



# **SREE NARAYANA COLLEGE CHENGANNUR**

**Alappuzha, Kerala**

**Affiliated to University of Kerala  
NAAC Accredited with 'B' Grade**



[www.sncchengannur.ac.in](http://www.sncchengannur.ac.in)

[sncchengannur@gmail.com](mailto:sncchengannur@gmail.com)

## **CRITERIA 7**

### **7.1: INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES**

**7.1.2: The Institution has facilities and initiatives for**

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

**Submitted To**



**THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)  
FOR ASSESSMENT & ACCREDITATION – CYCLE II  
AUGUST 2023**

Established in 1981

**Sree Narayana College**  
**Chengannur, Kerala – 689508**

Managed by the Sree Narayana Trusts, Kollam  
Affiliated to the University of Kerala  
Accredited by NAAC with B Grade  
Ph: 0479-2962728;



**Dr Shereen K**  
Principal-in-charge  
Mob: 9447075311

Email: [sherinsank@gmail.com](mailto:sherinsank@gmail.com)

Email: [sncchengannur@gmail.com](mailto:sncchengannur@gmail.com)

Website: [www.sncchengannur.ac.in](http://www.sncchengannur.ac.in)

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## **DVV CLARIFICATION 7.1.2**

Management of the various types of degradable and nondegradable waste, Water conservation, Green campus initiatives, Disabled-friendly, barrier free environment for 2022-23.

**Response:** Management of the various types of degradable and nondegradable waste, Water conservation, Green campus initiatives, Disabled-friendly, barrier free environment for 2022-23 are enclosed herewith.

## ***SREE NARAYANA COLLEGE, CHENGANNUR***

### **MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NONDEGRADABLE WASTE, WATER CONSERVATION, GREEN CAMPUS INITIATIVES AND DISABLED-FRIENDLY, BARRIER FREE ENVIRONMENT FOR 2022-23**

#### **Degradable and non-degradable waste management**

There is provision to deposit dry waste and wet waste separately so that sorting of waste is done at the point of origin itself. To efficiently manage plastic waste, separate bins are placed in key locations in the campus. Organic waste primarily consisting of food waste is collected from the campus and hostels and deposited in the Biogas plant for the purpose of generating biogas. An agreement has been signed with Cheriyanadu Grama Panchayat to ensure proper disposal of solid waste materials.



Biogas Plant at the Campus

<b>Types of waste</b>	<b>Particulars</b>	<b>Disposal method</b>
Solid wastes	<ul style="list-style-type: none"><li>• Damaged furniture,</li><li>• paper waste,</li></ul>	<ul style="list-style-type: none"><li>• Reuse after maintenance,</li></ul>

	<p>paper plates</p> <ul style="list-style-type: none"> <li>• food wastes</li> </ul>	<ul style="list-style-type: none"> <li>• energy conversion</li> </ul>
Plastic waste	<ul style="list-style-type: none"> <li>• Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc</li> </ul>	<ul style="list-style-type: none"> <li>• Direct selling</li> </ul>
E-Waste	<ul style="list-style-type: none"> <li>• Computers, electrical and electronic parts</li> </ul>	<ul style="list-style-type: none"> <li>• Handed over to Cheriyanaad Panchayat for Safe Disposal</li> </ul>
Chemical wastes	<ul style="list-style-type: none"> <li>• Laboratory waste</li> </ul>	<ul style="list-style-type: none"> <li>• Neutralize with proper safety measures/ Reuse after purification</li> <li>• Hazardous chemicals are handed over to Cheriyanaad Panchayat for Safe Disposal</li> </ul>
Waste water	<ul style="list-style-type: none"> <li>• Washing, urinals, bathrooms etc</li> </ul>	<ul style="list-style-type: none"> <li>• Soak pits</li> </ul>
Sanitary Napkin		<ul style="list-style-type: none"> <li>• Napkin Incinerators</li> </ul>

**Solid waste management:**

- To reduce waste at institute, students and staff are educated on proper waste management practices through lectures, advertisement on notice boards, displaying slogan boards in the campus.

- Waste is collected on a daily basis from various sources and is separated as dry and wet waste.
- The chemical wastes from Chemistry laboratory were separated into solid and liquid waste, which were then disposed appropriately.
- Colour coded dustbins are used for different types of wastes. Green for non-degradable plastic waste and blue for degradable waste.



Separation of waste as degradable and non-degradable

- Solid Waste Generated in the Campus is incinerated in the Solid Waste Incinerator



Solid Waste Incinerator installed at the campus

- Plastic waste is collected by “Haritha Karma Sena” on monthly basis and handed over to authorized personnel of Cheriyanadu Grampanchayat for further processing.



Collection of Plastic waste by Haritha Karma Sena



കേരളം കേര KERALA

DL 155728

Agreement between Cherivanad Grama Panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of Non-Degradable Solid Waste from the campus

It is hereby agreed that

1. All the solid waste generated within the campus will be collected once in a month with a user fee of Rs. 100/- (One hundred only) has to be paid by the college for the same
2. Plastic waste, glass waste, paper and other non degradable wastes may be kept separately for the easiness of collection and disposal.
3. Periodic monitoring of the process is a duty of both the parties.
4. Awareness campaign will be carried out to avoid the use of plastic in the campus.

SECRETARY  
Cherivanad Grama Panchayat  
Cherivanad P.O., Chengannur  
Alappuzha District, PIN: 689 511  
PH: 0471-2360149



PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR

No. 27327  
25/01/2023

Handwritten signatures and names of the representatives of the Grama Panchayat.



Agreement with Chengannur Grama panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of non-degradable solid waste on the academic year 2022-23

- The napkin incinerator is used for the disposal of napkins as part of the initiative by the Women's Cell.



#### Liquid waste management:

- Chemicals used in the Chemistry Laboratory for the reaction are not discharged into the environment, but rather stored in sealed containers. The stored chemical wastes are handed over for safe disposal to Cheriyanadu Grama Panchayath, based on the agreement between Sree Narayana College Chengannur and Cheriyanadu Grama Panchayath.
- Repeated distillation of used solvent is done to reduce solvent waste in Chemistry Laboratory, thereby minimising pollution.
- Non hazardous liquid waste are diluted and are carried over to the common drainage.
- All waste water lines from toilets, bathrooms etc. are connected with Municipal drainage mains.





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DL 155730

**Agreement between Cherivanad Grama Panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of Chemical Waste from the campus**

It is hereby agreed that

1. All the chemical waste generated within the campus will be collected twice in a year with a user fee of Rs. 400/- (Four hundred only) has to be paid by the college for the same
2. The chemical wastes must be separated as solid and liquid for the easiness of collection and disposal.
3. Periodic monitoring of the process is a duty of both the parties.

SECRETARY  
Cherivanad Grama Panchayat  
Cherivanad P.O. Punalai Chengannur  
Alappuzha District - 689 511  
Ph. 0473 2362143



PRINCIPAL

SREE NARAYANA COLLEGE  
CHENGANNUR

No 27528  
25/01/2023  
Am. Subedhar

CHENGANNUR



Agreement with Chengannur Grama panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of chemical waste on the academic year

2022-23

## E-waste management

- As part of agreement between Sree Narayana College Chengannur and Cheriyanadu Gama Panchayath, the E-waste collected is stored in store room and disposed once in two years.
- A collection drive is arranged at the college every year and the collected E-waste is handed over to the Cheriyanad Gramapanchayat for safe disposal.
- Old monitors and CPUs are repaired by the technician and are reused.

**Sree Narayana College Chengannur**  
**Alappuzha, Kerala**  
Aided college affiliated to the University of Kerala  
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**"E-Waste Recycling Programme"**  
Collection Drive of Electronic Wastes from  
21-31<sup>st</sup> March 2023

**Organized by**  
IQAC, NBS, Bhoomithrasena Club & College Union  
Sree Narayana College, Chengannur

**E-Waste Recycling Programme**  
E-waste has become a growing concern nowadays and every one have the responsibility to deal with this serious environmental threat. The major objective of e-waste management is to reduce, reuse, and recycle. An E-waste recycling plan is a type of sustainability effort to collect any old electronic devices and safely dispose of them, thereby protecting environment from its harmful effects.

The E-Waste Recycling programme of Sree Narayana College, Chengannur is a green initiative organised by IQAC in association with NBS, Bhoomithra Sena and college union. This was initiated with a great vision to generate awareness among students and public, about the severe environmental threat raised by the huge E-waste generated everyday. The college has developed a waste disposal strategy with the help of Haritha Karma Sena of Cheriyanad Grama Panchayath. Based on this we are arranging a collection drive of electronic wastes from 21-31<sup>st</sup> March 2023. All the students, teachers and non teaching staff of the college are requested to bring their old/abandoned electronic devices and deposit at the collection point at the college.

**"Be Responsible Today For A Better Future Tomorrow"**

**Organizing Committee**  
Sri. Vellappally Natesan (Patron)  
Dr. Shereen K (Principal in Charge)  
Dr. Smitha Sasidharan (IQAC Coordinator)  
Dr. Anju K S  
Dr. V. Shree Ranjini  
Ms. Aswathy Raj  
Ms. Parvathy Ramachandran

Recycle Your E-waste

Collection drive of E-waste during academic year 2022-23



കേരളം കേരल KERALA

DL 155729

Agreement between Cherivanad Grama Panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of E-waste from the campus

It is hereby agreed that

1. All the E-waste generated within the campus will be collected once in 2 years
2. User fee of Rs. 500/- (Five hundred only) has to be paid by the college for the same

SECRETARY  
Cherivanad Grama Panchayat  
Cherivanad P.O. Sree Chengannur  
Alappuzha (Dist.) Pin: 689 211  
Ph: 0472 239148



PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR

N. 27328  
25/01/2023  
S. Subramanian  
S. Subramanian

Handwritten signature and date.



Agreement with Chengannur Grama panchayath Haritha Karma Sena and Sree Narayana College Chengannur for collection and disposal of E-waste on the academic year 2022-23

## WATER CONSERVATION

### **Rainwater harvesting**

The rainwater harvesting system is one of the best methods practiced and followed to support the conservation of water at Sree Narayana College Chengannur. Run-off rainwater from rooftop of the buildings in the campus is captured and stored in a reservoir tank of 7000 liters. The water stored in the Rain Water Reservoir is directed in to the Chemistry Lab for Laboratory use. The stored rainwater is used for gardening & cleaning purpose.



### **Awareness Programs**

- Educational/cautionary posters regarding water conservation are placed in the campus.
- For quick sanitation purposes, alcohol-based sanitizer is more convenient than full hand wash and is produced by the Department of Chemistry
- Awareness programs are conducted for spreading information to the students regarding water conservation and sensitizing them to save water.
- Water saving techniques are included in curriculum.



### **Water Management**

Water conservation is a key activity as water availability effects on the development of the campus. Keeping this view water conservation activity is carried out.

### **Source of the Water**

- **Open Well water**

Our campus is equipped with two very large well of 100 feet depth having 20 feet water storage. We have three storage tanks each with 3000 litre capacity including a rainwater storage unit.



- **Bore well**

There is a borewell in the campus and this is used mainly for the hostel purpose. The water from the borewell is also used in the campus when water scarcity arises in the summer season.

- **Centralized Pipeline from Kerala Water Authority**

The centralized water supply system in the campus helps to get sufficient water supply for 24 hours in College campus and also for Women's Hostel

- **Open well recharge**

A significant part of groundwater artificial replenishment is played by open wells. The roof runoff water is collected through network of pipe lines and stored in the filter. The water from the filter is allowed to recharge the open wells.



### Source Water Details

Sl No	Description	Response
1	Source of water	Open well
2	No of wells	2
3	No of Motors Used	2
4	Depth of well	70 feet
5	Water level	25 feet
6	No of Water Tanks	3
7	Capacity	3000ltr
8	Quantity of water pumped	3000 ltr
9	Water use purpose	Regular use
10	Treatment for waste water from lab	Safe Disposal
11	No. of water purifiers	4
12	Rain water harvest units	1
13	Water management plans	yes
14	Water saving techniques	yes

### GREEN CAMPUS INITIATIVES

#### Routine Green Practices

Every year college celebrates World Environment Day, World Water Day, World Wetland Day and Ozone Day in the campus under the initiatives of Bhoomitra Sena Club, NSS and Science club. The main focus of these programs was to provide awareness to the students about the importance of environment, its conservation and sustainable use of environmental resources.

The programs are conducted through seminars, poster presentation, field oriented activity, quiz competition, debates etc

### **JUNE 5, 2022 – WORLD ENVIRONMENT DAY**

As a part of the ‘World Environment Day’ (June 5) the Bhoomithra Sena Club and NSS units of SN College, Chengannur jointly observed the day by planting saplings in the campus. Our Principal-In charge Dr. Shereen K inaugurated the programme by planting a sapling in the campus. All the staff and students actively participated in the programme by planting various varieties of fruit tree saplings all around the campus.



Our Principal Dr. Shereen K inaugurated WED 2022 by planting a sapling







Planting Saplings by NSS Programme Officers



WED – 2022 : Active participation by BMC Members

## **JUNE 5, 2022 -Environment & Sustainable Development Mission Launch by ‘Sastra Foundations’- Online Lecture**

The NSS and Bhoomithrasena Club members of Sree Narayana College, Chengannur attended a lecture organized by ‘Sastra Foundations’. The programme was inaugurated by Padmashri Kalyan Singh Rawat (Educationalist, Social Activist, Founder – Maiti Andolan) followed by Environment & Sustainable Development Mission Launching. Shri. Sridhar Radhakrishnan (Engineer & Researcher, Environment and Climate Concerns) delivered a distinguished Lecture on the topic “Only One Earth”. The programme further focused on the Sustainable Menstrual practice Challenge & Declaration and it benefitted the women participants. And tremendous positive responses poured in.



Inauguration - Padmashri Kalyan Singh Rawat (Educationalist, Social Activist, Founder – Maiti Andolan)

## FEBRUARY 2, 2023 – WORLD WETLANDS DAY

Every year, on 2<sup>nd</sup> of February, we celebrate World Wetlands Day (WWD) to raise global awareness about the high importance of wetlands for people and our planet. WWD is also an occasion to commemorate the signing of the Ramsar Convention on Wetlands in the Iranian city of Ramsar in 1971.

The World Wetlands Day 2023 theme is “It’s time for Wetland Restoration”. The theme aims to highlight the importance of actions that ensure that wetlands are conserved and sustainably used. The WWD 2023 focus is **on taking action for wetlands**.

The Bhoomithra Sena Club of Sree Narayana College, Chengannur celebrated World Wetlands Day by organising a “Short Video Contest” (*Topic : One Minute to Wetlands*) and Wetland Photo Contest (*Theme : Wetland Restoration*) for the students.

### 1. Short Video Contest



The videos of the winners those bagged first, second and third prize respectively is uploaded here.



[https://drive.google.com/file/d/1kNQAnEWEpc1CbnmFpEUsihUu\\_ih-RTJc/view?pli=1](https://drive.google.com/file/d/1kNQAnEWEpc1CbnmFpEUsihUu_ih-RTJc/view?pli=1)

**FIRST PRIZE - ANEESH R (I BA ECONOMICS)**



<https://drive.google.com/file/d/12AruCvbYTyWPf7rxnfZ96WwZBMiSd2KV/view>

**SECOND PRIZE – ARJUN S (I BA ECONOMICS)**



<https://drive.google.com/file/d/131Gw-6su-XfIyWExbomCAAFKPFfUEiIe/view>

**THIRD PRIZE – DINA KRISHNA (I BCom)**

## **2. Wetland Photo Contest**

Nature Photography is a wonderful way to share the beauty and wonder of the natural world with others. An obvious benefit of the art is raising awareness about generating empathy for special landscapes and species.

The Wetland Photo Contest is organized with the intention to raise awareness and create engagement around the importance of wetlands nearby. *The Theme for the contest*

was **“WETLAND RESTORATION.”** Our students got some unique shots. For capturing the perfect pictures of any wetland near their home or of their choice.

Sai Santhosh (I BCom) received the first prize, Aneesh R (I BA Economics) and Anagha Jyothy ( II BSc Chemistry) bagged the second and third prize respectively.



***FIRST PRIZE-Sai Santhosh (I BCom)***



***SECOND PRIZE-Aneesh R (I BA Economics)***



***THIRD PRIZE- Anagha Jyothy (II BSc Chemistry)***

### **MARCH 22, 2023 – WORLD WATER DAY**

The World Water Day is a global United Nations observance day celebrated every year on the 22<sup>nd</sup> of March to raise awareness about the value of fresh water and a call for the wise use of freshwater resources.

This year 2023, the World Water Day theme is “Accelerating Change” to accelerate the change required to solve the water and sanitation crises. The theme signifies the importance of appropriately using water in humans’ daily needs.

To commemorate the World Water Day, an Extempore Speech Competition for UG and PG Students was organized by the Bhoomithrasena Club and NSS Units of S N College, Chengannur. The Topic for the Extempore Speech Competition was ‘Water, water everywhere and not a drop to drink.’

Aromal K S (III B A Economics) received the first prize, Megha P S (I MSc Chemistry) and Avantika S Sajeev ( II BCom) bagged the second and third prize respectively.



*World Water Day Celebration*





Sree Narayana College, Chengannur  
Mar 22, 2023, 2:11 PM



Sree Narayana College, Chengannur  
Mar 22, 2023, 2:37 PM



Sree Narayana College, Chengannur  
Mar 22, 2023, 2:29 PM

**World Water Day Celebration**



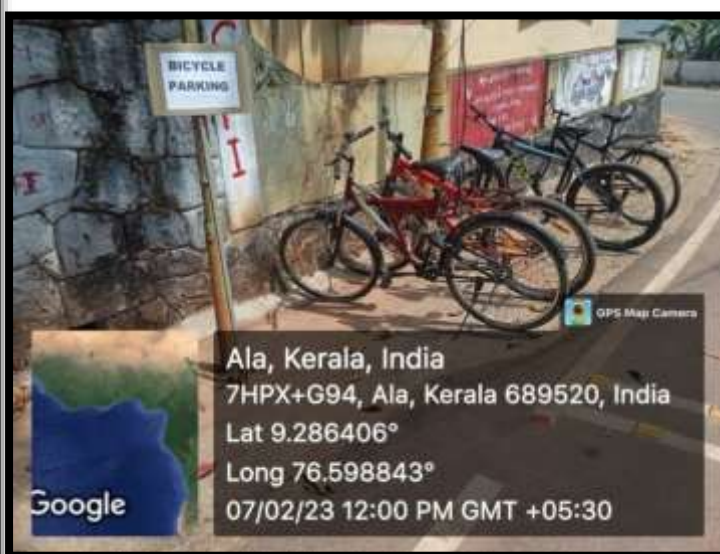


*Prize Distribution by our Principal Dr. Shereen K*

## Initiatives by College towards Sustainable Environment

### ✚ Restricted entry of vehicles

- All the vehicles of college staff/ faculty members should be getting the emission certification before entering the vehicle in college campus.
- The college encourages the employees and students to frequently use public transport, bicycles, etc. to limit the emissions.



### Transportation/carbon footprint

- Majority of the students in the campus rely on public transport, indicating lesser carbon foot print of the student community.
- Motor vehicles of students are prohibited inside the campus.
- Personal vehicles of staff are provided with parking space in the campus.

Sl No	Department	Members with Own vehicle	Members Using Public Transport	Use bicycle
1	Economics	2	5	
2	B-com	3	1	

3	Physics	3	1	
4	Chemistry	6	1	
5	Maths	2	3	
6	Languages	3	1	

### **Ban on use of Plastic**

- The college is continuously committed to work towards plastic-free campus.
- In the campus there is complete ban on single-use plastics in classrooms, laboratory and canteen in the institution's premises and in women's hostel.



### **Landscaping with trees and plants**

As per the green practices in the campus is moving in the direction of a Green Institution in Kerala planting more trees within and outside the campus. Medication plants and trees have been planted to clean the atmosphere.



### ✚ Conducting Energy, Green and Environment Audits

Energy audit of consumption of electricity in the college is conducted every academic year. The objective is to identify the extent of energy consumption and find appropriate strategies of conservation.

No: 202303039861



**OTTOTRACTIONS**  
Energy-Engineering-Environment

## *Green Audit Certificate*

This is to certify that the Sree Narayana College, Chengannur has conducted "Green Audit" to assess the Carbon foot print, Green initiatives, Waste management, Water management, Energy management, Environment awareness activities etc.

The data collection has been carried out diligently and truthfully. All reasonable professional skill, care and diligence had been taken in preparing the green audit report and the contents thereof are a true representation of the facts; Adequate training provided to personnel involved in daily operations after implementation of recommendations; and the college has submitted necessary data and credentials for verification. The green audit for the year 2020-23 has been carried out in accordance with the various rules and regulations in India.

The efforts taken by the management, faculty and the students towards environment and sustainability are highly appreciated.

Dated this 3<sup>rd</sup> day of March 2023.

**SURESH BABU B V**  
ACCREDITED ENERGY AUDITOR  
AEA-33, BUREAU OF ENERGY EFFICIENCY  
GOVERNMENT OF INDIA



Devinsagar - 170, Vallyavilla, Thiruvananthapuram - 695006  
Mob : +91 9447068347, +91 9447821674  
E-mail : aea@ottotractions.com, otenergy@gmail.com  
www.ottotractions.com

No: 202303039862



Certification & Inspection  
SINCE 1998



015-CB-EMS  
183-1863 - 2019 Certified (2020/2021)  
182-1863 - 2019 Certified (2020/2021)



**OTTOTRACTIONS**  
Energy-Engineering-Environment

*Energy Audit*

# *Certificate*

This is to certify that the data collection has been carried out diligently and truthfully;

All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorised and no tampering of such devices has occurred;

All reasonable professional skill, care and diligence had been taken in preparing the audit report and the contents thereof are a true representation of the facts; Adequate training provided to personnel involved in daily operations after implementation of recommendations; and

The Energy Audit for the year 2020-23 has been carried out in accordance with Energy conservation act 2001 (Bureau of Energy Efficiency (Manner and Intervals of Time for the Conduct of Energy Audit) Regulations, 2010).

This Certificate is issued to Sree Narayana College, Chengannur on their request.

Dated this 3<sup>rd</sup> day of March 2023.

SURESH BABU B V

ACCREDITED ENERGY AUDITOR  
AEA-33, BUREAU OF ENERGY EFFICIENCY  
GOVERNMENT OF INDIA



Devinagar - 170, Vaidiyavila, Thirumala P O, Thiruvananthapuram - 695006  
Mob : +91 9447068747, +91 9447621674  
E-mail : ara@ottotractions.com, otenergy@gmail.com  
www.ottotractions.com

No: 202303039863



**OTTOTRACTIONS**  
Energy-Engineering-Environment

## *Environment Audit Certificate*

This is to certify that the data collection has been carried out diligently and truthfully;

All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorised and no tampering of such devices has occurred;

All reasonable professional skill, care and diligence had been taken in preparing the audit report and the contents thereof are a true representation of the facts;  
Adequate training provided to personnel involved in daily operations after implementation of recommendations; and

The Environment Audit for the year 2020-23 has been carried out in accordance with various rules and regulations in India.

This Certificate is issued to  
Sree Narayana College, Chengannur on their request.

Dated this 3<sup>rd</sup> day of March 2023.

**SURESH BABU B V**  
ACCREDITED ENERGY AUDITOR  
AEA-33, BUREAU OF ENERGY EFFICIENCY  
GOVERNMENT OF INDIA



Devinagar - 170, Vallyavilla, Thiruvalla P.O, Thiruvananthapuram- 695006  
Mob : +91 9447063747 , +91 9447621674  
E-mail : aea@ottotractions.com, otenergy@gmail.com  
www.ottotractions.com

**DISABLED-FRIENDLY, BARRIER FREE ENVIRONMENT FOR 2022-23**

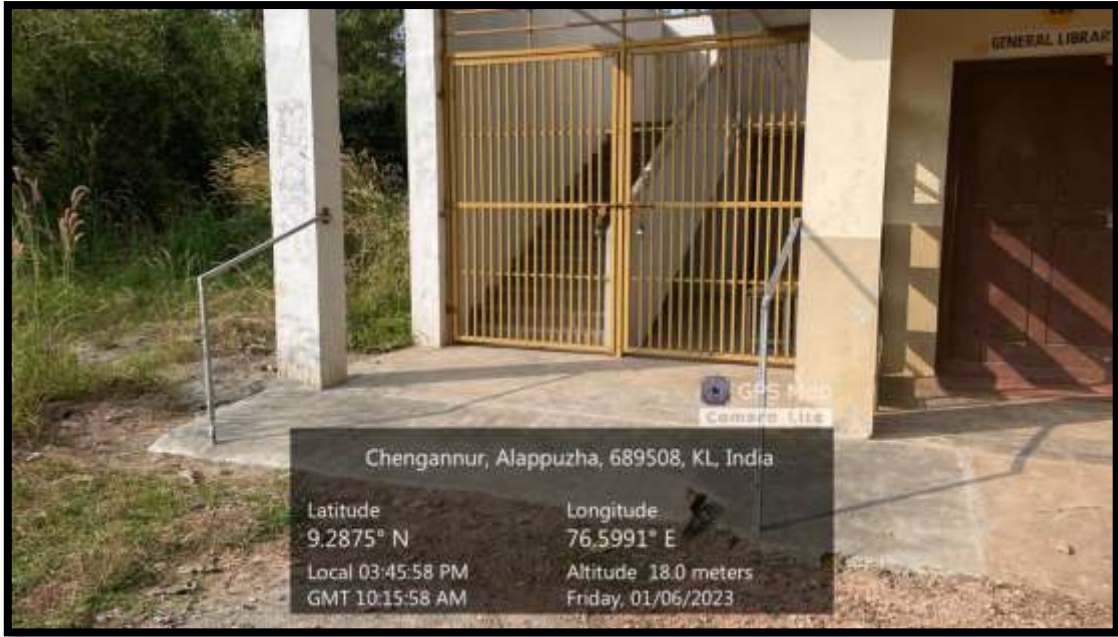
The college is equipped with

- Disabled friendly washroom
- Ramp for easy access
- Wheelchair



*Disabled Friendly Toilet*





*Ramp for easy access to washroom*



*Wheelchair*