT	05329678	113-Ashmore Electricals Pvt Ltd	20-Apr-2016	100/5	NA

**METER ASSIGNMENT DETAILS :**

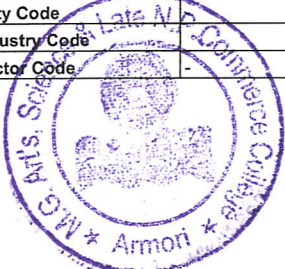
Substation Name	104003	Licence Number	
Feeder Name	201	Installation Date	18-May-2018
Transformer Name	4339079	Supply Date	18-May-2018

**METER READINGS DETAILS :**

Reading Date	KW	KVA	KWH	KVAH	RKVAH(Lag)	RKVAH(Lead)
18-May-2018	0.00	0.00	0.00	0.00	0.00	0.00
Slot 1	0.0	0.0	0.0	0.0	0.0	0.0
Slot 2	0.0	0.0	0.0	0.0	0.0	0.0
Slot 3	0.0	0.0	0.0	0.0	0.0	0.0
Slot 4	0.0	0.0	0.0	0.0	0.0	0.0

**BILLING CODES DETAILS :**

Tariff Code	-	Scale Code	-
Duty Code	-	Authority Type	-
Industry Code	-	Contract Demand KVA	20.00
Sector Code	-	Sanction Demand KVA	20.00



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

Dy. Executive Engineer  
M.S. Elect. Dist. Co. Ltd.  
Sub-Division, ARMORI



# Maharashtra State Electricity Distribution Company Limited

Web Self Service Home > View RE Consumption

## Web Self Service

### View RE Consumption

Below details are only for information purpose

\* indicates a required field

Home

New User Registration

Login

Forgot Login  
Name/Password?

View/Pay Bill

Consumption Calculator

Energy Bill Calculator

New Connection Request

Complaint Registration

Complaint Status

Submit Reading

Shri Vilasrao Deshmukh  
Abhay Yojana

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

Process Flow for Shri  
Vilasrao Deshmukh Abhay  
Yojna (Help Manual &  
Video)

Solar Consumer Number\*

490510119522

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 O-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
APR-2022	761	974	1087
MAR-2022	574	1518	1605
FEB-2022	427	2122	2211
JAN-2022	794	1330	1471
DEC-2021	851	1467	1546
NOV-2021	750	1840	1887

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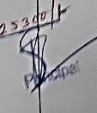
For any queries related to online applications, please mail [customer@mahadiscom.in](mailto:customer@mahadiscom.in) or contact our customer care center at 1912, 1800-233-3435, 1800-102-3435.  
For queries related to your online payment transactions, please mail [helpdesk\\_pg@mahadiscom.in](mailto:helpdesk_pg@mahadiscom.in)



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ARMORI, Dist. Gadchiroli



# V-guard battery bill

MOTWANI ELECTRICALS				GST INVOICE				Party Name :					
C/O DILIP MOTWANI GROUND FLOOR, NEAR NEW BUS STAND ARMORI				CREDIT				M.G COLLEGE PRINCIPAL ARMORI					
GSTIN : 27ELCPM0495L1Z0				Invoice No	0000001	Order No.	Order Date	Cases	0	27-MAHARASHTRA			
				Invoice Date	02/04/2021	L.R. No.	L.R. Date	02/04/2021	Transport	PHONE :			
S.	Qty.	Mfr	Pack	Product Name	HSN	M.R.P	Rate	Dis	SGST	Value	CGST	Value	
1.	2			V GUARD VT-160	8507	0.00	12400.00	0.00	14.00	2712.50	14.00	2712.50	
2.	1			SYSKA RDL LED PANEL 15WT SQ 6K	9405	0.00	500.00	0.00	6.00	26.79	6.00	26.79	
<b>PAID</b> Passed for Payment of Rs. 25300/-  Principal													
											<b>TOTAL</b>		<b>25300.00</b>
CLASS	TOTAL	SCHEME	DISCOUNT	SGST	CGST	TOTAL GST	Total Items - 2		Total Qty - 3		DIS AMT 0.00		
GST 5.00%	0.00	0.00	0.00	0.00	0.00	0.00					SGST PAYBLE 2739.29		
GST 12.00%	0.00	0.00	0.00	26.79	26.79	53.58					COST PAYBLE 2739.29		
GST 18.00%	0.00	0.00	0.00	0.00	0.00	0.00					CREDIT NOTE 0.00		
GST 28 %	24800.00	0.00	0.00	2712.50	2712.50	5425.00							
<b>TOTAL</b>	<b>25300.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2739.29</b>	<b>2739.29</b>	<b>5478.58</b>							
No. Twenty Five Thousand Three Hundred Only MEG THIRDS <b>Terms &amp; Conditions</b> Goods once sold will not be taken back or exchanged. Goods are subject to Jurisdiction only.											<b>FOR MOTWANI ELECTRICALS</b> <b>Motwani Electricals</b> G. Motwani Authorised Signatory		<b>Grand Total</b> <b>25300.00</b>

3874  
979311

Our GST Billing Software  
 Prop. Gagan Dilip Motwani

## **Sensor- based energy conservation**

## Water tank overflow controller





# श्री साई आशिर्वाद पाईप


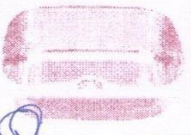

न्यु बस स्टॉप जवळ, मेन रोड, आरमोरी, ता. आरमोरी, जि. गडचिरोली

आमचे येथे पेन्ट, इंडिगो पेन्ट, आशिर्वाद पाईप, मोटार, प्लम्बींगचे सामान,  
पुटींग, नळ, सिंक, सिन्टॅक्स आणि इतर सामान मिळेल

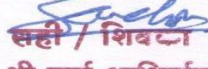
बिल नं. 298

दिनांक : 13/01/21

नांव : Principal. M. V. College. Aramori

अ. क्र.	विवरण	नग	रेट	रक्कम रुपये	पैसे
	Watertank overflow controller   	04	395	1580.	00
			एकूण -	1580.	00

प्रोप्रा - मिलींद विश्वनाथ रामटेके  
मो. नं. ९४२३७५३२५०

  
सही / शिबटो  
प्रोप्रा - श्री साई आशिर्वाद पाईप्स