Green Audit / Environmental Inspection

CIL Ref. No.:	**CIL/20232235**
Name of organization:	**Kalaguru Bishnu Rabha Degree College**
Address of premises:	**P.O. – Orang – 784114, Dist. Udalguri, BTR (Assam)**
Name of Inspector:	**Ramit Jagota**
Date of Inspection:	**25/02/2023**
Type of Inspection:	**Green Audit**

Organization Details	
Total Campus Area	18 Bighas
Total Built-up Area	55576 sq. mtr.
Covered Parking	1 Bigha - 2508.38 sq. mtr.
Total Air-Conditioned Area	Not applicable as there is no air conditioning system.
Non-Airconditioned Area	NA
Age of the building	11 years

DETAILS OF INFRASTRUCTURE

Classrooms	19
Laboratory	2 – Computer Lab & Psychology Lab
Library	1
Seminar hall and auditorium	1 – Indoor stadium
Sports room	1
Gymnasium	1
Staff and student parking area	1
Canteen	No
Playground	2

LIST OF BUILDINGS

Name of Building	Number of Floors	Area (sq. ft.)
Administrative Building	Ground Floor – ATB (Assam Type Building)	4140 sq. ft.
IQAC Block	ATB (Assam Type Building)	2000 sq. ft.
Junior Admin Block	ATB (Assam Type Building)	2500 sq. ft.
Superintendent Quarter	ATB (Assam Type Building)	1200 sq. ft.
Indoor Stadium	2 Floors	5500 sq. ft.
Girls Hostel	3 Floors	8400 sq. ft.
Boys Hostel (under construction)	2 Floors	6800 sq. ft.

DEPARTMENTS

1	Assamese	7	Folklore
2	Bengali	8	History
3	Bodo	9	Nepali
4	Economics	10	Philosophy
5	Education	11	Political Science
6	English		

DETAILS OF STUDENTS AND STAFF

Total Number of Students	2422, | Boys: 1082 |Girls: 1340
Teaching Staff	31
Technical Staff	NA – Arts College
Non-Technical Staff	31
Outsourced Staff	1

GREEN AUDIT PARTICIPANTS

Name	Designation
Dr. Utpal Ch. Hajong	Principal
Mr. Rinku Hatri	Asst. Professor
Mr. Ramesh Dahal	Co-ordinator IQAC
Mr. Malin Ch. Biswas	Asst. Co-ordinator IQAC
Mr. Hari Narzari	Asst. Professor

LEGAL COMPLIANCES

Description	Registration Details
Consent to operate (CTO) from SPCB	Not available
Fire NOC	Not available

Water Boring permission	Not available
DG Set Permission	Not Applicable as there is no DG Set. The electricity generated by the solar panels powers the entire campus.

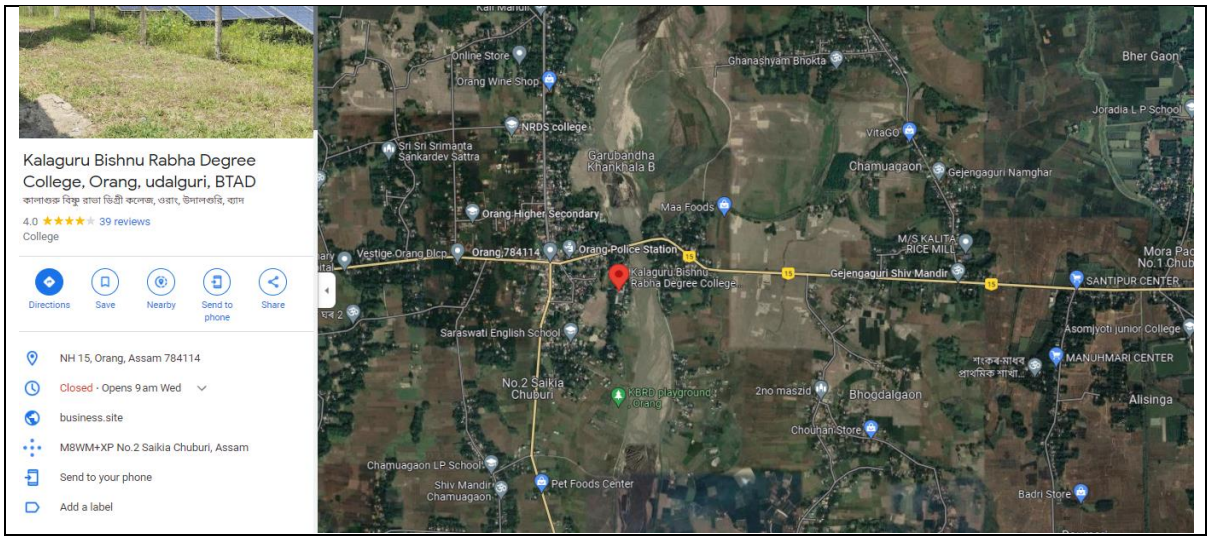
About Organization

A higher educational institution was set up in the heart of Orang Chariali in 1990 after the name of renowned Bishnu Prasad Rabha, the mentor of culture and father of socio-economic revolution in Assam, by some of the economically weak but ever conscious and far-sighted people of Orang area with the help of public donation.

The college has emerged as the only institution imparting quality higher education to thousands of students belonging to different caste and communities and especially the tribal and non-tribals covering the vast area of the undivided Darrang district, despite several economical and social hazards. Over the years the college is rendering valuable service in the field of education to the poor and needy students as the area it covers is mostly economically backward.

The degree college is making rapid progress in the academic side with a better result and it is on the threshold of becoming economically self-sufficient and literally a full- fledged institution by dint of its competing staff and college authority and will soon flourish as an exemplary institution in a few years to come.

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

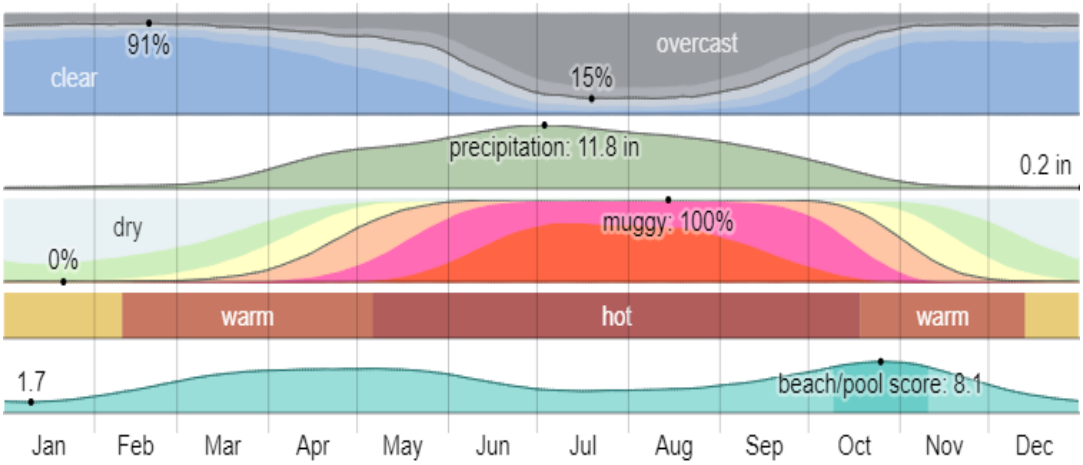


CLIMATIC PARAMETERS

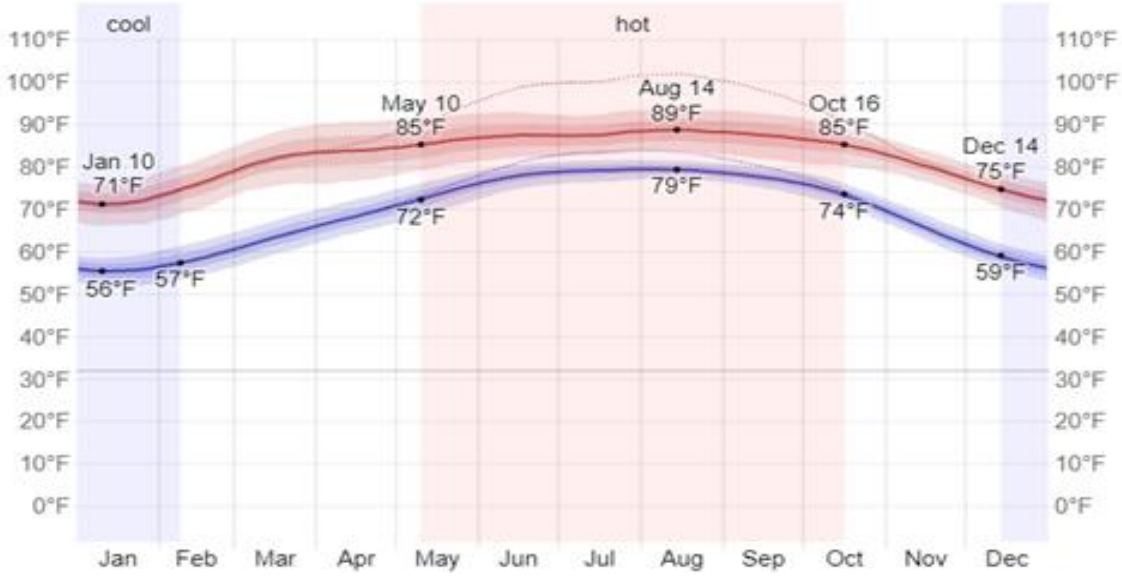
1. **Climate:** In Udalguri, the wet season is hot, oppressive, and partly cloudy and the dry season is warm and clear. Over the course of the year, the temperature typically varies from 56°F to 89°F and is rarely below 52°F or above 94°F.

2. **Temperature:** The hot season lasts for 5.2 months, from May 10 to October 16, with an average daily high temperature above 85°F. The hottest month of the year in Udalguri is August, with an average high of 89°F and low of 79°F. The cool season lasts for 1.8 months, from December 14 to February 8, with an average daily high temperature below 75°F. The coldest month of the year in Udalguri is January, with an average low of 56°F and high of 72°F.

Climate:



Average High and Low Temperature:



BIO-DIVERSITY

List of Trees/Shrubs/Herbs species found in the campus

ENGLISH NAME	SCIENTIFIC NAME	AVAILABLE QUANTITY
Mango	Magnifera Indica	08
Indian Mast Tree	Polyalthia Langifolia	30
TitaChapa	Michelia Champa	01
Segun	Tectona Grandis	01

Moha Neem	Azadiraehta Indica	02
Rain Tree	Albizia Saman	07
Arjun	Terminalia Arjuna	02
Eucalyptus	Eucalyplus Teraticornis	01
Amla	Embelica Officinalis	04
Kadam	Anthocoplhalus Indicus	11
Sisoo	Dalibergia Sisoo	10
Negeshor	Messua Ferrea	03
Haritaki	Terminalia Chebula	04
Red Chandan	Pterocarpus Santalinus	01
Guava	Psidium Guajava	05
Pine	Genus Pinus	01
Mock Orange Orange Jessamine satin	Murraya Paniculata	03
Indian Banyan	Ficus Religiosa	01
Spanish Cherry	Mimusops Elengi	07
Indian Jujube	Ziziphus Mauritiana	04
Royal Poinciana	Delonix Regia	02
Betelnul Palm	Areca Catechu	09
Coconut	Cocos Nucifera	04
Rose	Rosa Rubiginosa	04
Hibicus	Hibicus Rosa-sinensis	10
Dahlia	Dalhia Pinnata	50
Poppy	Paparer Somniferum	60
Lavender	Lavandula	35
Iris	Iris	38
Marygold	Tagetes	47
Peony	Paeonia	29
Daisy	Bellis Parennis	35
Calendula	Calendula officinalis	28

Reference Images:



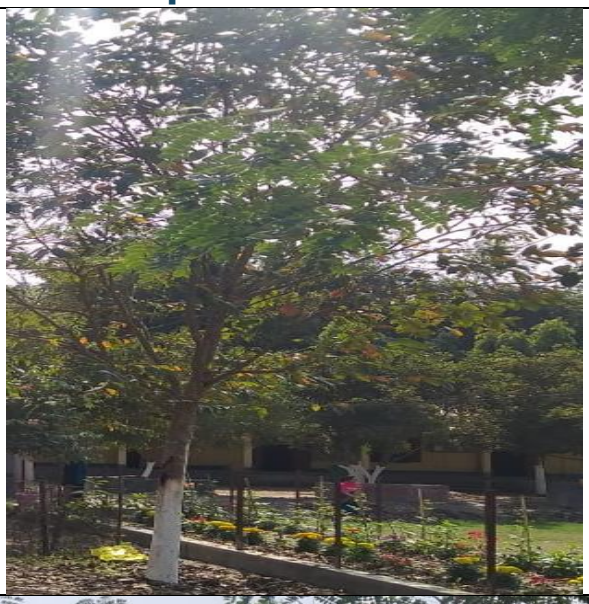


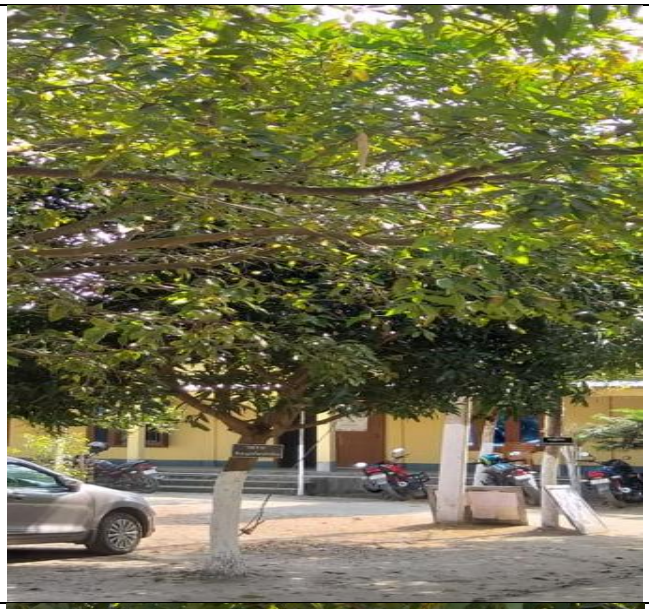







ENVIRO
LIFE






নাহর
Mesua Ferrea


অর্জুন
Terminalia Arjuna


ওজা


বকুল
Mimusops Elengi

Images of Green Cover of the University Campus

List of birds and animals

S. No.	Zoological Name	Common Name
1.	Bos taurus	**Cow**
2.	Bos indicus	**Cattle**
3.	Capra aegagrus hircus	**Goat**
4.	Oryctolagus cuniculus	**Rabbit**
5.	Canis lupus familiaris	**Dog**
6.	Felis catus	**Cat**
7.	Columba livia	**Pigeon**
8.	Passeridae	**Sparrow**
9.	Corvus	**Crow**

List of Butterflies found in and around the campus

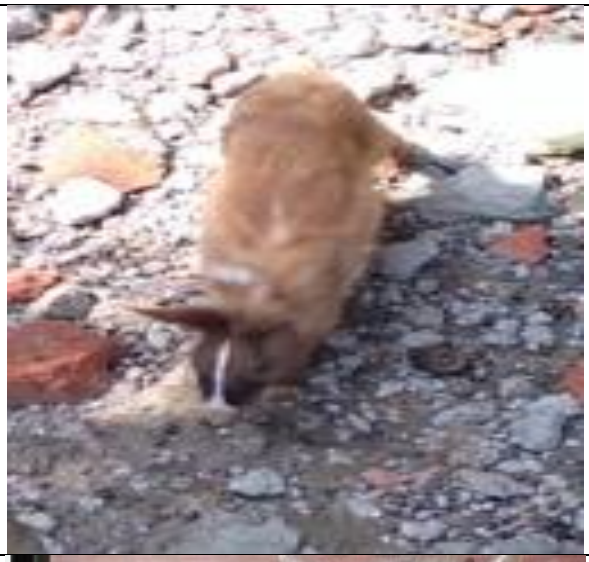
S. No.	Zoological Name	Common Name
1.	Tirumala Limniace	Blue Tiger
2.	Hasora-chromus	Common Banded Awl
3.	Blue Pensy Junonia Orithya	Blue Pensy
4.	Azanus-ubaldus	Bright Babul Blue

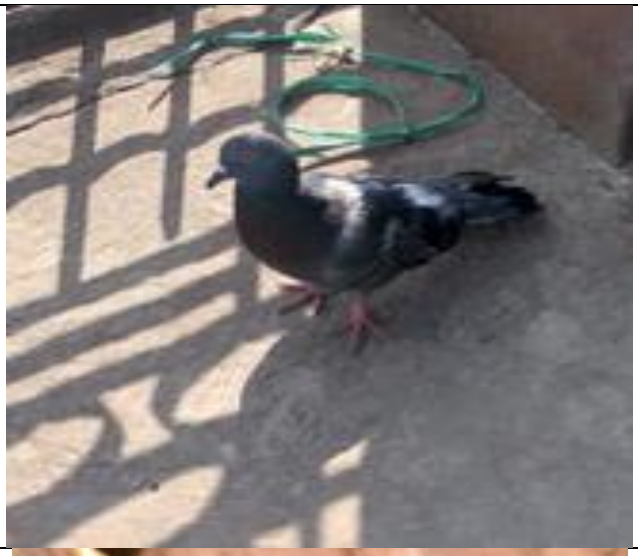
List of Reptiles found in and around the campus

S. No.	Zoological Name	Common Name
1.	Chamaeleonidae	Chameleons
2.	Serpentes	Snake
3.	Lacertilia	Lizard
4.	Rana tigrina	Frog

Reference Images:





LEGEAL REQUIREMENTS

Description	Registration Details
Consent to operate (CTO) from SPCB	Not Available
Fire NOC	Not Available
Water Boring permission	Not Available
DG Set Permission	Not Applicable as there is no DG set.

GENERAL

General Requirements: Environmental Policies / Environmental Objectives, etc	
Is there an environmental policy? Is it publicly communicated?	There is no defined environment policy implemented by the campus.
Is there a defined waste management policy in the organization?	No, there is no defined waste management policy in the organization.
Are there any quantifiable environmental objectives decided by the organization?	Yes, there is an objective decided by the organization, if any student got under **Fee Waiver Scheme**, then student compulsory plant a sapling either in their home or in the campus or any other public place. Reference doc pic no.: A2, A3.

Is the organization aware of all environmental Laws pertaining to different aspects of the organization's activities? Mention laws & compliance status.	Yes, institute aware of all environmental Laws pertaining to different aspects of the organization's activities. Likewise, Institute follows **National Service Scheme** under which institute done activities such as: • Plantation at college premises Reference doc pic no.: A9, A10 • Cleanliness and plantation drive Reference doc pic no.: A5, A6, A7, A8 • Swaccha Bharat Abiyan Reference doc pic no.: A11, A12
Does the organization have any Recognition/certification for the environment friendliness? Provide details.	Yes, institute have ISO 9001:2015 certification. Reference doc pic no.: A1
Has the organization established any committee to decide, implement & monitor environmental initiatives?	Yes, institute established National Service Scheme Unit (NSS) that decide and implement environment initiatives and the coordinator of the committee is Mr. Vishnu Chetry. Reference doc pic no.: A4
Has the institution ever received any notice/warning from the pollution control board or any other concerned environmental authorities? If yes, then what corrective & preventive measures have been taken?	No
Related images / documents	

MQA Certification

Certificate of Registration

This is to certify that

BASUGAON COLLEGE

BASUGAON COLLEGE, BASUGAON 783372 DIST.CHIRANG BTR, ASSAM INDIA.

Has been assessed and certified by MQA Certification Services

As meeting the requirements of:

ISO 9001:2015

(Quality Management System)

For the Following Scope of Activities:

PROVIDING COURSES OF ARTS STREAM UNDER BODLOLAND UNIVERSITY, ALSO PROVIDING LIBRARY SERVICES UP TO RESEARCH LEVEL.

:: Certificate No :: QMS/22M02151

Date of initial registration:	26 December 2022
First Surveillance Audit on or before:	25 December 2023
Second Surveillance Audit on or before:	25 December 2024
Re-certification Due:	25 December 2025

This Certificate is property of MQA and remains valid Subject to satisfactory surveillance audits.

Authorised Signatory

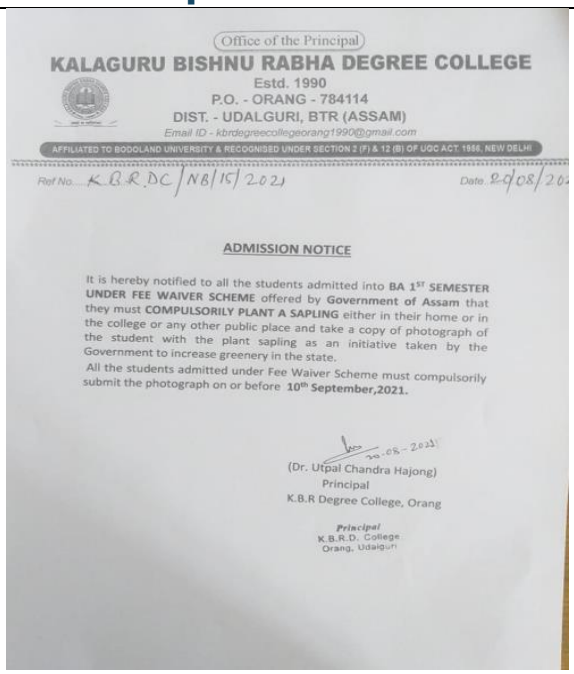
MQA CERTIFICATION SERVICES

130 Thessaly Rd, Nine Elms, London SW8 5EJ, United Kingdom

UKAF CB 011

To check validity of the certificate please visit at www.mqacertification.com

A1: ISO Certificate



Office of the Principal

KALAGURU BISHNU RABHA DEGREE COLLEGE

Estd. 1990

P.O. - ORANG - 784114

DIST. - UDALGURI, BTR (ASSAM)

Email ID - kbrdegreecollegeorang1990@gmail.com

AFFILIATED TO BODOLAND UNIVERSITY & RECOGNISED UNDER SECTION 2 (F) & 12 (B) OF UGC ACT, 1956, NEW DELHI

Ref No. K.B.R.D.C/NB/15/2021 Date. 2-9-08/202

ADMISSION NOTICE

It is hereby notified to all the students admitted into **BA 1ST SEMESTER UNDER FEE WAIVER SCHEME** offered by **Government of Assam** that they must **COMPULSORILY PLANT A SAPLING** either in their home or in the college or any other public place and take a copy of photograph of the student with the plant sapling as an initiative taken by the Government to increase greenery in the state.

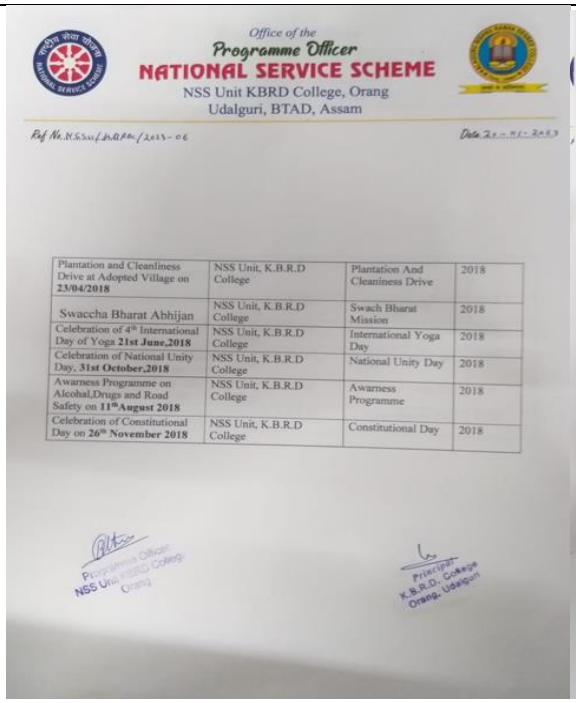
All the students admitted under Fee Waiver Scheme must compulsorily submit the photograph on or before **10th September,2021.**

(Dr. Utpal Chandra Hajong)
Principal
K.B.R Degree College, Orang

Principal
K.B.R.D. College
Orang, Udalguri

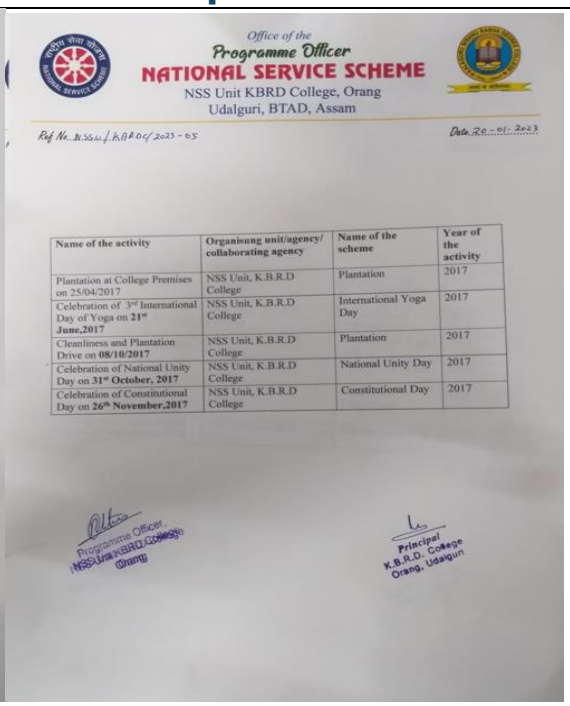
A2: Fee Waiver Scheme

A3: Fee Waiver Scheme Students Plant Sapling



Office of the
Programme Officer
NATIONAL SERVICE SCHEME
NSS Unit KBRD College, Orang
Udalguri, BTAD, Assam

Plantation and Cleanliness Drive at Adopted Village on **23/04/2018**	NSS Unit, K.B.R.D College	Plantation And Cleaniness Drive	2018
Swaccha Bharat Abhijan	NSS Unit, K.B.R.D College	Swach Bharat Mission	2018
Celebration of 4th International Day of Yoga **21st June,2018**	NSS Unit, K.B.R.D College	International Yoga Day	2018
Celebration of National Unity Day, **31st October,2018**	NSS Unit, K.B.R.D College	National Unity Day	2018
Awarness Programme on Alcohal,Drugs and Road Safety on **11thAugust 2018**	NSS Unit, K.B.R.D College	Awarness Programme	2018
Celebration of Constitutional Day on **26th November 2018**	NSS Unit, K.B.R.D College	Constitutional Day	2018



Office of the
Programme Officer
NATIONAL SERVICE SCHEME
NSS Unit KBRD College, Orang
Udalguri, BTAD, Assam

Name of the activity	Organisung unit/agency/ collaborating agency	Name of the scheme	Year of the activity
Plantation at College Premises on 25/04/2017	NSS Unit, K.B.R.D College	Plantation	2017
Celebration of 3rd International Day of Yoga on **21st June,2017**	NSS Unit, K.B.R.D College	International Yoga Day	2017
Cleanliness and Plantation Drive on **08/10/2017**	NSS Unit, K.B.R.D College	Plantation	2017
Celebration of National Unity Day on **31st October, 2017**	NSS Unit, K.B.R.D College	National Unity Day	2017
Celebration of Constitutional Day on **26th November,2017**	NSS Unit, K.B.R.D College	Constitutional Day	2017

A4: NATIONAL SERVICE SCHEME(NSS)

A5: Tree Plantation and Cleanliness Program under NSS

A6: Tree Plantation and Cleanliness Program under NSS

	
A7: Tree Plantation and Cleanliness Program under NSS	A8: Tree Plantation and Cleanliness Program under NSS
	
A9: Students Plantation Program under NSS	A10: Students Plantation Program under NSS
	
A11: Students working under Swaccha Bharat Abhiyan according to NSS	A12: Students working under Swaccha Bharat Abhiyan according to NSS

Identified Nonconformities

1. There should be a defined/written environmental policy & quantifiable environmental objectives decided by the institute.
2. There should be defined waste management policy decided by the institute.

POLLUTION

Air Pollution Management (objective, practices / methods to minimize air pollution)	
Identify the major sources of air pollution within the organization & the actions taken to either eliminate or minimize the pollution.	Major source of air pollution in the campus are classrooms which are under construction. Action taken by the institute: Construction work is done manually. No machines are used. Surrounds the main road construction work, large continuous trees are planted to reduce the pollution effect. Reference doc/pic no.: B1 & B2
HVAC maintenance and calibration records, testing and balancing reports. When was the duct system tested for leakage last?	No HVAC system installed by the Institute.
DG set stack emission test as per CPCB norms.	DG sets are not required by the institute because solar plant is installed in the campus and electricity requirement fulfill by the solar power. Reference doc/pic no.: B3 & B4

Related documents / images

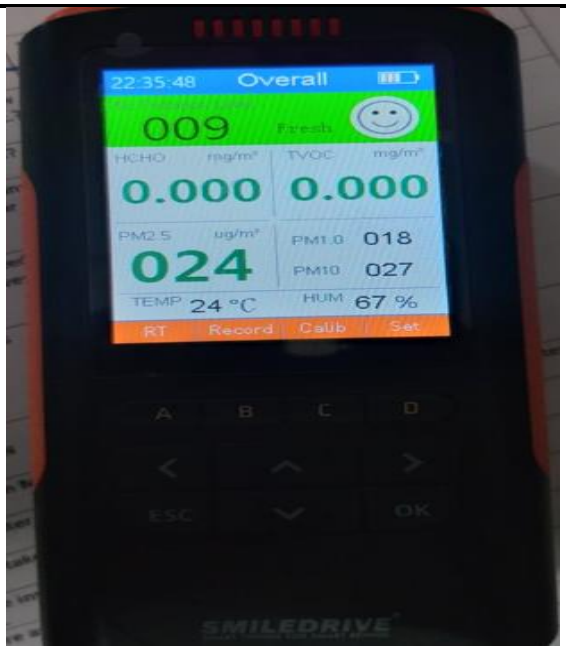
B1

B2

	
B3	B4

In-Door Air Quality (Checks, methods, tests & practices to ensure indoor air quality)	
Does the organization test indoor air quality? Details of last indoor air quality test done.	There were no records to verify that the college conducted tests to check indoor air quality. Indoor Air Quality check of the campus was conducted by CDG Inspection Ltd. at the time of audit. Following are the outcomes of the check conducted: **Indoor Air Pollution level**- 9 **PM 1.0**- 18 **PM 2.5** - 24 **PM 10** – 27 Reference doc/pic no.: C1
Is there a proper system of exhaust of indoor air?	Yes, every classroom, staff room, corridor, etc. comprises windows for proper ventilation. The staff room, library and labs in the campus all have ventilation systems. The indoor air flow rate was checked at the time of the audit, and the outcome was -**0.4 m/s** Reference doc/pic no.: C2
Supplies: • Are 'Material Safety Data Sheets (MSDS)' available for different types of supplies (Ex: solvent, wax, adhesives, paints, flammables etc.)? • Are storage areas separate & ventilated properly? • Are less or nonhazardous materials	• No 'Material Safety Data Sheets (MSDS)' available for different types of supplies. • Yes, storage areas are separate, and those storage areas have enough ventilation.

used when possible? • Does the organization have a defined system to evaluate & find out safer alternatives? • Is there a defined procedure available for disposal of used substances?	• Yes, Institute use less or nonhazardous materials used when possible. Likewise, mostly for cleanliness purpose, water used as a source. • No • Yes there is a defined procedure available for disposal of used substances. The institute has provided separate dustbins for disposal of used substances. Reference doc/pic no.:- C3
General Cleanliness: • Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? • Does the organization ensure to use of environment-friendly, non-scented cleaning products?	• Yes, every classroom, staffroom, library etc. were found to be clean and tidy at the time of audit. • No related records found.
Pest control methods & products used (check & control).	No related records found.
Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls?	The institute does not ensure the use of low emitting paints, coatings, furniture etc.
Is there any sign of mold infestation?	No sign of mold infestation in the institute.
Does the organization eliminate any bird or animal nests or droppings near outdoor air intakes?	No, the organisation doesn't harm any animal or bird nests.
What are the methods adopted by the organization to control/prevent dust within the buildings?	The methods adopted by the institute to control/prevent dust within the building: • There are large continuous trees all around the campus. Reference doc/pic no.: C4
Related records / images	

	
C1: Air Quality Level	C2: Indoor Air Flow Rate
	
C3: Separate dustbins for safe disposal	C4: Large continuous trees to prevent dust

Identified Nonconformities

1. The institute does not conduct pest control on its campus.
2. It is recommended to ensure the use of low emitting paints, coatings, furniture etc. in the campus.

WATER POLLUTION

Water Pollution Management (objective, practices / methods to minimize water pollution)	
Source of water pollution within the premises.	• Cow dung used for irrigation by the institute. • Pesticides used for irrigation once in six months.
Measures taken to prevent / stop water wastage.	No related records found.
Does the institute harvest rainwater? Give details.	No rainwater harvesting system installed by the institute.
Is there any water recycling system? Give details.	RO residual is collected for irrigation purpose.
Is there any effluent treatment plant in premises? No. of outlets for discharge of effluent?	No, there is no effluent treatment plant in premises.
What is the quality of effluent in KLD?	NA
Whether operating STP/ETP satisfactorily?	NA
Whether provided flow meters on outlet & inlet of ETP/STP?	NA
Whether provided separate electricity meter on ETP/STP?	NA
Whether maintained Logbook for consumption of Electricity/ Chemicals/Quantity of effluent?	NA
Detail of land in case effluent is discharged for percolation/ irrigation purpose with justification for its 100% utilization.	NA
Status of ZLD (Zero Liquid Discharge) as per CPCB	NA
Locate the point of entry of water and point of exit of waste water in the organisation.	Yes, separate drainage way provided for the exit of waste water. Reference doc/pic no.: D1
Related records / images	

D1: Separate drainage way for exit of waste water

Identified Nonconformities

1. There should be a rainwater harvesting system installed in the college.
2. There should be a systematic procedure for water recycling on campus.
3. It is recommended to have STP or Effluent Treatment Plant in the institute to prevent contaminants from mixing with the water bodies.

Water Consumption & Water Efficiency Use of water (indoor and outdoor water) & practices related to efficient /reduced use of water.)	
Sources of water supply	2 Water bore well installed within the campus.
Number of water storage tanks and their storage capacity. Total water storage capacity.	Number of water storage tanks: 7 Storage capacity of 5 tanks: 2000 Liters each Storage capacity of 2 tanks: 1000 Liters each Total water storage capacity: **5 x 2000 + 2 x 1000 =12 ,000 Litres**
Water used in irrigation	Approx.1000 ltr./day
Water used in cleaning	200 ltr./day

Description	**Requirement***	**Actual consumption**
Water consumption per head /day	Without boarding facility: 45 liter per head / day	45 liter per head / day

*As per Central Ground Water Authority Guidelines water requirements (Ref. NBC 2016, BIS) of an educational institute for drinking and domestic use.		

SANITARY CONVENIENCE TO BE PROVIDED

Fitments	**Educational Institutes (non-Residential)**				**Educational Institutes (Residential)**			
	Boys		**Girls**		**Boys**		**Girls**	
	Req.*	**Actual**	**Req. ***	**Actual**	**Req. ***	**Actual**	**Req.**	**Actual**
Water closets	1 per 40 pupils or part thereof	1 per 90 pupils	1 per 25 pupils or part thereof	1 per 111 pupils	1 for every 8 pupils or part thereof	NA, No boys hostel in the campus	1 for every 6 pupils or part thereof	1 for every 2 pupils
Ablution taps	1 in each water closet	Yes	1 in each water closet	Yes	1 in each water closet	N/A	1 in each water closet	Yes
Urinals	1 per 20 pupils	1 per 90 pupils	-	-	1 for every 25 pupils or part thereof	N/A	-	-
Wash basins	1 per 60 pupils, Min 2	1 per 216 pupils	1 per 40 pupils, Min 2	1 per 268 pupils	1 for every 8 pupils or part thereof	N/A	1 for every 6 pupils or part thereof	1 for every 2 pupils
Bath	-	-	-	-	1 for every 8 pupils or part thereof	N/A	1 for every 6 pupils or part thereof	1 for every 2 pupils
Drinking water fountains or taps	1 for every 50 pupils or part thereof	1 per 216 pupils	1 for every 50 pupils or part thereof	1 per 268 pupils	1 for every 50 pupils or part thereof	N/A	1 for every 50 pupils or part thereof	1 for every 2 pupils
Cleaner's sinks	1 per floor, minimum							

*As per IS 1172:1993

Observations:
It is recommended to install a greater number of water closets, ablution taps, urinals, wash basins, and drinking water taps to meet the requirement of IS 1172:1993.

NOISE POLLUTION

Noise Pollution Management (objective, practices / methods to minimize noise pollution)

Noise level in dB(A) Leq	Standard Level*	Actual Level
Day Time	50	Max.- 54.1 Min.- 44.2

*As per The Noise Pollution (Regulation and Control) Rules, 2000; rule 3(1) and 4(1)
Day time from 6:00am to 10:00pm
Nighttime from 10:00pm to 6:00am

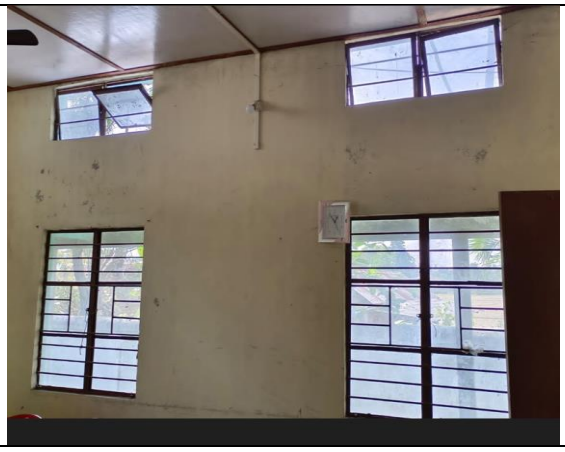
Related records / images

Building Sustainability	
Ensure that walls, floors, roofs, and windows are as energy efficient as possible.	No related record found.
Design for good indoor air quality	Yes, every classroom, staff room, corridor, etc. comprises windows for proper ventilation.

	Reference doc/pic no.:- E1
Use of natural daylight in building interiors as a source of ambient light.	Yes, there is use of natural daylight in building interiors as a source of ambient light. Reference doc/pic no.:- E2
Use of low emitting materials for building modifications, maintenance, and cleaning.	No related low-emitting materials for building modifications were found.

Lighting	
Use of energy efficient lighting system (bulb & other products)	For energy efficiency, LED lights are used to illuminate the campus mostly. Reference doc/pic no.:-E4
Use of natural day light	Yes, there is a use of natural daylight in every classroom, library and lab. Reference doc/pic no.:- E3

Related images:

	
E1	E2

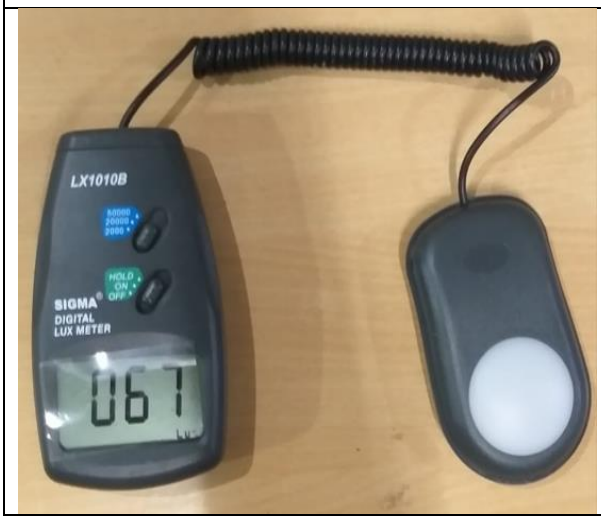
	
E3	E4

ILLUMINATION LEVELS AND GLARE INDEX

Sr. No.	Area	Standard Illumination (Lux)*	Standard Glare Index*	Actual Illumination (Lux)
a)	Classrooms	300	16	323
b)	Lecture rooms (including demonstration areas)	300	16	345
c)	Reading rooms	150 to 300	19	129
d)	Laboratories	300	16	468
e)	Corridors	70	-	Natural light
f)	Libraries	300	16	111
g)	Auditorium I. Hall II. Foyer III. Stage area	 70 70 300	 - - 16	196
h)	Gymnasiums	150	-	440
j)	Cafeterias	100	-	NA
K)	Staff rooms	150	-	210

* Recommended illumination Levels and Glare index as per National Lighting Code 2010 [ETD 24: Illumination Engineering and Luminaries] Part 5 Section 3

Related images:



Electrical Equipment's	
Details of electrical equipment, its energy efficiency & practices	To conserve electricity by installing a main switch outside. By turning off the switches we are able to turn off all the lights and fans in the room in one go. Although, there are separate switches to turn on and turn off lights and fans separately. Solar Panels also installed in the campus and all electricity supply with the solar panels within the campus.

ELECTRICITY CONSUMPTION

Month	Electricity Consumption (Last 6 months)
Not Applicable	Not Applicable

Note: There is no electricity consumption because the complete power is produced by solar panels.

<table>
<tr><td colspan="2">Energy Efficiency
(consumption, objective, practices / methods to achieve energy efficiency objectives)</td></tr>
<tr><td>Current energy uses.</td><td><table><tr><th>Energy Sources</th><th>Consumption (Unit)</th></tr><tr><td>Electricity</td><td>NA</td></tr><tr><td>Fuel oil</td><td>NA</td></tr><tr><td></td><td></td></tr></table></td></tr>
<tr><td>Short-term energy efficiency goals & roadmap to achieve those goals.</td><td>The institute short-term energy efficiency goals are as follows:
Solar panel installation
Natural Light
The institute installed solar panels in their buildings for energy efficiency and using natural daylight as an alternative to light bulbs.</td></tr>
<tr><td>Long-term energy efficiency goals & roadmap to achieve those goals.</td><td>Long-term energy efficiency goals include using green energy, reducing greenhouse gas emissions, and reducing demand for energy imports at the institute.

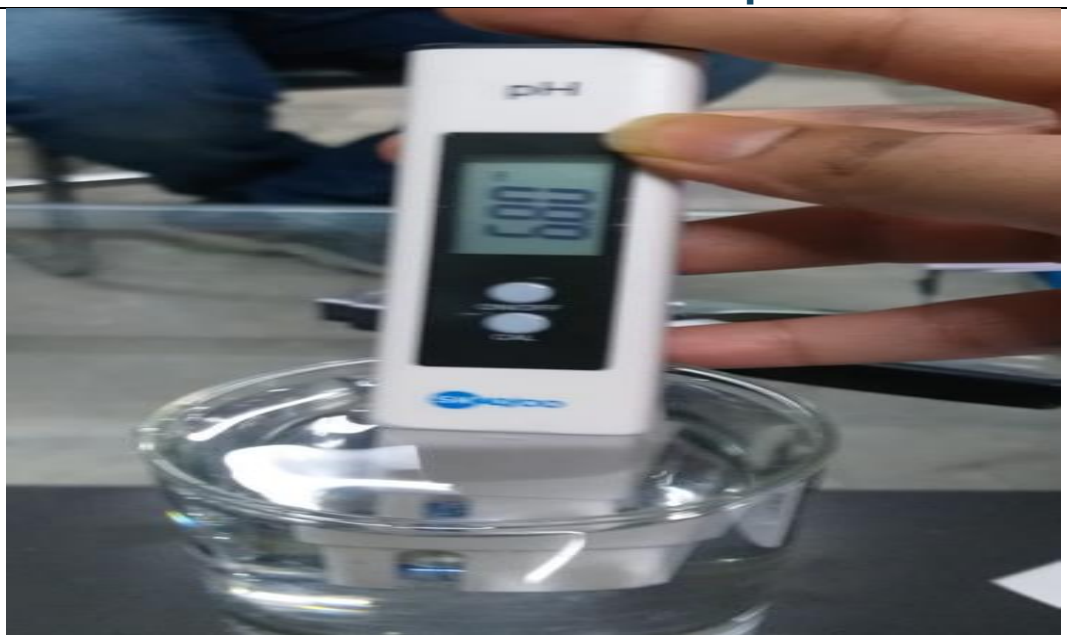
However, there is no defined roadmap developed by the organization that will help them achieve these goals.</td></tr>
</table>

On-Site Energy Generation (Details of renewable energy generation projects on organization's property for organization's use)
The institute installed Solar panels on their campus for energy efficiency. Solar Power reduces all operating cost for the institute and provides unlimited and reliable energy in the campus.
Related records / images

Observations:
The institute has installed solar panels on its campus as an on-site energy generation method. However, the institute does not monitor the total renewable energy generated by the solar panel that helps the institute save on its electricity consumption and generate clean, green energy. It is recommended to monitor the solar system's energy production by the solar panels to produce green energy and reduce the consumption of electricity.

DRINKING WATER

Drinking Water Quality (As per IS 10500: 2012)
The institute does not conducted drinking water quality tests as per IS 10500:2012 standards. At the time of audit water pH level test was conducted by the CDG Inspection Ltd. And the water pH level was 6.8 that can be considered fit for drinking purposes.
Related records / images



Observations:
Institute should conduct drinking water quality tests as per IS 10500:2012 standards.

WASTE MANAGEMENT

Type of waste - **Plastic waste** **Approximate annual quantity-** Approximately 15 Kg (Annually**)** **Source of waste –** Packed eatables used by the students. **Handling methods-** The college has reduced the use of plastic materials and packaged food by creating awareness among the student and staff. **Measures to reduce the waste quantity-** Use re-usable material, replace plastic material with ecofriendly products.
Type of waste – **Paper waste** **Approximate annual quantity-** Approximately 1000 Kg/ year

Source of waste – Answer sheets used in sessional examinations, Tea cups, Glasses for water

Handling methods- Recycling vendors collect the waste paper from the college**.**

Measures to reduce the waste quantity-The college is looking forward to minimise the use for paper in sessional exams by adhering to digital and objective mode of question and answer.

Type of waste – Electronic waste

Approximate annual quantity- Approximately 10 Kg

Source of waste – Computers, Mouse, Keyboards, etc.

Handling methods- Minimise the printing materials/e-source to be adhered

Measures to reduce the waste quantity- The traditional peripherals have been sent for scrap as per GGSIPU/GNCT norms. Further, the blank toner, non-functional keyboards, and mouse are sent for scrap.

Type of waste – Hazardous waste

Approximate annual quantity- None, Because no chemical laboratory or any hazardous waste found in the campus.

Source of waste - NA

Handling methods- NA

Measures to reduce the waste quantity- NA

Type of waste – Garden waste

Approximate annual quantity- No data found

Source of waste - Tree/Plants, flowers, grass, etc.

Handling methods- The seeds are used to germinate and reproduce the flower seeds and plants. Rest of the plants is used for creating manure through Vermi-compost. **Measures to reduce the waste quantity-** Local people take out the grasses to feed animals.
Type of waste – Food waste **Approximate annual quantity-** No data found **Source of waste –** No canteen in the college as such minimum waste in the college. **Handling methods-** Food waste in the women's hostel is used for feeding cattle nearby the hostel. The wastage of vegetables is used for creating manure through Vermi-compost. **Measures to reduce the waste quantity-** The hostel management tries to ensure minimum wastage in food with preparation of food in calculated way. The students and wardens are made conscious about the value of food and motivated to towards minimum food wastage. The cooks are asked to be very sincere with regard to quantity and quality of food to minimize the wastage.

COMPOSTING PLANT

How much organic waste is generated in a day? What type of organic waste is generated?	No record found
Details & capacity of compost plan installed in the organization.	Not available
Details of composting method used	The biodegradable waste includes food items, vegetable and fruit peels, leaves, flowers, water, etc. Simple steps have been taken to manage this waste and reuse it for organic purposes. Food waste, canteen waste, and garden waste are first segregated into compost bins installed in the canteen area.
Compost facility maintenance & inspection plan	Not available

Related images:

Observations:
There is no compost plant installed on the campus. The organic waste is taken out of the college and sent to the compost plant located near the college. It is recommended that college adopt a proper composition method for complete decomposition. The institute can install a decomposition machine on is campus for safe composting and sustainability.

RAINWATER HARVESTING

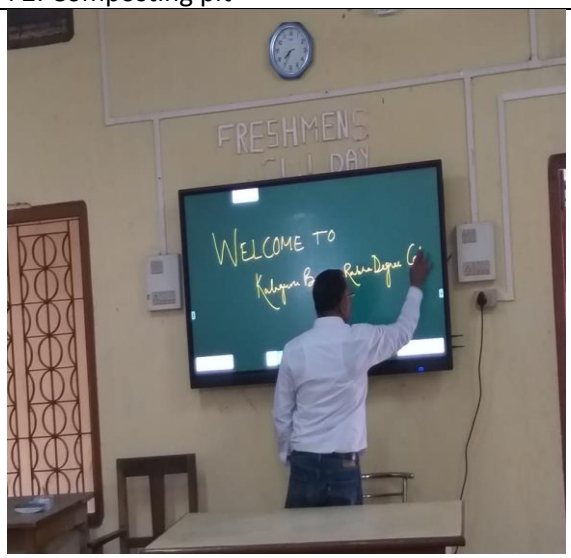
Provide details of the rainwater harvesting facility.	No rainwater harvesting system installed by the institute.
Rainwater harvesting system maintenance plan	NA

Observations:
There is no rainwater harvesting system at the college. It is recommended that the college install a rainwater harvesting system on its campus.

Training	
Has the organization provided waste management/handling training to concerned employees. Give details.	No
Has the organization provided training for energy saving?	Yes, institute provide the training to the students, staff as per National Service Scheme. Reference doc pic no.: F7, F8
Has the organization conducted training for solid waste management?	No
Has the organization conducted awareness training for water saving?	Yes, institute provide the training to the students, staff as per National Service Scheme. Reference doc pic no.: F7, F8

Environmental Practices	
Waste recycling	Different dustbins are provided. Reference doc/pic no.: F1
Waste Decomposition	Yes, there are composting pits in the campus for decomposition of organic waste. Reference doc/pic no.: F2
Rainwater harvesting	No rainwater harvesting system is installed in the campus.
Environmentally Preferable Purchasing (EPP) or Green Purchasing	No record found
Distinct receptacles for trash and recycling	No
Low-emission transportation	Yes
maximum use of clean energy	Yes, solar plant installed in the campus and all electricity requirement fulfill by the solar panels within the campus. Reference doc/pic no.: F3
Preference to electronics over the paper	Yes, LCD Panel boards are used for classes lectures. Reference doc/pic no.: F4
Campus garden	Yes Reference doc/pic no.: F5, F6

Related images:

	
F1: Separate bins for safe disposal	F2: Composting pit
	
F3: Solar Panels	F4: LCD Boards

F5: Campus Garden

F6: Campus Garden

F7: NSS Training Program

F8: NSS Training Program

Environmental Initiatives / Green Initiatives

- Kalaguru Bishnu Degree College has installed solar panels on their campus for energy efficiency. Solar power reduces operating costs for the institute and provides unlimited and reliable energy.
- The college conducts plantation drives and awareness programs to educate students on the Importance of a sustainable and clean environment.
- The college is using bamboo dustbins as an initiative over the use of plastics dustbins.
- The college is going for zero emissions and plans to move the parking outside its campus.
- The college takes part in the programs conducted by the government, such as Chief Minister's Institutional Plantation Program as a green initiative.

Related records / images

Solar Panels installed in the campus

Tree Plantation Program

National Service Scheme Awareness Program

Bamboo dustbins

Green Belt/ Landscaping	

Biodiversity

Name of Auditor: Ramit Jagota

Signature: