

Environmental Consciousness and Sustainability

7.1.2

The institution has facilities for alternate sources of energy and energy conservation measures



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VAAGDEVI PHARMACY COLLEGE

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P.O.BOLLIKUNTA, WARANGAL-506 005 (TELANGANA STATE)

The Institution has facilities for alternate sources of Energy and Energy Conservation Measures

1. Solar panels

• Solar panels are placed on the buildings for the use of renewable energy. Solar technology is used to perform energy conservation measures at our institution. Energy providers and utilities generate electricity on a vast scale to power the campus using solar photovoltaic and concentrating solar power technologies. To conserve energy, our management has used the following alternative sources. To combat climate change, solar photovoltaic systems are installed on our premises. A solar PV system is linked to the main electrical grid to enable power produced by solar panels.

S.No	Description	No.Of Items
1	No of Solar Panels	307
2	No of Inverters	3
	Rating of Inverter	33KVA
3	Capacity of Each panel	325W
3	Capacity of the plant	100KW

Annual power generated by renewable energy sources

S.No	Year	Total power requirement	Total Solar Energy supplied to the Grid KW
1	2022 - 2023	97480	28582



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Solar Energy Panels



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3. Proofs for wheeling to the Grid

NORTHEN POWER DISTRIBUTION COMPANY OF TS LIMITED

M. NAKKALAGUTTA
 A/c No. 62445007056
 JUL-2022
 PAN No. AABCG273L
 DATE: 26/07/2022

SCND: 66L146 (W)
 VAGDEVI COLLEGE OF ENGINEERING
 BOLLIKUNTLA (V)
 SANGAM (M)
 WARANGAL,
 PHNO: 17799176967

	KWH	KVAH	KVA	TDS	KMSOLAR	KVAHDLAR
Reading on 21-JUL-22	1061412.00	1127004.00	243.00	T1 3337.00	489285.00	496984.00
Reading on 21-JUN-22	1029969.00	1090996.00		T2 4856.00	487858.00	495354.00
Difference	31443.00	37908.00		T3 9861.00	1428.00	1428.00
Multiplying Factor	1.00	1.00	1.00	1.00	1.00	1.00
Total Consumption	31443.00	37908.00	243.00		1428.00	1428.00
Monthly Minimum	7600.00		304.00			0.00
Consumption Main				Solar Carry forward CE		0.00
Power Factor	0.83	37908.00		Solar Carry forward CE		0.00
		Status: 01-Live(L)				

Demand Charges Normal Rate
 Rs 475.00 for 304.00 KVA
 Rs. Rs.
 144400.00

Energy Charges For Units consumed
 Rs. 8.80 for 36480.00 KVAH
 321024.00

New Time of Day Tariffs(6PM TO 10PM)
 Rs 1.00 4856.00 4856.00
 New Time of Day Tariffs(6AM TO 10AM)
 Rs 1.00 3337.00 3337.00
 New Time of Day Tariffs(10PM TO 6AM)
 Rs-1.00 9861.00 -9861.00

Electricity Duty Charges
 Rs 0.06 for 37908.00
 2274.48

Sub Total 166039.46
 Electricity Duty Interest 40.05
 Customer Charges 2000.00
 ACD Surcharge 549.75
 Round Amount -0.23

Current Bill Amount 168617.00
 Arrears 0.17
 Bill Amount INCL. Arrears 168617.17

Please Pay your bill to A/c No.62445007056
 SBI, Nakkalagutta, Hanankonda
 IFSC Code: SBIN0020150

Last Paid Amount Rs. 484508.00 DT:08-JUL-2022

Rupees Four Lakh Sixty Eight Thousand Six Hundred Seventeen and Paise Se-
 venteen only)

C. & O.C
 Senior Accounts Officer

NOTE: Please Contact the Senior Accounts Officer of the Operation Circle at His office
 for any information on bills discrepancies.



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NORTH-ANDHRA POWER DISTRIBUTION COMPANY LIMITED

Bill No: 484508/19
Date: 28/07/2022

Customer Name: VAGDEVI COLLEGE OF PHARMACY
Address: BOLLIKUNTA (VI), SANGAM (H), WARANGAL, PIN: 506005

	KWH	EVAN	EVA	TDS	EMV SOLAR	AMV SOLAR
Reading on 21-JAN-22	109429.00	1094095.00	291.40	T1 2736.00	467856.00	497856.00
Reading on 19-MAY-22	993679.00	1050372.00		T2 5573.00	462833.00	492833.00
Difference	36290.00	43724.00		T3 10768.00	5325.00	5325.00
Multiplying Factor	1.00	1.00	1.00	1.00	1.00	1.00
Total Consumption	36290.00	43724.00	281.60	10768.00	5325.00	5325.00
Monthly Minimum Consumption Min	7600.00		304.00		Solar Carry Forward CR	0.00
Power Factor	0.83	43724.00			Solar Carry Forward CR	0.00
		Status: 01-Live(L)				
Demand Charges Normal Rate			Rs 475.00 for	304.00 EVA		1468.00
Charge Charges For Units consumed			Rs. 8.80 for	36299.00 EVAN		31911.20
New Time of Day Tariff(6PM TO 10PM)			Rs 1.00	5573.00		5573.00
New Time of Day Tariff(6AM TO 10AM)			Rs 1.00	2736.00		2736.00
New Time of Day Tariff(10PM TO 6AM)			Rs-1.00	10768.00		-10768.00
Electricity Duty Charges			Rs 0.06 for	43724.00		2023.44
Sub Total						481476.44
Electricity Duty Interest						32.31
Customer Charges						2000.00
Round Amount						0.00
Current Bill Amount						484508.75
Arrears						0.00
Bill Amount INCL. Arrears						484508.75

Note: Pay your bill to A/c No. 62489007996
SBI - Nakkalagutta, Hanamkonda
IFSC Code: SBIN00020150

Senior Accounts Officer

Amount Paid Rs. 436744.00 Dt: 06-JUN-2022

Amount Four Lakh Eighty Four Thousand Five Hundred Eight and Paise Seven (seven only)

C. & O.E

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Handwritten notes:
A/c security
Paper charge Rs. 4,86,508.00
28/7/22



Signature
Principal
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Bollikunta, Warangal-506005 (T.S)



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VAAGDEVI PHARMACY COLLEGE
BOLLIKUNTA, WARANGAL

DATE: 25/05/2022

SCHE: BOLL148 (306158,306096)
VAAGDEVI COLLEGE OF ENGINEERING
BOLLIKUNTA (V),
SANGAM (M),
WARANGAL.,
PINNO: (7799170069)

Category: 11 DISMS

	KWH	KVAH	KVA	TDS	KVHSOLAR	KVAHSOLAR
Wasting on 19-05-22	9955.79 00	1050372.00	264.40	T1 2679.00	482533.00	498231.00
Wasting on 20-05-22	10127.00	1012195.00		T2 5163.00	476265.00	481963.00
Wasting on 21-05-22	1152.00	10267.00		T3 10261.00	6268.00	6268.00
Wasting on 22-05-22	1.00	1.00	1.00	1.00	1.00	1.00
Tax on Consumption	2252.00	39267.00	264.40		6268.00	6268.00
Wasting on Meter	768.00		384.00		6268.00	6268.00
Power Factor	0.89	39267.00			Solar Carry forward DB	0.00
		Status: 01-Live(L)			Solar Carry forward CB	0.00

	Rs. Ps.
Sub Total	434728.22
Electricity Duty Interest	16.10
Customer Charges	2000.00
Round Amount	-0.32
Total	436744.00
Less: Paid Amount to	293816.00
Dr: 18-MAY-2022	
Bill Amount INCL. Arrears	436744.17

Senior Accounts Officer

at his office

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RECPTS/04/2022
 28.10.2022
 BOLLIKUNTA

	SUN	MON	TUE	WED	THUR	FRI	SAT	SUNDAY	TOTAL	AMOUNT
Electricity Charges - Normal Rate	1111.00	1111.00	1111.00	1111.00	1111.00	1111.00	1111.00	1111.00	7777.00	7777.00
Electricity Charges - Special Rate	...	...	...	...	...	...	...	...	...	...
Electricity Duty Charges	...	...	...	...	...	...	...	...	...	...
Sub-Total										27060.83
Electricity Duty Interest										17.33
Customer Charges										1888.00
Round Amount										-0.18
NET AMOUNT DUE FOR 2021-2022										29965.98
Current Bill Amount										23816.00
Arrears										0.17
Bill Amount INCL. Arrears										23816.17

Pay your bill to M/s. NTPC (Retail) Services, BSNL, Naktalaguda, Warangal
 BSNL Code: 281902010

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NORTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED

STIN: 36AABCN2875L3Z1
Bill for the month of

MAR-2022

PAN NO: AABCN2875L
DATED: 26/03/22

Payable on or before : 09/04/22
Disconnection Date : 24/04/22
Contracted MD (KVA) : 380
Specified Voltage (KV) : 11
Actual Voltage (KV) : 11 (COMM-FEEDER)
Category : II OTHERS

SCNO: WGL146 (WGL158, WGL096)
VAAGDEVI COLLEGE OF ENGINEERING
BOLLIKUNTLA (V),
SANGAM (M),
WARANGAL,,
PhNo: (7799176969)

	KWH	KVAH	KVA	TDS	KWHSOLAR	KVAHSOLAR
Reading on 21-MAR-22	934688.00	979362.00	108.00	T1 1006.00	469829.00	477527.00
Reading on 21-FEB-22	921489.00	964128.00		T2 4760.00	456717.00	464403.00
Difference	13199.00	15234.00		T3 6716.00	13112.00	13124.00
Multiplying Factor	1.00	1.00	1.00	1.00	1.00	1.00
Total Consumption	13199.00	15234.00	108.00		13112.00	13124.00
Monthly Minimum	7600.00		304.00	Solar Carry forward DB		10180.00
Consumption Main		15234.00		Solar Carry forward CB		8058.00
Power Factor	0.87			Status: 01-Live(L)		

	Normal Rate	Rs	Ps.
Demand Charges		390.00 for 304.00 KVA	118560.00
Energy Charges	For Units consumed	7.80 for 7600.00 KVAH	59280.00
Time of Day Tariffs(6PM TO 10PM)		1.00 for 1006.00	1006.00
Time of Day Tariffs(6AM TO 10AM)		1.00 for 4760.00	4760.00
Time of Day Tariffs(10PM TO 6AM)		1.00 for 6716.00	6716.00

Electricity Duty Charges Rs 0.06 for 15234.00 914.04

	Sub Total	177804.04
	Electricity Duty Interest	12.95
	Customer Charges	1685.00
NOTE: Pay your bill to A/c No.62488007996 |	Round Amount	0.01
SBI, Nakkhalagutta, Hanamkonda |		
IFSC Code: SBIN0020150 |		

	Current Bill Amount	179502.00
	Arrears	0.17
Amount Paid Amount Rs. 179922.00 Dt:08-MAR-2022	Bill Amount INCL. Arrears	179502.17

Rupees One Lakh Seventy Nine Thousand Five Hundred Two and Paise Seventy-seven only)

& O.E

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5. Usage of LED BULBS/Power Efficient Equipment

Where consumption is higher, such as in the principal's chamber, laboratories, and staff rooms, LED-based energy conservation was implemented. Occupancy LED lights indicate indoor activity at a specific location. By shutting off the lights as soon as the last person leaves the room, they both offer convenience and conserve energy. The placement of the occupancy LED must ensure that they can detect occupant activity across the whole building.

One benefit of having more daylight throughout the daytime in our institute's buildings is that it maximises visual comfort or uses less energy.




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SENSOR BASED ENERGY CONSERVATION

Sensor based energy conservation systems include smart control of electric devices with the transformation of manual system into smart system with the incorporation of embedded system.

It results in substantial energy conservation if properly used. Lights and fans are automatically turned off 3 minutes after the exit of the last person without manual operation. And the overflow of water tank has been made into remote controlled.



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