

Energy Consumed by the College from TSSEB Before & After Solar Power point Installation



Geethanjali

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Geethanjali College of Engineering and Technology

AUTONOMOUS

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Approved by AICTE, New Delhi; Permanently Affiliated to JNTUH)
Sy. No. 33 & 34, Cheeryal (V), Keesara (M), Medchal District. - 501 301.

Date: 10/05/2022

ENERGY CONSUMED BY THE GCET INSTITUTION FROM TSSPDCL BEFORE AND AFTER SOLAR INSTALLATION

S.No	Before Solar Plant Installation		After Solar Plant Installation	
	Month & Year	Energy consumed in KWh(Units)	Month & Year	Energy consumed in KWh(Units)
1	December 2016	26675	January 2018	13655
2	January 2017	29467	February 2018	14736
3	February 2017	30306	March 2018	19135
4	March 2017	34643	April 2018	17670
5	April 2017	40513	May 2018	15286
6	May 2017	41992	June 2018	15107
7	June 2017	25984	July 2018	19661
8	July 2017	27073	August 2018	30445
9	August 2017	36160	September 2018	21008
10	September 2017	37425	October 2018	27883
11	October 2017	28720	November 2018	18510
12	November 2017	40833	December 2018	15265
	TOTAL UNITS	3,99,791	TOTAL UNITS	2,28,361


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Date: 10/05/2022

ENERGY BILL OF GCET INSTITUTION FROM TSSPDCL BEFORE AND AFTER SOLAR INSTALLATION

S.No	Before Solar Plant Installation		After Solar Plant Installation	
	Month & Year	Electricity bill in Rupees	Month & Year	Electricity bill in Rupees
1	December 2016	316129	January 2018	194970
2	January 2017	338109	February 2018	232497
3	February 2017	344785	March 2018	212279
4	March 2017	378759	April 2018	137975
5	April 2017	372741	May 2018	171959
6	May 2017	428120	June 2018	180605
7	June 2017	310816	July 2018	226970
8	July 2017	319466	August 2018	317022
9	August 2017	391793	September 2018	220919
10	September 2017	401609	October 2018	274612
11	October 2017	332778	November 2018	201893
12	November 2017	430297	December 2018	173985
	TOTAL	Rs 43,65,402/-	TOTAL	Rs 25,45,686/-


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RRE2780-12.2016.txt
 SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of December 2016, Date: 29-Dec-16
 PAYABLE ON OR BEFORE dated: 09-Jan-17 DISCONNECTION DATE: 24-Jan-17

Contracted MD (KVA/HP)	200	Consumer No.	RRE2780
Specified Voltage (KV)	11	Name	M/S. TEJA EDUCATIONAL SOCIETY.
Actual Voltage (KV)	11	ADDRESS1	SY.NO.31,CHERYAL(V),
Feeder	CF	ADDRESS2	KEESARA(M),
Category	2	ADDRESS3	R.R.DIST

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 18-DEC-16	855549.00	921762.00	77.80	115462.00	115138.00
Reading On 18-NOV-16	6 839576.00	905776.00		113197.00	113293.00
Difference ST:01	15973.00	15986.00		2265.00	1845.00
Multipling Factor	1.00	1.00	1.00	1.00	1.00
Total Consumption	15973.00	15986.00	77.80	2265.00	1845.00
Monthly Minimim Units	4000.00		160.00		
Main Consumption	15986.00	colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	160	62400.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	15986	124690.80
TOD Charges	Ps.100	4110	4110.00
Electricity Duty	Ps.6	15986	959.16
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	192159.96
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0
				CS Surcharge	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-2553.00
				Incentive TOD2	-901.00
				wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	190391
				Inc. Rec. from Govt.	0
				Other Credit Adj.	0
				Net Bill Amount	190391
				Total Arrears	0
				Total Amount Payable	190391

*****Arrears as on 23/12/16*****

Court Cases Rs.	0	C.C.Charge	0	Surcharge	0	Inc. Rec. from Govt.	0
Others Rs.	0					Other Credit Adj.	0
Total Rs.	0					Net Bill Amount	190391
						Total Arrears	0

Note: ACD Due for 2016-17 Rs. 0
 One Lakh Ninty Thousand Three Hundred and Ninty 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 SBH A/C NO.62303697381
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Principals

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RRE1682-11.2016 (2).txt
 SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of November 2016, Date: 30-Dec-16
 PAYABLE ON OR BEFORE dated: 10-Dec-16 DISCONNECTION DATE: 25-Dec-16

Contracted MD (KVA/HP)	125	Consumer No.	RRE1682
Specified Voltage (KV)	11	Name	M/S. TEJA EDUCATIONAL SOCIETY
Actual Voltage (KV)	11	ADDRESS1	SY.NO.22&34,CHERIYAL(V),
Feeder	CF	ADDRESS2	KEESARA(M),
Category	2	ADDRESS3	R.R.DIST

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 18-NOV-16	1632860.80	1777369.50	134.76	0.00	263171.10
Reading On 22-OCT-16	1611499.40	1755990.80		0.00	263171.10
Difference ST:04	21361.40	21378.70		0.00	0.00
Multiplying Factor	0.50	0.50	0.50	0.50	0.50
Total Consumption	10680.70	10689.35	67.38	0.00	2492.00
Monthly Minimim Units	2500.00		100.00		
Main Consumption	10689.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	100	39000.00
Demand Charges Penal	Rs.780	0	0.00
Energy Charges	Ps.780	10689	83374.20
TOD Charges	Ps.100	2492	2492.00
Electricity Duty	Ps.6	10689	641.34
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	
				125507.54	
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0
				CS Surcharge	0.00
				Late Pmt Chrg	550.00
				Interest on ED	0
				Incentive TOD1	-2005.00
				Incentive TOD2	0.00
				wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	125738
				Incentive Amount	
				Other Credit Adj.	
				Net Bill Amount	125738
				Total Arrears	.48
				Total Amount Payable	125738

*****Arrears as on 23/11/16*****

	C.C.Charge	Surcharge
Court Cases Rs.	0	
Others Rs.	.48	
Total Rs.	.48	

Note: ACD Due for 2016-17 Rs. 0

One Lakh Twenty Five Thousand Seven Hundred and Thirty 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 Open Access provisions, the same will be levied in your future bills.

Note: PAY YOUR BILL THROUGH THE SBH A/C NO.62303673450
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[Signature]
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SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED
 HT C.C. Bill for the month of January 2018, Date: 26-Jan-18
 PAYABLE ON OR BEFORE dated: 09-Feb-18 DISCONNECTION DATE: 24-Feb-18

Contracted MD (KVA/HP) 125	Consumer No. HBG1682
Specified Voltage (KV) 11	Name M/S. TEJA EDUCATIONAL SOCIETY
Actual Voltage (KV) 11	ADDRESS1 SY.NO.22&34, CHERIYAL(V),
Feeder CF	ADDRESS2 KEESARA(M),
Category 2	ADDRESS3 R.R.DIST

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 19-JAN-18	7060.40	7341.00	64.84	855.90	1720.30
Reading On 22-DEC-17	4561.00	4712.00		542.00	1043.00
Difference ST:01	2499.40	2629.00		313.90	677.30
Multiplying Factor	2.00	2.00	2.00	2.00	2.00
Total Consumption	4999.00	5258.00	129.68	628.00	1355.00
Monthly Minimum Units	3242.00		100.00		
Main Consumption	3242.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs.390	125	48750.00
Demand Charges Penal	Rs.780	4.68	3650.40
Energy Charges	Ps.780	3242	25287.60
TOD Charges	Ps.100	1983	1983.00
Electricity Duty	Ps.6	494	29.64
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	79700.64
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0
				CS Surcharge	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-1701.00
				Incentive TOD2	-649.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	79036
				Inc. Rec. from Govt.	0
				Other Credit Adj.	79036
				Net Bill Amount	.48
				Total Arrears	79036
				Total Amount Payable	79036

*****Net Meter Details*****
 |Closing/Opening Reading : 5213.9/2832 |
 |Recorded Units : 4764 |
 |Current Month Banked Units:0 |
 |Cumulative Banked Units : 0 |

 *****Arrears as on 23/01/18*****
 | C.C.Charge | Surcharge |
 |Court Cases Rs. 0 |
 |Others Rs. .48 |
 |Total Rs. .48 |

Note: ACD Due for 2017-18 Rs. 0
 Seventy Nine Thousand 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.
 Note: PAY YOUR BILL THROUGH THE SBI A/C NO.62303673450
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 HT C.C. Bill for the month of January 2018, Date: 26-Jan-18
 PAYABLE ON OR BEFORE dated: 09-Feb-18 DISCONNECTION DATE: 24-Feb-18

Contracted MD (KVA/HP)	200	Consumer No.	HBG2780
Specified Voltage (KV)	11	Name	M/S. TEJA EDUCATIONAL SOCIETY.
Actual Voltage (KV)	11	ADDRESS1	SY.NO.31,CHERYAL(V),
Feeder	CF	ADDRESS2	KEESARA (M),
Category	2	ADDRESS3	R.R.DIST

	KWH	KVAH	KVA	TOD1	TOD2
Reading On 19-JAN-18	11756.60	12182.70	98.40	1286.30	2832.50
Reading On 20-DEC-17	7761.00	7984.00		867.00	1729.00
Difference ST:01	3995.60	4198.70		419.30	1103.50
Multiplying Factor	2.00	2.00	2.00	2.00	2.00
Total Consumption	7991.00	8397.00	196.80	839.00	2207.00
Monthly Minimum Units	4920.00		160.00		
Main Consumption	4920.00	Colony	0.00	L&F	0.00

	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs. 390	196.8	76752.00
Demand Charges Penal	Rs. 780	0	0.00
Energy Charges	Ps. 780	4920	38376.00
TOD Charges	Ps. 100	3046	3046.00
Electricity Duty	Ps. 6	2920	175.20
Colony Charges	Ps. 630	0	0.00
L&F Charges	Ps. 780	0	0.00
FSA Charges			

Supplier Name	NetKWH	KVA	TOD	Sub Total	118349.2
				Cust Charges	1685.00
				ACD Surc	0.00
				UI Charges	0
				CS Surcharge	0.00
				Late Pmt Chrg	0.00
				Interest on ED	0
				Incentive TOD1	-3005.00
				Incentive TOD2	-1095.00
				Wheeling Charges	0
				Transmission Charges	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	115934
				Inc. Rec. from Govt.	0
				Other Credit Adj.	0
				Net Bill Amount	115934
				Total Arrears	0
				Total Amount Payable	115934

*****Net Meter Details*****
 |Closing/Opening Reading : 5661.5/2923 |
 |Recorded Units : 5477 |
 |Current Month Banked Units:0 |
 |Cumulative Banked Units : 0 |

*****Arrears as on 23/01/18*****
 | Court Cases Rs. 0 |
 |Others Rs. 0 |
 |Total Rs. 0 |

Note: ACD Due for 2017-18 Rs. 0
 One Lakh Fifteen Thousand Nine Hundred and Thirty Four Only
 Note: This bill is settled based on the provisions of inter state settlements.
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Date: 10/05/2022

Summary of Renewable energy source: GCET SOLAR POWER PLANT

- Annual Power requirement met by the Renewable energy sources: 2,42,213 KWh (units)
- Total Annual Power requirement of the institution: 4,61,100 KWh (units)
- (2,18,887 KWh (units) from TSSPDCL + 2,42,213 KWh (units) from solar power plant = 4,61,100 KWh (units)
- Percentage of Annual Power requirement met by the Renewable energy sources= 52.2%
- Formula= $(2,42,213/4,61,100)*100= 52.2\%$
- Energy Exported to the grid by GCET solar plant is 1,06,722 KWh (units)
- Monthly average energy Exported to the grid by GCET solar plant is 8,893 KWh (units)
- In the month of August 2017 solar power plant was installed.
- Company Name: Four Solar Energy systems Pvt Ltd, Hyderabad.
- Plant capacity: 250 KW, 5 inverter each one= 25 KW and 5 inverter each one= 20 KW
- Solar Roof Top: Number of Panels (320 W*782)
- Before solar plant installation from December 2016 to November 2017 the energy consumed by the institution from TSSPDCL is 3,99,791 KWh (units), and the total electricity bill is Rs 43,65,402/-.
- After solar plant installation from January 2018 to December 2018 the energy consumed by the institution from TSSPDCL is 2,28,361 KWh (units) , and the total electricity bill is Rs 25,45,686/-.
- The annual electricity bill is reduced by Rs 18,19,716/-
- Monthly average electricity bill is reduced by Rs 1,51,643/-
- Installation cost for solar power plant Rs 1,41,95,000/-
- Return on Investment is 7.8 years.
- Energy exported by the solar power plant to the grid is 1,06,722 KWh (units)
- The monthly average Energy exported by the solar power plant to the grid is 8,893 KWh (units)


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