

SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : www.frcrce.ac.in • Email : crce@fragnel.edu.in

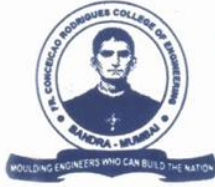


Metric No. 7.1.2

ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

Additional Information





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1. Alternative sources of energy and energy conservation measures

a. Solar Energy

It is the need of the hour to reduce the burden on the planet earth for energy requirements generated from the conventional energy methods. The conventional energy generation methods are polluting the environment and depleting the natural resources, which are already scarce, at a faster rate than before. Now it is in the best interest of humanity to search and tap alternative energy resources that are green and efficient. Institute is very sensitive to energy issues and responded to it positively. Institute has installed Solar Panel as an alternate energy initiative in the academic year 2017-2018. The daily generation report is attached as proof. The total power consumption is calculated based on the attached monthly bill.





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REPLACEMENT

14.7

Solar

Ref. No: METER / C. T. INSTALLATION / CHANGE / REMOVAL REPORT & NOTICE
LD-11

Date: 26-10-2017

Contract Account No: 151613244

MRU No: B-01

Name: M/S Society of St. Francis Xavier

Order No: 1022401553

Address: Technical college building Pillar

Nr. Tajland Road Bandstand B-3

Dear Customer, Road Bandra (W)

This is to bring to your notice that following activity carried out at your premise:

Installation: NEW / EOL / ROL / CHECK METER

Replacement: ROUTINE / STOPPED / NO DISPLAY / FAULTY / BURNT / DISPUTED / UNDER RECORDING / OTHER

Removal: SURRENDER / IDLE / TMR / NON-PAYMENT

Net

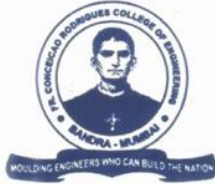
Solar

Details :		Old (Removed)				New (Installed)			
Meter Details	Meter No.	L987233				9073697			
	Type	E31055				20-100A			
	Size	5-10 A				20-100A			
CT Details	Phase	R	Y	B	N	R	Y	B	N
	Make	ARCO							
	Type	RING							
	Ratio	200155/0155/0155/0155/0155							
	Sr. Nos.	EFC13-04001							
Readings	kWH	00				00			
	kVA(06-22Hrs.)	00				00			
	kVARH	00				00			
KWH	TOD 01(06-09Hrs)	00				00			
	TOD 02(09-12 Hrs)	00				00			
	TOD 03(12-18 Hrs)	00				00			
	TOD 04(18-22 Hrs)	00				00			
	TOD 05(22-06 Hrs)	00				00			
	kVA(22-06Hrs)	00				00			
	kW(24 Hrs.)	00				00			
	kVA(24 Hrs)	00				00			
Seal Details	Meter Terminal seal	12255211/12255212				12669594/95			
	FUNCTION Seal								

In case of any queries, you may contact Mr. V. Borikov

Prepared By		Acknowledged By	
Signature		Signature	
Name of Person	<u>R.M. Maykov</u>	Name of Person	<u>V. BORIKOV</u>
Designation	<u>Supervisor</u>	Tel No.	<u>9871540554</u>
Pay Roll No	<u>P10012321</u>	Date & Time	<u>26/10/17</u>





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DESIGN, CONSTRUCTION, INSPECTION, TESTING, COMMISSIONING & HANDOVER REPORT

Site Location	Fr. Conceicao Rodrigues College of Engg., Fr. Agnel Ashram, Bullock Road, Bandstand, Bandra West, Mumbai 400 050, Maharashtra, India. Email : bhoir@fragnel.edu.in Phone # 022-6711 4000
Site Contact Persons & details	Dr. Deepak Bhoir (HoD), Mob. # 98694 33765 Prof. Mahesh Sharma (TPO), Mob. # 99698 13735 Dr. Srima Unnikrishnan (Principal)
Certificate Reference No.	COMSREP/FRCOE/SPV/40KW/OCT17

Solar PV details		
1.	PV Plant (Array) size	40KWp
2.	PV module make & model	VIKRAM SOLAR 320
3.	PV module capacity	320Wp x 125nos.
4.	PV module string size	08 nos.
5.	Manufacturer Product warranty	12 years
6.	Manufacturer Linear Efficiency warranty	25 years

Solar Inverter details		
7.	Solar Inverter make	SMA-ZEVER
8.	Solar Inverter model	ZEVERLUTION PRO 33K String Inverter with ZeverCom Wi-Fi device
9.	Solar Inverter Serial No. / Monitor Serial No.	ZP033K6011650042 / EAB971740536
10.	Solar Inverter capacity	33KWp x 01 nos.
11.	No. of DC inputs (MPPTs)	04 nos.
12.	Manufacturer warranty	05 years

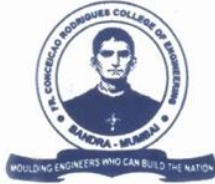
Balance of System (BoS) details		
13.	Solar DCDB (Fuses/SPD/Isolators etc)	Solstrom Energy
14.	Solar ACDB (Fuses/SPD/Isolators etc)	Solstrom Energy
15.	Module Mounting Structure (MMS)	Anodised Aluminium on Sloping Roof + Metal structure with Galvanic coating
16.	Lightening Arrestor (L.A.)	Pure Copper rod mounted on GI strip/wire
17.	Solar DC Cabling	Unicab by Apar Industries
18.	Solar DC Earthing	Local pit
19.	Solar AC Cabling	Polycab Industries
20.	Solar AC Earthing	Local pit
21.	Distribution Company (DISCOM) / NetMetering Details	RELIANCE ENERGY - Consumer A/c. No. 151613244 Meter No. L987233

The above mentioned Solar PV Plant has been Commissioned & Delivered/Handed-over to us effective **26-OCTOBER-2017**.

Name : Dr. Deepak V. Bhoir
Signature: [Signature]
Date : 22/02/2019
(For Fr. Conceicao Rodrigues College of Engg., Bandra)

Name : PRASAD KULKARNI
Signature: [Signature]
Date : 19/2/19
(For BigSwitch India)





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olar energy

Fr. Conceicao Rodrigues College of Engineering has taken a Conscious decision to go ahead with this go green project to begin with for 40 KWp roof top Solar Power.

- ✓ Solar electricity is being clean (pollution free), silent, limitless and free.
- ✓ Generate electricity using photovoltaic solar cells.
- ✓ Approved by Maharashtra Energy Development Agency (MEDA) (Govt. of Maharashtra Institution)
- ✓ On-line monitoring procedure for the actual energy generation and the pattern.

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

18.31 %

b. Annual power requirement met by the renewable energy sources (in KWH)

19,863 units.

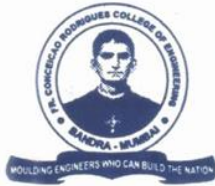
c. Total annual power requirement (in KWH)

1,08,462 units.

(From Electricity Bill) Total units consumed in college from July 2020 to June 2021 =
1,08,462 units.

3. Wheeling to the Grid (KWH)

4794 units.



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adani
Electricity



CRCE

BILL OF SUPPLY
PUBLIC SERVICE-OTHER



Electric 120440
Smiles Points Earned



QR code for
Bill payment

SUPERIOR CHAIRMAN

SOC OF ST FRANCIS XAVIER PILLAR-INDIA AGNELASHRAM BAN
D STAND BANDRA (WEST, NEAR TAJ LAND HOTEL, MUMBAI 4000
50

Mobile: 99*****17

Email: ra*****64@gmail.com

PAN: AA*****B2Q

OST:

BILL DATE

05-07-2023

TARIFF

LT (V (B)

BILL DISTRIBUTION NO

Vandre/Bandra/33/103//

METER STATUS

Active

CONNECTION DATE

Prior to Aug 2011

BILLING STATUS

Regular

CYCLE NUMBER

33

CONTRACT DEMAND (NVA)

210 00

PRESENT READING DATE

30-06-2023

TYPE OF SUPPLY

LT

BILL NUMBER

10011028127

PREVIOUS READING DATE

31-05-2023



CA NO: 102690881

₹150060.00*

Due Date: 26-07-2023

The due date refers to only current bill amount.
previous balance is payable immediately.

Bill Month

JUN-23

Bill Period: 01 06-2023 - 30 06 2023

Units Consumed

13668

Previous Units: 17192

Current Month Bill ₹

150442.48

Previous Outstanding ₹

3.14

- Round sum payable by discount date: 12-07-2023 Amt: ₹148860.00 Discount: ₹1202.77
- Round sum payable after due date: 26-07-2023 Amt: ₹151940.00 UPC: ₹1880.33

Nearest Collection Centre (Cash/Cheque)

Adani Electricity, Oracle Point, Opp Bandra Stn. Next to Sahakar Bazar, Behind Lijjat Papad Shop, Bandra (West), Mumbai-400050

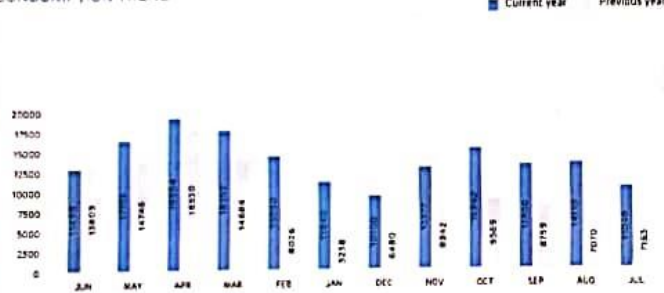
Signature

Adani Electricity
Customer Service

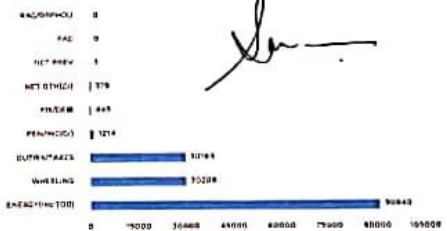
Scan code to pay your bill via (Use any UPI app)

UPI BBPS NACH

CONSUMPTION TREND



MAJOR BILL COMPONENTS (rounded off) (₹)



PRINCIPAL PLACE OF BUSINESS / CONSUMER GRIEVANCE REDRESSAL FORUM (CGRF)

Address: Adani Electricity, Devidas Lane, Off SVP Road, Near Devidas Lane Telephone Exchange, Borivali West, Mumbai 400 103

Email: consumerforum.mumbai@adani.com

Website: cgrf.adanelectricity.com

Phone: 022-50745004

REGISTERED OFFICE AEML

Address: Adani Corporate House, Shantigram, Near Vaishna Devi Circle, S G Highway, Khodiyar Ahmedabad, Gujarat, India - 382421

CIN: U74999GJ2008PLC107256

PAN: AADC00086F

GSTIN: 27AADC00086F12W

HELP CENTER

19122 Toll Free No. (24x7)

www.adanelectricity.com

helpdesk.mumbai@adani.com

Adani Electricity, Oracle Point, Opp Bandra Stn. Next to Sahakar Bazar, Behind Lijjat Papad Shop, Bandra (West), Mumbai-400050

For power interruption complaint or restoration status
SMS POWER <9 digit account no.> to 7065313030 from mobile no
Whatsapp POWER <9 digit account no.> to 9594519122 from any mobile number

Give us missed call on 1800 532 9998 from your registered mobile no.

For Portal Related Complaint call us: 19122

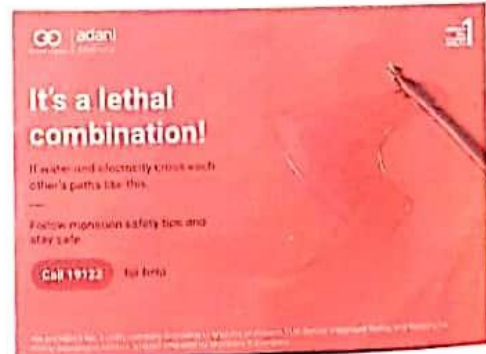
For Internal complaint redressal system(ICRS), visit our website:

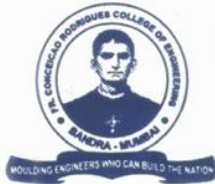
www.adanelectricity.com

Join us on:

This bill is printed on recycled paper.

- You have opted for NACH. This bill will be paid automatically and is for record only NACH Mandate Rs. 500000.00
- We f 1st April 2022 TCS @ 0.1% is applicable on collection amount exceeding Rs.50 Lakh. TCS at penal rate is applicable for no PAN and w/s 206CCA for non filing of Income Tax Return
- In view of MERC order in case no. 325 of 2019, cash payment limit towards electricity bills is fixed at Rs.5,000/- per account per month. For payment of amount greater than Rs.5,000 please use convenient digital channels / online / cheque modes
- Meter reading as on 01.08.23 will be downloaded for preparing JUL-23 bill





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HOW YOUR BILL WAS CALCULATED

Heads	Rate	Amount (₹)
Electrical Energy (HSN code 27160000)		
1. Demand/Fixed Charge		445.00
2. Wheeling Charges		30206.28
3. Regulatory Asset Charge		0.00
4. Energy charge		90208.80E
5. TOD 9 Hrs to 12 Hrs energy charge		1358.00
6. TOD 18 Hrs to 22 Hrs energy charge		1591.00
7. TOD 22 Hrs to 06 Hrs energy charge		2317.50Cr
8. Fuel Adj. Chg (FAC)₹	0.00	0.00
9. Penalty for exceeding contract demand		1214.92Cr
10. Power Factor (PF) penalty/incentive		25513.23
11. Government Electricity Duty	21.00%	4652.59
12. Mah.Govt.Tax on sale of electricity	34.04p/unit	150442.48
(A) Current month's bill amount (Sum of 1-12)		150442.48
a. Others / 50 Interest		0.00
b. Delayed Payment Charge (DPC) levied		0.00
c. Digital Payment Discount		379.35Cr
d. Interest on arrears		0.00
e. Adjustments		0.00
(B) Net other charges in current bill (Sum of a to e)		379.35Cr
Total current month charges (A+B)		150063.13
Previous month's bill amount		189503.14
Payment received (09-06-2023)		187982.59
Prompt payment discount		1517.41
(C) Net previous balance		3.14
Total Bill Amount (A+B+C)		150066.27
Amount deferred		0.00
DPC payable after due date		1880.53
Total bill amount with DPC		151946.80

Contract Demand	Demand for penalty	Load Factor	Average Power Factor
210.00kVA	0.00kVA	%	96.60% lag
Your security deposit (SD) with us ₹			155194.33
Your unpaid security deposit (SD) ₹			

YOUR CURRENT CONSUMPTION

Meter Details	Meter No	Multiplying Factor	9007757	L985576
Energy consumption	Reading	Present	269934.60	41472.09
		Previous	265702.40	41000.30
	Consumption (kWh)		4232	9435
TOD energy consumption	Reading	Present	85777.60	9570.38
09:00 Hrs - 12:00 Hrs		Previous	84470.00	9499.96
	Consumption (kWh)		1307	1408
TOD energy consumption	Reading	Present	12194.30	4236.41
18:00 Hrs - 22:00 Hrs		Previous	11948.30	4169.17
	Consumption (kWh)		246	1344
TOD energy consumption	Reading	Present	17792.50	7575.17
22:00 Hrs - 06:00 Hrs		Previous	17386.00	7441.02
	Consumption (kWh)		406	2683
Max demand (MD) (Recorded between 06:00 - 22:00 Hrs)	Reading		34.760	2.778
	MD (kVA)		34.76	55.56
Max demand (MD) (Recorded between 00:00 - 24:00 Hrs)	Reading		34.760	2.778
	MD (kVA)		34.76	55.56
Reactive energy consumption (Lag)	Reading	Present	106748.80	10035.29
		Previous	105932.70	9903.38
	RKVAH		816	2638
Reactive energy consumption (Lead)	Reading	Present	1160.70	512.91
		Previous	1147.10	504.59
	RKVAH		13	166

Billing Demand is kVA

YOUR TARIFF STRUCTURE (EFFECTIVE FROM 01/04/2023) ₹

LT IV (B) PUBLIC SERVICE - OTHER Units/Month	Fixed Charge Per month	Energy Charge Per Unit	Wheeling Charge Per Unit	FAC Rate Per kWh
all units	445.00	6.60	2.21	
TOD Tariffs (in addition to above base tariffs) specially available where TOD meter installed				
06:00 to 09:00 Hrs			0.00	
09:00 to 12:00 Hrs			0.50	
12:00 to 18:00 Hrs			0.00	
18:00 to 22:00 Hrs			1.00	
22:00 to 06:00 Hrs			0.75	

YOU CAN USE RTGS/NEFT VIA NET BANKING FOR BILL PAYMENTS EVERY MONTH REFER FOLLOWING DETAILS

Payee Account No.	EPAEAL102690881	
Payee Name	ADANI ELECTRICITY MUMBAI LIMITED	IFSC: HDFC0004989
Account Type	Current	Bank Name: HDFC Bank Ltd
Branch Name	Karjurnagar Branch, Mumbai	

ADVANCE PAYMENT DETAILS (₹)

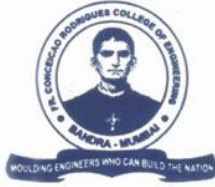
Opening Balance	Adjustment	Interest	Closing Balance

ADJUSTMENTS/TCS DETAILS (₹)

To view supply code SOP, including power quality regulation 2021, Scan the QR code below or visit: <https://www.adanilectricity.com/regulatory>

PAYING BY CHEQUE, PLEASE REMEMBER

- For Cheque payments, Date of realization of cheque or 3 days from submission of cheque (whichever is earlier) shall be deemed to be the date of receipt of payment (subject to realization)
- Cheque should be Account payee of local clearing and not post dated
- Mention A/c No. and respective amount on back of the cheque, when making multiple bill payments by single cheque
- Make cheque payable to Adani Electricity Mumbai Ltd. A/C No. 102690881



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11/29/23, 1:04 PM Overview - Solplanet

Solplanet Overview Plant Service bhoir@fragnel.edu.in

All plants 1

Normal	Offline	Error	Warning
1 >	0 >	0 >	0 >

E-month 1.15MWh

E-today 32.39kWh

E-total 161.45MWh

Percentage of power 25.85%

Installed capacity 40 kWp

Power 10.33 kW

Equivalent Hour Ranking No data

Energy conservation

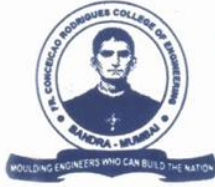
Tree planting	CO2 saved	Standard coal
11 Trees	129.16 T	64.58 T

Power generation Income Same period comparison

Day Month Total

<https://intemation-cloud.solplanet.net/overview/overviewplant>

2022 1/2



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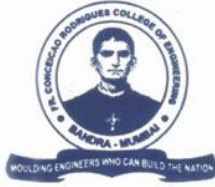
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11/29/23, 1:04 PM

Overview - Solplanet





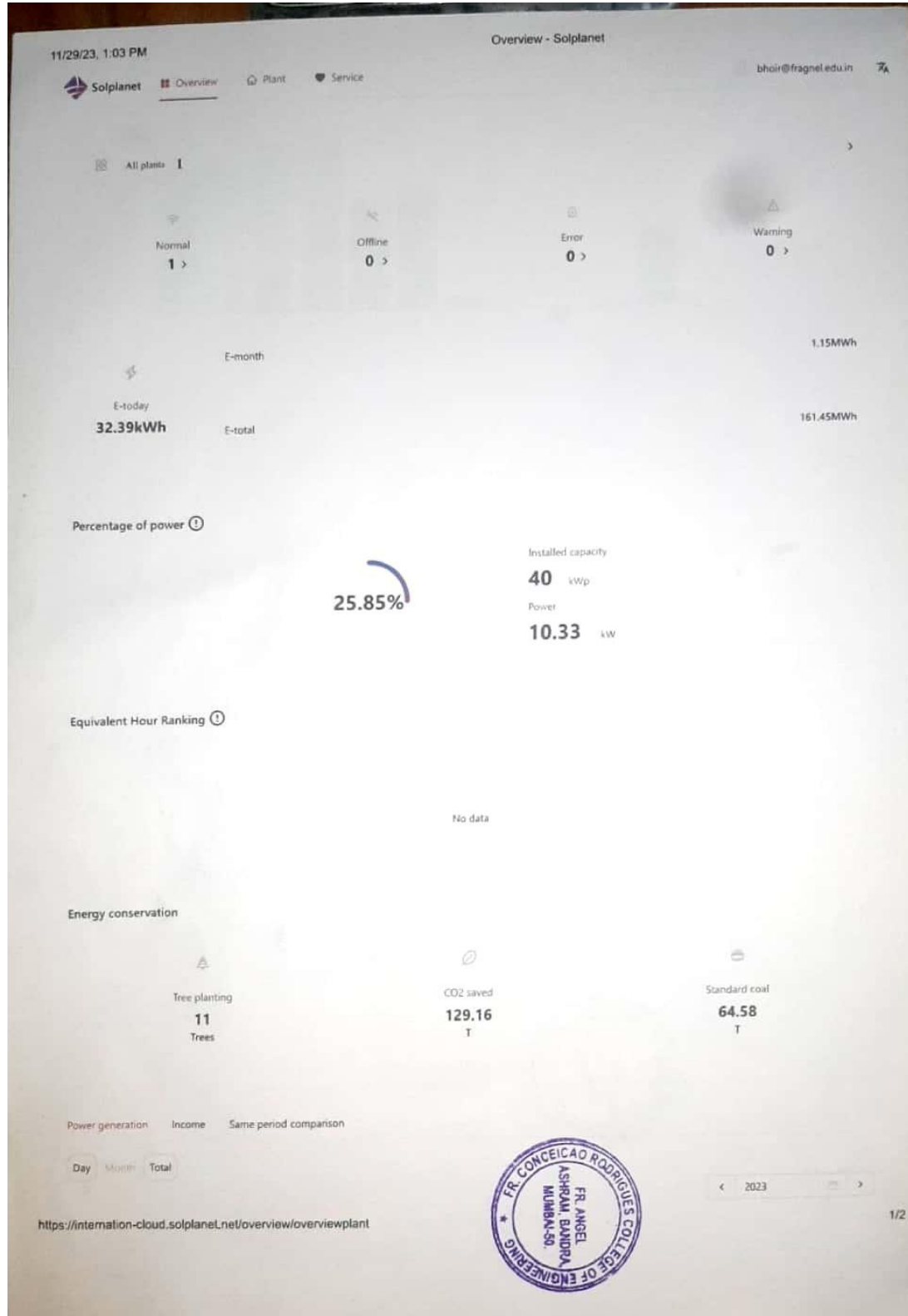
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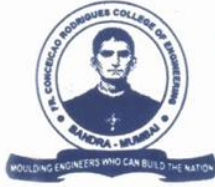
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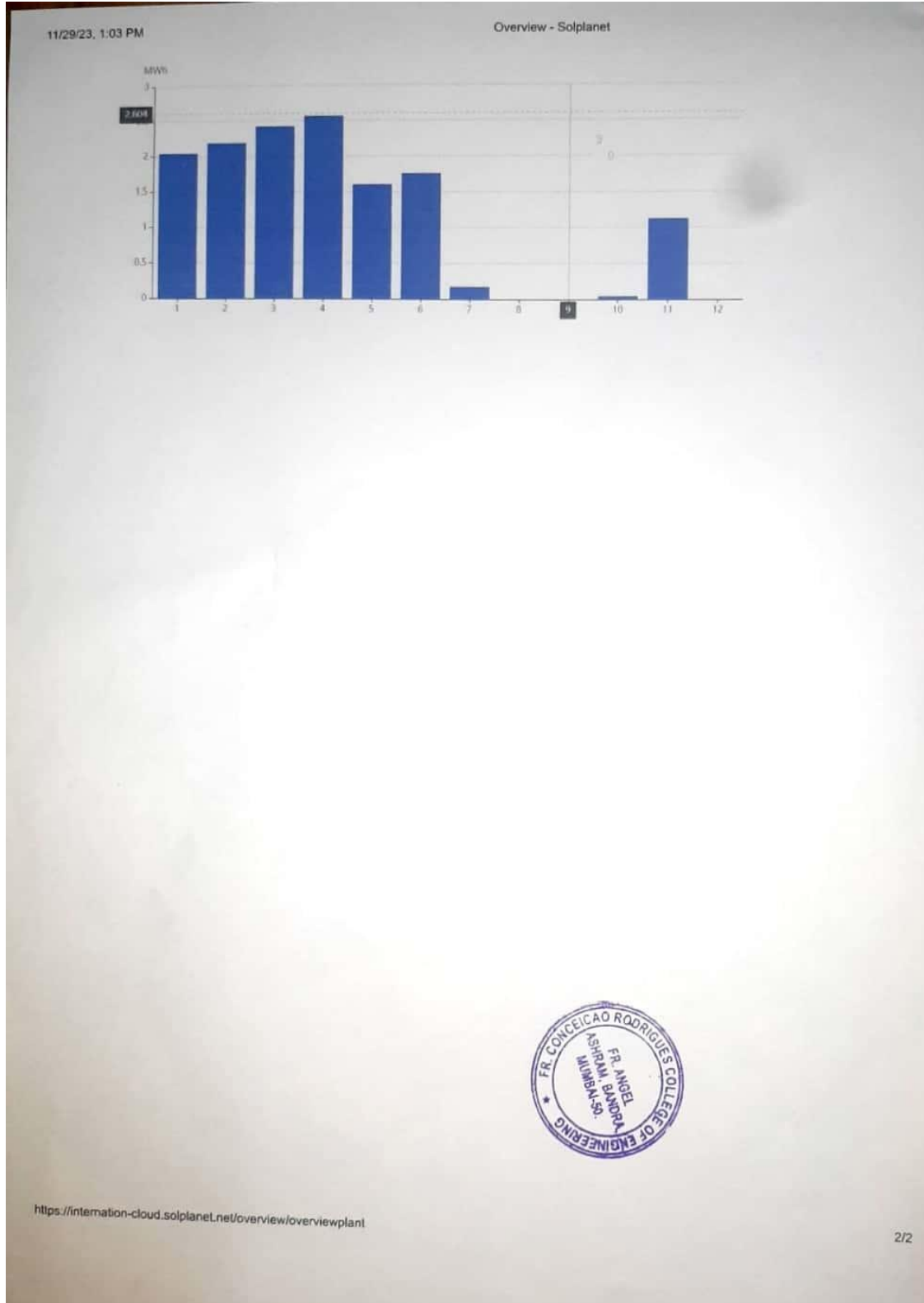
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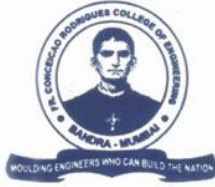
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Fr.CRCE 40KWp On-Grid Solar PV, BandStand, Bandra West, Mumbai 400050, INDIA Overview

Update Time: 2022-11-22 15:38:15



Power

8.95 kW



E-Today

81.6 kWh



E-Total

145.06 MWh



CO2 Avoided

116.05 t



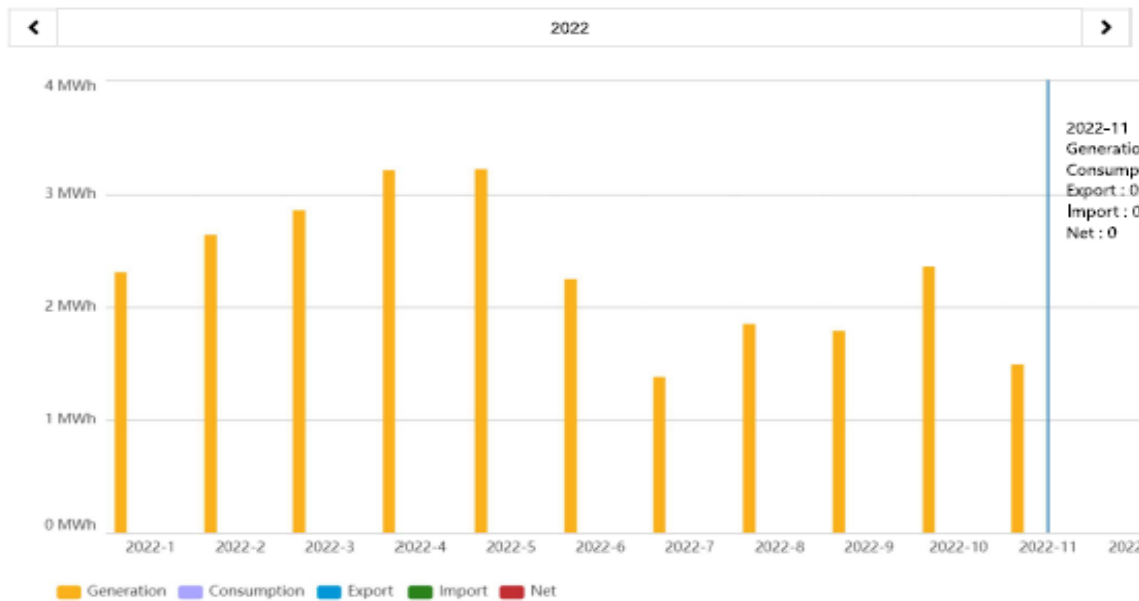
Total Income

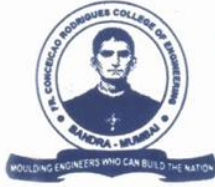
1645721.6 Rs.

Real-time weather

N/A

Day Daily Monthly Annual Annual Yield





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11/11/21, 3:19 PM

ZeveCloud : Overview

Fr.CRCE 40KWp On-Grid Solar PV, BandStand, Bandra West, Mumbai 400050, INDIA

Overview

Update Time: 2021-11-11 15:13:19



Power

8.74 kW



E-Today

73.4 kWh



E-Total

116.16 MWh



CO2 Avoided

92.93 T



Total Income

1317844.2 Rs.

Real-time weather

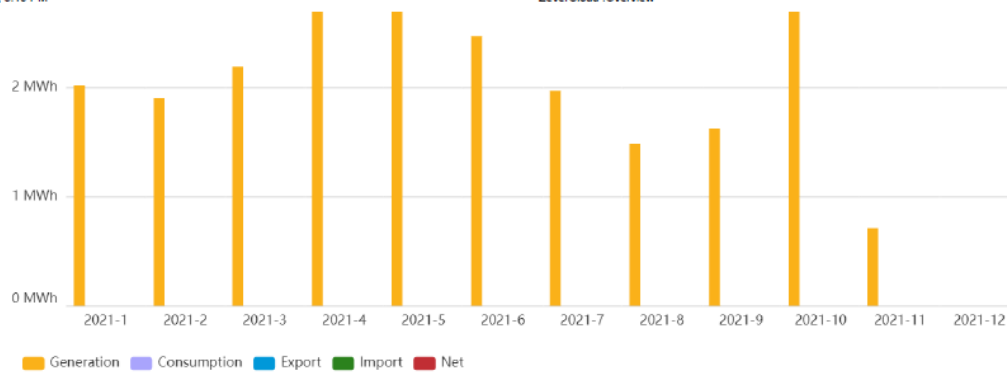
N/A

Day Daily Monthly Annual Annual Yield



11/11/21, 3:19 PM

ZeveCloud : Overview



Status	Alias	Pac(kW)	E-Today(kWh)	E-Total(MWh)	%(E-Today)
	ZP033K6011650042	8.741	73.4	119.509	100.0

< 1 >

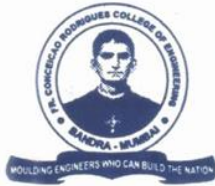
Tips

Online .

Uploading Data .

Offline .

Solar Power generation report for the year 2021-2022



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : www.frcrce.ac.in • Email : crce@fragnel.edu.in

b. Use of LED bulbs/ power efficient equipment

Operating hours considered as 10 Hrs/Day

Sr.No.	Number of LEDs	Wattage
1	210	15 W
2	10	08 W
3	03	18 W
Total	223	41 W

Use of LED bulbs

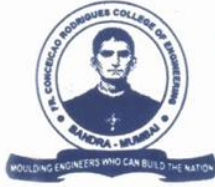
- 1) Annual lighting power requirement (in KWH)
93,043 units.
- 2) Annual lighting power requirement met through LED bulbs (in KWH)
9523 units.
- 3) Percentage of annual lighting power requirements met through LED bulbs
10.24 %.

Use of Tube lights

Operating hours considered as 10 Hrs/Day

Sr.No.	Number of LEDs	Wattage
1	800	36 W

- 1) Annual lighting power requirement (in KWH)
93,043 units.
- 2) Annual lighting power requirement met through Tube lights (in KWH)
83,520 units.
- 3) Percentage of annual lighting power requirements met through Tube Lights
89.76 %.



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