

Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-31
Department of Electrical & Electronics Engineering

Alternative Energy Resource: 275 kWp Roof Top Solar Power Plant

Year	Energy Requirement of the College (kWh)	Energy Requirement Met by Solar (kWh)	% Energy Requirement Met by Solar
2021-22	461762	334826	72.51
2020-21	325950	184919	56.73
2019-20	307254	225837	73.50
2018-19	652093	280724	43.04
2017-18	599202	273959	45.72
2016-17	526954	272237	51.66
2015-16	575268	294701	51.23
2014-15	444993	223548	50.24


HOD-EEE

Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-31
Department of Electrical & Electronics Engineering

Month Wise Energy Requirement of Institute for the AY 2021-22

Month	Total Energy Requirement (kWh)	Energy Requirement met by RES (kWh)
July 21	35822	19717
August 21	49434	29418
September 21	42394	30267
October 21	41185	36692
November 21	50653	25819
December 21	51658	28792
January 22	24306	22000
February 22	10464	36269
March 22	26429	30038
April 22	27729	35067
May 22	55995	20568
June 22	45693	20179

Month Wise Solar Units Exported to Grid for the AY 2021-22

Month	Wheeling to grid
July 21	1408
August 21	2678
September 21	3512
October 21	9086
November 21	2824
December 21	2268
January 22	7596
February 22	20506
March 22	13930
April 22	19852
May 22	5260
June 22	5640


HoD-EEE

INVOICE

(Original)

Aditya Green Energy Pvt. Ltd. 13-15
21/22, Shahu Complex
Near Telephone Bhawan
Latur
E-Mail : adityagreenenergy@rediffmail.com

Invoice No.

SPP/14-15/2

Delivery Note

Dated

22-Jun-2014

Mode/Terms of Payment

Supplier's Ref.

Other Reference(s)

Consignee

Vasavi College of Engineering,
9-5-81 Ibrahim Bagh,
Hyderabad 500031

Buyer's Order No.

PO NO. VCE/PO/Solar PV System/2014

Despatch Document No.

Dated

16-Jan-2014

Dated

Despatched through

Destination

Buyer (if other than consignee)

Vasavi College of Engineering
9-5-81 Ibrahim Bagh,
Hyderabad 500031

Terms of Delivery

Sl No.	Description of Goods	Quantity	Rate	per	Disc. %	Amount
1	Solar Power Pack Design Manufacture Supply Erection Testing & Commissioning of 200 KWP Grid Connected Roof Top Solar PV System	200.00 kW	77,820.00	kW		1,55,64,000.00
	Less : SECI Subsidy					(-)35,64,000.00
	Total	200.00 kW				₹ 1,20,00,000.00

E. & O.E

Amount Chargeable (In words)

Indian Rupees One Crore Twenty Lakh Only

Company's VAT TIN : 27640840489V
Company's CST No. : 27640840489C

Declaration

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



for Aditya Green Energy Pvt. Ltd. 13-15

[Signature]

Authorised Signatory

This is a Computer Generated Invoice

ORIGINAL FOR RECIPIENT

SolarBull Energy LLP
Regd. Office: A202, Aditya Hilltop,
Filmnagar, Near Senor Valley Villas.
Hyderabad, Telangana 500096
IN
+91-96180-74400
srini@solarbull.in
GSTIN: 36AD0FS2724A1Z8



TAX INVOICE

INVOICE TO

Vasavi College of Engineering
Ibrahimbagh,
Hyderabad-500031.
Hyderabad, Telangana
500031
India
State Code: 36
GSTIN: 36AAATV1119R1Z2

SHIP TO

Vasavi College of
Engineering
Ibrahimbagh,
Hyderabad-500031.
Hyderabad, Telangana
500031
India
State Code: 36

TAX INVOICE NO. INV/1197/19-20

DATE 16-03-2020

DUE DATE 15-04-2020

TERMS Net 30

PLACE OF SUPPLY

36 - Telangana

NO	HSN/SAC	DESCRIPTION / ITEM	QTY	RATE	TAX	AMOUNT
1		Supply - Solar Rooftop System - 75.24KW	1	20,91,727.00		20,91,727.00
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct						
SUBTOTAL						20,91,727.00
CGST @ 2.5% on 2091727.00						52,293.18
SGST @ 2.5% on 2091727.00						52,293.18
TOTAL						21,96,313.36
ROUND OFF AMOUNT						-0.36
BALANCE DUE						₹21,96,313.00

Bank Account Details:-
Bank/Branch - SBI - APSRTC BR.Hyderabad
Account Name -SOLARBULL ENERGY LLP
Account Number -00000037670495202
IFS Code - SBIN0020650

Terms & Conditions:-
Payment - within 30 days



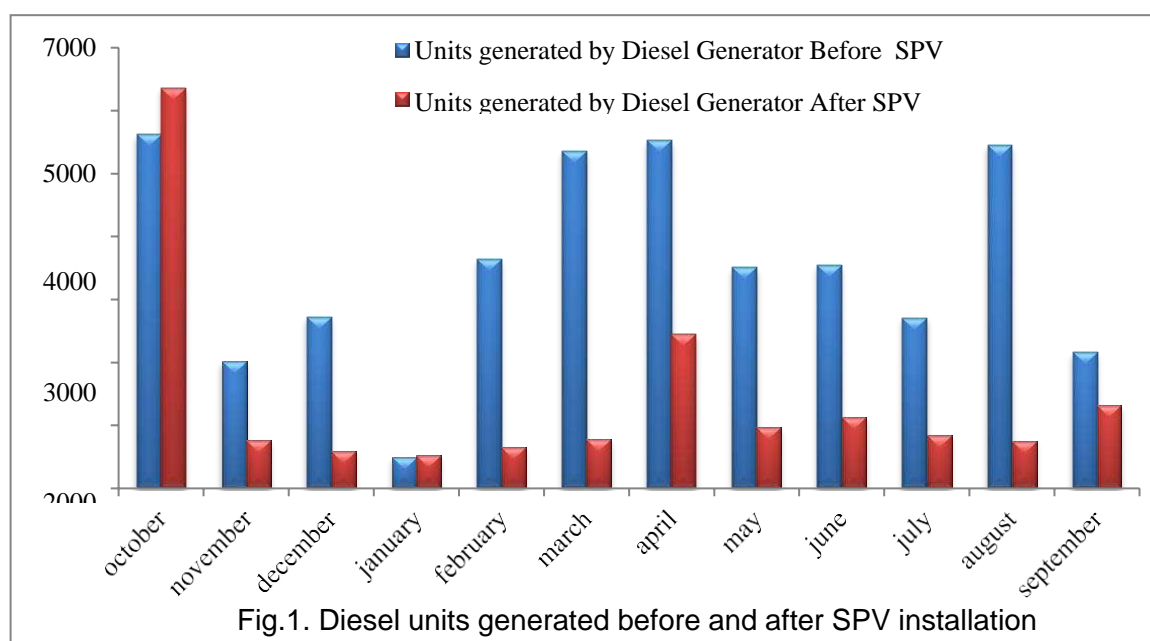
For SolarBull Energy LLP

Signature:

275 kWp Roof Top Grid Tied Solar Power Plant

As part of Green Campus Initiative Vasavi College of Engineering has initially commissioned 200 kWp rooftop grid tied fixed tilt solar power plant in the campus with the support of Electrical and Electronics Engineering department in the year 2014. The Vasavi college of Engineering has five buildings namely Viswesrayya block, Ramanujam block, C.V. Raman block, Sarvepalli Radha Krishnan block and Jagdish Chandra Bose block. The rooftop solar PV plant was erected on J.C.Bose block and Viswesrayya block. A 41.53 Sq.mt area is available on J.C.Bose block on which 125 Kwp SPV Installed and a 25 Sq.mt area is available on Viswesrayya block on which 75 Kwp SPV installed.

Diesel generator sets of 625 kVA, 500 kVA and 125 kVA capacities are providing backup power. Load can be met by either 625 kVA DG set or 500 kVA DG set. A diesel generator of 125 kVA capacity is used to meet the load during holidays and for street lighting. Prior to the installation of 200kWp SPV, diesel generators are run to meet the load during the scheduled and unscheduled outages of the state electricity supply. The operation of these generators is not free from pollution.



After the installation of solar PV Power generation, the diesel generators were operated only when there is a failure on grid to meet the load that is in excess to the solar power generation. This reduced operation time and number of units produced by the diesel generators. Thus, the total diesel consumption has decreased considerably.

With the experience gained from the 200 kWp plant, another 75 kWp grid tied fixed tilt Solar Power plant is installed in Pendekanti Institute of Management (PIM) block and Library buildings to cater energy needs of the institute from time to time.

Installation of 275 kWp solar PV Power generation also resulted in a substantial saving of the energy charges per month. Also, the power generated during holidays, Sundays and excess power during working days is fed into the National Grid.

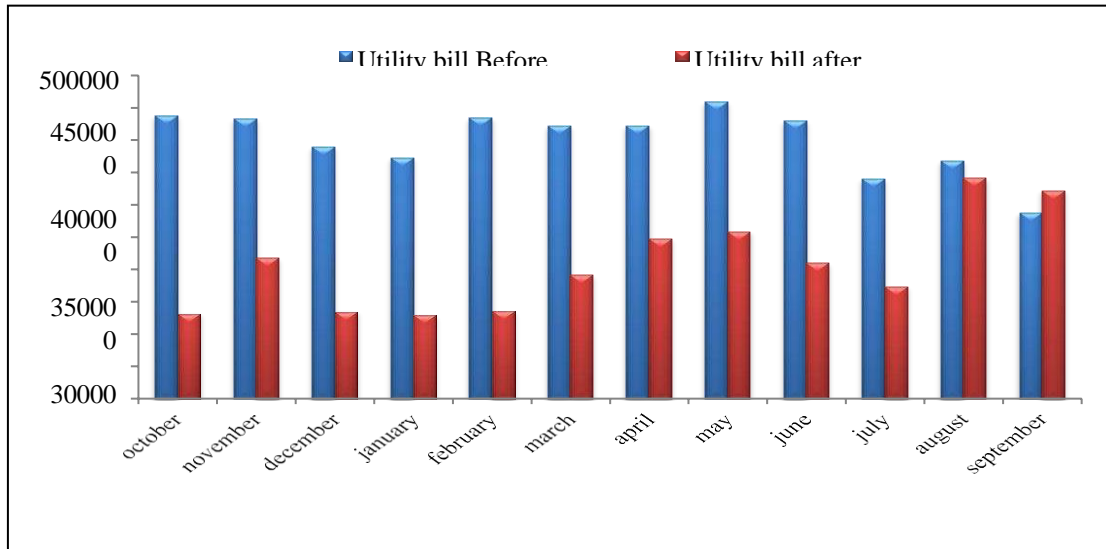


Fig.2. Utility bill (in INR) before and after SPV installation

The 275 kWp solar power plant generates approximately 250846 units of electrical energy annually that is equivalent to reduction in 300 Tons of CO₂ emission approximately. A true green initiative by Electrical and Electronics Engineering department and by the college.

The following table shows the Energy requirement met by the 275 kWp Solar plant year wise from the installation.

Year	Energy requirement of the college (kWh)	Energy requirement met by Solar (kWh)	%Energy requirement met by Solar
2014-15	444993	223548	50.24
2015-16	575268	294701	51.23
2016-17	526954	272237	51.66
2017-18	599202	273959	45.72
2018-19	652093	280724	43.04
2019-20	307254	225837	73.50
2020-21	325950	184919	56.73
2021-22	461762	334826	72.51

Reference: “Design, erection, testing and commissioning of 200Kwp rooftop grid tied solar photovoltaic system at Vasavi College of engineering”. Dr.M.Chakravarthy, K.V.Ramanamurthy, B.Neelima Devi. Conference: 2015 IEEE IAS Joint Industrial and Commercial Power Systems / Petroleum and Chemical Industry Conference (ICSPCIC),DOI: [10.1109/CICPS.2015.7974067](https://doi.org/10.1109/CICPS.2015.7974067)

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of July 2021, Date: 26-Jul-21
 PAYABLE ON OR BEFORE dated: 09-Aug-21 DISCONNECTION DATE: 24-Aug-21

Contracted MD (KVA/HP)	300	Consumer No.	CBC373
Specified Voltage (KV)	11	Name	PRINCIPAL
Actual Voltage (KV)	11	ADDRESS1	VASAVI COLLEGE OF ENGG
Feeder : 165111140106 (CF)		ADDRESS2	9-5-81 IBRAHIM BAGH
Category	2	ADDRESS3	HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 17-JUL-21	158455.30	164832.15	15.72	12175.25	27331.10
Reading On 16-JUN-21	156160.05	162467.05		12007.35	26875.45
Difference ST:01	2295.25	2365.10		167.90	455.65
Multipling Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	18362.00	18921.00	125.76	1343.00	3645.00
Monthly Minimum Units	6000.00		240.00		
Main Consumption	17513.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	240	93600.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	17513	136601.40
TOD Charges	Ps.100	4988	4988.00
Electricity Duty	Ps.6	17513	1050.78
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				236240.18	
				Cust Charges	1685.00
				ACD SCHG	0.00
				UI Charges	0
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-4788.00
				Incentive TOD2	-1656.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0.00
				Other Charges-II	0.00
				Gross Total	231481.00
					0.00
				Other Credit Adj.	
				Net Bill Amount	231481.00
				Total Arrears	0.00
				Total Amount Payable	231481.00

*****Net Meter(KWH) Details*****
 Closing/Opening Reading : 48994.2/48818.
 Recorded Units : 1408
 Opening Balance Units:0
 Cumulative Banked Units : 0

*****Arrears as on 23/07/21*****
 C.C.Charge TCsonArrear IT TCS U/s 206C(1H)
 Court Cases Rs. 21811
 Others Rs. 0 0.00
 Total Rs. 21811

Note: ACD Due for 2021-22 Rs. 0

Two Lakh Thirty One Thousand Four Hundred and Eighty One Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDCPCBC373
 IFSC CODE: SBIN0004266

Sd/- Accounts Officer
 OP. CIRCLA

Dear Sir,
 On this bill the
 Solar Contribution
 are made to
 previous month it was
 informed to ADE, the above bill may be
 processed and paid as we need
 to pay before 9th August 2021
 11-Chakravarthy
 1100-888

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED

H.T C.C. Bill for the Month of August 2021,

Date: 26-Aug-21

PAYABLE ON OR BEFORE Dated : 09-Sep-21

DISCONNECTION DATE: 24-Sep-21

Contracted MD (KVA/HP)	300	Consumer Number	CBC373
Specified Voltage(KV)	11	Name	PRINCIPAL
Actual Voltage(KV)	11	Address1	VASAVI COLLEGE OF ENGG
Feeder	165111140106 (CF)	Address2	9-5-81 IBRAHIM BAGH
Category	2	Address3	HYDERABAD 500 031

DESCRIPTIONS	KWH	KVAH	KVA	TOD1	TOD2
Reading On 24-AUG-21	161498.50	168003.70	7.20	12414.50	27890.70
Reading On 17-JUL-21	158455.30	164832.15		12175.25	27331.10
Difference ST:01	3043.2	3171.55		239.25	559.6
Multiplying Factor	8	8	8	8	8
Total Consumption	24346	25372	57.6	1914	4477
Monthly Minimum Units	6000		240		
Main Consumption	22694	Colony	0	L&F	0

DESCRIPTIONS	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs. 390	240	93600.00
Demand Charges Penal	Rs. 780	0	0.00
Energy Charges	Ps. 780	22694	177013.20
Incentive TOD1	(FR: 33349.4 IR: 32611.35)		-5904.00
Incentive TOD2	(FR: 11804.75 IR: 11541.25)		-2108.00
TOD Charges	Ps. 100	6391	6391.00
Electricity Duty	Ps. 6	22694	1361.64
Colony Charges	Ps. 630	0	0.00
L&F Charges	Ps. 780	0	0.00
FSA Charges	Ps.		

Supplier Name Net KWH KVA TOD

Sub Total 270353.84

Net Meter (KVAH) Details		
Closing Reading	Opening Reading	Recorded Units
49329	48994.2	2678

Arrears as on 30/09/2021		
	C.C.Charge	TCS on Arrears
Court Case Rs.	21811	
Others Rs.	0	0.00
Total Rs.	21811	

Customer Charges	1685.00
ACD Surcharge	0.00
UI Charges	0.00
Cross Subsidy Surcharge	0.00
Additional Surcharge on OA	0.00
RKVAH surcharge HYDEL	
RKVAH surcharge WIND	
Late Payment Charges	0.00
Interest on ED	0.00
Penal Interest	
Difference Voltage Surcharge	0.00
Wheeling Charges	0.00
Transmission Charges	0.00
Other Charges-I	0.00
Other Charges-II	0.00
Gross Total	272039.00
Inc. Rec. from Govt.	0.00
IT TCS U/s 206C(1H)	0.00
Net Bill Amount	272039.00
Total Arrears	0.00
Total Amount Payable	272039.00

Amount in Words: Two Lakh Seventy Two Thousand and Thirty Nine Rupees Only.

Note: ACD Due for 2021-22 Rs. 0

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLPCBC373
IFSC CODE: SBIN0004266

Dear Sir,
The bill is in order and
can be paid before 9th Sept 2021
M. Chakravarty
HOD - R&R

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
HT C.C. Bill for the month of September 2021, Date: 26-Sep-21
PAYABLE ON OR BEFORE dated: 10-Oct-21 DISCONNECTION DATE: 25-Oct-21

Contracted MD (KVA/HP)	300	Consumer No.	CBC373
Specified Voltage (KV)	11	Name	PRINCIPAL
Actual Voltage (KV)	11	ADDRESS1	VASAVI COLLEGE OF ENGG
Feeder	CF	ADDRESS2	9-5-81 IBRAHIM BAGH
Category	2	ADDRESS3	HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 21-SEP-21	163799.25	170397.55	15.88	12611.05	28316.65
Reading On 24-AUG-21	161498.50	168003.70		12414.50	27890.70
Difference ST:01	2300.75	2393.85		196.55	425.95
Multipling Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	18406.00	19151.00	127.04	1572.00	3408.00
Monthly Minimim Units	6000.00		240.00		
Main Consumption	15639.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	240	93600.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	15639	121984.20
TOD Charges	Ps.100	4980	4980.00
Electricity Duty	Ps.6	15639	938.34
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				221502.54	
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0.00
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-4247.00
				Incentive TOD2	-1483.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	217458.00
				IT TCS U/s 206C(1H)	0.00
				Other Credit Adj.	
				Net Bill Amount	217458.00
				Total Arrears	0.00
				Total Amount Payable	217458.00

Net Meter(KWH) Details

Closing/Opening Reading : 49767.95/49329	
Recorded Units : 3512	
Opening Balance Units:0	
Cumulative Banked Units : 0	

*****Arrears as on 23/09/21*****

C.C.Charge	Surcharge	IT TCS U/s 206C(1H)	
Court Cases Rs.	21811	Other Credit Adj.	
Others Rs.	0	Net Bill Amount	217458.00
Total Rs.	21811	Total Arrears	0.00

*****Total Amount Payable 217458.00

Note: ACD Due for 2021-22 Rs. 0

Two Lakh Seventeen Thousand Four Hundred and Fifty Eight Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state provisions, the same will be levied in your future bills.

Senior Accounts Officer

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDCPCBC373

OP.CIRCLE

IFSC CODE: SBIN0004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of October 2021, Date: 26-Oct-21
 PAYABLE ON OR BEFORE dated: 09-Nov-21 DISCONNECTION DATE: 24-Nov-21

Contracted MD (KVA/HP) 300	Consumer No. CBC373
Specified Voltage (KV) 11	Name PRINCIPAL
Actual Voltage (KV) 11	ADDRESS1 VASAVI COLLEGE OF ENGG
Feeder : 165111140106 (CF)	ADDRESS2 9-5-81 IBRAHIM BAGH
Category 2	ADDRESS3 HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 27-OCT-21	166497.70	173230.65	15.52	12809.10	28894.80
Reading On 21-SEP-21	163799.25	170397.55		12611.05	28316.65
Difference ST:01	2698.45	2833.10		198.05	578.15
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	21588.00	22665.00	124.16	1584.00	4625.00
Monthly Minimum Units	6000.00		240.00		
Main Consumption	13579.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	240	93600.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	13579	105916.20
TOD Charges	Ps.100	6209	6209.00
Electricity Duty	Ps.6	13579	814.74
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				206539.94	
				Cust Charges	1685.00
				ACD SCHG	0.00
				UI Charges	0
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-6119.00
				Incentive TOD2	-2070.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0.00
				Other Charges-II	0.00
				Gross Total	200036.00
				C.C.Charge TCsonArrear IT TCS U/s 206C(1H)	0.00
Court Cases Rs.	21811			Other Credit Adj.	
Others Rs.	0	0.00		Net Bill Amount	200036.00
Total Rs.	21811			Total Arrears	0.00
*****Total Amount Payable					200036.00

Note: ACD Due for 2021-22 Rs. 0

Two Lakh and Thirty Six Only

Note: This bill is settled based on the provisions of inter state settlements.
 If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Senior Accounts Officer

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDCLPCBC373

OP.CIRCLE

IFSC CODE: SBIN004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED

H.T C.C. Bill for the Month of November 2021,

Date: 26-Nov-21

PAYABLE ON OR BEFORE Dated : 10-Dec-21

DISCONNECTION DATE: 25-Dec-21

Contracted MD (KVA/HP)	300	Consumer Number	CBC373
Specified Voltage(KV)	11	Name	PRINCIPAL
Actual Voltage(KV)	11	Address1	VASAVI COLLEGE OF ENGG
Feeder	165111140106 (CF)	Address2	9-5-81 IBRAHIM BAGH
Category	2	Address3	HYDERABAD 500 031

DESCRIPTIONS	KWH	KVAH	KVA	TOD1	TOD2
Reading On 25-NOV-21	170170.00	177040.90	22.42	13122.80	29497.90
Reading On 27-OCT-21	166497.70	173230.65		12809.10	28894.80
Difference ST:01	3672.3	3810.25		313.7	603.1
Multiplying Factor	8	8	8	8	8
Total Consumption	29378	30482	179.36	2510	4825
Monthly Minimum Units	6000		240		
Main Consumption	27658		Colony 0	L&F	0

DESCRIPTIONS	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs. 390	240	93600.00
Demand Charges Penal	Rs. 780	0	0.00
Energy Charges	Ps. 7	27658	215732.40

Incentive TOD1	(FR: 35345.55 IR: 34645.15)		
Incentive TOD2	(FR: 12492.85 IR: 12248.9)		-5603.00
TOD Charges	Ps. 100	7335	-1952.00
Electricity Duty	Ps. 6	27658	7335.00
Colony Charges	Ps. 630	0	1659.48
L&F Charges	Ps. 780	0	0.00
FSA Charges	Ps.	0	0.00

Supplier Name	Net KWH	KVA	TOD	Sub Total	310771.88
Net Meter (KWH) Details				Customer Charges	1685.00
Closing Reading	Opening Reading	Recorded Units		ACD Surcharge	0.00
51256.65	50903.65	2824		UI Charges	0.00
Arrears as on 23/11/21				Cross Subsidy Surcharge	0.00
Court Case Rs.	C.C.Charge	TCS on Arrears		Additional Surcharge on OA	0.00
Others Rs.	0	0.00		RKVAH surcharge HYDEL	
Total Rs.	21811			RKVAH surcharge WIND	
				Late Payment Charges	0.00
				Interest on ED	0.00
				Penal Interest	
				Difference Voltage Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges-I	0.00

Other Charges-II	0.00
Gross Total	312457.00
Inc. Rec. from Govt.	0.00
IT TCS U/s 206C(1H)	0.00
Net Bill Amount	312457.00
Total Arrears	0.00
Total Amount Payable	312457.00

Amount in Words: Three Lakh Twelve Thousand Four Hundred and Fifty Seven Rupees Only.

Note: ACD Due for 2021-22 Rs. 0

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLPCBC373
IFSC CODE: SBIN0004266

Department of Power House

Dear Sir,

The above bill is in order and can
be paid before December 9th 2021

M. Chakraborty

HOW - RRR

7/2/22, 9:44 AM

HT Billing System

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED

H.T C.C. Bill for the Month of June 2022, Date: 26-Jun-22

PAYABLE ON OR BEFORE Dated : 10-Jul-22

DISCONNECTION DATE: 25-Jul-22

Contracted MD (KVA/HP)	300	Consumer Number	CBC373
Specified Voltage(KV)	11	Name	PRINCIPAL
Actual Voltage(KV)	11	Address1	VASAVI COLLEGE OF ENGG
Feeder	165111140105 (CF)	Address2	9-5-81 IBRAHIM BAGH
Category	2	Address3	HYDERABAD 500 031

DESCRIPTIONS	KWH	KVAH	KVA	TOD1	TOD2
Reading On 16-JUN-22	194361.30	201974.10	34.92	14989.95	33648.70
Reading On 19-MAY-22	189900.60	197374.85		14692.10	33063.25
Difference ST:01	4460.7	4599.25		297.85	585.45
Multiplying Factor	8	8	8	8	8
Total Consumption	35686	36794	279.36	2383	4664
Monthly Minimum Units	6984		240		
Main Consumption	31154	Colony	0	L&F	0

DESCRIPTIONS	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs. 475	279.36	132696.00
Demand Charges Penal	Rs. 950	0	0.00
Energy Charges	Ps. 880	31154	274155.20
Incentive TOD1	(FR: 40406.35 IR: 39699.2)		-5657.00
Incentive TOD2	(FR: 14260.35 IR: 14013.3)		-1976.00
TOD Charges	Ps. 100	7067	7067.00
Electricity Duty	Ps. 6	31154	1869.24
Colony Charges	Ps. 730	0	0.00
L&F Charges	Ps. 880	0	0.00
FSA Charges	Ps.		

Supplier Name	Net KWH	KVA	TOD	Sub Total	408154.44
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7/2/22, 9:44 AM

HT Billing System

Net Meter (KWH) Details		
Closing Reading	Opening Reading	Recorded Units
58297.2	57592.2	5640

Arrears as on 23/06/22		
	C.C.Charge	TCS on Arrears
Court Case Rs.	21811	
Others Rs.	0	0.00
Total Rs.	21811	

Amount in Words: Four Lakh Ten Thousand One Hundred and Fifty Four Rupees Only.

Note: ACD Due for 2022-23 Rs. 0

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLPCBC373
IFSC CODE: SBIN0004266

Customer Charges	2000.00
ACD Surcharge	0.00
UI Charges	0.00
Cross Subsidy Surcharge	0.00
Additional Surcharge on OA	0.00
RKVAH surcharge HYDEL	
RKVAH surcharge WIND	
Late Payment Charges	0.00
Interest on ED	0.00
Penal Interest	
Difference Voltage Surcharge	0.00
Wheeling Charges	0.00
Transmission Charges	0.00
Other Charges-I	0.00
Other Charges-II	0.00
Gross Total	410154.00
Inc. Rec. from Govt.	0.00
IT TCS U/s 206C(1H)	0.00
Net Bill Amount	410154.00
Total Arrears	0.00
Total Amount Payable	410154.00

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of May 2022, Date: 26-May-22
 PAYABLE ON OR BEFORE dated: 09-Jun-22 DISCONNECTION DATE: 24-Jun-22

Contracted MD (KVA/HP)	300	Consumer No.	CBC373
Specified Voltage (KV)	11	Name	PRINCIPAL
Actual Voltage (KV)	11	ADDRESS1	VASAVI COLLEGE OF ENGG
Feeder : 165111140106 (CF)		ADDRESS2	9-5-81 IBRAHIM BAGH
Category	2	ADDRESS3	HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 19-MAY-22	189900.60	197374.85	36.02	14692.10	33063.25
Reading On 19-APR-22	184323.85	191631.50		14351.55	32376.15
Difference ST:01	5576.75	5743.35		340.55	687.10
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	44614.00	45947.00	288.16	2724.00	5497.00
Monthly Minimum Units	7204.00		240.00		
Main Consumption	40687.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.475	288.16	136876.00
Demand Charges Penal	Rs.950	0	0.00
Energy Charges	Ps.880	40687	358045.60
TOD Charges	Ps.100	8221	8221.00
Electricity Duty	Ps.6	40687	2441.22
Colony Charges	Ps.730	0	0.00
&F Charges	Ps.880	0	0.00
SA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				505583.82	
				Cust Charges	2000.00
				ACD SCHG	0.00
				UI Charges	0
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-6584.00
				Incentive TOD2	-2350.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0.00
				Other Charges-II	0.00
				Gross Total	498650.00
				IT TCS U/s 206C(1H)	0.00
				Other Credit Adj.	
				Net Bill Amount	498650.00
				Total Arrears	0.00
				Total Amount Payable	498650.00

*****Net Meter(KWH) Details*****
 Closing/Opening Reading : 57592.2/56934.
 Recorded Units : 5260
 Opening Balance Units:0
 Cumulative Banked Units : 0
 *****Arrears as on 23/05/22*****
 C.C.Charge TCsonArrear IT TCS U/s 206C(1H)
 Court Cases Rs. 21811
 Others Rs. 0
 Total Rs. 21811
 Total Amount Payable 498650.00

Note: ACD Due for 2022-23 Rs. 0

Four Lakh Ninty Eight Thousand Six Hundred and Fifty Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Senior Accounts Officer

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDC LPCBC373

OP.CIRCLE

IFSC CODE: SBIN0004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of April 2022, Date: 26-Apr-22
 PAYABLE ON OR BEFORE dated: 10-May-22 DISCONNECTION DATE: 25-May-22

Contracted MD (KVA/HP)	300	Consumer No.	CBC373
Specified Voltage (KV)	11	Name	PRINCIPAL
Actual Voltage (KV)	11	ADDRESS1	VASAVI COLLEGE OF ENGG
Feeder	CF	ADDRESS2	9-5-81 IBRAHIM BAGH
Category	2	ADDRESS3	HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 19-APR-22	184323.85	191631.50	34.34	14351.55	32376.15
Reading On 23-MAR-22	180460.70	187585.70		14089.40	31806.10
Difference ST:01	3863.15	4045.80		262.15	570.05
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	30906.00	32366.00	274.72	2097.00	4560.00
Monthly Minimum Units	6868.00		240.00		
Main Consumption	25941.00	Colony	0.00	L&F	0.00
Reading On 01-APR-22	182024.90	189237.10	34.34	14201.25	32023.10
Consumptions	12514.00	13211.00	274.72	895.00	1736.00

OldDays:9 NewDays:18	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390/475	91.572418/183.1475	122708.34
Demand Charges Penal	Rs.780/950	0/0	0.00
Energy Charges	Ps.780/880	12384/13557	215896.80
TOD Charges	Ps.100/100	2631/4026	6657.00
Electricity Duty	Ps.6	25941	1556.46
Colony Charges	Ps.630/730	0/0	0.00
L&F Charges	Ps.780/880	0/0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				346818.6	
				Cust Charges	1895.00
				ACD Surc	0.00
				UI Charges	0.00
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0.00
				Incentive TOD1	-5492.00
				Incentive TOD2	-1968.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges-I	0.00
				ICD for FY 2021-22	-34972.17
				Gross Total	306281.00
				IT TCS U/s 206C(1H)	0.00
				Other Credit Adj.	
				Net Bill Amount	306281.00
				Total Arrears	0.00
				Total Amount Payable	306281.00

Note: ACD Due for 2022-23 Rs. 0

Three Lakh Six Thousand Two Hundred and Eighty One Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access

provisions, the same will be levied in your future bills.

Senior Accounts Officer

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCPCBC373

OP.CIRCLE

IFSC CODE: SBIN0004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of March 2022, Date: 26-Mar-22
 PAYABLE ON OR BEFORE dated: 09-Apr-22 DISCONNECTION DATE: 24-Apr-22

Contracted MD (KVA/HP) 300	Consumer No. CBC373
Specified Voltage (KV) 11	Name PRINCIPAL
Actual Voltage (KV) 11	ADDRESS1 VASAVI COLLEGE OF ENGG
Feeder : 165111140106 (CF)	ADDRESS2 9-5-81 IBRAHIM BAGH
Category 2	ADDRESS3 HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 23-MAR-22	180460.70	187585.70	31.60	14089.40	31806.10
Reading On 21-FEB-22	177523.30	184554.30		13850.15	31188.75
Difference ST:01	2937.40	3031.40		239.25	617.35
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	23499.00	24251.00	252.80	1914.00	4939.00
Monthly Minimum Units	6320.00		240.00		
Main Consumption	10321.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	252.8	98592.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	10321	80503.80
TOD Charges	Ps.100	6853	6853.00
Electricity Duty	Ps.6	10321	619.26
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				186568.06	
				Cust Charges	1685.00
				ACD SCHG	0.00
				UI Charges	0
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-5849.00
				Incentive TOD2	-2089.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0.00
				Other Charges-II	0.00
				Gross Total	180315.00
				C.C.Charge TCSonArrear IT TCS U/s 206C(1H)	0.00
				Court Cases Rs.	21811
				Others Rs.	0
				Total Rs.	21811
				Net Bill Amount	180315.00
				Total Arrears	0.00
				Total Amount Payable	180315.00

Note: ACD Due for 2021-22 Rs. 0

One Lakh Eighty Thousand Three Hundred and Fifteen Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Senior Accounts Officer

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCPLPCBC373

OP.CIRCLE

IFSC CODE: SBIN004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
HT C.C. Bill for the month of February 2022, Date: 26-Feb-22
PAYABLE ON OR BEFORE dated: 12-Mar-22 DISCONNECTION DATE: 27-Mar-22

Contracted MD (KVA/HP) 300	Consumer No. CBC373
Specified Voltage (KV) 11	Name PRINCIPAL
Actual Voltage (KV) 11	ADDRESS1 VASAVI COLLEGE OF ENGG
Feeder : 165111140106 (CF)	ADDRESS2 9-5-81 IBRAHIM BAGH
Category 2	ADDRESS3 HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 21-FEB-22	177523.30	184554.30	13.74	13850.15	31188.75
Reading On 18-JAN-22	175631.05	182653.40		13664.15	30629.65
Difference ST:01	1892.25	1900.90		186.00	559.10
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	15138.00	15207.00	109.92	1488.00	4473.00
Monthly Minimum Units	6000.00		240.00		
Main Consumption	6000.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	240	93600.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	6000	46800.00
TOD Charges	Ps.100	5961	5961.00
Electricity Duty	Ps.6	0	0.00
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	
				146361	
				Cust Charges	1685.00
				ACD SCHG	0.00
				UI Charges	0
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
*****Net Meter(KWH) Details*****				Interest on ED	0
Closing/Opening Reading : 55052.8/52489.				Incentive TOD1	-5896.00
Recorded Units : 20506				Incentive TOD2	-2014.00
Opening Balance Units:0				Wheeling Charges	0
Cumulative Banked Units : 5299				Transmission Charges	0
*****				Other Charges-I	0.00
				Other Charges-II	0.00
*****Arrears as on 23/02/22*****				Gross Total	140136.00
	C.C.Charge	TCSonArrear	IT TCS U/s 206C(1H)		0.00
Court Cases Rs.	21811		Other Credit Adj.		
Others Rs.	0	0.00	Net Bill Amount		140136.00
Total Rs.	21811		Total Arrears		0.00
*****				Total Amount Payable	140136.00

Note: ACD Due for 2021-22 Rs. 0

One Lakh Fourty Thousand One Hundred and Thirty Six Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Sd/- Accounts Officer
OP.CIRCLE

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDCPLCB373

IFSC CODE: SBIN0004266

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
HT C.C. Bill for the month of January 2022, Date: 26-Jan-22
PAYABLE ON OR BEFORE dated: 09-Feb-22 DISCONNECTION DATE: 24-Feb-22

Contracted MD (KVA/HP)	300	Consumer No.	CBC373
Specified Voltage (KV)	11	Name	PRINCIPAL
Actual Voltage (KV)	11	ADDRESS1	VASAVI COLLEGE OF ENGG
Feeder	CF	ADDRESS2	9-5-81 IBRAHIM BAGH
Category	2	ADDRESS3	HYDERABAD 500 031

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 18-JAN-22	175631.05	182653.40	13.74	13664.15	30629.65
Reading On 20-DEC-21	173496.00	180466.10		13419.85	30109.10
Difference ST:01	2135.05	2187.30		244.30	520.55
Multiplying Factor	8.00	8.00	8.00	8.00	8.00
Total Consumption	17080.00	17498.00	109.92	1954.00	4164.00
Monthly Minimum Units	6000.00		240.00		
Main Consumption	9902.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	243	93600.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	9902	77235.60
TOD Charges	Ps.100	6118	6118.00
Electricity Duty	Ps.6	9902	594.12
Colony Charges	Ps.630	0	0.00
L&F Charges	Ps.780	0	0.00
FSA Charges			0.00

Supplier Name	NetKWH	KVA	TOD	Sub Total	177547.72
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0.00
				CS Surcharge	0.00
				Addl.SCHG OA	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-5377.00
				Incentive TOD2	-1819.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	172037.00
				IT TCS U/s 206C(1H)	0.00
				Other Credit Adj.	
				Net Bill Amount	172037.00
				Total Arrears	0.00
				Total Amount Payable	172037.00

Note: ACD Due for 2021-22 Rs. 0

One Lakh Seventy Two Thousand and Thirty Seven Only

Note: This bill is settled based on the provisions of inter state settlements.

If any short fall occurred in this bill due to the inter state Open Access provisions, the same will be levied in your future bills.

Note: PAY YOUR BILL THROUGH THE SBI A/C NO.SPDCPCBC373
IFSC CODE: SBIN0004266

Senior Accounts Officer
OP.CIRCLE

Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-31
Department of Electrical & Electronics Engineering

Lighting Load details

Type of Lights	Rating in Watts	No. of Fixtures	Total load in Watts
Fluorescent lamp	40	1496	59840
Mercury-vapor lamp	5	150	750
	200	2	400
	150	5	750
	100	21	2100
	50	31	1550
	36	14	504
	33	60	1980
	20	54	1080
	10	8	80
Total			69034

Percentage of lighting load met by LED lights = $8444/69034=12.23\%$


HOD - EEE



Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-31
Department of Electrical & Electronics Engineering

All classrooms are installed with 3600 PIR (Passive Infra-Red) motion sensors with light sensor(ceiling mounted). The sensors are used to control the fans and lights depending upon the presence/absence of people in the room. This is done with a view to conserve electricity which is the need of the hour.

These sensors have been developed by the faculty members, Department of Electrical and Electronics Engineering (EEE) of the institution.

Motion Sensor Installation Details:

Block Name	Floor	Classroom No.
VISVESVARAYA BLOCK	FIRST	V-108
		V-109
		V-110
		V-117
		V-118
		V-119
	SECOND	V-209
		V-210
		V-211
		V-212
		V-213
		V-214
		V-215
	THIRD	V-311
		V-312
		V-313
		V-316
J.C.BOSE BLOCK.	GROUND	J-012
		J-007
	FIRST	J-106
		J-112
	SECOND	J-206
		J-207
		J-208
		J-215
	THIRD	J-304
		J-305
		J-306
		J-313
	FOURTH	J-419

CV RAMAN BLOCK	FIRST	C-101
		C-106
		C-107
	SECOND	C-202
		C-207
	THIRD	C-301
		C-302/A
		C-304
		C-305
RAMANUNJAN BLOCK	FIRST	R-107
	SECOND	R-201
		R-202
		R-203
		R-204
		R-205
		R-206
		R-207
		R-208
Total		48



Latitude: 17.374224
Longitude: 78.384784
Accuracy: 1013.0m
Time: 12-28-2021 14:59
Note: test



Latitude: 17.374224
Longitude: 78.384784
Accuracy: 1013.0m
Time: 12-28-2021 14:59
Note: test













Latitude: 17.374224
Longitude: 78.384784
Accuracy: 1013.0m
Time: 12-28-2021 15:06
Note: test



7.1.3.1.1 PIR SENSORS



PIR Sensor Switch



7.1.3.1 SOLAR PANELS

