SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS COLLEGE CAMPUS SERVICE NUMBER:069094420254032001(HT)

TARIFF: HT/IIB

ACADEMIC YEAR 2020 JUNE TO 2021 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	14,992	95,199.20	274669.00
2	JULY	15,669	99,498.15	272296.00
3	AUGUST	12,197	77,450.95	255308.00
4	SEPTEMBER	14,680	93,218.00	270391.00
5	OCTOBER	16,186	1,02,781.10	274333.00
6	NOVEMBER	14,767	93,770.45	273485.00
7	DECEMBER	15,164	96,291.40	270149.00
8	JANUARY	14,986	95,161.10	273895.00
9	FEBRAUARY	20,632	1,31,013.20	300990.00
10	MARCH	25,664	1,62,966.40	336287.00
- 11	APRIL	45,030	2,85,940.50	83370.00
12	MAY	18,173	1,15,398.55	286168.00
	TOTAL	228,140	650,589.25	3171341.00

SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS COLLEGE CAMPUS SERVICE NUMBER:069094420254032001(HT)

TARIFF: HT/IIB

ACADEMIC YEAR 2021 JUNE TO 2022 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	13964	88671.4	261166
2	JULY	19032	120853.2	289136
3	AUGUST	19707	125139.45	293644
4	SEPTEMBER	28396	180314.6	353650
5	OCTOBER	28017	177907.95	350083
6	NOVEMBER	31218	198234.3	371535
7	DECEMBER	33124	210337.4	384538
. 8	JANUARY	18909	120072.15	288812
9	FEBRAUARY	27085	171989.75	343101
10	MARCH	37513	238207.55	414589
11	APRIL	41704	264820.4	443087
12	MAY	46747	296843.45	475963
	TOTAL	345416	2193391.6	4269304

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SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS GIRLS HOSTEL (right hand side building -Guest House) SERVICE NUMBER :062290091218(LT)

TARIFF:

ACADEMIC YEAR 2020 JUNE TO 2021 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	1718.4	13833,12	22372
2	JULY	1407.6	11331.18	19699
3	AUGUST	1415.2	11392,36	19749
4	SEPTEMBER	1388	11173.4	19527
5	OCTOBER	1329.2	10700.06	19030
6	NOVEMBER	1369.6	11025.28	19366
. 7	DECEMBER	1391.2	11199.16	19554
8	JANUARY	1374.8	11067.14	19415
9	FEBRAUARY	1166	9386.3	17650
10	MARCH	1250.4	10065.72	18364
11	APRIL	1321.6	10638.88	18979
12	MAY	1428	11495.4	19875
	TOTAL	16560	133308	233580

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SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS GIRLS HOSTEL (right hand side building -Guest House) **SERVICE NUMBER: 062290091218(LT)**

TARIFF:

ACADEMIC YEAR 2021 JUNE TO 2022 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	1074.6	8433.18	16646
2	JULY	1065.2	8574.86	16788
3	AUGUST	948.8	7637.84	15811
4	SEPTEMBER	1203.2	9685.76	17954
5	OCTOBER	1048.8	8442.84	16656
6	NOVEMBER	947.6	7628.18	15794
7	DECEMBER	1901.2	15304.66	23948
8	JANUARY	2039.2	16415.56	25080
9	FEBRAUARY	1117.6	8996.68	17241
10	MARCH	1250	10062.5	18353
11	APRIL	1143.6	9205.98	17461
12	MAY	1141.6	9189.88	17440
	TOTAL	14881.4	119577.92	219172

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SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS GIRLS HOSTEL **SERVICE NUMBER: 062290091168(LT)**

TARIFF:

ACADEMIC YEAR 2020 JUNE TO 2021 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	2985	24034.06	33104
2	JULY	2399	19316.78	26671
3	AUGUST	2156	17355.8	21682
4	SEPTEMBER	2281.8	18300.88	22813
5	OCTOBER	2262.4	18212.32	22630
6	NOVEMBER	2242.4	18051.32	24415
7	DECEMBER	2652.8	21355.04	27551
8	JANUARY	2516	20253.8	26233
9	FEBRAUARY	3480.4	28017.22	34008
10	MARCH	4518	36369.9	42528
11	APRIL	2538	20430.9	25933
12	MAY	2872	23119.6	28868
	TOTAL	32903.8	264817.62	336436

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SARANATHAN COLLEGE OF ENGINEERING EB BILL DETAILS GIRLS HOSTEL SERVICE NUMBER :062290091168(LT)

TARIFF:

ACADEMIC YEAR 2021 JUNE TO 2022 MAY

S.NO.	MONTH	UNIT CONSUMPTION	NET AMOUNT	GROSS AMOUNT (TAX)
1	JUNE	3317.6	26706.68	32624
2	JULY	3297.2	26542.46	31799
3	AUGUST	2746.4	22108.52	27845
4	SEPTEMBER	5716	46013.8	52422
5	OCTOBER	7097.6	57135.68	65379
6	NOVEMBER	9001.6	72462.88	83017
7	DECEMBER	10930.4	87989.72	98422
8	JANUARY	4526.4	36437.52	42780
9	FEBRAUARY	5379.6	43305.78	50747
10	MARCH	9479.6	76310.8	85916
11	APRIL	8470.4	68186.72	81113
. 12	MAY	9479.6	76310.8	89788
	TOTAL	79442.4	639511.36	741852

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Cost saving achieved through solar energy - KS block&RV Block NACC 7.1.2

S.No	Academic year	Utility electricity units consumption	Gross utility bill amount/annu m in Rupees	Electricity units produced through solar PV plant	Cost of solar units produced in Rupees	Annual saving achieved through renewable energy in Rupees	Reduction of emission of CO ₂ in tons
1	2020 (June)- 2021(May)	228,140	3171341	47004.6	653404	653404	47.0046
2	2021(June)- 2022(May)	355416	4269304	45970.8	568194	568194	45.9708
Total	2020(June) To 2022(May)	583,556	7440645	92975.4	1221598	1221598	92.9754

Solar PV plant commissioned date: November 2013

Capital cost of the plant: Rs. 10,50,000/-Installed capacity of the plant: 10kW

Solar PV plant commissioned date: September 2019

Capital cost of the plant: Rs. 24,76,931/-Installed capacity of the plant: 50kW

Cost saving achieved through solar energy - Girls Hostel NACC 7.1.2

S.No	Academic year	Utility electricity units consumpti on	Gross utility bill amount/a nnum in Rupees	Electricity units produced through solar PV plant	Cost of solar units produced in Rupees	Annual saving achieved through renewable energy in Rupees	Reduction of emission of CO ₂ in tons
1	2020 (JUne)- 2021(May)	112345.4	1078288	24385	234046.55	234046.55	24.385
2	2021(June)- 2022(May)	31441.4	452752	28512	273430.08	273430.08	28.512
Total	2020(June) To 2022(May)	143786.8	1531040	52897	507476.63	507476.63	52.897

Solar PV plant commissioned date: September 2017

Capital cost of the plant: Rs. 14,40,000/-Installed capacity of the plant: 20.16kW

Cost saving achieved through BIO GAS energy - Girls Hostel NACC 7.1.2

S.No	Year	Total Bio-gas produced in cubic meter	Total Number of LPG cylinder equally conserved	Cost of LPG saved in Rupees
1	from 2020 (June)- to 2022(May)	2444.715	065 Numbers(commercial cylinder -19 kg)	1,30,000

Bio- gas plant commissioned date: May 2016 Capital cost of the plant: Rs. 6,00,000/capacity of the plant: 30 Cubic Meter

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Cost saving achieved through solar energy NACC 7.1.2

S.No	Academic year	Utility electricity units consumption	Gross utility bill amount/annu m in Rupees	Electricity units produced through solar PV plant	Cost of solar units produced in Rupees	Annual saving achieved through renewable energy in Rupees	Reduction of emission of CO ₂ in tons
1	2020 june)- 2021(May)	340485.4	4249629	71389.6	887450.55	887450.55	71.3896
	2021 june)- 2022(May)	386857.4	4722056	74482.8	841624.08	841624.08	74.4828
Total	2020(june) To 2022(May)	727342.8	8971685	145872.4	1729074.63	1729074.63	145.8724

Solar PV plant commissioned date: Sep2017(20.16kW),sep2019(50kW)& November 2013(10kW)

Capital cost of the plant: (20.16kW)Rs. 14,40,000/- + (50kW)Rs. 24,76,931/-

+(10kW) Rs.10,50,000 =Rs. 49,66,931/-

Installed capacity of the plant: 20.16kW + 10 kW + 50kW

Cost saving achieved through BIO GAS energy

S.No	Year	Total Bio-gas produced in cubic meter	Total Number of LPG cylinder equally conserved	Cost of LPG saved in Rupees
1	from 2020 (June)- to 2022(May)	2444.715	065 Numbers(com mercial cylinder -19 kg)	1,30,000

Bio- gas plant commissioned date: May 2016 Capital cost of the plant: Rs. 6,00,000/-

capacity of the plant: 30 Cubic Meter

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that the institution "Saranathan College of Engineering" has been continuously promoting Green Energy, from time to time, in the college campus to enhance Energy Security, lower the risk of other fuel spills, help conserve nation's natural resources, reduce pollution, create awareness to the students' community and increase reliance on Renewable Energy. 62.4kW Photo voltaic (PV) solar plant has been commissioned and in operation in the campus (10 kW at KS block on grid, 2.4 kW at KS block off grid, 50 kW at RV block on grid plant), out of which 50kW PV plant was recently commissioned and under monitoring. 2.4 kW off grid plant is feeding the Drives lab and the rest of 10kW and 50kW plants are sharing the campus other loads. Exclusively an additional 20kW on grid plant was commissioned at college girl's hostel campus and has been successfully operating. A 30 cubic metre cow dung based Bio Gas plant was put in to operation to feed thermal energy to the girl's hostel kitchen to conserve LPG. These solar plants were reducing college utility bill to an appreciable extent ensuring reduction of CO₂ liberation in to the atmosphere and in turn contributing to the National Mission for sustainability and a Greener Environment.

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that the institution "Saranathan College of Engineering" has been continuously practicing Energy Conservation Measures, through various Energy Efficient practices, as a token of contribution from this educational institution to reduce CO₂ emissions in to the atmosphere, preserve fossil fuels, prevent disastrous occurrence of weather events, slow down climate change and to use the available energy more judiciously. The various Energy conservation measures adopted in the college campus, from time to time, includes replacement of all the CRT monitors by LCD monitors in the computer Engineering laboratories / other Engineering department laboratories, retrofitting standard fluorescent lamps and CFL lamps with LED lighting, introducing automatic street lighting control to reduce energy wastage due to manual errors, upgrading window air conditioners into split air conditioners and further into BEE certified star rated energy efficient split air conditioners & inverter air conditioners. The entire college campus power supply has been converted from LT in to HT in order to reduce the operation of Diesel Generators, to meet out the peak demand, thereby reducing the massive diesel consumption and the associated pollution.

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SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI – 12 DEPARTMENT OF CHEMISTRY

02-06-2022

Analysis report of water sample from Borewell-College Campus.

S.NO	DATE	PARAMETER	REPORT
1	02-06-2022	Hardness	CH = 13 ppm NCH = 30 ppm TH = 43 ppm
2	02-06-2022	Alkalinity	$CO_3^{2} = 700 \text{ ppm}$ OH' = 0 ppm $HCO_3 = 575 \text{ ppm}$ Total = 1275 ppm
3	02-06-2022	Dissolved Oxygen (D.O.)	26.4 ppm
4	02-06-2022	Chloride	65 ppm
5	02-06-2022	pH	8.12

08.06.2022

Analysis report of water sample from Borewell-College Campus After Treatment.

S.NO	DATE	PARAMETER	REPORT
1	07-06-2022	Hardness	CH = 6.5 ppm NCH = 18.5 ppm TH = 25 ppm
2	07-06-2022	Alkalinity	$CO_3^2 = 150 \text{ ppm}$ OH = 0 ppm $HCO_3 = 775 \text{ ppm}$ Total = 925 ppm
3	07-06-2022	Dissolved Oxygen (D.O.)	20 ppm
4	07-06-2022	Chloride	63.4 ppm
5	07-06-2022	pH	8.55