



### **7.1.2: ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES**

- ❖ **Solar Energy**
- ❖ **Use of LED Bulbs/Power Efficient Equipment**
- ❖ **Electrical Mapping of Classrooms**
- ❖ **Timer for Air Conditioners in the Central Instrumentation Facility**
- ❖ **Expenditure (Representative Bills, Invoices, Purchase Orders)**
  - **2019-2020**
    - Repairing of existing 40 kW Roof top Solar Power Set-up
    - LED square panel surface
    - LED lights
  - **2018-2019**
    - LED flood lights
    - LED surface panel
    - LED surface lights
    - LED spotlight
  - **2017-2018**
    - Bore well pump repair and maintenance
  - **2016-2017**
    - LED light fixture
  - **2015-2016**
    - LED tube light



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## **SOLAR ENERGY**



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St. Xavier's College, Mumbai has 3 sets of solar panels installed on the roof-top of its hostel and library buildings. These panels ensure that some parts of the college run entirely on solar power, thus saving electricity.

The first solar panel was installed in 2004 on the hostel building, followed by two more in 2010 and 2013, on the hostel and the library buildings respectively. The earliest panel located on the hostel building is used to heat water tanks with a total capacity of 4000 litres that supply hot water to the hostel bathrooms. It ensures a steady hot water supply for the 60 hostelites who live on campus. This has considerably reduced the electricity usage on hot water geysers in the hostel. This tank also supplies heated water to the canteen kitchen, saving on gas. Additionally, the solar panels on the hostel rooftop were used until 2017 to exclusively power the Xavier's Knowledge Centre's Cyber Lab, a computer resource centre for students and staff of the college. The panels developed a snag and were disconnected from the lab thereafter. They have now been repaired but the reconnection work is pending due to the ongoing pandemic.

The panels installed in 2013 on the rooftop of the library building power the Reference Library, the College Hall and the lecture rooms (LR-30s and LR-40s) by generating around 40 kWh power per day. This set-up was sponsored by the State Bank of India, with a Government of India subsidy, and installed by Thermax India Pvt Ltd. This particular line is connected to the Brihan Mumbai Electric Supply and Transport (BEST) line that adds to the power supply in the event of a power shortage from the solar panels.


Some solar panels had become non-functional over the years. These were repaired and maintained in year 2019-20 and all are currently functional.

• **Year-wise Solar power generation:**

Year	Inverter-1	Inverter-2
2020	10,910 kWh	3239 kWh
2019	9,441 kWh	Reading unavailable
2018	6,632 kWh	Reading unavailable
2017	4,800 kWh	Reading unavailable
2016	8,834 kWh	Reading unavailable
2015	459 kWh	Reading unavailable



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**Taking an average of the solar power generation in year 2020:**

Yearly generation:  $10,910 + 3,239 = 14,149$  kWh  
Monthly:  $14,149/12 = 1,179$  kWh  
Daily:  $1,179/30 = 39.3$  kWh

• **Year 2019-2020 Inverter Readings (Inverter-1):**

The last reading for the solar power plants was taken in Mar 2020 just before the pandemic lockdown.

	<b>Inverter-1 Readings</b>
<b>Month-Year</b>	<b>Solar Power Generated (units)</b>
May 2019	Reading unavailable
Jun. 2019	1,40,069
Jul. 2019	1,46,482
Aug. 2019	1,52,789
Sep. 2019	1,60,179
Oct. 2019	1,65,190
Nov. 2019	Reading unavailable
Dec. 2019	Reading unavailable
Jan. 2020	1,79,940
Feb. 2020	1,87,568
Mar. 2020	1,93,273
<b>Total (2019-20)</b>	<b>13,25,490 units</b>



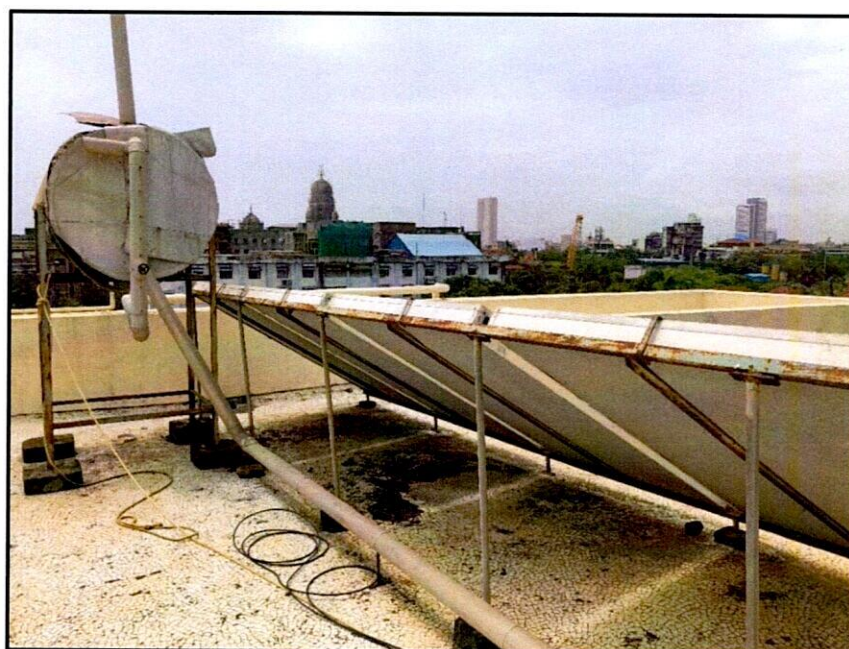
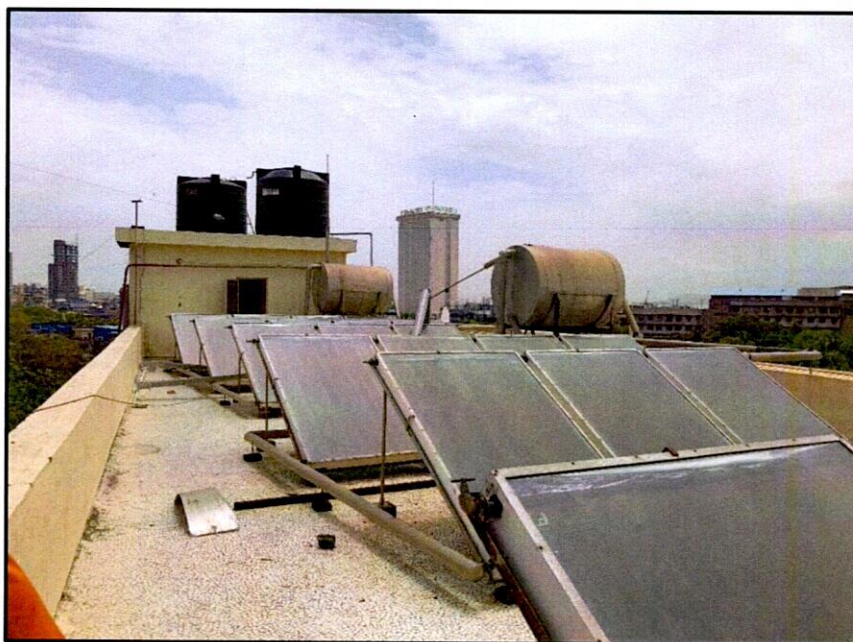
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### Solar Panel Set-up on the Hostel Building



Latitude	18° 56' 36.47" N
Longitude	72° 49' 53.39" E



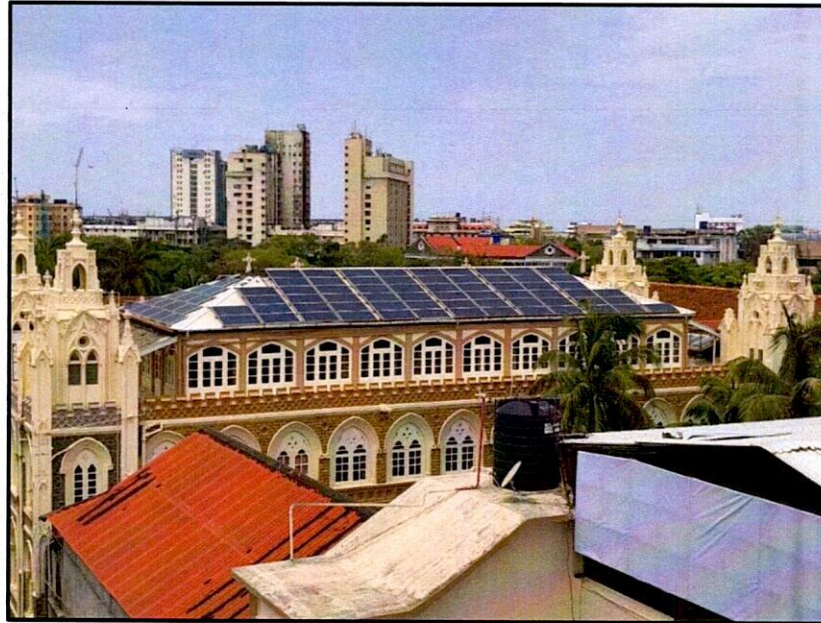
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### Solar Panel Set-up on the Library Building



Latitude	18° 56' 35.17" N
Longitude	72° 49' 52.76" E



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## Solar Panel Inverter Room on the Library Building



Latitude	18° 56' 34.34" N
Longitude	72° 49' 54.27" E



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# **USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT**





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Over the past few years, the college management has taken a conscious decision to replace existing lights and lighting equipment by LED sources. Dedicated efforts have been made every year with a sizeable amount being spent on buying and fitting LED lamps and tube lights across the college premises. LED spotlights have been used to light up the basketball court and the Woods area.

Old fans and other electrical equipment have been regularly repaired and/or replaced with newer, energy-efficient ones. Heavy equipment like water pumps are regularly serviced and maintained to keep them functioning optimally.

## LED LIGHTING ACROSS COLLEGE PREMISES



Multi Media Room (MMR)

Latitude	18° 56' 35.57" N
Longitude	72° 49' 53.77" E



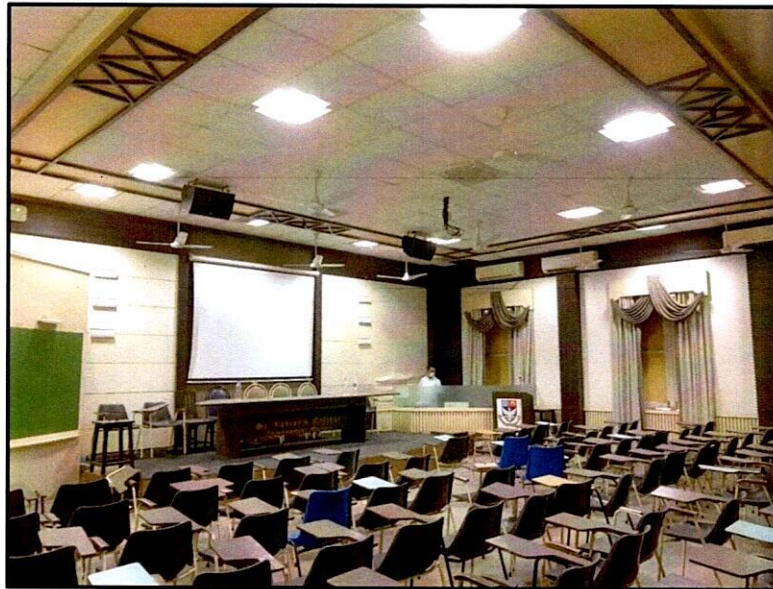
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Smith Centre for Audio-Visual Instruction (SCAVI)

Latitude	18° 56' 33.78" N
Longitude	72° 49' 42.79" E



Reference Library

Latitude	18° 56' 35.60" N
Longitude	72° 49' 53.06" E



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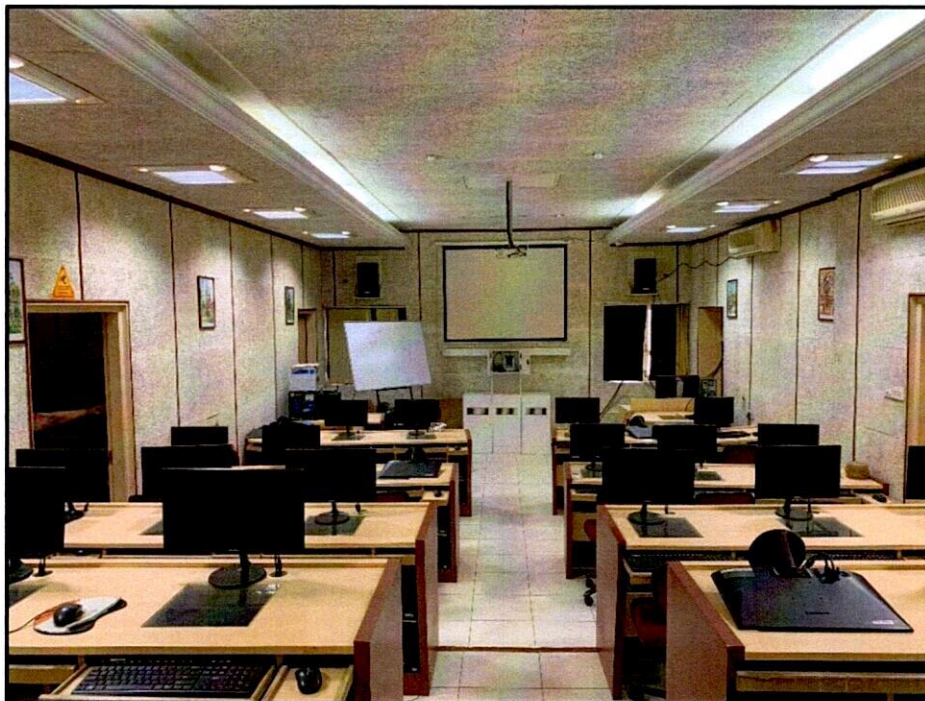
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Fell Gymkhana

Latitude	18° 56' 35.61" N
Longitude	72° 49' 54.27" E



Xavier's Knowledge Centre (XKC) – Lab 1

Latitude	18° 56' 37.14" N
Longitude	72° 49' 54.97" E



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Xavier's Knowledge Centre (XKC) – Lab 2

Latitude	18° 56' 37.14" N
Longitude	72° 49' 54.97" E



Language Lab

Latitude	18° 56' 35.57" N
Longitude	72° 49' 55.26" E



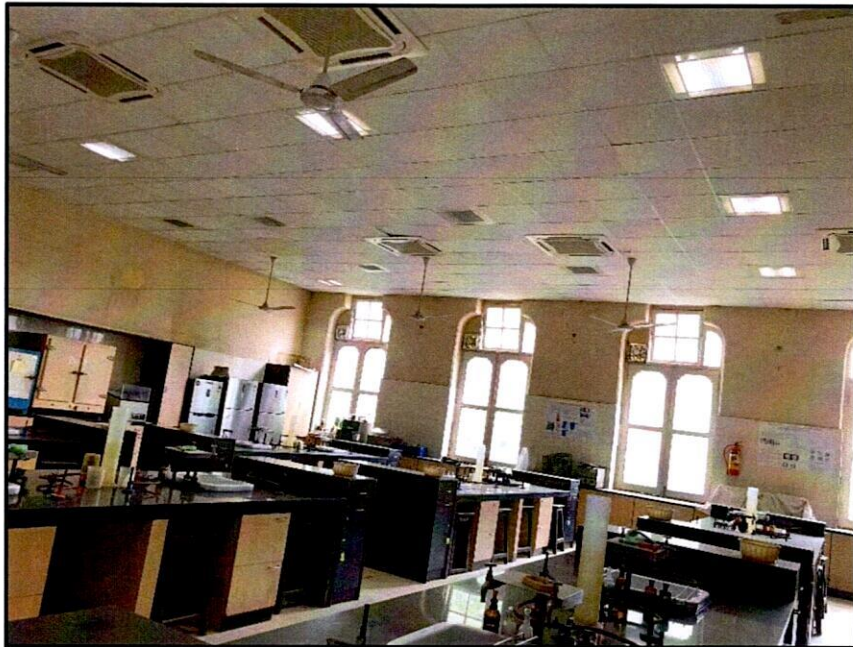
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Microbiology Lab

Latitude	18° 56' 47.18" N
Longitude	72° 49' 56.69" E



XIC-Francis MacFarland Lecture Room

Latitude	18° 56' 36.57" N
Longitude	72° 49' 55.15" E



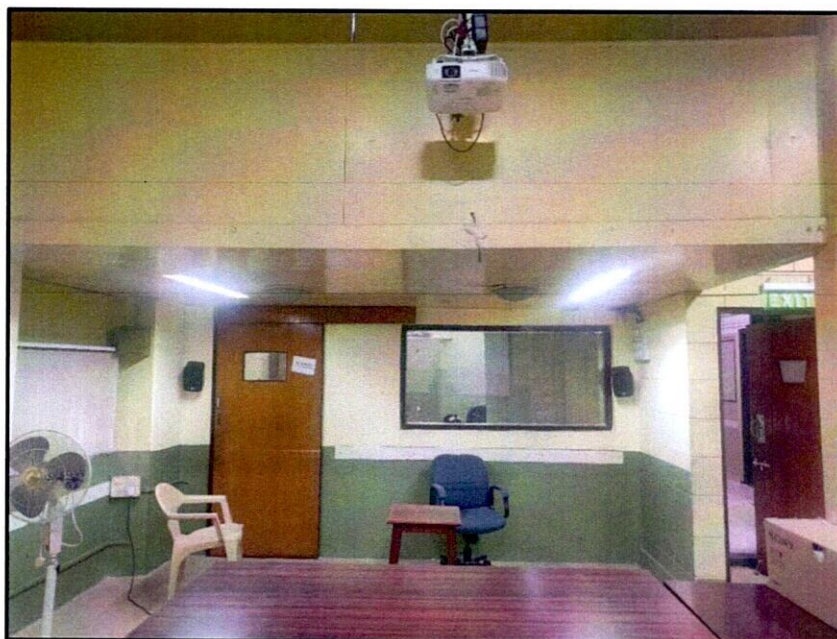
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XIC-Satyajit Ray Studio

Latitude	18° 56' 36.57" N
Longitude	72° 49' 55.15" E



College Reception Area

Latitude	18° 56' 33.57" N
Longitude	72° 49' 52.26" E



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College Hall corridor (Quadrangle side)

Latitude	18° 56' 33.13" N
Longitude	72° 49' 38.64" E

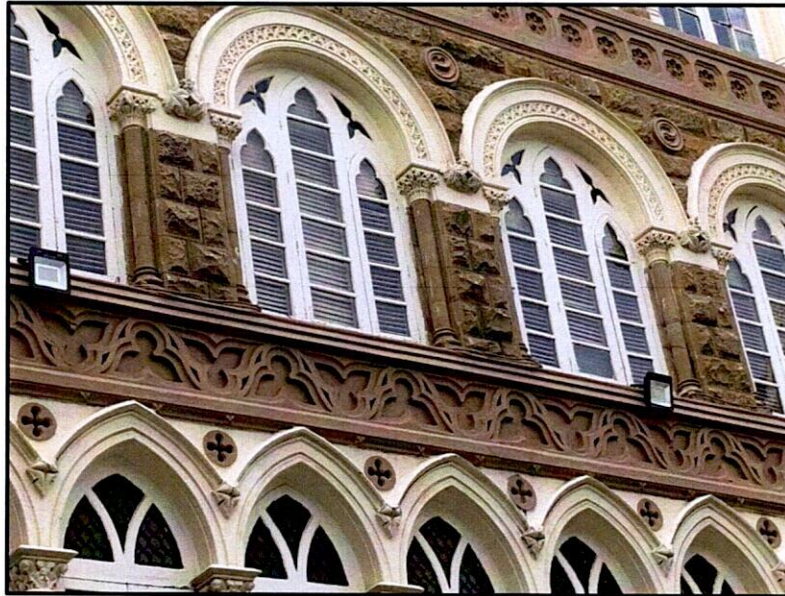


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LED Spotlights in the Quadrangle/Basketball Court

Latitude	18° 56' 34.36" N
Longitude	72° 49' 52.57" E



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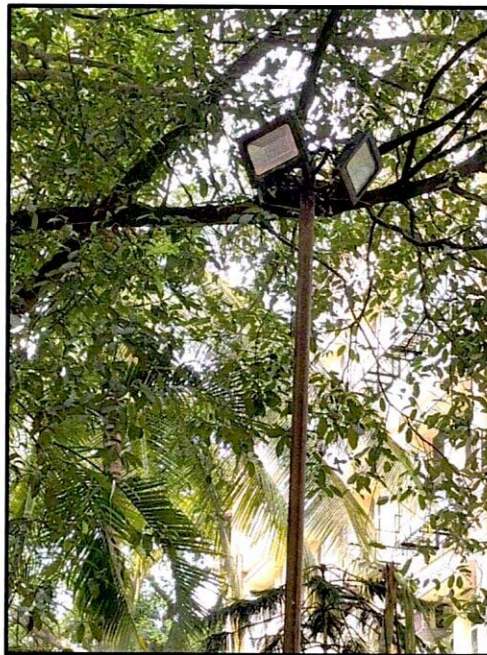


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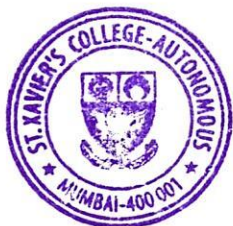
LED Spotlight facing the Side Entrance

Latitude	18° 56' 35.50" N
Longitude	72° 49' 52.10" E



LED Spotlight in Woods area

Latitude	18° 56' 36.22" N
Longitude	72° 49' 54.35" E



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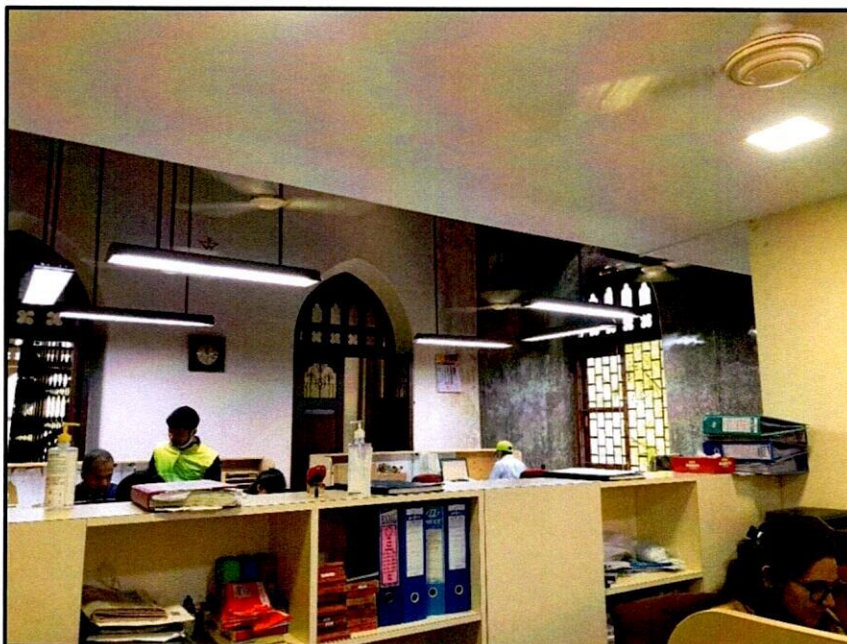


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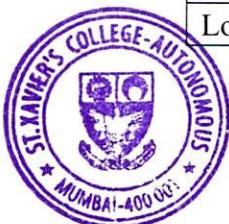
Registrar Room

Latitude	18° 56' 34.44" N
Longitude	72° 49' 54.38" E



Treasurer's Office

Latitude	18° 56' 34.18" N
Longitude	72° 49' 51.38" E



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Botany UG Lab Corridor



Botany HoD Room

Latitude	18° 56' 37.19" N
Longitude	72° 49' 54.90" E



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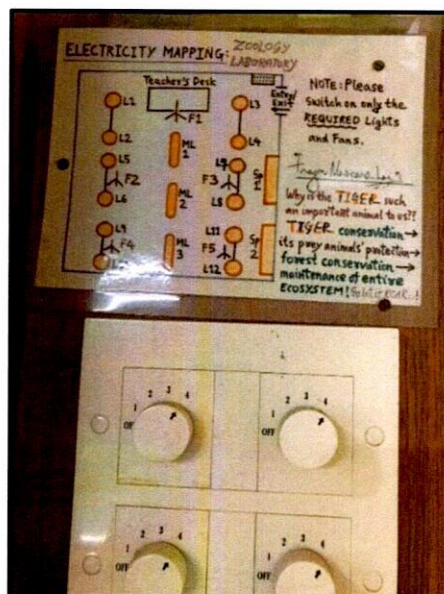
# **ELECTRICAL MAPPING OF CLASSROOMS AND LABORATORIES**



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Student participation was sought in early 2014-15 to create 'Electricity Maps' for each classroom and the labs. These maps display the connections of electrical switches to the light and fans they control within a particular classroom or lab. A laminated map is pasted near the classroom/lab switchboard, greatly facilitating the switching ON of only the required lights and fans in the room and switching OFF of those not required. Students and staff diligently follow this, leading to huge saving and conservation of electricity.

### Electricity Map of Zoology Lab



Latitude	18° 56' 36.86" N
Longitude	72° 49' 53.88" E

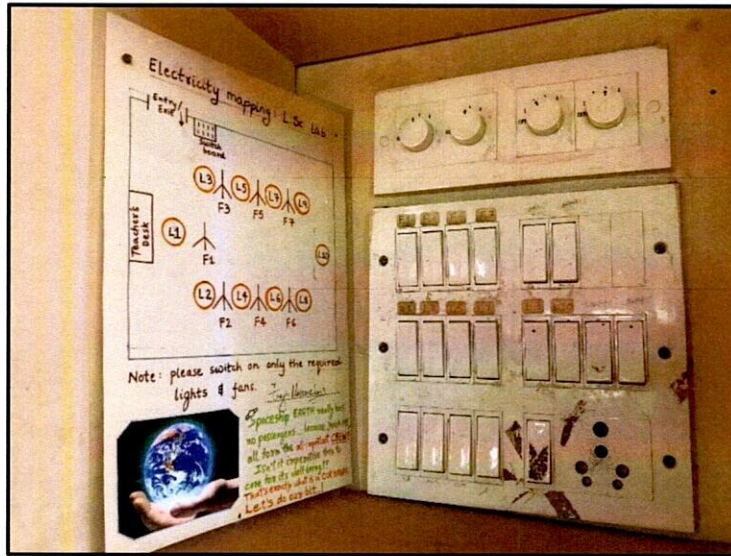


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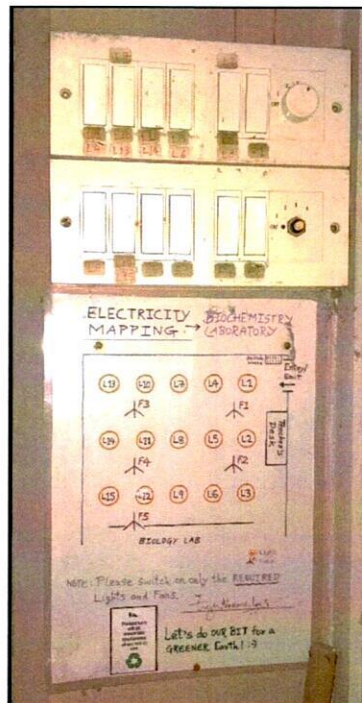


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Life Science Lab

Latitude	18° 56' 37.11" N
Longitude	72° 49' 55.01" E



Biochemistry Lab

Latitude	18° 56' 37.43" N
Longitude	72° 49' 55.18" E

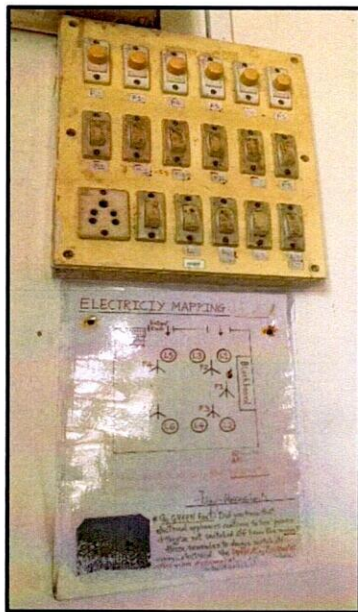


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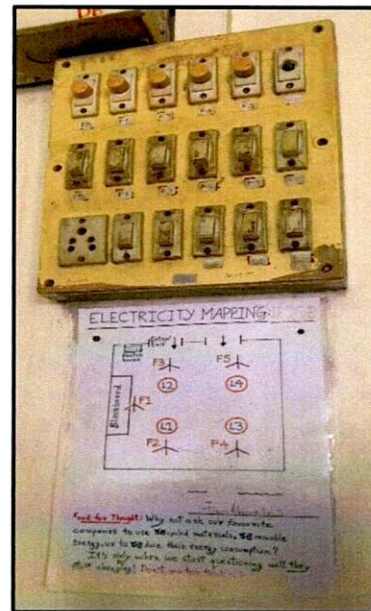


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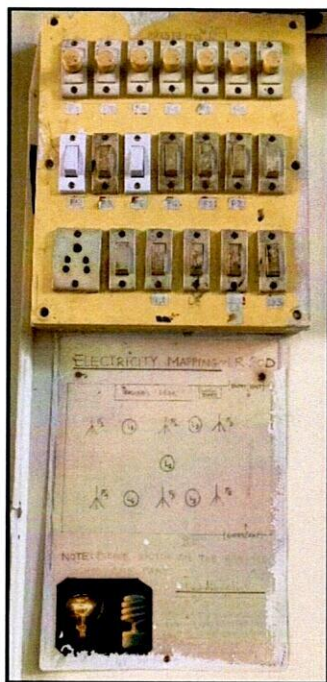
Lecture Room-LR 20A

Latitude	18° 56' 33.59" N
Longitude	72° 49' 53.77" E



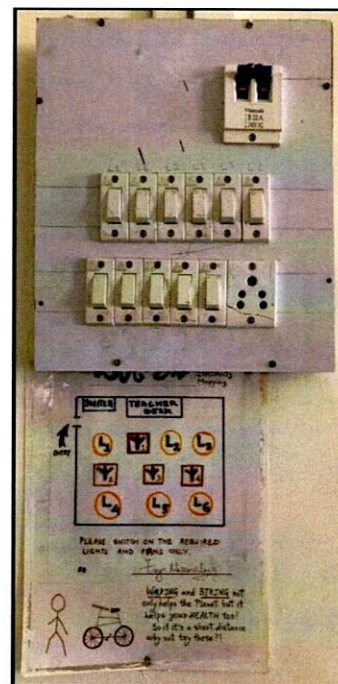
Lecture Room-LR20B

Latitude	18° 56' 33.57" N
Longitude	72° 49' 52.04" E



Lecture Room-LR 20D

Latitude	18° 56' 33.26" N
Longitude	72° 49' 51.58" E



Lecture Room-LR 32

Latitude	18° 56' 34.60" N
Longitude	72° 49' 53.06" E



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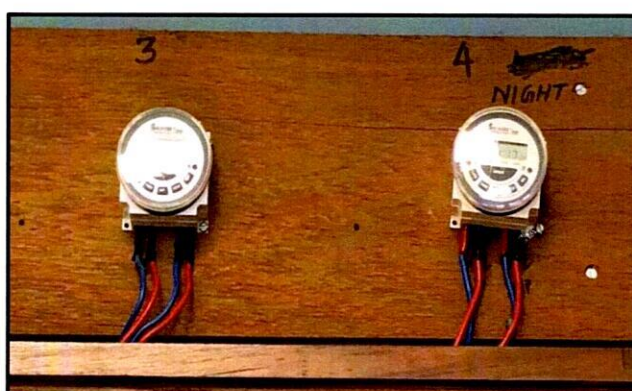
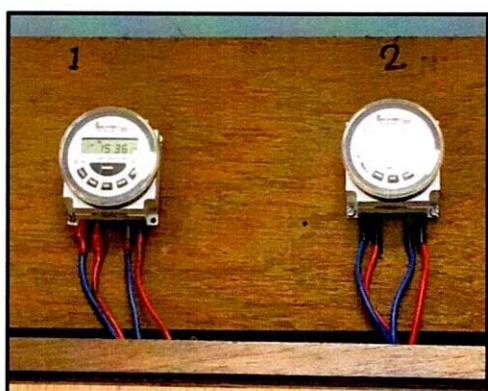
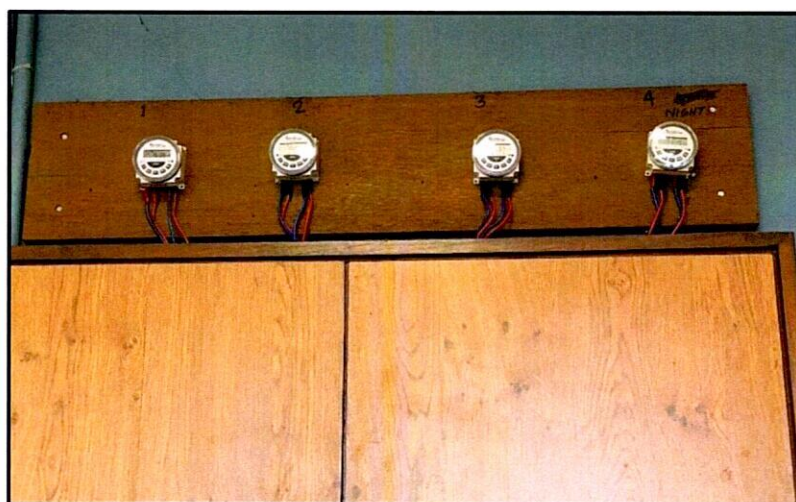
# **TIMER FOR AIR CONDITIONERS IN THE CENTRAL INSTRUMENTATION FACILITY**





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The Central Instrumentation Facility (CIF) started with a DST-FIST grant houses several common instruments and analytical equipment that is shared by all Science departments in the college. Several instruments in the CIF like the PCR thermocycler, Gas Chromatography instrument, centrifuges and others require lower than ambient temperature (20–25°C) for their optimal functioning. This is maintained by 4 air conditioners (AC) installed in the room. To conserve electricity at night when the instruments are not in use, a timer system has been installed. This ensures that three day time ACs function on a 10 hours ON–14 hours OFF cycle. The single night time AC functions on a 14 hours ON–10 hours OFF cycle. This ensures that the room is properly cooled during the day when the instruments are in use and several people occupy the room, while at night with instruments on standby and no human traffic, there is less consumption of electricity with only one functioning AC.



**AC timer in the Central Instrumentation Facility (CIF)**

Latitude	18° 56' 36.48" N
Longitude	72° 49' 53.86" E



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## **EXPENDITURE**

**(Representative Bills, Invoices, Purchase Orders)**



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2019-2020


## Repairing of Existing 40 kW Roof Top Solar Power Set-up

Sr.	Item Description	UoM	Qty	Rate	Amount
1	Supply & Services for Rectification & Re-commissioning of existing 40kWp Roof Top Solar PV Power Generation System at St. Xavier's College, 5, Mahapalika Marg, Mumbai consisting of:  - Supply of Solar Inverter, String type: 15kWx1 no - Supply of Remote Data Monitoring System: 1 no - MC4 Connector Y Splitter type - MC4 Connector - Solar DC cable - Miscellaneous items: ties, lugs, fasteners etc - Annual Subscription Charges for Remote Data Monitoring System: for 3 years - Services for rectification, modification & re-commissioning of existing solar plant - AMC for 1 year: 4 visits	No.	1	2,95,000.00	2,95,000.00
	Sub-Total	INR			2,95,000.00
	GST *	INR		8.9%	26,255.00
	<b>TOTAL</b>	INR			<b>3,21,255.00</b>

In Words: Rs. Three Lakh Twenty One Thousand Two Hundred Fifty Five Only

\*GST will be paid at actuals applicable during Billing for above mentioned supply & services.

Treasurer



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THERMAX LIMITED ENVIRONMENT HOUSE, PLOT NO. 90-92,  
BG BLOCK, MIDC, BHOSARI, PUNE 411026, INDIA TEL: (20) 67156000,  
67156222 ☐ FAX: (20) 67156662 ☐ Website: www.thermaxglobal.com  
☐ IT PAN - AAAC23910D ☐ Customer Care : 18002090115 (India Toll Free)



Power Division

Date: 15/11/2019

Our Ref: T/ST.Xavier/Inverter/19-JS/11

To,  
St. Xavier's College,  
5, Mahapalika Marg, Dhobi Talao,  
Chhatrapati Shivaji Terminus Area, Fort,  
Mumbai, Maharashtra 400001

Kind Attn: Mr. Ganesh Padrat

Subject: Offer for the supply of 15 kW Solar Inverter for 40 kWp Solar PV Plant

Dear Sir,

We are pleased to submit our commercial offer for the Supply of 15 kW Solar Inverter for 40 kWp Solar PV power generation system.

Sr. No.	Item Description	Qty	UoQ	Rate	Amount
1	Solar PV Inverter, Power rating: 15 kW, Model type: String Inverter	2	Nos	1,30,000	2,60,000
	Sub Total		INR		2,60,000
	GST		5%		13,000
	Total				2,73,000

In Words: Rupees Two Lac Seventy Three Thousand and zero paise Only

Price is inclusive of  
-Packing & Forwarding bill etc  
- Installation and Commissioning of Solar Inverters

Payment Term:  
-100% advance against Pro-forma Invoice  
-Validity of offer: 15 days

REGD. OFFICE : D-13, MIDC INDUSTRIAL AREA, P. D. AGA ROAD, CHINCHWAD, PUNE - 411 019, INDIA



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
(AUTONOMOUS)  
5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.  
☎ 2262 0661/65



Other Terms:

1. Delivery of the material- 3 weeks from the receipt of Purchase order and Advance
2. Warranty- 5 years from date of Supply and/or date of commissioning whichever is earlier
3. Taxes mentioned in the offer are as per current Govt. guidelines, these will be charged on actual basis applicable at the time of Invoicing.

Hope the offer is in line with your requirement.

Await for your valuable order.

Thanking You.

For THERMAX LIMITED



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_Energy Conservation

*Shinde*

PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.



# ST. XAVIER'S COLLEGE

(AUTONOMOUS)

5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.

☎ 2262 0661/65

THERMAX LIMITED ENVIRONMENT HOUSE, PLOT NO. 90-92,  
BG BLOCK, MIDC, BHOSARI, PUNE 411026, INDIA TEL: (20) 67156000,  
67156222 ☐ FAX: (20) 67156662 ☐ Website: www.thermaxglobal.com  
☐ I PAN - AAAC13910D ☐ Customer Care : 18002090115 (India toll free)



Power Division

Date: 04/010/2019

Our Ref. Tl/St. Xaviers/Inverter/19-20/01

To,

St. Xaviers College,

5, Mahapalika Marg, Dhobi Talao,

Chhatrapati Shivaji Terminus Area, Fort,

Mumbai, Maharashtra 400001

Kind Attn: Mr. Kamal

Subject: Offer for the supply of Solar Inverter for 40 kWp Solar PV Plant

Dear Sir,

We are pleased to submit our commercial offer for the Supply of Solar Inverter for 40 kWp Solar PV power generation system.

Sr. No.	Item Description	Qty	UoQ	Rate	Amount
1	Solar PV Inverter, Power rating: 15 kW, Model type: String Inverter	1	Nos.	1,30,000	1,30,000
	Sub Total		INR		1,30,000
	GST		5%		6,500
	Total				1,36,500

In Words: Rupees One Lac Thirty Six Thousand Five Hundred zero paisa Only

Price is inclusive of  
-Packing & Forwarding till site  
-Installation and Commissioning of Solar Inverters

Payment Term:  
-100% advance against Pro-forma Invoice  
-Validity of offer: 15 days

REGD. OFFICE : G 13, MIDC INDUSTRIAL AREA, B. D. AGA ROAD, CHINCHWAD, PUNE - 411 019, INDIA  
CORPORATE IDENTITY NUMBER: L29299MH1900PLC022187



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

*Shinde*  
PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
(AUTONOMOUS)  
5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.  
☎ 2262 0661/65



**Other Terms:**

1. Delivery of the material- 15 days from the receipt of Purchase order and Advance
2. Warranty- As per standard warranty from supplier
3. Taxes mentioned in the offer are as per current Govt. guidelines, these will be charged on actual basis applicable at the time of invoicing.

Hope the offer is in line with your requirement.

Await for your valuable order.

Thanking You.

For THERMAX LIMITED

Authorized Signatory



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

  
PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.



Offer for AMC

**THERMAX**

COMMERCIALS

Sr. No.	Description	Amount
Operation and maintenance contract cost for 40 kWp Solar PV system at St. Xavier's College, Mumbai		
1	Operation and maintenance charges for first year	1,44,000/- INR One Lac Forty Four Thousand Only
2	Operation and maintenance charges from 2 <sup>nd</sup> year onwards till 5 <sup>th</sup> year	8% Escalation over previous year charges

SCOPE OF WORK

- Cleaning of Modules 2 times in a month
- Regular inspection of all plant equipment.
- Regular checking and maintenance of Solar Inverters
- Regular checking and maintenance of ACDBs
- Regular performing of all other maintenance activities

Inclusions:

- Module cleaning equipments
- Tools and Tackles necessary for maintenance or breakdown
- Personal Protective equipments

Exclusions:

- Water for module cleaning
- Spares not covered under warranty
- Permanent deputation of any skilled/ unskilled manpower to site
- Any SIM recharge for RPMS system
- Access to Roofs for module cleaning

Document No. 2017-190-PS

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Page 2








**ST. XAVIER'S COLLEGE**  
 (AUTONOMOUS)  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
 ☎ 2262 0661/65

**Purchase of LED Lights, Spotlights and Fixtures**

6

**Tax Invoice** (ORIGINAL FOR RECIPIENT)

 <b>AMISON ENTERPRISE</b> 605 - BOMBAY MARKET TARTLEO ROAD - MUMBAI Maharashtra - 27 TEL: 22620129-32744518 C.E.L.L. 9510140187 GSTIN/IN: 27AAEPD2861J1Z5 State Name: Maharashtra, Code: 27 E-Mail: amison.enr@gmail.com		Invoice No: <b>25911</b> Delivery Note: Supplier's Ref: <b>25911</b> Buyer's Order No:	Dated: <b>11-Feb-2020</b> Mode/Terms of Payment: 15 Days Other Reference(s): Dated: Delivery Note Date: Destination:
Buyer: <b>St Xavier's College</b> Mahanagar Palika Marg, Dhobi Talao, Tel-22620661 State Name: Maharashtra, Code: 27 Place of Supply: Maharashtra  Contact person: Mr Kamal Contact: 9769512136		Dispatch Document No: Despatched through: <b>BY HAND</b> Terms of Delivery:	

Sl No	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc %	Amount
1	Led 22w Square Panel Surface	9405	12 %	3.00 nos	650.00	nos	34 %	1,950.00
2	1.6 Sq mm Copper Wire	8544	18 %	279 mtrs	1,505.00	\$/mtr		3,158.10
								5,108.10
								401.23
								401.23
								0.44
<b>Total</b>								<b>₹ 5,911.00</b>

Amount Chargeable (in words) **INR Five Thousand Nine Hundred Eleven Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
9405	1,950.00	9%	177.00	9%	177.00	254.00
8544	3,158.10	9%	284.23	9%	284.23	568.46
<b>Total</b>	<b>5,108.10</b>		<b>461.23</b>		<b>461.23</b>	<b>922.46</b>

Tax Amount (in words) **INR Eight Hundred Two and Forty Six paise Only**

Company's PAN: AAEPD2861J

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

Customer's Seal and Signature: *[Signature]*

Company's Bank Details:  
 Bank Name: **Bank of India**  
 A/C No: **00423010002975**  
 Branch & IFSC Code: **Tartleo Branch & BRND0000042**  
 for **AMISON ENTERPRISE**

SUBJECT TO MUMBAI JURISDICTION  
 This is a Computer Generated Invoice

*Handwritten notes:*  
 For Library area  
 11/2/20  
 12 FEB 2020  
 17/2/2020  
 1550  
 4874255  
 17/2/2020  
 to Electron Accounting

LED Square Panel Surface



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation


*[Signature]*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
**(AUTONOMOUS)**  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
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SCMG  
CP  
5

**Tax Invoice** (ORIGINAL FOR RECEIPT)

 <b>AMISON ENTERPRISE</b> 905, BOMBAY MARKET TARDEO ROAD - MUMBAI Maharashtra - 27 TEL: 22000128-49744816 CELL: 9819140137 DISTRICT: 27AAASPD29013225 State Name: Maharashtra, Code: 27 E-Mail: amison.ent@gmail.com	Invoice No. <b>25741</b>	Dated <b>13-Dec-2019</b>
	Delivery Note <b>25741</b>	Mode/Terms of Payment <b>15 Days</b>
Buyer <b>St Xavier's College</b> Mahatagar Palika Marg, Dhobi Talao, Tel-22020601 State Name: Maharashtra, Code: 27	Supplier's Ref <b>25741</b>	Other Reference(s)
Contact person Contact: Mr Kamal : 9759512136	Buyer's Order No. Dated	Dispatch Document No. Delivery Note Date
	Despatched through <b>By Hand</b>	Destination
	Terms of Delivery	

Sl No	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc %	Amount	
1	Led T5 4ft Batten Recessola	9405	12 %	12 pcs	250.00	pcs		3,000.00	
								180.00	
								180.00	
<b>Total</b>								<b>12 pcs</b>	<b>₹ 3,360.00</b>

Amount Chargeable (in words): **INR Three Thousand Three Hundred Sixty Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
9405	3,000.00	9%	180.00	6%	180.00	360.00
<b>Total</b>			<b>3,000.00</b>		<b>180.00</b>	<b>360.00</b>

Tax Amount (in words): **INR Three Hundred Sixty Only**

Company's PAN: **AAEPD291J**

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

Customer's Seal and Signature: *[Signature]*

Authorized Signatory: *[Signature]*

This is a Computer Generated Invoice

LED Lights



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation


*[Signature]*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
 (AUTONOMOUS)  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
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2018-2019

**Tax Invoice**



**AMISON ENTERPRISE**  
 505 - BOMBAY MARKET  
 TAJRHO ROAD, MUMBAI  
 Maharashtra - 27  
 TEL: 2262126 8231026  
 CELL: 9810140187  
 GSTIN/IN: 27AAEPC0281J1Z5  
 State Name: Maharashtra Code: 27  
 E-Mail: amison20@gmail.com

Invoice No. 25074  
 Dated: 23-Apr-2019  
 Delivery Note  
 Mode/Terms of Payment: 15 Days  
 Supplier's Ref. 25074  
 Other Reference(s)  
 Buyer's Order No.  
 Dated:  
 Dispatch Document No.  
 Delivery Note Date:  
 Dispatched through: BY HAND  
 Destination:  
 Terms of Delivery:

Buyer: St Xavier's College  
 Mahanagar Palika Marg, Chobi Talon, Tel-22620651  
 State Name : Maharashtra, Code : 27

Contract person : Mr Kamal  
 Contact : 9789512135

SI	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	LED FLOOD LIGHT 50W	9405	2.00 nos	2,400.00	nos	35 %	3,120.00
							187.20
	Less: SGST						187.20
	CGST						187.20
	Round Off						(-10.40)
	<b>Total</b>		<b>2.00 nos</b>				<b>₹ 3,494.00</b>

Amount Chargeable (in words): INR Three Thousand Four Hundred Ninety Four Only  
 E & D: E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
9405	3,120.00	6%	187.20	6%	187.20	374.40
<b>Total</b>	<b>3,120.00</b>		<b>187.20</b>		<b>187.20</b>	<b>374.40</b>

Tax Amount (in words): INR Three Hundred Seventy Four and Forty paise Only

Company's PAN: AAEPD281J  
 Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.  
 Customer's Seal and Signature: *Handwritten signature*

AMISON ENTERPRISE  
 505 - BOMBAY MARKET  
 TAJRHO ROAD, MUMBAI  
 Maharashtra - 27  
 TEL: 2262126 8231026  
 CELL: 9810140187  
 GSTIN/IN: 27AAEPC0281J1Z5  
 State Name: Maharashtra Code: 27  
 E-Mail: amison20@gmail.com  
 for AMISON ENTERPRISE  
*Handwritten signature*

This is a Computer Generated Invoice

LED Flood Lights



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation

*Handwritten signature*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
 (AUTONOMOUS)  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
 © 2262 0661/65

(3)

**TAX INVOICE**

Friends Electricals Company's GSTIN/UIN : 27ADTPG0650L129 <b>FRIENDS ELECTRICALS</b> OFFICE NO. 199, 1ST FLOOR, ASHOKA SHOPPING CENTER, L.T. ROAD, NEAR G.L. HOSPITAL, CONSUMER - MUMBAI - 400 001, The Bombay St. Xavier College Society C.S.T., MAHAPALIKA MARG, MUMBAI - 400001, Maharashtra - 400001, India State Name : Maharashtra, Code : 27	Invoice No. : 828/18-19 Date : 18-Jul-2018 Delivery Note : Mode/Terms of Payment : Supplier's Ref : Other Reference(s) : Buyer's Order No : Date : Dispatch Document No : Delivery Note Date : Despatched through : Destination : Terms of Delivery :
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Sl No	Description of Goods	HSN/SAC	Quantity	Rate per	Amount
1	EB - 8370 35 W LED Surface ( Hybac ) RECEPTION AREA	94054090	3 pcs.	2600.00	7,800.00
2	EB 8369 24 W LED Surface Panel ( Hybac ) RECEPTION AREA	94054090	2 pcs.	2400.00	4,800.00
Output CGST @6%					756.00
Output SGST @6%					756.00
<b>Total</b>					<b>14,112.00</b>

14,112.00  
E & OF

Amount Chargeable (in words)  
**INR Fourteen Thousand One Hundred Twelve Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
94054090	12,600.00	0%	756.00	5%	756.00	1,512.00
<b>Total</b>			<b>756.00</b>		<b>756.00</b>	<b>1,512.00</b>

Tax Amount (in words) : **INR One Thousand Five Hundred Twelve Only**

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

SUBJECT TO SUBJECT TO MUMBAI JURISDICTION  
 This is a Computer Generated Invoice

For Friends Electricals  
 Authorised Signatory

LED Surface Panel



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation

*Blinde*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



# ST. XAVIER'S COLLEGE

(AUTONOMOUS)

5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.

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TAX INVOICE						
<b>Friends Electricals</b> Company's GSTIN/UIN : 27ADTPG0650L129 <b>FRIENDS ELECTRICALS</b> OFFICE No: 136, 1st FLOOR, ASHOKA SHOPPING CENTER, L.T. ROAD, NEAR G.I. HOSPITAL, CONSIGNEE MUMBAI - 400 001. The Bombay St. Xavier College Society C S T MAHAPALIKA MARG, MUMBAI : 400001, Maharashtra - 400001, India State Name : Maharashtra, Code : 27			Invoice No <b>627/16-18</b>		Dated <b>18-Jul-2018</b>	
Buyer of other than consignee <b>The Bombay St. Xavier College Society</b> State Name : Maharashtra, Code : 27 GSTIN/UIN : 27AAATT4564O1ZK			Delivery Note <b>18-Jul-2018</b>		Mode/Terms of Payment	
Buyer's Order No Dispatch Document No Despatched Through Terms of Delivery			Supplier's Ref Other Reference(s)		Buyer's Order No Dated Dispatch Document No Delivery Note Date Despatched Through Destination	
Sl No	Description of Goods	HSN/SAC	Quantity	Rate per	per	Amount
1	Fixing for 35 W LED Surface Light Reception Area	988715	3 nos	300.00	nos	600.00
2	Fixing for 24 W LED Light Fixture Reception Area	988715	2 nos	300.00	nos	400.00
3	Providing & Fixing Light Point 1.5 Sq.mtr X 2 Nos. / Washb/Cv. Wc/ Pot/ck, PVC Chsted, Band Copping, Wristed Pipe, Romel Plug Screw, Etc.	985715	3 point	550.00	point	1,950.00
						2,950.00
Output CGST @8% Output SGST @5%						9 % 265.50 9 % 265.50
<i>Labour charges only for this light near reception area - A Mumbai by AGS/AGS</i>						
Total						<b>₹ 3,481.00</b> E & D
Amount Chargeable (in words) <b>INR Three Thousand Four Hundred Eighty One Only</b>						
HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
988715	2,950.00	9%	265.50	9%	265.50	531.00
Total	2,950.00		265.50		265.50	531.00
Tax Amount (in words) : <b>INR Five Hundred Thirty One Only</b>						
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.						for Friends Electricals 
SUBJECT TO SUBJECT TO MUMBAI JURISDICTION This is a Computer Generated Invoice						

LED Surface Lights



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

*Shinde*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
**(AUTONOMOUS)**  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
 ☎ 2262 0661/65

**TAX INVOICE**

Friends Electricals Company's GSTIN/UIN : 27ADTPG0650L129 <b>FRIENDS ELECTRICALS</b> OFFICE No. 156, 1st FLOOR, ASHOKA SHOPPING CENTRE NR, L.T. ROAD, NEAR ST. XAVIER'S HOSPITAL, CONSIGNEE MUMBAI - 400 001. The Bombay St. Xavier College Society C.S.T. MAHAPALIKA MARG, MUMBAI - 400001, Maharashtra - 400001, India State Name : Maharashtra, Code : 27	Invoice No. : 629/18-19 Dated : 18-Jul-2018 Delivery Note : Supplier's Ref. : Buyer's Order No. : Dispatch Document No. : Despatched through : Terms of Delivery :
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Sl. No.	Description of Goods	HSN/SAC	Quantity	Rate per	Amount
	Fixing for 30 W LED Spot Light (Chokers charges) <i>Reception lights</i>	998715	2 nos	200.00 nos	400.00
	Input CGST @9%			9 %	36.00
	Output SGST @9%			9 %	36.00
<b>Total</b>					<b>₹ 472.00</b>

₹ 472.00  
₹ 80.00

Amount Chargeable (in words)  
**INR Four Hundred Seventy Two Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
998715	400.00	9%	36.00	9%	36.00	72.00
<b>Total</b>	<b>400.00</b>		<b>36.00</b>		<b>36.00</b>	<b>72.00</b>

Tax Amount (in words) : **INR Seventy Two Only**

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

for Friends Electricals  
 Authorized Signatory

SUBJECT TO SUBJECT TO MUMBAI JURISDICTION  
 This is a Computer Generated Invoice

LED Spotlight



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation

*Shinde*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
(AUTONOMOUS)  
5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.  
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2017-2018

SR. NO.	QUANTITY	DESCRIPTION	RATE	PER	AMOUNT Rs. P.
		Bill given for repaired one 10 HP Beacon Water Pump, rewinded motor, replaced bearing, bush and other parts, refitted and started the pump on 10-4-18 for well water.			
1)		Rewinding 1 No. 10 HP Motor heating, varnishing			8,500.00
2)		2 Nos. ball bearing SKF 6308 & 6306			1,860.00
3)		1 No. Gun Metal Bush as per original			
4)		1 No. Water Deflector			480.00
5)		1 No. Lantern Ring			
6)		Gland packing asbestos			1,190.00
7)		1 No. Terminal Connector Bakelite			
8)		Rubber packing set for pump fitting			2,250.00
9)		Nut and Bolts for fitting pump			
10)		Repairing shaft on lathe Machine & Key Slot for fitting Impellar			2,250.00
11)		Transportation from College to workshop at Borivali			

Subject to Court Jurisdiction

Receiver's Signature \_\_\_\_\_ For ....2....

*Handwritten notes:* Bill No. 156, Date 12-04-2018, FROM Nitish Electricals, Suyog Mandir Co-op. Hsg. Soc. Ltd., Shop No. 9, Ram Mandir Road, Babhai, Borivali (West), Mumbai-400 091. Resi.: 2898 09 09, M.: 9869276137. N. B. :- Bill Not paid on Demand Interest @ 18 percent will be charged from the date Invoice. *Axis 1555 11/10/18 17:37/18* *R. 22500/-*

Bore well pump repair and maintenance



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

*Handwritten signature: Shinde*  
PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.



# ST. XAVIER'S COLLEGE

(AUTONOMOUS)

5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.

© 2262 0661/65

**VOICE** No. \_\_\_\_\_ Date 20 \_\_\_\_\_

FROM *Nitish Electricals*  
Suyog Mandir Co-op. Hsg. Soc. Ltd.,  
Shop No. 9, Ram Mandir Road, Babhai,  
Borivali (West), Mumbai-400 091.  
Resl. - 2885 09 09, M. - 9869276137

GOODS SENT THROUGH R/R. No. \_\_\_\_\_ Dated \_\_\_\_\_  
Documents Through L/R. No. \_\_\_\_\_

N. B. - Bill Not paid on Demand Interest @ 18 percent will be charged from the date Invoice.

SR. NO.	QUANTITY	DESCRIPTION	RATE PER	AMOUNT
				Rs. P.
12)		Our charges for removing pump, replacing above parts, repairing, refitting the same on foundation with new base frame and starting pump.		6,500.00
		Repairing the pump in our Workshop at Borivali.		
		Repairing total cost for the pump		20,780.00
13)		<u>ADDITIONAL CHARGES FOR NEW BASE FRAME</u>		
		Channel base frame size 4" X 2" "C"		2,000.00
		Channel as per frame size of the pump		
		Total Rs.		22,780.00
		Less; Discount ... .. (-) 780.00		
		(Rupees Twenty Two Thousand Only)		22,000.00
		TOTAL		22,000.00

Subject to Court Jurisdiction  
Receiver's Signature *CASHIER OPEN AREAS*  
*BORIVALI PUMP REPAIR*  
*MP 10-8886*

For **NITISH ELECTRICALS**

.....2....

Bore well pump repair and maintenance



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

*Shirke*

PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.





**ST. XAVIER'S COLLEGE**  
 (AUTONOMOUS)  
 5, Mahapalika Marg, Mumbai - 400 001,  
 INDIA.  
 © 2262 0661/65

2016-2017

**FRIENDS ELECTRICALS**  
 DEALS IN ELECTRICALS INSTALLATIONS  
 MAINTENANCE & REPAIRING  
 OFFICE ADD: 208, 1st Floor, Aaroka Shopping Centre, Near G.I. Hospital, L.T. Road, Mumbai - 400 001  
 TEL: PHONE NO. (O) 22635277 | M 9322223571, E-mail: friends\_electricals2008@gmail.com

LON 2  
 RP  
 ENK  
 10/17  
 3

**INVOICE**

To,  
 The Principal,  
 St. Xavier College,  
 C.S.T. Mahapalika Marg,  
 Mumbai - 400 001

PO No. \_\_\_\_\_ Bill No. 299  
 Date: 27/03/2017

S.No.	Description	Quantity	Unit	Unit Rate Rs.	Per	Total Amount
20	Proving for 10 W T 4 LED Light Fixture (V-Tar) (1 Year Warranty)	2	Nos.	440.00	Each	880.00

Tel: op: tube.  
 6206-0382

999  
 12485  
 13485

COOP  
 1555  
 4062282  
 215117  
 Electrical Accessory

SUB TOTAL :- 880.00  
 Vat 13.50% 118.80  
 GRAND TOTAL:- 998.80  
 ROUND OF AMOUNT 999.00

RUPEES :- Nine Hundred & Ninety Nine Only.

**BANK DETAILS : FRIENDS ELECTRICALS**  
 BANK NAME : ANIX BANK LTD  
 ACCOUNT NO. : 910020001073186  
 CUSTOMER ID : 033554345  
 MICR CODE : 400211028  
 IFS CODE : UTIB0000294

VAT TIN NO: 27720781663 V.w.e.f. 12/07/2010  
 CST TIN NO : 27720781663 V.w.e.f. 12/07/2010  
 PAN NO. : ADTPG0650L  
 SERVICE TAX NO. ADTPG0650LSD002

29 MAR 2017  
 ADMINISTRATOR

For: FRIENDS ELECTRICALS  
 Signature

LED Light Fixtures



NAAC SSR Cycle 4 (2015-2020):  
 7\_1\_2\_EnergyConservation

*Shinde*  
 PRINCIPAL  
 ST. XAVIER'S COLLEGE  
 (AUTONOMOUS)  
 MUMBAI - 400 001.



**ST. XAVIER'S COLLEGE**  
(AUTONOMOUS)  
5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.  
© 2262 0661/65

2015-2016

957 ①

**PRACHI ELECTRICAL**  
DEALS IN ELECTRICALS INSTALLATIONS  
MAINTENANCES & FABRICATION  
OFFICE ADD:- 208, 1st Floor, Ashoka Shopping Centre, Near G.T. Hospital, L.T. Road, Mumbai - 400 001  
TELEPHONE NOs: (G) 22622277 (H) 952222571 E-mail: friendselectricals2010@gmail.com

**INVOICE**

To,  
The Principal,  
St. Xavier College,  
C.S.T. Mahapalika Marg,  
Mumbai - 400 001

Ref No \_\_\_\_\_ Bill No. 1  
Date: 06/04/2016

Sr.No.	Description	Quantity	Unit	Unit Rate Rs.	Per	Total Amount
10	Providing For 25 w LED Tube Light Fixture	100	Nos.	440.00	Each	44000.00

*Supplying copper chafing  
to leading to background & wires*

*CORP  
155  
17-345478  
13/4/16  
Electrical Accessories*

Stamp: ST. XAVIER'S COLLEGE, MUMBAI, 07 APR 2016, Principal's Office

Signature: \_\_\_\_\_  
Principal, ST. XAVIER'S COLLEGE, MUMBAI

SUB TOTAL > 44,000.00  
GRAND TOTAL > 44,000.00

**RUPEES:- Forty Four Thousand Only**

**BANK DETAILS :- PRACHI ELECTRICAL**  
BANK NAME : AXIX BANK LTD  
ACCOUNT NO. : 913020013228423  
CUSTOMER ID : 848312057  
MICR CODE : 400211028  
IFS CODE : UTIB0000294

Permanent Account Number : AEJPG 2298D

For :- PRACHI ELECTRICAL  
*Prachi*  
Proprietor

\* We hereby verify that registration certificate under the GST Act 2017 is in force on the date on which the sale of the goods specified in this invoice is made by me and that the registration of sale covered by this invoice is effective by me and I shall be accounted for in the turnover of 2017 while filing of return and the due tax, if any, payable on the said date shall be paid.

LED Tube Light



NAAC SSR Cycle 4 (2015-2020):  
7\_1\_2\_EnergyConservation

*Alinda*  
PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.