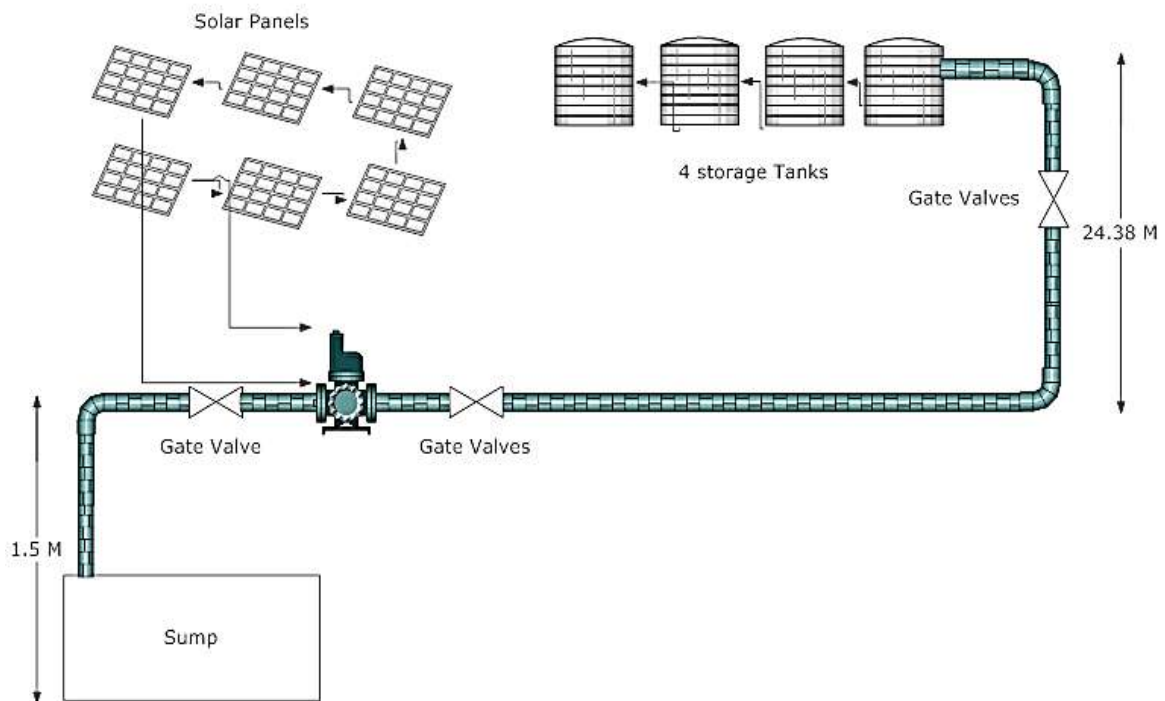


SOLAR PUMP

METHODOLOGY

- --- Chosen tank and panel location
- --- Chosen Pump and Sump location



After measuring the layout of the pump, sump, building and terrace we found the following information:

- Amount of water to be pumped per day: 16m^3
- Total vertical length: 28m
- Total horizontal length: 32m
- Height of building: 24.38m
- Depth of sump: 1.524m
- Length of day: 6 hours
- Peak of insolation: $1000\text{W}/\text{m}^2$
- Frictional losses: 5% of total vertical height = 1.4m
- Total dynamic head: 29.4m

Given below are the calculations made for the power of the pump as well as the number of panels required:

$$\begin{aligned}
 \text{Hydraulic energy required to raise the water level} &= \rho \times g \times v \times TDH \\
 &= \frac{1000\text{kg}/\text{m}^3 \times 16\text{m}^3/\text{day} \times 9.8\text{m}/\text{s}^2 \times 29.4\text{m}}{3600} \\
 &= \mathbf{1280.54 \text{ W/hr/day}}
 \end{aligned}$$

[Note: Potential energy of the water is raised due to pumping, which must be supplied to the pump]

Solar radiation data: 6hr/day (peak of $1000\text{W}/\text{m}^2$ equivalent)

$$\begin{aligned}
 \text{Total wattage of PV panel} &= \frac{\text{Total hydraulic energy}}{\text{No. hours of peak sunshine}} \\
 &= \frac{1280.54}{6} = \mathbf{213.43\text{W}}
 \end{aligned}$$

$$\begin{aligned}
 \text{Considering system losses} &= \frac{\text{Total PV panel wattage}}{\text{Pump } \eta \times \text{MM Factor}} \\
 &= \frac{213.43}{0.3 \times 0.85} = \mathbf{836.98W}
 \end{aligned}$$

$$\begin{aligned}
 \text{Consider the operating factor for PV panel} &= \frac{\text{Total PV panel wattage after loss}}{\text{Operating fraction}} \\
 &= \frac{836.98}{0.75} = \mathbf{1115.97W}
 \end{aligned}$$

$$\begin{aligned}
 \text{Number of solar panels required of 250wp each} &= \frac{1115.97}{250} = 4.46 = \mathbf{5 \text{ panels}}
 \end{aligned}$$

$$\begin{aligned}
 \text{Power rating of the motor} &= \frac{1115.97}{746} = \mathbf{1.49HP}
 \end{aligned}$$



SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE

February 2017

26-02-2017

Dated: 12-Mar-17

DISCONNECTION DATE : 27-Mar-17

Contracted MD (KVA/HP) 330	HDN105
Specified Voltage (KV) 11	SULTAN UL ULOOM
Actual Voltage (KV) 11	EDUCATIONAL SOCIETY
Consumer Number CF	8-2-249 RD 3 BANJARAHILLS
Category 2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading FEB-17	717089.00	795406.00	80.08	110858.00	60714.00
Reading JAN-17	702766.00	780666.00		108346.00	59593.00
Difference	14323.00	14740.00		2512.00	1121.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	57292.00	58960.00	320.31	10048.00	4484.00
Monthly Minimum Units	8007.70		280.00		
Main Consumption	58960.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 0	320.308	124920.12
Demand Charges Penal	Rs 0	0	0.00
Energy Charges	Rs 780	58960	459888.00
Incentive TOD1 (FR:83995 IR:82677)	Rs 995		-5272.00
Incentive TOD2 (FR:28774 IR:28253)	Rs 774		-2084.00
L&F Charges	Rs 100	14532	14532.00
Electrical Duty	Rs 58960		3537.60
Colony Charges	Rs 630	0	0.00
L&F Charges	Rs 780	0	0.00
SA Charges	Rs		

Supplier Name	Net KWH	KVA	TOD	Sub Total	
				595521.72	
				Customer Charges	1685
				Low Power Factor Surcharge	2084.36
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	1731.48
				Interest on ED	13.4
				Penal Interest	0
				Difference Voltage Surcharge	
				Wheeling / Transmission Charges	
*****Arrears as on 23/02/17*****				Other Charges-I	0
				Other Charges-II	0
Court Cases Rs.	0			Gross Total	601036
Others Rs.	0				
Total Rs.	0				
*****				Inc. Rec. from Govt	0
Incentive Amount					
Net Bill Amount				601036	
Total Arrears				0	
Total Amount Payable				601036	

* Lakh One Thousand and Thirty Six Only

308 *M.T.N. Rami*
Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE ^{September 2016} Dated 10-Oct-16

26-09-2016

DISCONNECTION DATE : 25-Oct-16

Contracted MD (KVA/HP) 350	HDM105
Specified Voltage (KV) 11	SULIAN UL UDUM
Actual Voltage (KV) 11	EDUCATIONAL SOCIETY
Feeder CF	3-2-249 RD 3 BANJARA HILLS
Category 2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On SEP-16	654971.00	723052.00	107.30	99045.00	54926.00
Reading On AUG-16	639770.00	704020.00		95880.00	53574.00
Difference	15201.00	19032.00		3165.00	1352.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	60804.00	76128.00	431.20	12660.00	5408.00
Monthly Minimum Units	10780.00		280.00		
Main Consumption	76128.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	81.2	63336.00
Energy Charges	Rs 897	76128	682868.16
Incentive TOD1 (FR:74133 IR:71759)	Ps 133		-9496.00
Incentive TOD2 (FR:25290 IR:24552)	Ps 290		-2952.00
TOD Charges	Ps 115	18059	20778.20
Electrical Duty	Ps 6	76128	4567.68
Colony Charges	Ps 724.5	0	0.00
L&F Charges	Ps 807	0	0.00
FSA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	AMOUNT Rs.
				899413.04	
				Customer Charges	1685
				Low Power Factor Surcharge	2084.35
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	
				Interest on ED	41.57
				Penal Interest	
				Difference Voltage Surcharge	
				Wheeling / Transmission Charges	
				Other Charges-I	
				Other Charges-II	
				Gross Total	899413
				Incentive Amount	
				Other Credit Adj.	
				Net Bill Amount	899413
				Total Arrears	
				Total Amount Payable	899413

*****Arrears as on 23/09/16*****

C.C.Charge	Surcharge	Other Charges-I	Other Charges-II
Court Cases Rs.	0		
Others Rs.	0		
Total Rs.	0		

Note: ACD Due for 2016-17 Rs. 138957

Note: Furnish Company E-Mail ID & Mobile No for Communication

Note: PAY YOUR BILL THROUGH THE SEH A/C NO. 62307954987

GUNFOUNDRY, HYDERABAD. IFSC CODE: SEHY0000066

Eight Lakh Nint/ Nine Thousand Four Hundred and Thirteen.

M.T.R. Rani
Senior Accounts Officer

Aug 21 Sept 2016

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated ^{May} 09-Jun-18 2018

26-05-2018

DISCONNECTION DATE : 24-Jun-18

Contracted MD (KVA/HP) 350	BJH105
Specified Voltage (KV) 11	SULTAN UL ULLOOM
Actual Voltage (KV) 11	EDUCATIONAL SOCIETY
Feeder CF	8-2-249 RD 3 BANJARAHILLS
Category 2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading on MAY-18	940688.00	1032856.00	118.59	151956.00	77238.00
Reading on APR-18	923112.00	1014826.00		148943.00	76117.00
Difference : 01	17576.00	18030.00		3013.00	1121.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	70304.00	72120.00	474.36	12052.00	4484.00
Monthly Minimum Units	11859.00		280.00		
Main Consumption	72120.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	124.36	96780.80
Energy Charges	Ps 897	72120	646826.40
Incentive TOD1 (FR:101823 IR:100750)			34182.00
Incentive TOD2 (FR:35509 IR:35103)			12624.00
TOD Charges	Ps 115	16536	18996.00
Electrical Duty	Ps 6	72120	432720.00
Colony Charges	Ps 725	0	0.00
L&F Charges	Ps 897	0	0.00
FSA Charges	Ps		0.00

Supplier Name	Net KWH	KVA	TOD	Sub Total
				Customer Charges
				Low Power Factor Surcharge
				RKVAH Surcharge HYDEL
				RKVAH Surcharge WIND
				Late Payment Charges
				Interest on ED
				Penal Interest
				Difference Voltage Surcharge
				Wheeling / Transmission Charges
				Other Charges I
				Other Charges II
				Gross Total
				Inc. Rec. From Govt
				Incentive Amount
				Other Credit Adj.
				Net Bill Amount
				Total Arrears
				Total Amount Payable

*****Arrears as on 23/05/18*****

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


Note: ACD Due for 2017-18 Rs. 0

Note: Furnish Company E-MailID & Mobile No for Communication

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. 62307954787

GUNFOUNDRY, HYDERABAD; IFSC CODE: SBIN0020066

Nine Lakh Nine Hundred and Sixty Nine Only


 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE

Dated

June 2018

26-06-2018

10-Jul-18

DISCONNECTION DATE : 25-Jul-18

Contracted MD (KVA/HP)	350	BJH105
Specified Voltage (KV)	11	SULTAN UL ULOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARAHILLS
Category	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading on JUN-18	951070.00	1043286.00	66.79	153483.00	78820.00
Reading on MAY-18	940688.00	1032856.00		151956.00	77238.00
Difference	10382.00	10430.00		1527.00	1582.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	41528.00	41720.00	267.15	6108.00	6328.00
Monthly Minimum Units	7000.00		280.00		
Main Consumption	41720.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs390	280	109200.00
Demand Charges Penal	Rs780	0	0.00
Energy Charges	Ps 780	41720	325416.00
Incentive TOD1 (FR:102805 IR:101823)			-3928.00
Incentive TOD2 (FR:35949 IR:35509)			-1760.00
TOD Charges	Ps 100	12436	12436.00
Electrical Duty	Ps6	41720	2503.20
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	AMOUNT Rs.
				443867.2	
				Customer Charges	1685
				Low Power Factor Surcharge	0
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	3158.33
				Interest on ED	23.08
				Penal Interest	0
				Difference Voltage Surcharge	0
				Wheeling / Transmission Charges	0
*****Arrears as on 23/06/18*****					
				Other Charges	0
				Other Charges	0
				Other Charges	0
				Gross Total	448734
				Inc. Rec. Incentive Amount	0
				Other Credit Adj.	
				Net Bill Amount	448734
				Total Arrears	891385.34
				Total Amount Payable	1340119

Thirteen Lakh Fourty Thousand One Hundred and Ninteen Only

38 
Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE

Dated:

2018

06-07-2018

09-Aug-18 DISCONNECTION DATE: 24-Aug-18

Contracted MD (KVA/HP)	350	BJH105
Specified Voltage (KV)	11	SULTAN UL ULOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARAHILLS
Category	2	HYDERABAD, 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading 00L-18	966462.00	1058687.00	85.89	156232.00	79812.00
Reading 00N-18	951070.00	1043286.00		153483.00	78820.00
Difference	15392.00	15401.00		2749.00	992.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	61568.00	61604.00	943.58	10996.00	9964.00
Monthly Minimum Units	8589.40		286.00		
Main Consumption	61604.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	3Rs	343.576	133994.64
Demand Charges Penal	7Rs	0	0.00
Energy Charges	750 Ps	61604	480511.20
entive TOD1 (FR:103923 IR:102805)			-4472.00
entive TOD2 (FR:36879 IR:35949)			-1720.00
Charges	Ps 100	14964	14964.00
Electrical Duty	6Ps	61604	3696.24
Colony Charges	630 Ps	0	0.00
L&F Charges	780 Ps	0	0.00
SA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	AMOUNT Rs.
				626974.08	626974.08
				Customer Charges	1685
				Low Power Factor Surcharge	0
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	6642.14
				Interest on ED	42.68
				Penal Interest	0
				Difference Voltage Surcharge	
				Wheeling / Transmission Charges	
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	635344
				Inc. Rec. From Govt	0
				Incentive Amount	
				Other Credit Adj.	
				Net Bill Amount	635344
				Total Arrears	0
				Total Amount Payable	635344

Lakh Thirty Five Thousand Three Hundred and Fourty Four Only


Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated: August 2018

26-08-2018

09-Sep-18 DISCONNECTION DATE : 24-Sep-18

Contracted MD (KVA/HP)	350	BJH105
Specified Voltage (KV)	11	SULTAN UL ULOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARAHILLS
Category	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading on 21-AUG-18	983822.00	1076092.00	103.44	159409.00	80877.00
Reading on 19-JUL-18	966462.00	1058687.00		156232.00	79812.00
Difference	17360.00	17405.00		3177.00	1065.00
Multipling Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	69440.00	69620.00	413.76	12708.00	4260.00
Monthly Minimum Units	10344.00		280.00		
Main Consumption	69620.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	63.76	49732.80
Energy Charges	Ps 780	69620	543036.00
Incentive TOD1 (FR:105114 IR:103923)			-4764.00
Incentive TOD2 (FR:36810 IR:36379)			-1724.00
OD Charges	Ps 100	16968	16968.00
Electrical Duty	Ps 6	69620	4177.20
Colony Charges	Ps 630	0	0.00
L&F Charges	Ps 780	0	0.00
SA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	743926
				Customer Charges	1685
				Low Power Factor Charge	0
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	1300.4
				Interest on ED	9.88
				Penal Interest	0
				Difference Voltage Surcharge	0
				Wheeling / Transmission Charges	
*****Arrears as on 23/08/18*****				Other Charges I	0
	C.C.Charge	Surcharge		Other Charges II	0
Court Cases	Rs. 0			Gross Total	746921
Others	Rs. 625760.34				
Total	Rs. 625760.34				
*****				Inc. Rec. From Govt	0
Note: ACD Due for 2018-19 Rs. 0				Other Credit Adj.	
Note: Furnish Company E-MailID & Mobile No for Communication				Net Bill Amount	746921
Note: PAY YOUR BILL THROUGH THE SBI A/C NO.62307954787				Total Arrears	625760.34
UNFOUNDRY, HYDERABAD, IFSC CODE: SBIN0020066				Total Amount Payable	1372681

thirteen Lakh Seventy Two Thousand Six Hundred and Eighty One Only


Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated: September 2018

26-09-2018

10-Oct-18 DISCONNECTION DATE : 25-Oct-18

Contracted MD (KVA/HP)	350	BJH105	
Specified Voltage (KV)	11	SULTAN UL ULOOM	
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY	
Feeder	CF	8-2-249 RD 3 BANJARAHILLS	
Category	3	HYDERABAD 500 034	

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On-SEP-18	998298.00	1090607.00	122.01	162158.00	81733.00
Reading On-AUG-18	983822.00	1076092.00		159409.00	80877.00
Difference	14476.00	14515.00		2749.00	856.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	57904.00	58060.00	488.04	10996.00	3424.00
Monthly Minimum Units	12201.00		280.00		
Main Consumption	58060.00	Colony	0.00	L&F	0.00

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	138.04	107671.20
Energy Charges	Ps 897	58060	520798.20
Incentive TOD1 (FR:106111 IR:105114)			-3988.00
Incentive TOD2 (FR:37175 IR:36810)			-1460.00
POD Charges	Ps 115	14420	16583.00
Electrical Duty	Ps 6	58060	3483.60
Colony Charges	Ps 725	0	0.00
L&F Charges	Ps 897	0	0.00
FSA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	
				779588	
				Customer Charges	1685
				Low Power Factor Surcharge	0
				RKVAH Surcharge HYDEL	
				RKVAH Surcharge WIND	
				Late Payment Charges	4615.34
				Interest on ED	36.46
				Penal Interest	0
				Difference Voltage Surcharge	
				Wheeling / Transmission Charges	
*****Arrears as on 23/09/18*****					
				C.C.Charge	0
				Surcharge	0
				Other Charges-I	0
				Other Charges-II	0
				Gross Total	785925

				Inc. Rec. from Govt	0
				Incentive Amount	
				Other Credit Adj.	
				Net Bill Amount	785925
				Total Arrears	111577.34
				Total Amount Payable	897502

Eight Lakh Ninty Seven Thousand Five Hundred and Two Only

38 
Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated

October 2018

26-10-2018

09-Nov-18

DISCONNECTION DATE : 24-Nov-18

Contracted MD-(KVA/HP) 350	BZH105				
Specified Voltage (KV) 11	SULTAN UL ULOOM				
Actual Voltage (KV) 11	EDUCATIONAL SOCIETY				
Feeder CF	B-2-249 RD 3 BANJARAMILLE				
Category 2	HYDERABAD 500 034				

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On OCT-18	1013523.00	1105913.00	113.66	164893.00	82705.00
Reading On SEP-18	998298.00	1090607.00		162158.00	81733.00
Difference : 01	15225.00	15306.00		2735.00	972.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	60900.00	61224.00	454.64	10940.00	3888.00
Monthly Minimum Units	11366.00		280.00		
Main Consumption	61224.00	Colony	0.00	L&F	0.00
TOD Incentive Readings	INC1 : 107164 / 106111		INC2 : 37552 / 37175		

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT-Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	104.64	81619.20
Energy Charges	Ps 897	61224	542179.28
	115	14828	17052.20
Peak TOD Charges	Ps 6	61224	3673.44
Electrical Duty	Ps 725	0	0.00
Colony Charges	Ps 897	0	0.00
L&F Charges	Ps		
FSA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	AMOUNT-Rs.
					788024.72
				Customer Charges	1685.00
				UI Charges	0.00
				Cross Subsidy Surcharges	0.00
				Addl. Surcharges	1115.77
				Late Payment Charges	0.00
				Interest on ED	0.00
				ACD Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges - I	290824.89
				Other Charges - II	2212.00
				Gross Total	1408.00
				TOD Incentive 1 Amount	
				TOD Incentive 2 Amount	0.00
				Other Credit Adj.	785105.00
				UI Charges	0
				Net Bill Amount	785105.00
				Total Arrears	
				Total Amount Payable	

*****Arrears as on 23/10/18 *****

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

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. 62307954787
 GUNFOUNDRY, HYDERABAD, IFSC CODE: SBIN0020066
 Seven Lakh Eighty Five Thousand One Hundred and Five Only

39 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated November 2018

26-11-2018

10-Dec-18 DISCONNECTION DATE : 25-Dec-18

Contracted MD (KVA/HP)	350	BJH105	
Specified Voltage (KV)	11	SULTAN UL ULOOM	
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY	
Order	CF	8-2-249 RD 3 BANJARAHILLS	
Category	2	HYDERABAD 500 034	

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading on NOV-18	1029116.00	1121531.00	96.80	167930.00	83580.00
Reading on OCT-18	1013523.00	1105913.00		164893.00	82705.00
Difference: 01	15593.00	15618.00		3037.00	875.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Actual Consumption	62372.00	62472.00	387.21	12148.00	3500.00
Monthly Minimum Units	9680.20		280.00		
Main Consumption	62472.00	Colony	0.00	L&F	0.00
OD Incentive Readings	INCL : 108189 / 107164		INC2 : 37938 / 37552		

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	37.208	29022.24
Energy Charges	Ps 780	62472	487281.60
Peak TOD Charges	100	15648	15648.00
Electrical Duty	Ps 630	0	0.00
Colony Charges	Ps 780	0	0.00
L&F Charges	Ps		
SA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	672200.16
				Customer Charges	1685.00
				UI Charges	0.00
				Cross Subsidy Surcharges	0.00
				Addl. Surcharges	550.00
				Late Payment Charges	0.00
				Interest on ED	0.00
				ACD Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges - I	0.00
				Other Charges - II	674435.16
				Gross Total	-4100.00
				TOD Incentive 1 Amount	
				TOD Incentive 2 Amount	0.00
				Other Credit Adj.	668791.00
				UI Charges	0
				Net Bill Amount	668791.00

*****Arrears as on 23/11/18 *****			
C.C. Charge	Surcharge		
Court Cases Rs.	0		
Others Rs.	0		
Total Rs.	0		
Note: PAY YOUR BILL THROUGH THE SBI A/C NO. 62307954787 GUNFOUNDRY, HYDERABAD, IFSC CODE: SBIN0020066 Six Lakh Sixty Eight Thousand Seven Hundred and Ninty One Only			


 39 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated December 2018

26-12-2018

09-Jan-19 DISCONNECTION DATE : 24-Jan-19

Contracted MD (KVA/HP)	350	EJH105
Specified Voltage (KV)	11	SULTAN UL ULLOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARA HILLS
Category	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On DEC-18	1040325.00	1132747.00	77.37	169963.00	84432.00
Reading On NOV-18	1029116.00	1121531.00		167930.00	83580.00
Difference	11209.00	11216.00		2033.00	852.00
Multiplying Factor	4.00	4.00	4.00	4.00	4.00
Total Consumption	44836.00	44864.00	309.48	8132.00	3408.00
Monthly Minimum Units	7736.90		280.00		
Main Consumption	44864.00	Colony	0.00	L&F	0.00
TOD Incentive Readings	INC1 : 109169 / 108189		INC2 : 38305 / 37938		

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	309.476	120695.64
Demand Charges Penal	Rs 780	0	0.00
Energy Charges	Ps 780	44864	349939.20
	100	11540	11540.00
Peak TOD Charges	Ps 5	44864	2691.84
Electrical Duty	Ps 630	0	0.00
Colony Charges	Ps 780	0	0.00
L&F Charges	Ps		
SA Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total
				484866.68
				1685.00
				Customer Charges
				UI Charges
				0.00
				Cross Subsidy Surcharges
				0.00
				Addl. Surcharges
				0.00
				Late Payment Charges
				0.00
				Interest on ED
				0.00
				ACD Surcharge
				0.00
				Wheeling Charges
				0.00
				Transmission Charges
				0.00
				Other Charges - I
				486551.68
				Other Charges - II
				-3920.00
				Gross Total
				-1468.00

*****Arrears as on 23/12/18 *****			
Court Cases Rs.	C.C. Charge	Surcharge	TOD Incentive 1 Amount
0	0	0	0.00
0	0	0	TOD Incentive 2 Amount
0	0	0	0.00
0	0	0	Other Credit Adj.
0	0	0	481164.00
0	0	0	UI Charges
0	0	0	0
0	0	0	Net Bill Amount
0	0	0	481164.00
0	0	0	Total Arrears
0	0	0	

Net Bill Amount Payable: 481164.00

Payable: PAY YOUR BILL THROUGH THE SBI A/C NO. 62307954787

GUNFOUNDRY, HYDERABAD, IFSC CODE: SBIN0020066

Rs. Lakh Eighty One Thousand One Hundred and Sixty Four Only

37 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of _____

Dated _____

PAYABLE ON OR BEFORE Dated: January 2019 26-01-2019
09-Feb-19 DISCONNECTION DATE : 24-Feb-19

Contracted MD (KVA/HP)	350	BJH105
Specified Voltage (KV)	11	SULTAN UL ULOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARAHILLS
Category	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On -JAN-19	1049600.00	1142024.00	59.04	171548.00	85260.00
Reading On -DEC-18	1040325.00	1132747.00		169963.00	84432.00
Difference	9275.00	9277.00		1585.00	828.00
Multiplier	4.00	4.00	4.00	4.00	4.00
Total Consumption	37100.00	37108.00	236.16	6340.00	3312.00
Monthly Minimum Units	2000.00		280.00		
Main Consumption	37108.00	Colony		L&F	
TOD Incentive Readings		INC1 : 110086 / 109169		INC2 : 38644 / 38305	

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	280	109200.00
Demand Charges Penal	Rs 780	0	0.00
Energy Charges	Ps 780	37108	289442.40
Peak TOD Charges	Ps 100	9652	9652.00
Electrical Duty	Ps 630	37108	2226.48
Colony Charges	Ps 780	0	0.00
L&F Charges	Ps		
ISA Charges	Ps		

Supplier Name	Net kWh	KVA	TOD	Sub Total	AMOUNT Rs.
					412205.88
				Customer Charges	1681.00
				UI Charges	0.00
				Cross Subsidy Surcharges	0.00
				Addl. Surcharges	0.00
				Late Payment Charges	0.00
				Interest on ED	0.00
				ACD Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges - I	412205.88
				Other Charges - II	-3668.00
				Gross Total	-1356.00
				TOD Incentive 1 Amount	
				TOD Incentive 2 Amount	0.00
				Other Credit Adj.	407182.00
				UI Charges	360003.34
				Net Bill Amount	767185.00
				Total Arrears	
				Total Amount Payable	

*****Arrears as on 23/01/19 *****
 C.C. Charge Surcharge
 Court Cases Rs. 0
 Others Rs. 360003.34
 Total Rs. 360003.34

Note: ACD Due for 2018-19 Rs. 0
 Note: PAY YOUR BILL THROUGH THE SPT A/C NO. 67307854787
 GUNFOUNDRY, HYDERABAD. (FSC CODE: 59190020004)
 Seven Lakh Sixty Seven Thousand One Hundred and Eighty Five Only

Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated February 2019

26-02-2019

12-Mar-19 DISCONNECTION DATE : 27-Mar-19

Contracted MD (KVA/HP)	350	BJH105
Contracted Voltage (KV)	11	SULTAN UL ULOOM
Supply Voltage (KV)	11	EDUCATIONAL SOCIETY
Consumer Category	CF	8-2-249 RD 3 BANJARAHILLS
	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Consumption FEB-19	1062519.00	1154947.00	71.90	173910.00	86259.00
Consumption JAN-19	1049600.00	1142024.00		171548.00	85260.00
Energy Factor	12919.00	12923.00		2362.00	999.00
Energy Factor	4.00	4.00	4.00	4.00	4.00
Consumption	51676.00	51692.00	287.61	9448.00	3996.00
Minimum Units	7190.20		280.00		
Consumption	51692.00	Colony	0.00	L&F	0.00
Incentive Readings	INC1 : 111186 / 110086		INC2 : 39061 / 38644		

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Standard Charges Normal	Rs 390	287.608	112167.12
Standard Charges Penal	Rs 780	0	0.00
Energy Charges	Ps 780	51692	403197.60
TOD Charges	100	13444	13444.00
Technical Duty	Ps 6	51692	3101.52
Penalty Charges	Ps 630	0	0.00
Standard Charges	Ps 780	0	0.00
Standard Charges	Ps		
Standard Charges	Ps		

Supplier Name	Net KWH	KVA	TOD	Sub Total	531910.24
				Customer Charges	1685.00
				UI Charges	0.00
				Cross Subsidy Surcharges	0.00
				Addl. Surcharges	3394.46
				Late Payment Charges	33.63
				Interest on ED	0.00
				ACD Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges	0.00
				Other Charges - I	537023.33
				Other Charges - II	-4400.00
				Gross Total	-1668.00
*****Arrears as on 23/02/19 *****				TOD Incentive 1 Amount	
	C.C.Charge	Surcharge		TOD Incentive 2 Amount	0.00
Outstanding Cases	Rs.	0		Other Credit Adj.	530955.00
Others	Rs.	0		UI Charges	0.00
Total	Rs.	0		Net Bill Amount	530955.00
: ACD Due for 2018-19 Rs. 0				Total Arrears	
: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLEB0105				Total Amount Payable	
IFSC CODE: SBIN0004266					

Lakh Thirty Thousand Nine Hundred and Fifty Five Only

[Signature]
Senior Accounts Officer

Quote the code no

in all correspondence

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SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated:

March, 2019 26-03-2019
 07-Apr-19 DISCONNECTION DATE : 24-Apr-19

Contracted MD (KVA/HP)	350	EJRI 104	
Specified Voltage (KV)	11	SUJAN UL USUM	
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY	
Feeder	CF	5-2-748 RD 3 BANJARAHILLS	
Category	2	HIDALABAD 500 034	

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On 16-MAR-19	1078799.00	1171243.00	104.86	176798.00	87826.00
Reading On 16-FEB-19	1062519.00	1154947.00		173910.00	8677.00
Difference	16280.00	16296.00		2888.00	1971.00
Status	4.00	4.00	4.00	4.00	4.00
Multiplying Factor	65120.00	65184.00	419.34	11552.00	4284.00
Total Consumption	10486.00		280.00		
Monthly Minimum Units	65184.00	Colony	8.00	L&F	0.00
Main Consumption	/				
TOD Incentive Readings		TR01 : 11437 / 11437		TR02 : 39437 / 39000	

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	69.44	54163.20
Energy Charges	Ps 780	65184	508435.20
Peak TOD Charges	Ps 100	15836	15836.00
Electrical Duty	Ps 630	65184	3911.04
Colony Charges	Ps 780	0	0.00
L&F Charges	Ps		0.00
FSA Charges	Ps		0.00

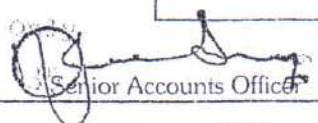
Supplier Name	Net KWH	KVA	TR01	Sub Total	718845.44
				Customer Charges	1685.00
				UI Charges	0.00
				Cross Subsidy Surcharges	0.00
				Addl. Surchages	1277.08
				Late Payment Charges	12.18
				Interest on ED	0.00
				ACD Surcharge	0.00
				Wheeling Charges	0.00
				Transmission Charges - I	0.00
				Transmission Charges - II	0.00
				Other Charges - I	721821.00
				Other Charges - II	-3972.00
				Gross Total	-1504.00
				TOD Incentive 1 Amount	
				TOD Incentive 2 Amount	0.00
				Other Credit Adj.	716345.00
				Net Bill Amount	716345.00
				Total Arrears	
				Total Amount Payable	

*****Arrears as on 26/03/19 *****
Court Cases Rs. 0		
Others Rs. 0		
Total Rs. 0		

Note: ACD Due for 2018-19 Rs. 0

Note: PAY YOUR BILL THROUGH THE BILL AND RECEIPT DEPARTMENT
 (FSC Code: 211002300)

Seven Lakh Sixteen Thousand Three Hundred and Forty Five Only


 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated: April 2019 26-04-2019
10-May-19 DISCONNECTION DATE : 25-May-19

Contracted MD (KVA/HP)	350	EJRI.05
Specified Voltage (KV)	11	SULTAN UL ULOOM
Actual Voltage (KV)	11	EDUCATIONAL SOCIETY
Feeder	CF	8-2-249 RD 3 BANJARAHILLS
Category	2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On APR-19	1099028.00	1191535.00	109.03	180548.00	88588.00
Reading On MAR-19	1078799.00	1171243.00		176798.00	87330.00
Difference	20229.00	20292.00		3750.00	1258.00
Status	4.00	4.00	4.00	4.00	4.00
Multiplying Factor	80916.00	81168.00	436.12	15000.00	5032.00
Total Consumption	1099028.00		280.00		
Monthly Minimum Units	81168.00	Colony	0.00	L&F	0.00
Main Consumption		INC1 : 113475 / 112179		INC2 : 39908 / 39437	
TOD Incentive Readings					


DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.
Demand Charges Normal	Rs 390	350	136500.00
Demand Charges Penal	Rs 780	86.12	67173.60
Energy Charges	Ps 897	81168	728076.96
	115	20032	23036.80
Peak TOD Charges	Ps 6	81168	4870.08
Electrical Duty	Ps 725	0	0.00
Colony Charges	Ps 897	0	0.00
L&F Charges	Ps		
ES&S Charges			959657.44

	Sub Total		1685.00
	Customer Charges		0.00
	UI Charges		0.00
	Cross Subsidy Surcharges		550.00
	Addl. Surcharges		2.04
	Late Payment Charges		0.00
	Interest on ED		0.00
	ACD Surcharge		0.00
	Other Charges - I		0.00
	Wheeling Charges		0.00
	ICD for FY 2018-19		-73195.98
	Transmission Charges		888699.00
	Other Charges - I		-5184.00
	Other Charges - II		-1884.00
	Gross Total		888699.00
	TOD Incentive 1 Amount		0.00
	TOD Incentive 2 Amount		881631.00
	Other Credit Adj.		0.00
	Net Bill Amount		881631.00
	Total Arrears		0.00
	Total Amount Payable		881631.00

ICD: 81328.98 TDB: 8133
 *****Arrears as on 23/04/19 *****
 | C.C. Charge Surcharge |
 | Court Cases Rs. 0 |
 | Others Rs. 0 |
 | Total Rs. 0 |

Note: ACD Due for 2018-19 Rs. 0
 Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLEPB0105
 IFSC CODE: SBIN0004266

Eight Lakh Eighty One Thousand Six Hundred and Thirty One Only

33 
 Senior Accounts Officer

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

H.T. C.C. Bill for the month of

Dated

PAYABLE ON OR BEFORE Dated

May 2019

26-05-2019

09-Jun-19 DISCONNECTION DATE : 24-Jun-19

Contracted MD (KVA/HP)	
Specified Voltage (KV) 350	BJH105
Actual Voltage (KV) 11	SULTAN UL ULOOM
Feeder 11	EDUCATIONAL SOCIETY
Category CF	8-2-249 RD 3 BANJARAHILLS
2	HYDERABAD 500 034

DESCRIPTIONS	KWH	KVAH	KVA	PF	PEAK KVAH
Reading On 18-MAY-19	1114583.00	1207119.00	102.20	183194.00	89447.00
Reading On 19-APR-19	1099028.00	1191535.00		180548.00	88588.00
Difference	15555.00	15584.00		2646.00	1359.00
Status ST:01	4.00	4.00	4.00	4.00	4.00
Multiplying Factor	62220.00	62336.00	408.80	10584.00	5436.00
Total Consumption	10220.00		280.00		
Monthly Minimum Units	62336.00	Colony	0.00	L&F	0.00
Main Consumption	TOD Incentive Readings				
	INC1 : 114557 / 113475		INC2 : 40335 / 39908		

DESCRIPTIONS	RATE	KVA / UNITS	AMOUNT Rs.		
Demand Charges Normal	Rs300	350	136500.00		
Demand Charges Penal	Rs780	58.8	45864.00		
Energy Charges	Ps780	62336	486220.80		
Peak TOD Charges	100 Ps	16020	16020.00		
Electrical Duty	Ps630	0	0.00		
Colony Charges	Ps780	0	0.00		
L&F Charges	Ps				
FSA Charges					
Supplier Name	Net	Ps KWH	KVA	TOD	688344.90

	Sub Total	1685.00
	Customer Charges	
	UI Charges	0.00
	Cross Subsidy Surcharges	0.00
	Addl. Surcharges	689.90
	Late Payment Charges	15.40
	Interest on ED	0.00
	ACD Surcharge	0.00
	Wheeling Charges I	0.00
	Transmission Charges II	0.00
	Other Charges - I	690735.00
	Other Charges - II	-4328.00
	Gross Total	-1708.00
	TOD Incentive 1 Amount	0.00
	TOD Incentive 2 Amount	684699.00
	Other Credit Adj.	400467.34
	Net Bill Amount	1085166.00

*****Arrears as on 23/05/19*****

C.C. Charge	Surcharge
Court Cases Rs. 0	
Others Rs. 400467.34	
Total Rs. 400467.34	

Note: ACD Due for 2018-19 Rs. 0

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. 5PDCPLPBJH105 Total Arrears

LPSC CODE: 5BIM0004210

Total Amount Payable

Ten Lakh Eighty Five Thousand One Hundred and Sixty Six Only


 Senior Accounts Officer