



SANATANA DHARMA COLLEGE

ALAPPUZHA

Affiliated to the University of Kerala
Reaccredited by NAAC with A+ grade



CRITERION: 7

Institutional Values and Best Practices

7.1.2

Facilities and Initiatives Alternative Sources and Energy Conservation Measures



SANATANA DHARMA COLLEGE ALAPPUZHA

DECLARATION

The following photographs and information are regarding 'Alternative Sources & Energy Conservation Measures' taken up by the institution.




Principal

Prof. (Dr.) PREMA K.H
PRINCIPAL
PEN 467693
SD COLLEGE ALAPPUZHA



Facilities and Initiatives of the Institution

Geotagged Photographs of Alternative Energy Resources and Energy Conservation Measures

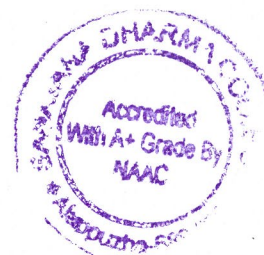
Renewable resources are an energy source that cannot be depleted and can supply a continuous source of clean energy. Many of them can be used as an alternative to the existing non-renewable resources like fossil fuels. They are almost pollution-free and help in the sustainable use of resources.

Some of the measures that our institution has undertaken to conserve energy are:

- ✚ Solar energy
- ✚ Use of LED Bulbs
- ✚ Power Efficient Equipment
- ✚ LED Monitors /TV
- ✚ Energy Efficient Refrigerator
- ✚ Biogas Plant
- ✚ Rain Water Harvesting

Solar Energy

Solar energy is created by nuclear fusion that takes place in the sun. It is necessary for life on Earth and can be harvested for human uses such as electricity. The total amount of solar energy incident on Earth is vastly more than the world's current and anticipated energy requirements. If suitably harnessed, this highly diffused source has the potential to satisfy all future energy needs. In the 21st century, solar energy has become increasingly attractive as a renewable energy source because of its inexhaustible supply and its non-polluting character, in stark contrast to finite fossil fuels such as coal, petroleum, and natural gas.





Use of LED Bulbs and Power Efficient Equipment

Switching to LED lighting offers substantial energy efficiency and cost savings, reducing energy consumption by up to 90% compared to traditional incandescent bulbs, which can lead to significant financial benefits over time. LED lights provide a longer lifespan and reduced maintenance costs, lasting up to 50,000 hours compared to the 1,000-hour lifespan of incandescent bulbs, making them a more sustainable and cost-effective choice. LED lighting has numerous environmental benefits, including lowering carbon emissions and being free of harmful substances like mercury, making it an eco-friendly option that contributes to reduced environmental impact.





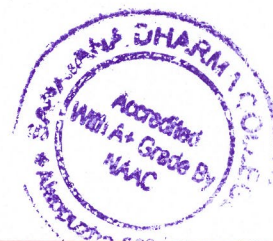
Biogas Plant

Biogas systems protect our air, water, and soil by recycling organic waste into renewable energy and soil products. The organic wastes produced in the college are managed using the biogas plant.



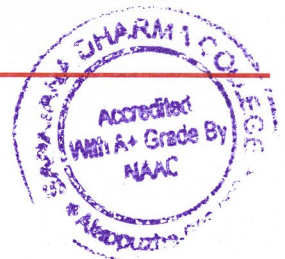
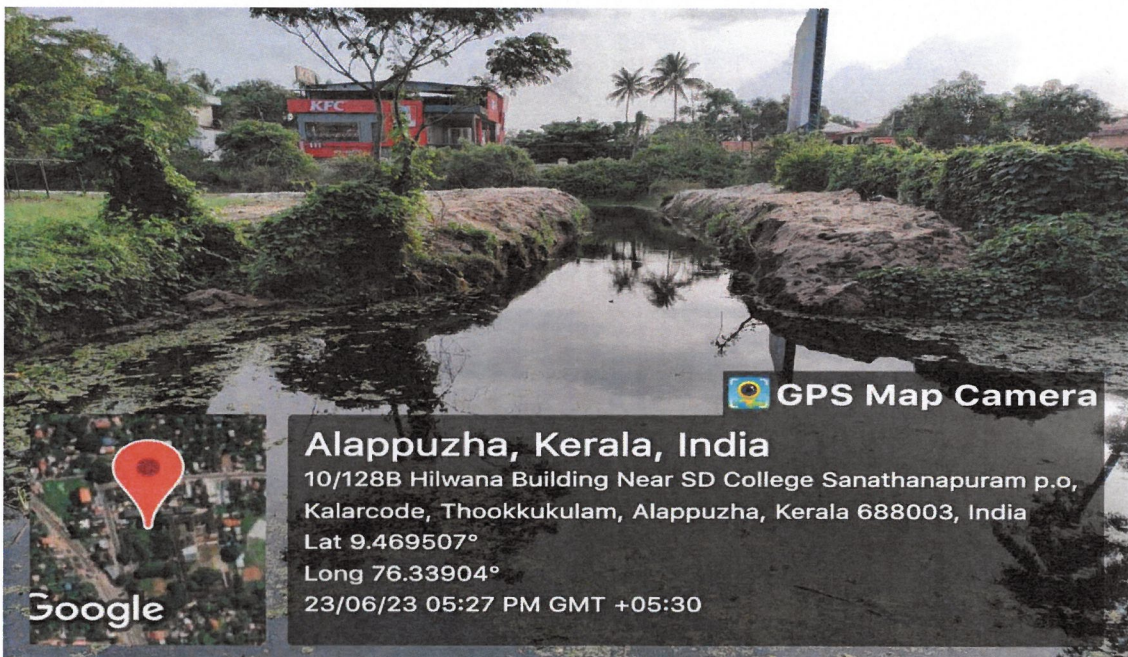
Rainwater Harvesting

Although nearly three-fourths of our planet is made of water but not all are suitable for use. The water in the oceans and seas cannot be used for drinking, and only a little of it can be utilized for other purposes. As a result, there is a constant water shortage for drinking for home and industrial use. Areas on the planet that are facing water shortage can tackle this by harvesting rainwater. This slowly started spreading to areas where there was plenty of rainfall. As a result, the modern-day rainwater harvesting system was brought into place. Our college has efficient rainwater harvesting in use.



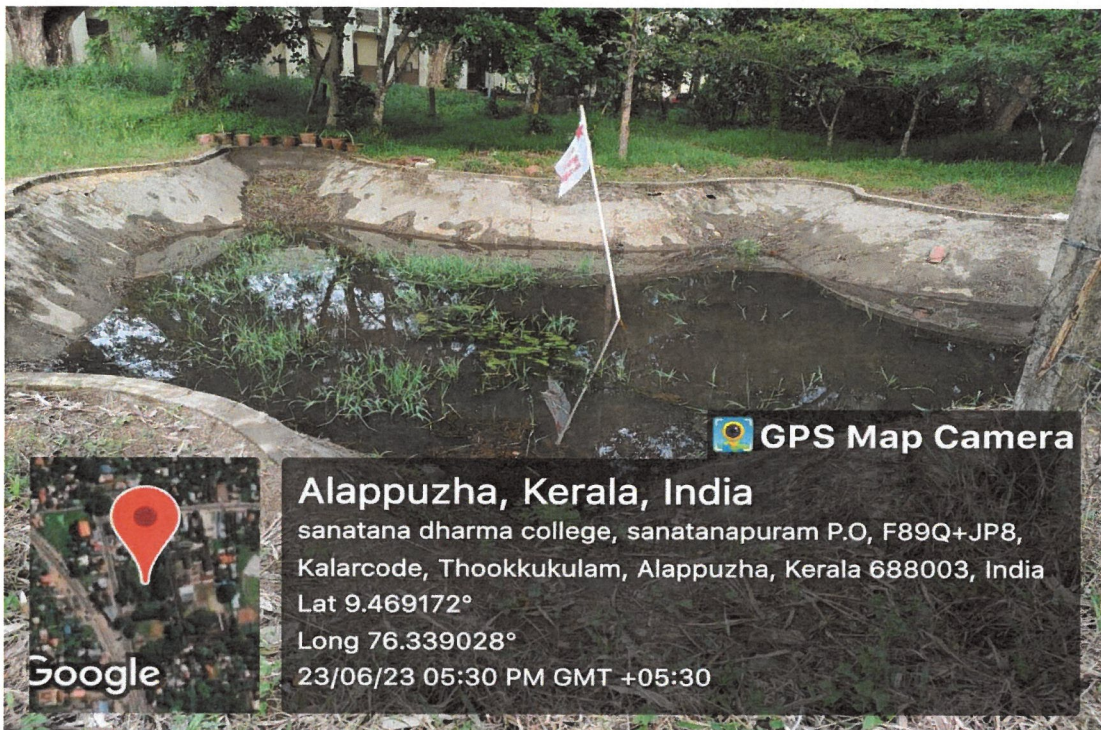


Rain Pond and Rain Pit





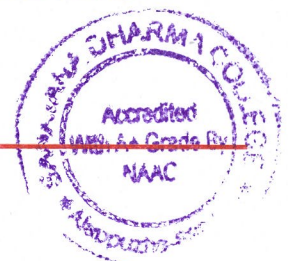
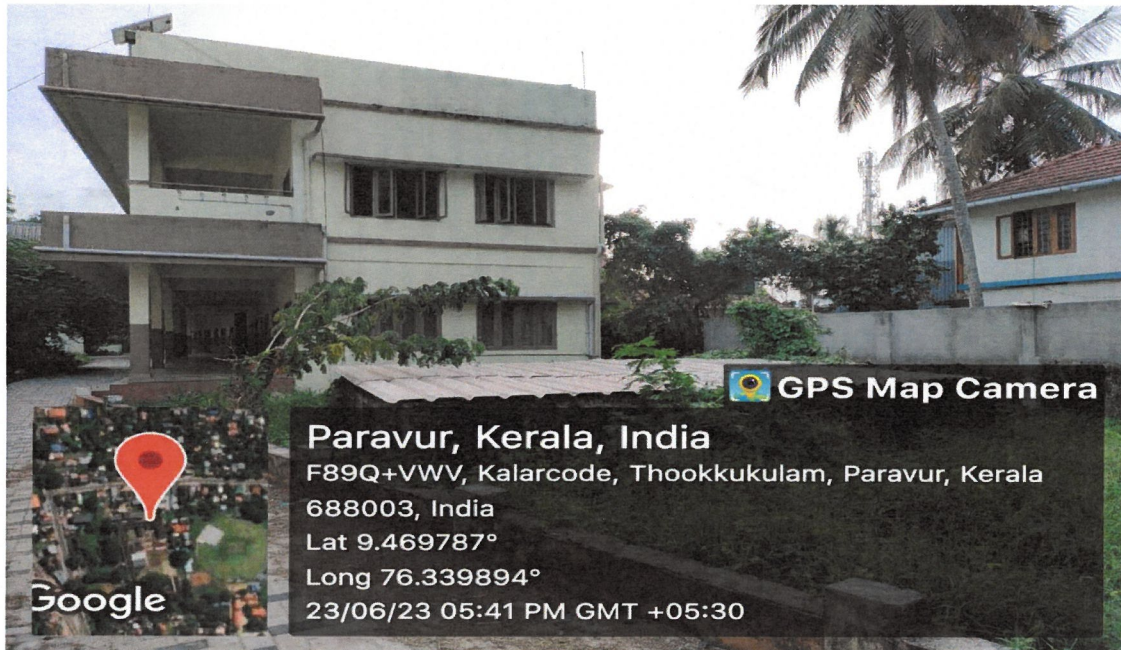
SANATANA DHARMA COLLEGE ALAPPUZHA





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Water Tank





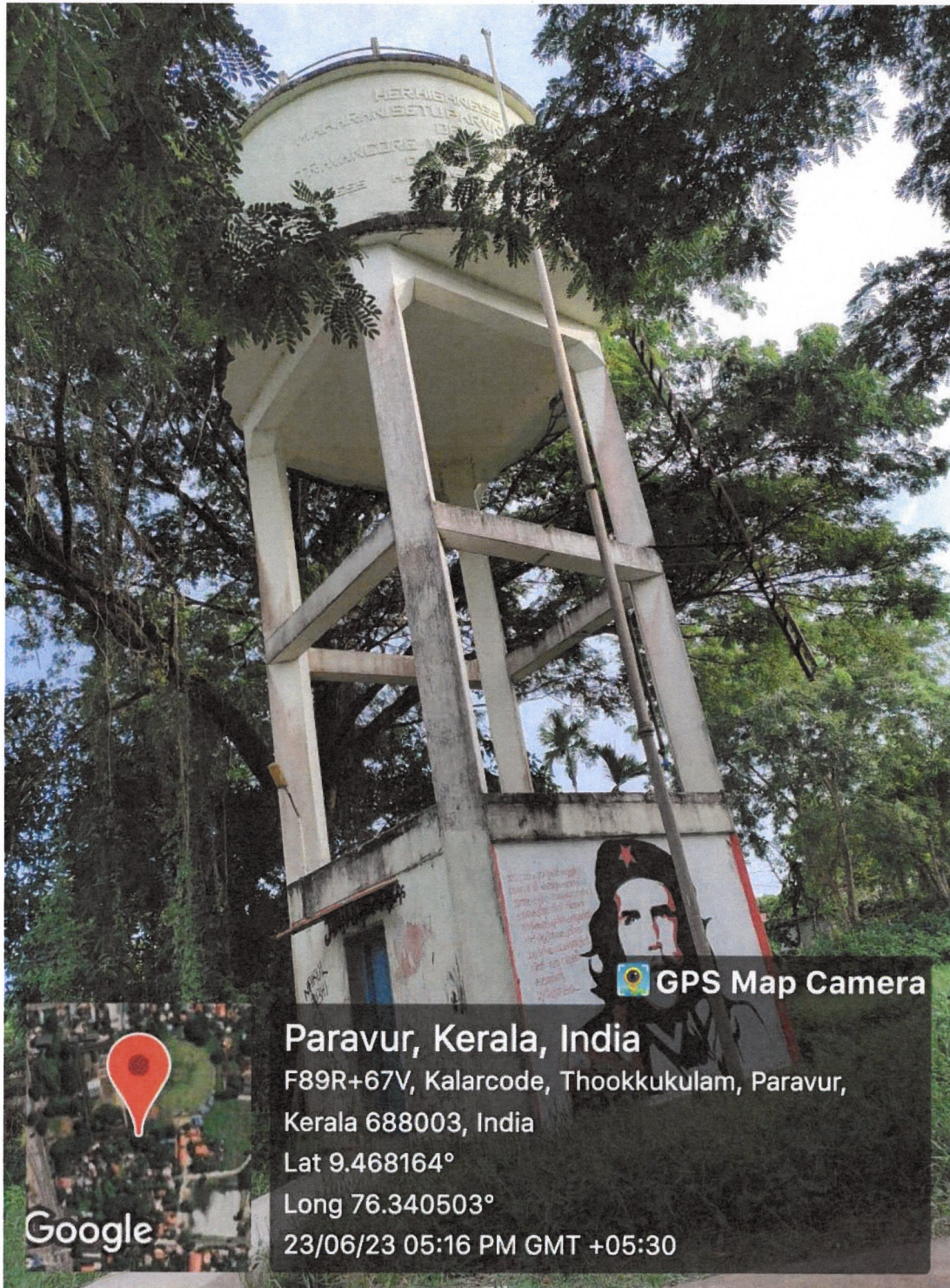
SANATANA DHARMA COLLEGE

ALAPPUZHA





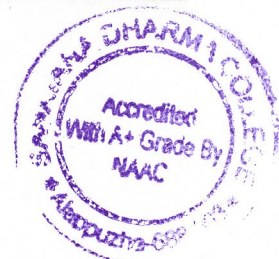
SANATANA DHARMA COLLEGE ALAPPUZHA



Google

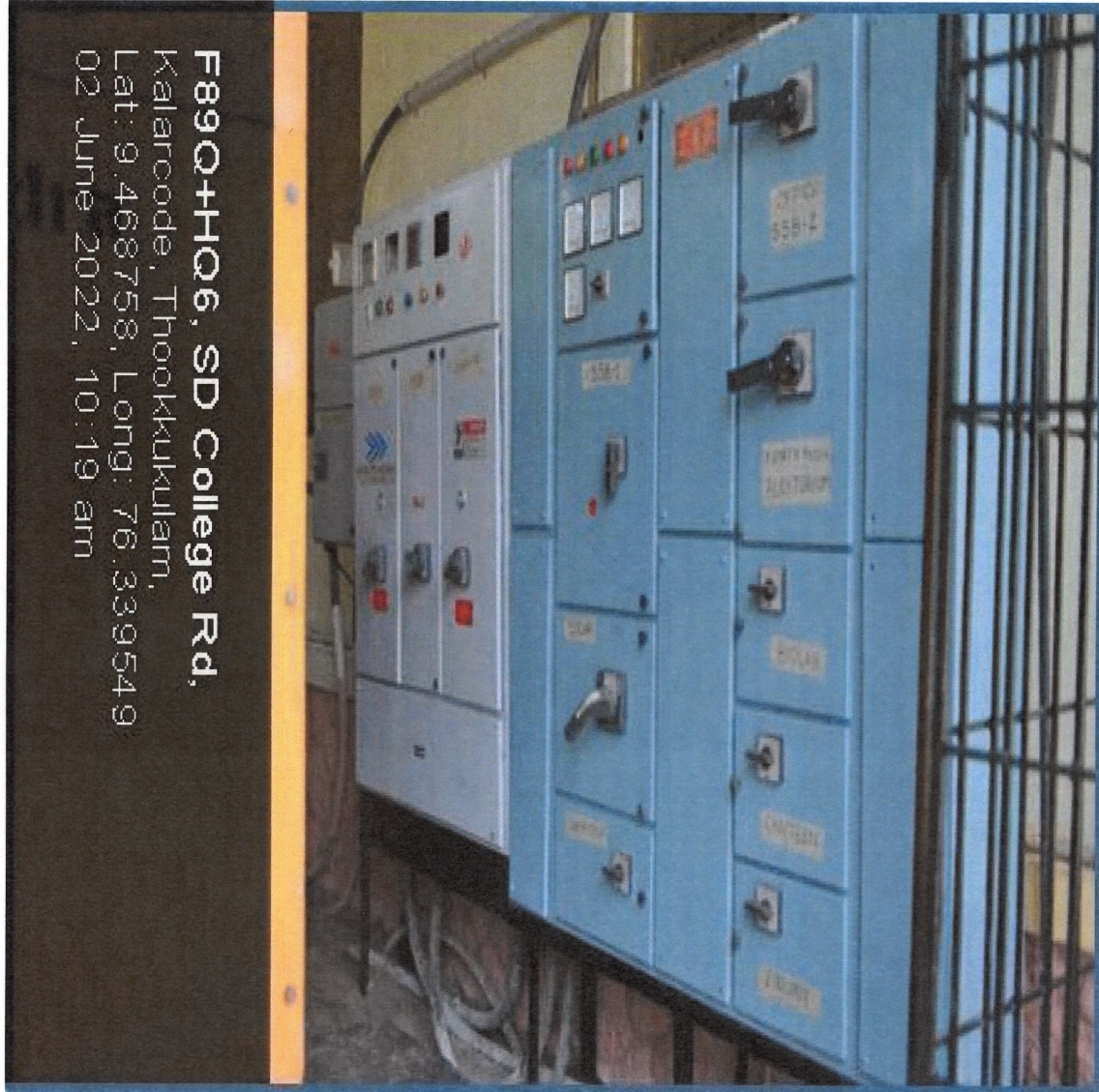
GPS Map Camera

Paravur, Kerala, India
F89R+67V, Kalarcode, Thookkukulam, Paravur,
Kerala 688003, India
Lat 9.468164°
Long 76.340503°
23/06/23 05:16 PM GMT +05:30





Electrical Control Panel

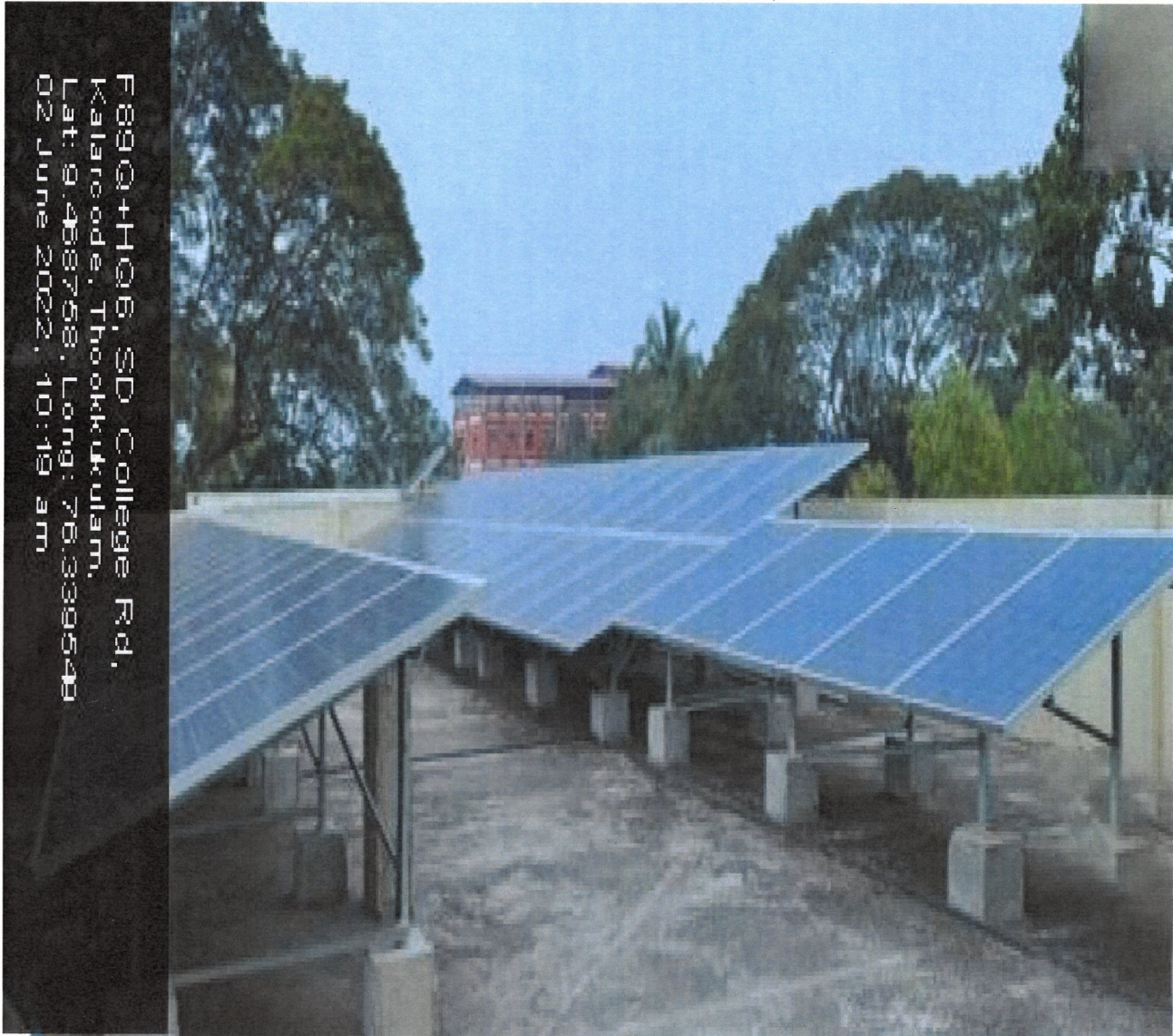


F899Q+HQ6, SD College Rd,
Kalarode, Thooikkulam,
Lat: 9.468758, Long: 76.339549
02 June 2022, 10:19 am





Solar Panels



F890+H06, SD College Rd,
Kalanoode, Thookukulam,
Lat: 9.488758, Long: 76.339548
02 June 2022, 10:19 am





SANATANA DHARMA COLLEGE ALAPPUZHA

The following statement from KSEB shows the solar energy produced and contributed from the college into the public supply grid of KSEB.



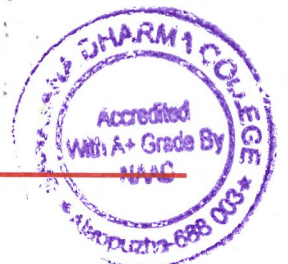
KERALA STATE ELECTRICITY BOARD Ltd.

(Incorporated Under the Companies Act, 1956 (No.1/1956)
Corporate Identity No.U40100KL2011SGCO27424

**OFFICE OF THE ASSISTANT ENGINEER,
ELECTRICAL SECTION, ALAPPUZHA-SOUTH.**
PIN - 688002. Phone:9496008424, Email: aesouthalp@gmail.com

To,
The Principal
S D College
Alappuzha
Con. Number: 1155035001282

Solar OnGrid Reading History												
Reg Order	UoM	Zone	Meter Digits	MF	Prev. Rdg Date	Prev. MR Status	Prev. Rdg	Prst Rdg Date	Prst. MR Status	Prst Rdg	Units	Reading@
1	KWH	Kilowatts(AI)	6.2	1	30-10-2017	Working	0.00	01-11-2017	Working	0.00	0.00	Reg. Bill
2	KWH	Kilowatts(AI)	6.2	1	01-11-2017	Working	0.00	01-12-2017	Working	2013.00	2013.00	Reg. Bill
3	KWH	Kilowatts(AI)	6.2	1	01-12-2017	Working	2013.00	01-01-2018	Working	5913.00	3900.00	Reg. Bill
4	KWH	Kilowatts(AI)	6.2	1	01-01-2018	Working	5923.00	01-02-2018	Working	10593.00	4680.00	Reg. Bill
5	KWH	Kilowatts(AI)	6.2	1	01-02-2018	Working	10593.00	01-03-2018	Working	16295.00	5612.00	Reg. Bill
6	KWH	Kilowatts(AI)	6.2	1	01-03-2018	Working	16295.00	01-04-2018	Working	21794.00	5588.00	Reg. Bill
7	KWH	Kilowatts(AI)	6.2	1	01-04-2018	Working	21794.00	31-05-2018	Working	25229.00	3435.00	Reg. Bill
8	KWH	Kilowatts(AI)	6.2	1	31-05-2018	Working	25229.00	01-06-2018	Working	25561.00	332.00	Reg. Bill
9	KWH	Kilowatts(AI)	6.2	1	01-06-2018	Working	25561.00	04-06-2018	Working	25561.00	0.00	Reg. Bill
10	KWH	Kilowatts(AI)	6.2	1	04-06-2018	Working	25561.00	03-07-2018	Working	26357.00	796.00	Reg. Bill
11	KWH	Kilowatts(AI)	6.2	1	03-07-2018	Working	26357.00	02-08-2018	Working	28714.00	2357.00	Reg. Bill
12	KWH	Kilowatts(AI)	6.2	1	02-08-2018	Working	28714.00	01-09-2018	Working	32178.00	3464.00	Reg. Bill
13	KWH	Kilowatts(AI)	6.2	1	01-09-2018	Working	32178.00	05-10-2018	Working	37487.00	5309.00	Reg. Bill
14	KWH	Kilowatts(AI)	6.2	1	05-10-2018	Working	37487.00	02-11-2018	Working	42103.00	4616.00	Reg. Bill
15	KWH	Kilowatts(AI)	6.2	1	02-11-2018	Working	42103.00	05-12-2018	Working	45543.00	3440.00	Reg. Bill
16	KWH	Kilowatts(AI)	6.2	1	05-12-2018	Working	45543.00	05-01-2019	Working	50647.00	5104.00	Reg. Bill
17	KWH	Kilowatts(AI)	6.2	1	05-01-2019	Working	50647.00	02-02-2019	Working	55175.00	4528.00	Reg. Bill
18	KWH	Kilowatts(AI)	6.2	1	02-02-2019	Working	55175.00	05-03-2019	Working	61175.00	6000.00	Reg. Bill
19	KWH	Kilowatts(AI)	6.2	1	05-03-2019	Working	61175.00	01-04-2019	Working	65895.00	4720.00	Reg. Bill
20	KWH	Kilowatts(AI)	6.2	1	01-04-2019	Working	65895.00	01-05-2019	Working	70823.00	4928.00	Reg. Bill
21	KWH	Kilowatts(AI)	6.2	1	01-05-2019	Working	70823.00	01-06-2019	Working	75284.00	4461.00	Reg. Bill
22	KWH	Kilowatts(AI)	6.2	1	01-06-2019	Working	75284.00	02-07-2019	Working	79267.00	3983.00	Reg. Bill
23	KWH	Kilowatts(AI)	6.2	1	02-07-2019	Working	79267.00	01-08-2019	Working	82134.00	2867.00	Reg. Bill
24	KWH	Kilowatts(AI)	6.2	1	01-08-2019	Working	82134.00	02-09-2019	Working	85210.00	3076.00	Reg. Bill
25	KWH	Kilowatts(AI)	6.2	1	02-09-2019	Working	85210.00	10-10-2019	Working	89824.00	4614.00	Reg. Bill
26	KWH	Kilowatts(AI)	6.2	1	10-10-2019	Working	89824.00	01-11-2019	Working	93991.00	4167.00	Reg. Bill
27	KWH	Kilowatts(AI)	6.2	1	01-11-2019	Working	93991.00	09-12-2019	Working	98252.00	4261.00	Reg. Bill
28	KWH	Kilowatts(AI)	6.2	1	09-12-2019	Working	98252.00	07-01-2020	Working	102758.00	4506.00	Reg. Bill
29	KWH	Kilowatts(AI)	6.2	1	07-01-2020	Working	102758.00	01-02-2020	Working	108399.00	5641.00	Reg. Bill
30	KWH	Kilowatts(AI)	6.2	1	01-02-2020	Working	108399.00	06-03-2020	Working	113459.00	5060.00	Reg. Bill
31	KWH	Kilowatts(AI)	6.2	1	06-03-2020	Working	113459.00	02-04-2020	Working	118528.00	5069.00	Reg. Bill
32	KWH	Kilowatts(AI)	6.2	1	02-04-2020	Working	118528.00	02-05-2020	Working	125510.00	6982.00	Reg. Bill
33	KWH	Kilowatts(AI)	6.2	1	02-05-2020	Working	125510.00	01-06-2020	Working	129185.00	3675.00	Reg. Bill
34	KWH	Kilowatts(AI)	6.2	1	01-06-2020	Working	129185.00	01-07-2020	Working	133549.00	4364.00	Reg. Bill
35	KWH	Kilowatts(AI)	6.2	1	01-07-2020	Working	133549.00	01-08-2020	Working	137446.00	3897.00	Reg. Bill
36	KWH	Kilowatts(AI)	6.2	1	01-08-2020	Working	137446.00	03-09-2020	Working	142420.00	4974.00	Reg. Bill
37	KWH	Kilowatts(AI)	6.2	1	03-09-2020	Working	142420.00	01-10-2020	Working	146140.00	3720.00	Reg. Bill
38	KWH	Kilowatts(AI)	6.2	1	01-10-2020	Working	146140.00	02-11-2020	Working	151018.00	4878.00	Reg. Bill
39	KWH	Kilowatts(AI)	6.2	1	02-11-2020	Working	151018.00	01-12-2020	Working	155782.00	4764.00	Reg. Bill
40	KWH	Kilowatts(AI)	6.2	1	01-12-2020	Working	155782.00	01-01-2021	Working	160295.00	4513.00	Reg. Bill
41	KWH	Kilowatts(AI)	6.2	1	01-01-2021	Working	160295.00	01-02-2021	Working	165060.00	4765.00	Reg. Bill
42	KWH	Kilowatts(AI)	6.2	1	01-02-2021	Working	165060.00	01-03-2021	Working	170677.00	5617.00	Reg. Bill





SANATANA DHARMA COLLEGE

ALAPPUZHA



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OFFICE OF THE ASSISTANT ENGINEER,
ELECTRICAL SECTION , ALAPPUZHA-SOUTH.
PIN - 688002. Phone:9496008424 ,Email: aesouthalp@gmail.com

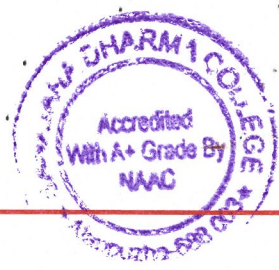
To,
The Principal
S D College
Alappuzha
Con. Number: 1155035001282

43	KWH	Kilowatts(AH)	6.2	1	01-03-2022	Working	1703775.00	01-04-2022	Working	176175.00	5488.00	Reg. Bill
44	KWH	Kilowatts(AH)	6.2	1	01-04-2022	Working	176175.00	01-05-2022	Working	181160.00	4985.00	Reg. Bill
45	KWH	Kilowatts(AH)	6.2	1	01-05-2022	Working	181160.00	01-06-2022	Working	184809.00	3649.00	Reg. Bill
46	KWH	Kilowatts(AH)	6.2	1	01-06-2022	Working	184809.00	01-07-2022	Working	188215.00	4406.00	Reg. Bill
47	KWH	Kilowatts(AH)	6.2	1	01-07-2022	Working	188215.00	02-08-2022	Working	192972.00	3757.00	Reg. Bill
48	KWH	Kilowatts(AH)	6.2	1	02-08-2022	Working	192972.00	01-09-2022	Working	196735.00	3763.00	Reg. Bill
49	KWH	Kilowatts(AH)	6.2	1	01-09-2022	Working	196735.00	01-10-2022	Working	201496.00	4761.00	Reg. Bill
50	KWH	Kilowatts(AH)	6.2	1	01-10-2022	Working	201496.00	01-11-2022	Working	205070.00	3574.00	Reg. Bill
51	KWH	Kilowatts(AH)	6.2	1	01-11-2022	Working	205070.00	01-12-2022	Working	208604.00	3534.00	Reg. Bill
52	KWH	Kilowatts(AH)	6.2	1	01-12-2022	Working	208604.00	01-01-2023	Working	212967.00	5363.00	Reg. Bill
53	KWH	Kilowatts(AH)	6.2	1	01-01-2023	Working	212967.00	01-02-2023	Working	219057.00	6090.00	Reg. Bill
54	KWH	Kilowatts(AH)	6.2	1	01-02-2023	Working	219057.00	02-03-2023	Working	226278.00	6621.00	Reg. Bill
55	KWH	Kilowatts(AH)	6.2	1	02-03-2023	Working	226278.00	01-04-2023	Working	228241.00	4563.00	Reg. Bill
56	KWH	Kilowatts(AH)	6.2	1	01-04-2023	Working	228241.00	03-05-2023	Working	233371.00	5830.00	Reg. Bill
57	KWH	Kilowatts(AH)	6.2	1	03-05-2023	Working	233371.00	01-06-2023	Working	236095.00	2724.00	Reg. Bill
58	KWH	Kilowatts(AH)	6.2	1	01-06-2023	Working	236095.00	01-07-2023	Working	240527.00	4432.00	Reg. Bill
59	KWH	Kilowatts(AH)	6.2	1	01-07-2023	Working	240527.00	01-08-2023	Working	244580.00	4053.00	Reg. Bill
60	KWH	Kilowatts(AH)	6.2	1	01-08-2023	Working	244580.00	01-09-2023	Working	248123.00	3543.00	Reg. Bill
61	KWH	Kilowatts(AH)	6.2	1	01-09-2023	Working	248123.00	01-10-2023	Working	253019.00	5696.00	Reg. Bill
62	KWH	Kilowatts(AH)	6.2	1	01-10-2023	Working	253019.00	01-11-2023	Working	258213.00	4394.00	Reg. Bill
63	KWH	Kilowatts(AH)	6.2	1	01-11-2023	Working	258213.00	03-12-2023	Working	262812.00	4599.00	Reg. Bill
64	KWH	Kilowatts(AH)	6.2	1	03-12-2023	Working	262812.00					

BACK



[Handwritten Signature]
18/12/24
SENIOR
ELECTRICIAN





SANATANA DHARMA COLLEGE

ALAPPUZHA



KERALA STATE ELECTRICITY BOARD Ltd.

(Incorporated Under the Companies Act, 1956 (No.1/1956)
Corporate Identity No.U40100KL2011SGC027424

OFFICE OF THE ASSISTANT ENGINEER,
ELECTRICAL SECTION, ALAPPUZHA-SOUTH.

PIN - 688002. Phone:9496008424 ,Email: aesouthalp@gmail.com

To
The Principal
SD. College, Alappuzha.

IR IR Date Sts:Mtr/Rdg	FR FR Date Sts:Mtr/Rdg	OMF	Import	Export	Solar Generation	Consumption
4434.00 03-12-2022 OK/AA	4516.00 01-01-2023 OK/AA	40	3304	1520	4455	6239
4516.00 01-01-2023 OK/AA	4602.00 01-02-2023 OK/AA	40	3463	960	4113	6616
4602.00 01-02-2023 OK/AA	4712.00 01-03-2023 OK/AA	40	4422	840	4644	8226
4712.00 01-03-2023 OK/AA	4851.00 01-04-2023 OK/AA	40	5040	800	5116	9956
4851.00 01-04-2023 OK/AA	4935.80 09-05-2023 OK/AA	40	4010	1404	1414	4020
4935.80 09-05-2023 OK/AA	5032.00 01-06-2023 OK/AA	40	3988	556	6903	10235
5032.00 01-06-2023 OK/AA	5157.30 01-07-2023 OK/AA	40	5026	552	3426	7900
5157.30 01-07-2023 OK/AA	5248.20 01-08-2023 OK/AA	40	3654	768	3290	6176
5248.20 01-08-2023 OK/AA	5335.00 01-09-2023 OK/AA	40	3490	1360	4814	6944
5335.00 01-09-2023 OK/AA	5455.00 02-10-2023 OK/AA	40	4820	840	4037	8017



Shirish
18/10/24





SANATANA DHARMA COLLEGE

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OFFICE OF THE ASSISTANT ENGINEER,
ELECTRICAL SECTION, ALAPPUZHA-SOUTH.

PIN - 688002. Phone:9496008424 ,Email: aesouthalp@gmail.com

To,
Principal
S D College
Alappuzha

5455.00	5570.00						
02-10-2023	01-11-2023						
OK/AA	OK/AA	40	4638	920	4017		7735
5570.00	5669.60						
01-11-2023	01-12-2023						
OK/AA	OK/AA	40	3998	676	3240		6562
5669.60	5775.00						
01-12-2023	01-01-2024						
OK/AA	OK/AA	40	4236	964	4171		7443
5775.00	5900.00						
01-01-2024	01-02-2024						
OK/AA	OK/AA	40	5021	840	4704		8885
5900.00	6038.00						
01-02-2024	01-03-2024						
OK/AA	OK/AA	40	5540	480	4369		9429
6038.00	6180.00						
01-03-2024	01-04-2024						
OK/AA	OK/AA	40	5692	1080	4677		9289
6180.00	6277.00						
01-04-2024	01-05-2024						
OK/AA	OK/AA	40	3899	1200	5096		7795
6277.00	2917.50						
01-05-2024	01-06-2024						
OK/AA	OK/AA	40	0	0	0		0
2917.50	2980.90						
01-06-2024	02-07-2024						
OK/AA	OK/AA	40	3636	400	2798		6034



Signature
L 8107
ASSISTANT ENGINEER &
ELECTRICAL SECTION

