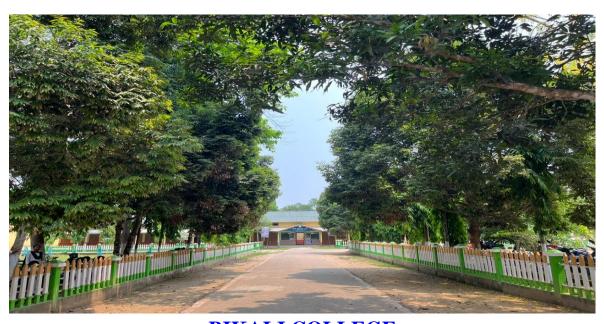
GREEN AND ENVIRONMENT AUDIT (2022 - 2023)

FOR



BIKALI COLLEGE DHUPDHARA, KAMRUP, ASSAM-783123

Conducted By



ENVIRO-TESTING-SERVICES
NOONMATI, GUWAHATI-781020, ASSAM
MAY -2023

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Guwanan			Doc: GEA Repo	rt
ENVIRO-TESTING-SERVICES Guwahati		Audit	dated 28/05/2023	3
ETS,	A Report on	Green and Environment	Job No. :ETS/BC	C/GEA/ 01
No.	Date	Description	Checked	Approved
01	28-05-2023	Issued For Bikali College Dhupdhara, Kamrup, Assam-783123	A TONG	ING COOR THE WATER AND THE WAT



Accredited by NABL, SPCB Assam, ISO 9001, ISO 45001, MSME

Bijoy Nagar, House No – 35, Noonmati, Guwahati –781020, Assam

Telephone: 91(0) 3612551788, 919435492765, Email: envirotesting2011@gmail.com

Ref: ETS/BC/GER/01/2023 Date: 28th May 2023

COMPLETION CERTIFICATE

This is a Green and Environment Audit report compiled on the basis of field survey and field

investigation of various environmental components such as Land Use Land Cover, Micro

meteorological Quality, Ambient Air Quality, Drinking Water Quality, Soil Quality, Noise

Quality, Illumination Level, Carbon Footprint, Flora, Fauna along with environmental and

Energy management practices.

The present work was carried out at the request of the Principal, Bikali College, Dhupdhara,

Kamrup, Assam-783123 vide order number BC /Green & Environment Audit /Invitation/2022

Dated 20.02.2022. The findings of the study carried out during the period of March 2022 to April

2023 are presented in this report. All the Analysis of Environmental Quality Parameters is done

at the laboratories of Enviro Testing Services, Noonmati, Guwahati. The Laboratory is duly

recognised by NABL, State Pollution Control Board, Assam, ISO 9001:2015; ISO 14001:2015

and MSME.

Date: 28.05.2023

For Enviro Testing Services

SESTING SERVER

(Dr. Hrishikesh Sarma)

Ex. Director, ETS, Guwahati

i

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We would like to convey our sincere thanks to Rakhee Naiding, Coordinator, IQAC and all the Heads of the various Departments of Bikali College for giving us necessary inputs to carry out this very vital exercise of Green and Environment Audit.

We would like to convey Our thanks to Dr. Bonti Bordoloi, Convener, Green Campus Committee for her constant co-operation and help during the study period.

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We are also thankful to office staff and other members who were actively involved while collecting the data and conducting field survey

Date: 28.05.2023

For Enviro Testing Services

(Dr. Hrishikesh Sarma) Ex. Director, ETS, Guwahati

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1.0 Introduction of the Institute

1.1 Brief Introduction of the Institute

Bikali College, located in Dhupdhara, Assam, is a renowned institution of higher education with a history deeply rooted in the dreams and aspirations of 52 villages within the "Bikali Mouza" region. Established on April 14, 1982, this institution is a testament to the relentless efforts and missionary zeal of the local communities to provide their children with access to higher education. Over the years, Bikali College has evolved into a prominent educational hub, serving as a symbol of hope and opportunity for the youth of the region, equipping them with knowledge and empowering them to pursue their dreams.

Bikali College, currently affiliated with Gauhati University, offers a diverse range of academic programs. It provides bachelor's degree courses in Arts, Science, and Commerce, as well as postgraduate Master's degree programs in Assamese and Geography. In addition to these offerings, the college extends certificate courses in Higher Secondary education across all three streams under AHSEC (Assam Higher Secondary Education Council). The Arts stream of the college became a part of the Deficit Grants-in-Aid scheme of the government of Assam in 1992, eventually being provincialized in 2005. Furthermore, Bikali College achieved UGC recognition under sections 2(f) and 12(B), effective from the 10th Plan. Notably, the Commerce and Science streams were introduced as self-financing courses in the years 2005 and 2015, respectively, further diversifying the educational opportunities available at the institution.

Bikali College offers a comprehensive learning environment equipped with modern facilities to enhance students' educational experiences. The institution boasts ICT-enabled classrooms, a well-equipped computer laboratory, a central library with internet access, a digital library, and advanced seminar and conference halls, all of which contribute to a dynamic and interactive learning atmosphere. Furthermore, to foster students' hidden talents and promote co-curricular and extracurricular activities, the college provides indoor and outdoor sports facilities, gymnasium halls, literary and academic societies, as well as opportunities for participation in organizations such as NCC, NSS, Scouts & Guides. Beyond academics, the college's serene and environmentally conscious campus environment complements its commitment to holistic education.

1.2 Location:

Location Rural, Tribal Campus Area 15.99 acres

Built Up Area 33452 Sq. mtrs

1.3 Physical structure:

Total No of Departments 14 Auditorium 2 Hostel 3 Cafeteria 1 Gymnasium 1 Libraries 1

1.4. Student, Teachers and Employees strength:

Total No of Students 1490 Total No of Teachers 53

Total No. of Employees 6

2.0 Brief Outlines of Green Audit

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of organization. It aims to analyse environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere.

Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus, it is imperative that the college evaluate its own contributions toward a sustainable future.

As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more predominant. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO₂ from the environment.

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Green Audit is assigned to the Criteria 7 of NAAC, which is a selfgoverning organization of India that accredits the institution according to the scores assigned at the time of accreditation. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

3.0 Objective of Green Audit

- (i) Landuse & Built-up Environment
- (ii) Geographical Location with Campus Map
- Present status of Micro meteorology, Ambient air, Noise, Soil quality, Water quality (iii) & Illumination Level
- (iv) Floral and Faunal diversity
- Management Practices with respect to Water, Waste and Energy (v)
- (vi) Carbon footprint
- (vii) Organizational Level Efforts

4.0 Methodology

Methodology includes

- (i) Physical inspection of the campus
- (ii) Collection of Primary & Secondary Data
- (iii) Observation and review of the documentation
- (iv) Data analysis

5.0 Objective wise Analysis

5.1 Landuse & Built-up Environment

The land use and land cover distribution of Bikali College's campus area has been meticulously examined through a comprehensive methodology. It encompasses area about 64709 sq. mts. and total built-up area is 33452 sq.mts. Each distinct feature within the campus are as follows

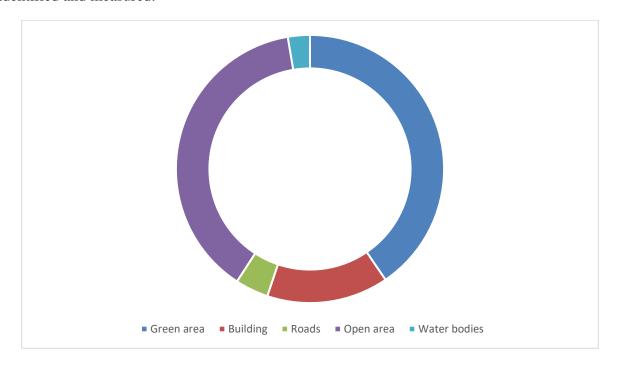
Green Area: This category, constituting 45% of the campus area, encompasses lush vegetation, including forest, nursery, and medicinal garden.

Building: Occupying 15% of the campus area, the built environment comprises academic structures, administrative buildings, an indoor stadium, a canteen, and student accommodations.

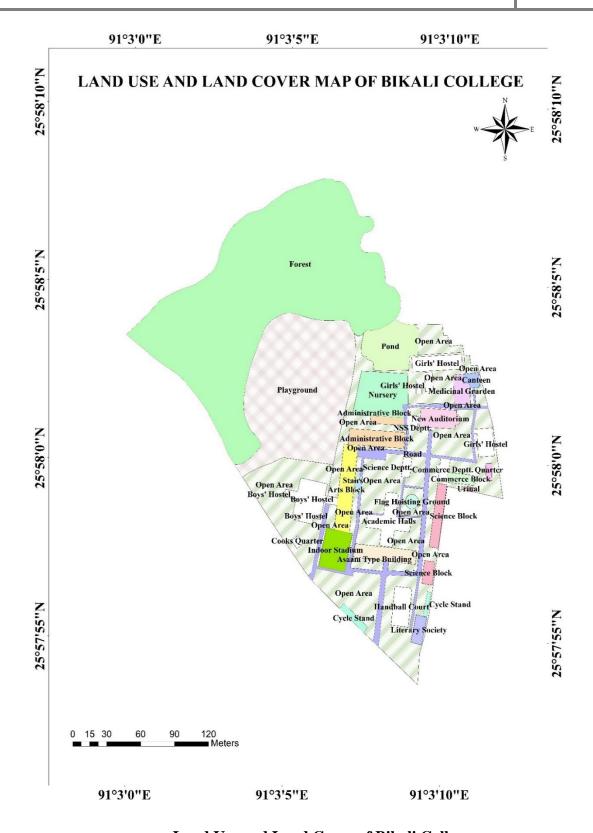
Roads: Comprising 4% of the campus area, comprising pathways and paved surfaces of college.

Open Area: Encompassing 33% of the campus, open spaces were delineated to include courtyards, playground, and undeveloped land.

Water Bodies: Constituting 3% of the campus area, water bodies such as ponds were carefully identified and measured.



Different land use classes at Bikali College

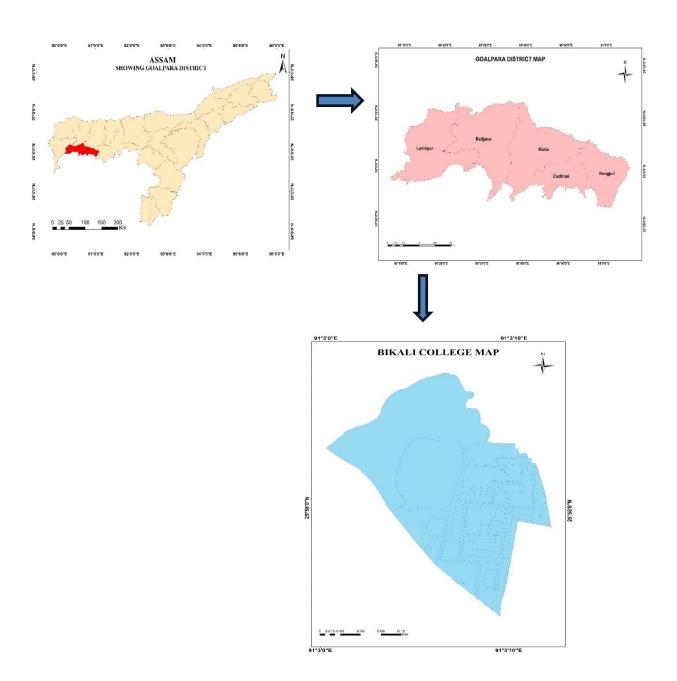


Land Use and Land Cover of Bikali College

5.2 Geographical Location with Campus Map

Bikali College is situated at Dhupdhara, Assam-783123 with geo-position

Latitude 25.966822⁰ N Longitude 91052253 E



Locational Map of Bikali College

















Glimpses of Bikali College

5.3 Present status of Micrometeorology, Ambient air, Water quality and Soil Quality

5.3.1 Micrometeorology Status

Monitoring Station	Date	GPS Coordinate	
Micrometeorology	25.03.2023	N 25.964852° E 91.052722°	

 ${\bf Table}\ 1: {\bf Micrometeorological\ Study\ at\ Bikali\ College}$

S/N	Parameters	Unit	Metrological Data		
1	T		Min	16	
1	Temperature	°C	Max	32	
2	Deletine Housi dian		10.30am	71	
2	2 Relative Humidity	%	16.30pm	78	
3	Wind Speed		10.30am	3.6	
3	Wind Speed	Km/hr	16.30pm	9.8	
4	Wind Direction		10.30am	SE	
4	4 Wind Direction	Wind Direction _	16.30pm	SSW	

5.3.2 Ambient Air Quality

The average results obtained in the month of March 2023 at Bikali College are presented in Tables 2. All the results meet the National Ambient Air Quality (NAAC) standards.

Monitoring Station	Date	GPS Coordinate	
Ambient Air Quality	25.03.2023	N 25.964852°	E 91.052722°

Table 2: Ambient Air Quality at Bikali College

	AMBIENT AIR QUALITY					
	Duration (24 Hour)		Average			
S/N	Parameters	Unit	Concentration	Limit	Weather Condition*	Test Method
1	Particulate Matter (PM10)	μg/m³	68.4	100		IS5182(23)
2	Particulate Matter (PM2.5)	μg/m ³	44.1	60		CPCB Guideline
3	Sulphur Dioxide (SO ₂)	μg/m ³	7.4	80		IS5182(2)
4	Nitrogen Dioxide(NO ₂)	μg/m³	8.1	80	Clear	IS5182(vi)
5	Ammonia (NH ₃)	μg/m³	3.8	400		Indophenol Blue Method
6	Hydrocarbon (HC)	mg/m ³	0.31	-		CPCB Guideline
7	Carbon Monoxide (CO)**	mg/m ³	0.21	04		CPCB Guideline

^{**} Carbon Monoxide (CO) Limit is One Hour Average

5.3.3 Noise Quality study

In the present study, the noise level measurements were recorded using a precision sound level meter (Envirotech SLM100) with a measuring range between 0-150 dB. The instrument is calibrated before the measurements are recorded. The microphone was placed at 1.0 m from the facades of house, away from any reflecting surface and 1.2 m above the ground. In each location, adequate number of samples was taken at 10-minute intervals. The noise levels were recorded during day time and meteorological conditions: no wind no rain. The Noise Level Monitored (Table 3) and analyzed is found to be within the CPCB Prescribed Limit

Table 3: Noise Quality at Bikali College

S/N	Locations	GPS Co-ordinate		-	e SPL(dB) to 10 pm]	CPCB Limit SPL(dB)
				Leq	Range	
1	College Main Gate	N 25.966822°	E 91.052436°	65.2	62.1-74.3	
2	Near ADM Block	N 25.966865°	E 91.052465°	61.2	59.2-68.3	
3	General Library	N 25.966824°	E 91.052236°	56.7	39.3-58.1	
4	Computer Lab	N 25.966824°	E 91.052236°	58.2	46.2-52.8	75
5	Class Room BA	N 25.966861°	E 91.052436°	61.1	49.5-68.2	
6	Class Room No-1	N 25.960937°	E 91.049785°	58.7	42.3-58.5	
7	Class Room No- 4	N 25.966774°	E 91.052161°	62.2	59.2-72.3	
8	Near College Canteen	N 25.966822°	E 91.052253°	58.6	46.6-64.3	

5.3.4 Drinking Water Quality

Drinking Water and Pond Water samples were collected from various locations of Bikali College and the sampling locations are as follows

Sr.No.	Sampling Locations of Drinking Water Facility	GPS Co-ordinate	
1	Inside college drinking water facility (DW1)	N 25.966865°	E 91.052465°
2	Girls Hostel drinking water facility (DW2)	N 25.966822°	E 91.052436°

Results of analysis of the most relevant water quality parameters are given in Tables 4. The test method for all the parameters along with tolerance limit as suggested by IS-10500 is presented in Table 3. All the parameters with respect to drinking water quality are found to be within the tolerance limit as suggested by IS: 10500.

Table 4: Various Test Methods of Water Quality Monitoring at Bikali College

S/N	Parameters	Test Methods	IS-10500
1	Odour	APHA 20 th Edition, 2150 B	Unobjectionable
2	Temperature (°C)	Thermometry Method	50
3	Turbidity (NTU)	APHA 20th Edition, 2130B	5
4	рН	APHA 20th Edition, 4500-	6.5 - 8.5
5	Conductance (mS/cm)	APHA 20 th Edition, 2510B	-
6	Total Dissolved Solid (mg/L)	APHA 20th Edition, 2540 B	500
7	Total Suspended Solid (mg/L)	APHA 20 th Edition, 2540 B	-
8	Chloride (mg/L)	APHA 20th Edition, 4500-	250
9	Residual Chlorine (mg/L)	APHA 20th Edition, 4500-	0.2
10	Sulphates as SO ₄ (mg/L))	APHA 20th Edition, 4500-	250
11	Nitrate (mg/L)	APHA 20th Edition, 4500-	45
12	Fluoride (mg/L)	APHA 20 th Edition, 4500-F	1
13	Calcium (mg/L)	APHA 20th Edition, 3500 B	75
14	Magnesium (mg/L)	APHA 20 th Edition, 3500 B	-
15	Iron (mg/L)	APHA 20th Edition, 3111 B	0.3
16	Manganese	APHA 20 th Edition, 3111 B	0.1
17	Zinc	APHA 20th Edition, 3111 B	5
18	Arsenic	APHA 20 th Edition, 3112 B	0.01
19	Total Coliform (MPN/100 mL)	APHA 20th Edition, 3111 B	0
20	Faecal Coliform (MPN/100 mL)	APHA 20th Edition, 9221 E	0

 Table 5 : Results of Water Quality Monitoring at Bikali College

S/N	Parameters	Unit	DW1	DW2
1	Odour		NS	NS
2	Temperature (⁰ C)	°C	27	27
3	Turbidity (NTU)	NTU	0.3	0.4
4	рН	-	7.1	7.2
5	Conductance (mS/cm)	mS/cm	0.48	0.73
6	Total Dissolved Solid (mg/L)	mg/L	69.0	74.0
7	Total Suspended Solid (mg/L)	mg/L	24.0	54.0
8	Chloride (mg/L)	mg/L	21.1	22.3
9	Residual Chlorine (mg/L)	mg/L	< 0.01	< 0.01
10	Sulphates as SO ₄ (mg/L))	mg/L	9.6	16.2
11	Nitrate (mg/L)	mg/L	7.6	8.1
12	Fluoride (mg/L)	mg/L	0.23	0.18
13	Calcium (mg/L)	mg/L	24.1	22.4
14	Magnesium (mg/L)	mg/L	26.2	24.2
15	Iron (mg/L)	mg/L	0.18	0.21
16	Manganese	mg/L	0.002	0.003
17	Zinc	mg/L	0.02	0.04
18	Arsenic	mg/L	<0.001	<0.001
19	Total Coliform (MPN/100 mL)	mg/L	03	03
20	Faecal Coliform (MPN/100 mL)	mg /L	Nil	Nil

5.3.5 Quality of Soil in the Study Area

Soil sample collected locations of the study area is as follows.

Sr.No.	Sampling Locations	GPS Co-ordinate		
1	Inside the College Campus	N 25.966822°	E 91.052253°	

It was analyzed for the most relevant physical and chemical parameters. It may be noted from the results of analysis that many of the soil samples have slightly acidic pH . The presence of N, P, K and organic matter content is considerable for all the locations.

Table 6: Results of Soil Quality Monitoring at Bikali College

S/N	Parameters	[S1]
1	PH (1: 2)	6.8
2	Conductance (ms)	0.43
	Sand (%)	83.7
3	Silt (%)	1.7
	Clay (%)	14.6
4	Water Holding Capacity (%)	46.2
5	Bulk Density (gcm ⁻³)	1.6
6	Cation Exchange capacity (meq/kg)	0.36
7	Nitrogen (%)	0.08
8	Potassium (mg/kg)	18.2
9	Sodium (mg/kg)	23.1
10	Calcium (g/kg)	19.8
11	Magnesium (mg/kg)	36.2
12	Phosphorous (mg/kg)	16.8
13	Organic matter (%)	1.17
14	Sodium Absorption Ratio (SAR)	1.8
15	Zinc (mg/kg)	16.1
16	Copper (mg/kg)	4.8

5.3.6 Illumination Study

Adequate, well-balanced levels of illumination are essential in establishing safe and productive working conditions. Good lighting plays an important role in safeguarding health at work by enabling employees to perform their work comfortably and efficiently. Accordingly, there should be an appropriate level of the light falling on the surface on which workers are working. Excessive contrast, strong glare and light flickering in their fields of vision are also inappropriate.

To ensure good lighting the person responsible for a workplace should arrange for a suitable assessment on the lighting levels in the workplace. Good lighting can decrease errors by 30-60 % as well as decrease eye-strain and the headaches, nausea, and neck pain which often accompany eyestrain.

The Lux Levels were measured during day time in the college campus as well as in the office In this present study the Installed load Efficacy Ratio (IIER) are calculated as per BEE Lighting Code.

1	A	В	C	D
2		Equation	Value	Unit
3	Time of Measurement		Day time	
4	Room Identification			
5	Number Of lamps			
6	Length of the room			m
7	Width of the room			m
8	Floor Area	A=Length*Width		m^2
9	Height of the lamp from the Plane of measurement			m
10	Room index	(L*W)/Hm*(L+W)		
11	Average room illuminance	(Max+Min.lux)/2*Correction factor		lux
12	Measured/estimated circuit power			W
13	Installed lighting Efficacy	(Avg.illum*Floor area)/Circuit watts		lm/W
14	Target lighting efficacy			lm/W
15	Installed lighting Efficacy ratio (ILER)	Installed lighting efficacy/Target lighting efficacy		

Installed lighting Efficacy ratio (ILER)	Assessment
0.75 or above	Satisfactory to good
0.51 to 0.74	Review suggested
0.5 or less	Urgent action required

Table 7: Results of Installed lighting Efficacy ratio (ILER) at B P Chaliha College

S/N	Location	GPS Co-ordinate		ILER	Assessment
1	ADM Block	N 25.966865°	E 91.052465°	2.74	Satisfactory
2	General Library	N 25.966824°	E 91.052236°	3.16	Satisfactory
3	Computer Lab	N 25.966824°	E 91.052236°	2.28	Satisfactory
4	Class Room BA	N 25.966861°	E 91.052436°	2.76	Satisfactory
5	Class Room No-1	N 25.960937°	E 91.049785°	2.36	Satisfactory
6	Class Room No- 4	N 25.966774°	E 91.052161°	2.27	Satisfactory
7	Practical Room	N 25.966822°	E 91.052253°	2.18	Satisfactory
8	College Canteen	N 25.966822°	E 91.052253°	2.38	Satisfactory





Ambient Air Monitoring at Bikali College





Noise Monitoring at College Premises





Illumination Study at different locations of Bikali College

5.4 Floral and Faunal diversity

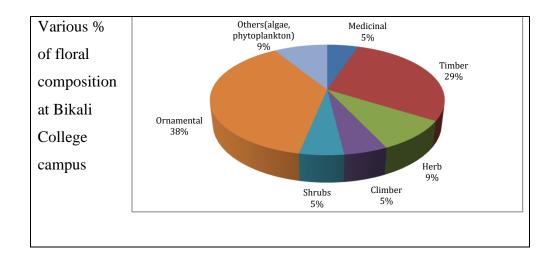
5.4.1 Floral Biodiversity

The survey was conducted in the month of February and March 2023 following the Quadrat sampling procedure. The college campus is very rich from biodiversity point of view. Different economically important plants like timber yielding plants, medicinal plants, ornamental plants etc. are found in college campus. In the study area the vegetation is a complex of plant communities with considerable diversities. Since the plants showed normal and very good growth, there appears to be no adverse environmental factors prevailing in the area.

Plants of all types, in general, showed healthy and luxuriant growth in terrestrial, aquatic and aerial habitats in the study areas. Leaf diseases (leaf spot and shot-holes) on the aerial parts of the plants were very infrequently observed and did not show any adverse effect on the growth of the plants.

In this present study, different types of flora along with the total of species of the respective flora identified in the college campus are as follows.

Different types of flora	Total Number of Individual species
Medicinal	133
Timber	747
Fruits	88
Herb	236
Climber	132
Shrubs	134
Ornamental	984
Others(algae, phytoplankton)	230



List of Plants at Bikali College Campus are presented in Table 7 - 13

Table 7 : List of Timbers at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Shorea robusta	Sal	20	Vulnerable
2	Tectona grandis	Segun	4	Endangered
3	Magnolia champaca	Titachopa	6	Endangered
4	Neolamarckia cadamba	Kadam	2	Least concern
5	Ficus benghalensis	Bot gos	3	Least concern
6	Dalbergia sissoo	Sisu	5	Vulnerable
7	Grevillea	Silver oak	1	Endangered
8	Gmelina arborea	Gomari	3	Least concern
9	Pelthophorum pterocarpus	Copper pod	3	Critically endangered
10	Delonix species	Gulmohor	5	endemic
11	Artocarpus Hetrophyllus	Kothal	2	Least concern
12	Ficus Relegiosa	Aahat	3	Least concern
13	Schima wallichi	Makri sal	690	Rare

Table 8: List of Medicinal Plants at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Terminalia chebula	Xilikha	3	Least concern
2	Azadirachta indica	Neem	18	Least concern
3	Aquilaria malaccensis	Agarwood	4	Endangered
4	Oroxylum indicum	Dingdinga	2	Endangered
5	Terminalia arjuna	arjun	3	Endemic
6	Ptercarpus santalinus	Ronga sondon	2	Vulnerable
7	Nyctanthes arbor tristis L	Sewali phul	3	Endemic
8	Aloevera	Aloevera	30	Vulnerable
9	Catharanthus roseus	Nayantora	18	Endemic
10	Murrya koenigii	Narasingha	5	Endangered
11	Paederia foetida L.	Bhedailota	33	Vulnerable
12	Swertia chirayita	Chirota tita	12	Critically endangered

Table 9: List of Shrubs at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Moris spp.	Mulbery	5	Rare
2	Solanum indicum L.	Tit bhekuri	10	Least concern
3	Habiuscus rosa sinensis	Jobaful	25	Least concern
4	Catheranthus roseus	Nayantora	20	Vulnerable
5	Curpessus macrocarpa	goldcrest	50	rare
6	Raulfia sarpentina	Sarpagandha	10	Vulnerable
7	Nerium oleander	korobi	2	Vulnerable
8	Mussaenda erthyrophylla	Ashanti blood	12	Vulnerable

Table 10 : List of Herbs at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Chenopodium album L.	Bhatua/Jilmil	30	Rare
2	Centella asiatica	Bor manimuni	20	endemic
3	Amaranthus virdis L.	Khutura sak	20	Least concern
4	Hydrocotyle sibthorpioides	Xaru manimuni	22	Least concern
5	Houttuynia cordata	Masundari	4	Rare
6	Leucas plukenetii	Doron xak	50	Least concern
7	Mentha virdis L	Pudina	10	Vulnerable
8	Oxalis corniculata	Tengesi	30	Vulnerable
9	Zoysia japonica	Duboribon	50	Least concern

Table 11: List of Climbers at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Tinospora cordifolia	Giloi	50	Rare
2	Piper betle L.	Pan	3	Least concern
3	Cuscata	Amarbel	20	Least concern
4	Cucurbita pepo	Ronga lau	5	Least concern
5	Mikania micrantha	Assamlota	50	Vulnerable
6	Hiptage benghalensis	Madhobilota	2	Endangered
7	Clitoria ternatea	Aparajita	2	Endangered

Table 12: List of Ornamental Plants at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Monoon longifolium	Debadaru	220	Least concern
2	Delonix Regia	Krishnachura	6	Vulnerable
3	Caesalpinia pulcherrima	Radhachura	3	Vulnerable
4	Mesua ferrea L.	Nahar	9	Least concern
5	Cassia Fistula	Sonaru	2	endangered
6	Mimusops elengi L.	Bokul	4	Least concern
7	Acacia auriculiformis	Acacia	1	Least concern
8	Polyalthia longifolia	Heujiya Champa	1	Threaten
9	Senna siamea	Sia Sonaru	7	rare
10	Millettia pinnata	Korsowa	50	Least concern
11	Thuja	Morpangkhi	19	endangered
12	Garden Corton	Corton	195	threaten
13	Morutious hemp	Furcarea	3	Data deficit
14	Syzygium gratum	Syzygium	123	Vulnerable
15	Duranta Erecta	Bogan kait	6	endangered
16	Bougainvillea	Kagaj phul	10	Vulnerable
17	Aralia spp.	Green araliya	243	rare
18	Euphorbia tithgmaloides	Euphorbia	9	Threaten
19	Tabernabmontana divaricata	kasanda	36	Vulnerable
20	Hibuscus rosa sinensis	China Rose	11	Vulnerable
21	Cycads	cycas	7	rare
22	Epipremnum aureum	money plant	1	Least concern
23	orchid	kopou	1	endangered
24	Cascabela thevetia	Luckynut	1	endangered
25	Magnolia champaca	Gulmohor	1	Crictically endangered
26	Pinus roxburgii	Pine	10	Threaten
27	Solenostemon scutellarioides	-	5	Least concern

Table 13: List of Fruit Plants at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Mangiifera indica	Aam	3	Least concern
2	Phyllanthus emblica L. (Euphorbiaceae)	Amlokhi	3	Vulnerable
3	Zizyphus jujuba	Bagori	3	Least concern
4	Cocos nucifera	Narikol	15	Least concern
5	Psidium guajava	Guava	7	threaten
6	Malus pumila	Apple	5	Threaten
7	Citrus limon	Lemon	25	Vulnerable
8	Manilkara zapota	Siku	4	Threaten
9	Flacourtia jangomas	Ponial	2	Vulnerable
10	Elaeocarpus floribundus	Jolphai	4	Crictically endangered
11	Carica papaya L	Amita	2	Least concern
12	Syzygium samarangense	Water apple	10	endangered
13	Averrhoa carambola L	Kordoi	5	Least concern

Table 14: List of others Plants (algae, phytoplankton) at Bikali College

Sl No.	Scientific Name	Local Name	No.s of individual Species	Ecological Status
1	Nitella flexilis	Xelai	40	Endangered
2	Volvox spp.	volvox	40	Least concern
3	Chara spp.	chara	50	Least concern
4	Bryophyta	moss	100	Vulnerable



Few Photographs of Floral Diversity at Bikali College

5.4.2 Faunal Biodiversity

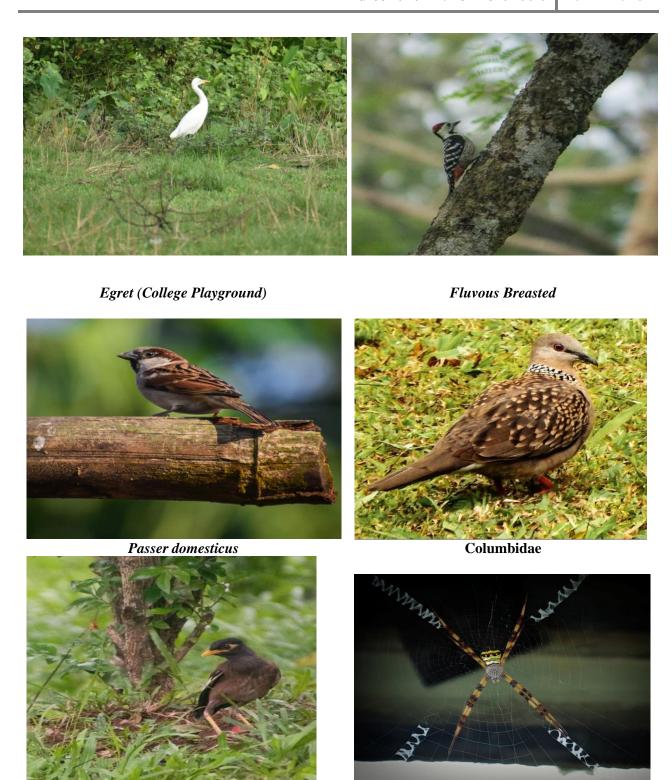
In view of the need to determine the faunal characteristics of the study areas within the constraints of time, a checklist survey method was followed. Checklist surveys are employed primarily to confirm the presence of species, and sometimes the number of individuals of species in a surveyed area.

Either invertebrates or vertebrates, the variety of animals enriched the region with its ecological significance and balancing the ecosystem. Bikali College campus has variety of faunal species including different kinds of amphibia, birds, reptiles and few mammals.

The survey was conducted during February – March 2023. A large number of different species were recorded in the Bikali College Campus. The faunal biodiversity recorded in the college campus is presented in the Table 12.

Table 15 : Faunal biodiversity recorded in the college campus

Ecological Status	No.s of individual Species
Critically endangered	4
Data deficit	1
Endemic	5
Rare	9
Threaten	7
Endangered	15
Least concern	30
Vulnerable	22
Total	93



Acridotheres tristis Argiope florida

Few Photographs of Faunal Diversity at Bikali College

Table 16: List of Birds (Aves) species recorded within College Campus

SL	Species Name	Common Name	IUCN Status (V-3.1)
No.			
1.	Ardea alba	Greater Egret	LC
2.	Dendrocopos macei	Fulvous-breasted woodpecker	LC
3.	Passer Domesticus	House Sparrow	LC
4.	Acridotheres tristis	Common Myna	LC
5.	Coppersmith barbet	Barbet bird	LC
6.	Athene brama	Spotted owlet	LC
7.	Alcedo atthis	Common kingfisher	LC
8.	Eudynamys scolopaceus	Asian Koel	LC
9.	Dicrurus macrocercus	Black Drongo	LC
10.	Columba livia	Pigeon	LC
11.	Anas platyrhynchos	Mallard Duck	LC
12.	Halcyon smyrnensis	white-breasted kingfisher	LC
13.	Motacilla alba	white wagtail	LC

Table 17. List of Insects species recorded within College Campus

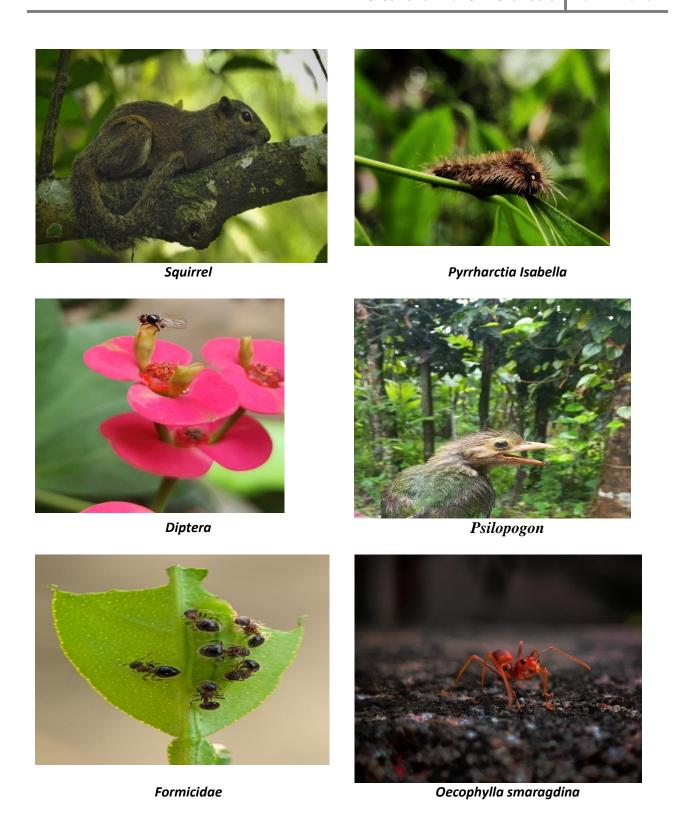
SL	Species Name	Common Name	IUCN Status (V-3.1)
No.			
1.	Agriocnemis lacteola	Milky midget	LC
2.	Junonia almana	Peacock pansy	LC
3.	Melanitis leda	common evening brown	
4.	Apis dorsata	Honey bee	LC
5.	Argiope florida	Florida garden spider	LC
6.	Junonia Atlites	Grey Pansy	LC
7.	Oecophylla smaragadina	Asian weaver ant	LC
8.	Papilio polytes	common Mormon	LC
9.	Pyrops candelaria	Litchi bug	LC
10.	Potamarcha congener	Dragon fly swampwatcher	LC
11.	Culicidae	Mosquito	LC
12.	Periplaneta americana	American cockroach	LC
13.	Musca domestica	Housefly	LC
14.	Coccinellidae	Lady bug	LC
15.	Chilopoda.	House Centipede	

Table 18: List of Ornamental Fish species available in Aquarium House and Aquariculture centre, Bikali college.

SL	Species Name	Common Name	IUCN Status
No.			
1.	Cyprinus rubrofuscus	Milky carp	LC
2.	Puntigrus tetrazona	Tiger barb	LC
3.	Pterophyllum	Angel Fish	LC
4.	Betta splendens	Betta fish	LC
5.	Trichogaster fasciata	Dwarf Gourami	LC
6.	Colourful Neon Glowing Fish		
7.	Mystus Tengera	Tengra fish	LC
8.	Monopterus cuchia	Cuchia	LC
9.	Botia derio	Boita fish (queen loach)	LC
10.	Puntius ticto	Twospot barb	LC
11.	Xenentodon cancila	Garfish	LC
12	Ctenops nobilis	Gourami	LC
13.	Oranda	Gold fish	LC
14.	Shubunkin	Gold fish breed	
15.	Butterfly fish		

Table 19: List of Reptiles and Amphibians recorded within College Campus

SL	Species Name	Common Name	IUCN Status (V-3.1)
No.			
1.	Argyrophis diardii	Diard's blind snake	LC
2.	Amphiesma stolatum	Buff striped keelback snake	LC
3.	Naja naja	Indian cobra	LC
4.	Ptyas mucosa	Oriental rat snake	LC
5.	Enhydris enhydris	Rainbow water snake	LC
6.	Duttaphrynus melanostictus	Asian common toad	LC
7.	Chamaeleonidae	Chameleon	LC
8.	Hyla		LC



Few Photographs of Faunal Diversity at Bikali College





Anser Diptera



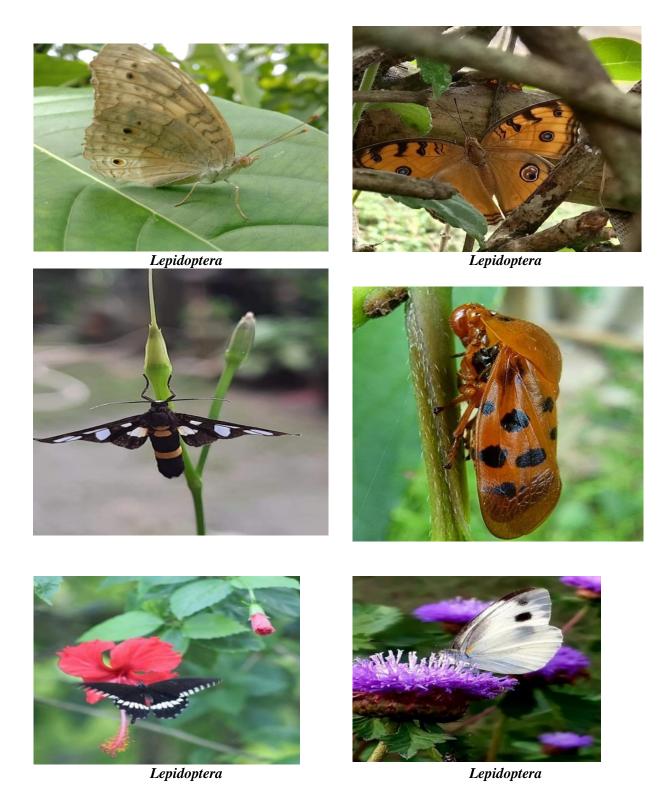


Heteropoda Venatoria



Dryocopus pileatus

Apis dorsata fabricus



Few Photographs of Faunal Diversity at Bikali College

Some of the few species found in the Bikali College Aquarium House



Dwarf gourami

Betta fish



Milky carp and Tiger barb fishes

Mystus tengera





A flock of beautiful Neon glowing fishes

Few Photographs of Faunal Diversity at Bikali College

5.5 Management Practices with respect to Water, Energy and Waste

5.5.1 Water Management Practices

- ➤ Water storage capacity =18700 liters
- ➤ Water tank cleaning = Twice a year
- ➤ Daily consumption of water =15000 liters

Water storage capacity

S/N	Location	Number of storage	Capacity
1	Academic Block	2	2000
2	New Girls Hostel	3	2000
3	Old Girls Hostel	1	2000
4	Old Girls Hostel	1	1000
5	Boy's Hostel	1	2000
6	Boy's Hostel	1	1000
7	Science Block	1	1000
8	College Canteen	1	1000
9	Commerce Block	1	700
10	Rain Water Harvesting Unit	1	2000



Observations

- No leaking taps, pipes, valves were identified in the college premise. (i)
- There are no any push button taps (ii)
- (iii) The college has set-up at present setup two rain water harvesting unit having 1000 Lt. capacity on the Academic building. The stored water is mainly used in gardening and many other purposes. College planning to setup more unit in the college campus.
- (iv) The college has optimized its irrigation system at night or early morning hours to minimize evaporation for gardening.
- Water escaping from overflows either inside or outside building was not (v) identified during onsite audit.
- College uses pond water for various agricultural activities (vi)

5.5.2 Energy Management Practices

- ➤ Electric Load = 34 KW
- Electric Bill paid for the period of 2022 -23 (Bill Attached) =Rs. 267136.00
- Electrical fittings in various buildings of Bikali College

Major Working Area	Luminaries used	Wattage
Class Room	LED Bulb/LED Tube	9W/20W
Library	LED Bulb/LED Tube	9W/20W
Office	LED Bulb/LED Tube	9W/20W
Conference hall	LED Bulb/LED Tube	9W/20W
IQAC	LED Bulb/LED Tube	9W/20W
Hostel	LED Bulb/LED Tube	9W/20W



Renewable Energy Facility at College

Observations:

- i) College has 20 kVA Diesel Generator set for uninterrupted power supply in case of supply failure from APDCL.
- There is minimum or practically negligible use of lights during day ii) time as the building structure has possibility of daylight usage
- iii) The lighting arrangements are well balanced with arrangements to switch ON and OFF
- The policy of college is switch off the lights and other electrical equipment when they iv) are not in use.
- v) Cleanliness is well maintained. In-house light fittings are cleaned time to time.
- Lights are negligibly operated during day time. The lights are operated vi) manually. There is no any sensor-based lighting system
- The college is utilising natural lighting as first preference vii)
- Computers, printers, photocopiers and other equipment are switched off viii) at the end of the day.
- The all the electrical equipment is well operated. The overall electrification system is ix) regularly monitored by a duly qualified electrician.
- Regarding the use of renewable energy college has installed solar panels system and X) few solar street lights
- xi) College Management is evaluating the feasibility of introduction of the solar PV generation.

5.5.3 Waste Management Practices

Waste can be solid as well as liquid. Solid waste can be further divided into

- Biodegradable- Like food waste, waste from toilets etc. (i)
- (ii) Non-biodegradable-Like Plastics, tins, glassware etc.

Along with these, there are some hazardous wastes generated from laboratories, and Ewaste (Computers, electric and electronic parts). Besides this, liquid waste is also there. The institute has over 2600 stakeholders which includes students, teaching staff and nonteaching staffs, thus a huge amount of waste is generated on a daily basis.

Sl/No.	Source	Type of waste	Approximate amount of waste generated per day
1.	Classroom,	Paper, pen,	
	staff room,	wrappers, plastic	
	Library	bottles etc	Biodegradable waste = 4.5 kg
			Non-biodegradable waste = 3.5 kg.
2.	Laboratories	Chemicals,	Liquid waste= 2.5 kL
		glassware, waste	E waste per annum = 15 kg
		water and solvents	
3.	Toilets	Sanitary napkins,	
		waste water etc.	
4.	Canteen	Disposable plates,	
		leftover food and	
		water, wrappers,	
		plastic bottles etc.	
5.	Office and	Papers, wrappers,	
	computer	plastics, paper	
	centre	pins, E-waste etc.	

Waste management practices adopted by the College

- 1. Solid waste generated in the campus
 - > dry and wet waste are collected in dustbins with two chambers which are placed in the library, teachers' common room, canteen, lecture hall, near classroom etc.
 - > Segregation of solid waste into dry and wet waste in different bins.
 - ➤ Waste disposal tanks are installed in different places
 - > Specific waste management plans are adopted to manage solid waste in the campus.
 - E-waste includes malfunctioning computer monitors, printers, scanners, calculators, keyboards, mouse, cables, circuit boards, bulbs etc. generated from campus is subjected to handover E-waste authorised agency

2. Toilet waste

- > Soak pits are available in toilets
- Toilet waste is connected to large tanks. These tanks are cleaned periodically.

3. Other waste

- > Sanitary napkins are subjected to burn in the incinerator.
- ➤ Leaf litters are used for vermicomposting.
- Waste like broken bulbs, tubes etc. which cannot be repaired are dumped temporarily at the dumping bin and later on disposed of to the authorised agency.





Vermi Compost unit and handmade dustbin at Bikali College

6.0 Carbon footprint due to Transport System

Emission of CO₂ through transport system – both public and private – is very high in India as India is credited with the third rank in carbon emission in this regard. It is estimated that in India, 9% of the total carbon is emitted by the transport system.

In Bikali College during survey, it was observed that on an average, there are 10 numbers of four wheelers are used by faculty while 200 number of two wheelers are used by students and staff. Further student uses bicycles 400 numbers. Most of the students as well as staff uses public transportation as well as walk. It is appropriate to calculate the petrol consumption separately for four wheelers and two wheelers.

The fuel consumption by vehicles is determined by the type of vehicle, year of manufacturing, maintenance status, traffic system of the particular area, etc. High-end and medium-range bikes consume different quantities of petrol.

Conversion table to calculate carbon emission by vehicles per litre is very complicated in view of the local variables to be taken for calculation. Instead, a simple but universally accepted calculation calendar for various types of fuels and their CO₂ conversion rate was adopted.

6.1 Emissions of CO₂ by transport system at Bikali College

It is estimated that the average mileage covered by two-wheeler vehicle	10 km per day
Total working days as per GU Academic Callender	200 days
The total mileage covered by the 200 number of two wheelers per year	400000 km
The average mileage covered by four wheelers is also the same	55 km per day
The total mileage covered by 10 four wheelers per year	110000 km
The total mileage covered by two and four wheelers per year	(400000+ 110000) = 510 000 km
The standard fuel consumption for two wheelers is taken	35 km / 1L of Fuel
The standard fuel consumption for Four wheelers is taken	15 km / 1L of Fuel
The total quantity of petrol consumed by 200 number Two Wheelers	11429 L
The total quantity of fuel consumed by 40 number four wheelers per year	7333 L
The total fuel consumption per year (Two+ Four) Wheelers	18762 L
Combustion of 1 litre of diesel/petrol leads to the emission of CO ₂	2.68 kg
The total quantity of CO ₂ emitted by 18762 litres of fuel per year	50282 kg

6.2 Flora and Carbon Footprint Reduction Carbon Absorption Capacity of Flora at Bikali College

The carbon footprint calculation is based on the following standard accepted assumptions

Total CO₂ absorption Capacity of Flora

Type of Tree	Total No. of Tree	Amount of CO ₂ absorption/ tree (kg)	Total CO ₂ absorption (kg)
Full Grown	1952	6.8	13274
Semi Grown	732	3.4	2489
	Total amount of car	bon absorption by Flora	15763

Oxygen Emission Capacity of Flora at Bikali College

Type of Tree	Total No. of Tree	Amount of O ₂ Emission / tree (kg)	Total O ₂ Emission (kg)
Full Grown	1952	117.6	229555
Semi Grown	732	58.8	43042
	Tot	al amount of Oxygen Emission by Flora	272597

SUM	IMARY OF CARBON	FOOTPRINT AT BIKA	ALI COLLEGE
Carbon Footprint (Tonnes) Reduction of Carbon Footprint by Floration (Tonnes)			
Total Carbon Footprint	Carbon Footprint per person	Total Carbon Sequestration Capacity	Total Oxygen Emission Capacity
50.3	0.0323	15.8	272.6

7.0. Organizational effort

S/N	Items	Responses
Orgai	nizational effort	
1	Is the college having campus green team?	Yes. Copy Attached
2	Have you established an environmental mission/vision for your campus	Yes. College has established Environment to make the students and teachers aware about the environmental issues and challenges. The college has organized several programmes addressing environmental awareness among students and community as well (e.g. World Wetland Day, 2 nd February; World Environment Day, 5 th June; World Wildlife Conservation Day, 4 th December; World Soil Day 5 th December).
3	College initiates any tree plantation programme	Yes. programme organized within and outside the college campus particularly on College Foundation Day and World Environment Day (5 th June)
4	How may numbers of existing of tree, shrubs and herbs species	Tree- 1952, Shrubs- 134 Herbs- 236
5	How may numbers of existing full-grown tree, semi grown trees	Full Grown - 1952 Semi Grown - 732
6	Is there any lawn in the college campus? If yes what is area	Yes
7	Is the college encouraging sustainable behaviour via: Education campaigns? Such as Posters, placards, Messages, incentives? Contests? awards?	Yes, College organized various programme encouraging sustainable behaviour such as World Environment day (5 th June), World Wetlands day (2 nd February), National Science day (28 th February), International Yoga Day (21 st June), World AIDS Day(1 st December), No Tobacoo Day (31 st May), Ekta Divas (31 st October); Wildlife Conservation Day (4 th December); World Soil Day (5 th December) and many more.

8	Is the college staff modelling sustainable behaviour for students, peers, and community?	Yes, College has been initiated various community development work in terms of education, health & hygiene, cleanliness, environmental education etc. in the near by villages.
9	Is the college having solar, wind, or other forms of renewable energy?	Yes
10	What are the good practices pertaining to Transport?	Encourage the use of public transport, Bicycle and awareness about the generation of carbon footprint.
11	What is the average number of vehicle movements in terms of two & Four wheelers	Two Wheelers: 200 -220 Four Wheelers: 10 – 15
12	Has the college initiated to reduce its carbon footprint	Yes, College has taken several initiatives to reduce total carbon footprint amount within the college campus.
13	Has the college adopted any specific measures to reduce pollution	To motivate students, social service competitions are being held on special occasion such as college week, environment day, Science Day, Azadi ka Amrit Mahotsav etc., where they are awarded for their active participation.
14	Environmental Policy of the College	 Commitment to environmental conservation and sustainability. Integration of environmental best practices into all aspects of college operations. Promotion of environmental awareness and education among the college community. Compliance with environmental legislation and regulations.







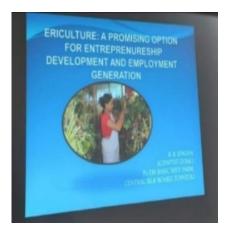






Activities such as Cleanliness drive, plantation, Awareness, health camp etc at college campus

S/N	Various activities carried out at Bikali	College during	g 2022 – 2023
1	Medical Camp (Free Cardio Checkup)	24/2/2022	NCC and Extension
			Cell
2	World Water Day Celebration	22/3/3022	Geography
3	Swarnim Bharat Suraksha Bike Rally and Road	17/5/2022	BCD and
	Safety Awareness Programme		Brahmakumari
4	World Environment Day	5/6/2022	Nature Club
5	World Yoga Day	21/6/2022	NCC and Yoga Club
6	Green Diwali Awareness	22/10/2022	Geography
7	Quiz Club Meeting	22/10/2022	Scientia Club
8	Inaugural Ceremony and Commencement of	28/10/2022	Zoology
	Aquariculture Certificate Course		
9	Educational trip to Pobitora wildlife sanctuary	1/12/2022	Zoology
	from Department of Zoology		
10	Online Faculty Meeting	14/1/2023	
11	Silpi Divas and Road Awareness Programme by	17/1/2023	BCD
	DTO and DC, SP		
12	Sericulture Workshop	9-13/3/2023	Zoology
13	Nature Club Programme	26/3/2023	Nature Club





ধুপধৰাৰ বিকালী মহাবিদ্যালয়ত বিশ্ব পশু দিৱসৰ সজাগতা সভা

Workshop on Muga culture



Various activities at college campus

8.0 Recommendations

Water Management

- (i) The college Management needs to consider the low flow faucets, as the replacement for the existing conventional taps.
- (ii) The toilet and wash room should be equipped with push button
- (iii) Sprinkler and drip irrigation should use for gardening
- (iv) The college should install rain water harvesting unit more in an organized way
- (v) More advanced water purification treatment facilities may be installed within the campus in order to ensure safe drinking water.

Energy Management

- > The public lights within the campus may be run with solar panels and the replacement of existing lights should be done with LED lamps.
- > Energy auditing should be done with the help of Energy Management Centre (EMC)

Waste Management

- > Specific waste management plans should be adopted to manage solid waste in the campus, use of plastic carry bags, plastic glass/ cups/plates and flex boards should be banned inside the College to create a plastic free zone.
- > For managing organic wastes more organised vermicompost plant may be installed in the campus
- There should be a proper system for the management of hazardous wastes.
- > ETP and STP should install in the campus properly

Green Management

- > Green habitat concept should be adopted for all the building construction activities of the college in future, which may help a long way in reducing energy usage, increasing aesthetic appeal of the buildings and class rooms, besides reducing carbon foot print.
- > With a view to the availability of land organised horticulture garden may be initiated
- Further, more green spaces should be established all around the campus around larger trees and shades for the benefit of the students. All these aspects should monitor by Green Campus Committee.
- > There should be an annual monitoring plan to assess Air, drinking water, soil and fishery water quality.

Scanned copy of Green Campus Committee Annexure 1:

Annexure 2: Scanned copy of Electric Bill

Annexure 3: Scanned copy of ISO Certificate

Scanned copy of PCB Certificate Annexure 4:

Scanned copy of MSME Certificate Annexure 5 :



Office of the Principal

BIKALI COLLEGE, DHUPDHARA

Dr. Monoj Gogoi (M.Sc., Ph.D) Principal Bikali College, Dhupdhara P.O.: Dhupdhara, Dist: Goalpara, Assam

Pin: 783123

Website: www.blicalicollege.org

Email: bikalicollogo@gmail.com

Phone: 7002777137 (M)

NOTICE

Dated: 15/02/2022

It is hereby informed to all concerned that as per the recommendation of the Academic Council and IQAC a Green Campus Committee, Bikali College is constituted with the following members for the Academic Year 2021-22.

Dr. Monalisha Roychaudhury
Dr. Bonti Bordoloi
Jyotirmoy Das
Niva Barman
Jugal Kishore Talukdar
Dhanashree Daimary

Principal,

Bikali College

Dhupdhara





Assam Power Distribution Company Limited

NAME OF ELECTRICAL SUB-DIVISION / IRCA : DHUPDHARA

CIN: U40109AS2003SGC007242

GSTIN: 18AABCL1354J1ZJ

ELECTRICITY BILL

12,540

Website: www.apdcl.org

Centralized Customer Care Number: 1912

ors

Consumer Name. BIKALI COLLEGE CLASS ROOM

Address DHUPDHARA

Consumer Number: 038000012752

Old Consumer Number: GP-57

DTR Number 105 Pole Number 000

Connected Load in KW 4 0
Contracted Demand in KVA 4 0

Load Security 0.0

Tariff Category: LT V(A) GENERAL PURPOSE (OTHER Meter Number: AE025624

Supply Voltage Level: LT

Contact Number : 7002777137

Bill Amount: 1396.0 Due Date: 20-Mar-2023

Bill Number 901216695

Bill Period 02-Feb-2023 To 01-Mar-2023

Bill Date: 03-Mar-2023 Number of Days: 28 Meter Status: RUNNING Billing Status: NORMAL

038000012752

Meter Reading Details

_						0 11 0		
Reading Type	Meter Number	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading in KWh	Current Expor	t in Difference Reading in KWh	Difference Export in KWh
KWH (Normal)	AE025624	1.0	6260 0	0.0	6368.0	0.0	108.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Units Consumed	PF Penalty/Rebate	LT Metering Penalty @ 3%	LT Metering Penalty @ 3% DTR Penalty @ 10% HT Rebate @ 3% Billable Unit		Billable Units in KWh		
108.0	0.0					108.0	
0.0	0.0					0.0	
Recorded Demand (in KVA)	0.0	Maximum Demand (in KVA)	0.0	Billing Demand (in KVA)	4.0	Average Power Factor	85.0
Power on Hours	0.0	Freeze Amount	0.0	Availability Percentage			

Billing Details

	Outstanding Amount	Adjustment A	Arnount	Government Subsidy	Solar Rebate	Net Bill Amount		
. 1396.05	Rs. 0.00	Rs. 0.00		Rs. 0.0	0.0	Rs. 1396.0		
						n Words: Ru Hundred Nine	pees One The ety Six Only	nousand Thr
EASE PAY YOUR	R BILL ON TIME AND HEL	P US TO SERVE	YOU BETT	TER	Charges Breakup			
					Details	Units	Rate	Amount
					Energy Charge	108.0	6.55	707.40
						0.0	0.0	0.00
						0.0	0.0	0.00
					Total Energy Charge			707.40
					Energy Charge Re- Estimated			0.00
					Demand/Fixed Charge	4.0	155.0	570.74
					FPPPA Charge		0.5	54.0
					Electricity Duty		5.0	63.91
Ener	gy Consumption	ı (Last Mo	nth's B	ill)	Govt. Subsidy		0.0	0.0
					Meter Rent		20.0	
1							20.0	0.0
					Transformer M D Charg	e	20.0	0.0
D 200						е	20.0	0.0
D 200				\$ ¹	Transformer M D Charg	e	20.0	
P 200 1	, <u>p</u>			12 M	Transformer M D Charg Overdrawal Penalty		20.0	0.0
150 -	. p		No.		Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonoure		20.0	0.0
150 -					Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonourer cheque		20.0	0.0
nergy Consume					Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonourer cheque Arrear Principal		20.0	0.0 0.0 0.0
150 -			N. Comments of the Comments of		Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonourer cheque Arrear Principal Arrear Surcharge		20.0	0.0 0.0 0.0 0.0
nergy Consume			3.00		Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonourer cheque Arrear Principal Arrear Surcharge Current Surcharge	1	20.0	0.0 0.0 0.0 0.0 0.0
Energy Consumer	Wanth1 Month2 Mon	tha Month4	Months	y nonth6	Transformer M D Charg Overdrawal Penalty Adjustment Amount Charges for dishonourer cheque Arrear Principal Arrear Surcharge Current Surcharge Miscl. Arrear	re due date		0.0 0.0 0.0 0.0 0.0 0.0

Checked by E&OE:

Prepared by: eSuvidha

Signature with seal

Assam Power Distribution Company Limited

NAME OF ELECTRICAL SUB-DIVISION / IRCA : DHUPDHARA CIN: U40109AS2003SGC007242 GSTIN 18AABCL1354J1ZJ ELECTRICITY BILL

Website www apdcl org

Centralized Customer Care Number 1912

Consumer Name: BIKALI COLLEGE

Address: DHUPDHARA

DTR Number: 105

Pole Number :000 Connected Load in KW 8.0

Meter Number: 13249895

Contact Number: 7002777137 Email

Contracted Demand in KVA 80 Load Security 0.0

Tariff Calegory: LT V(A) GENERAL PURPOSE (OTHER

Supply Voltage Level: LT

Consumer Number: 038000012748 Old Consumer Number: GP-53

Bill Amount: 8403.0 Due Date: 21-Mar-2023

Bill Number 901225679

Bill Period: 02-Feb-2023 To 01-Mar-2023

Bill Date: 06-Mar-2023

Number of Days 28 Meter Status: RUNNING

Billing Status: NORMAL

Meter Reading Details

Reading Type								
	Meter Number	MF	Previous Reading in KWh	Previous Export in	Current Reading	Current Export in	Difference	Difference Export
KWH (Normal)	13249895	1.0	72141.0		in KWh	KWh	Reading in KWh	in KWh
		0.0		0.0	73115 0	0.0	974.0	0.0
		10.0	0 0	0 0	0 0	0.0	0.0	0.0

Units Consumed	PF Penalty/Rebate	LT Metering Penalty @ 3%				-1224	
974.0	0.0	C1 Wetering Penalty @ 3%	DTR Penalty @ 10%	HT Rebate @	9 3%	Billable Uni	ts in KWh
0.0	0.0					974.0	
Recorded Demand (in KVA)	0.0	Maximum Demand (in KVA)				0.0	
		maximum beniand (in KVA)	0.0	Billing Demand (in	8.0	Average Power	85.0
Power on Hours	0.0	F		KVA)		Factor	
Pilling Details		Freeze Amount	0.0	Availability Pr	ercentage		

Billing Details

Current Demand	Outstanding Amount	Adjustment Amount	Government Subsidy	Coto D. I.			
ts. 8402.65	Rs. 0 00	Rs. 0.00	Rs. 0.0	Solar Rebate	Net Bill Amount		
			NS. 0.0	0.0	Rs. 8403.0		
					In Words: Ru	pees Eight	Thousand Fou
LEASE PAY YOUR	BILL ON TIME AND HELP	US TO SERVE YOU BE	TTER	Charges Breakup	Hundred Thre	e Only	
				Details	Too is a		
				Energy Charge	Units	Rate	Amount
	20.0			Charge	974.0	6.55	6379.70
				_	0.0	0.0	0.00
				Total Energy Charge	0.0	0.0	0.00
				Energy Charge Re-			6379.70
				Estimated			0.00
				Demand/Fixed Charge	8.0	155.0	
				FPPPA Charge		0.5	1141.48
Ener	gy Consumption	(I and Mandala		Electricity Duty		5.0	487.0
	ay consumption	(Last Wonth's	Bill)	Govt. Subsidy		0.0	376.06
				Meter Rent		20.0	0.0
2,500				Transformer M D Charg	ge	20.0	18.41
E 2.000 -				Overdrawal Penalty			
2				Adjustment Amount			0.0
5 1.500 -				Charges for dishonoure	ed		0.0
>		WET TORS		cneque		1	0.0
1,000 -				Arrear Principal			0.0
± 500 -	La Berri Me			Arrear Surcharge			0.0
300]				Current Surcharge			0.0
ا ا			1.00	Miscl. Arrear			0.0
	Month1 Month2 Mont			Rebate if paid befo	re due date		0.0
	Month1 Month2 Mont	h3 Month4 Month5	Month6	Payable amount be	fore due date		8403.0

Checked by E&OE:

Prepared by: eSuvidha

Months

Signature with seal

Payable amount after due date

8403.0

Assam Power Distribution Company Limited NAME OF ELECTRICAL SUB-DIVISION / IRCA DHUPDHARA

CIN U40109AS2003SGC007242 GSTIN 18AABCL1354J1ZJ ELECTRICITY BILL

Centralized Customer Care Number: 1912

Consumer Name BIKALI COLLEGE

Address DHUPDHARA

Consumer Number: 038000012749

Old Consumer Number: GP-54

DTR Number 105 Pole Number 000

Connected Load in KW 13 0

Contracted Demand in KVA 13.0 Load Security 0.0

Contact Number 7002777137

Tariff Category: LT V(A) GENERAL PURPOSE (OTHER Meter Number: ASA-92281

Supply Voltage Level: LT

Bill Amount: 2741.0

Due Date: 20-Mar-2023

Bill Number 901216692

Bill Period 02-Feb-2023 To 01-Mar-2023

Bill Date 03-Mar-2023

Number of Days 28

Meter Status RUNNING

Meter Reading Details

Reading Type	Material							
	Meter Number	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading	Current Export in	Difference Reading in KWh	Difference Export
KWH (Normal)	ASA-92281	1.0	7936.0	0.0	8041.0	0.0	9	
		0.0			0041.0	0.0	105.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Units Consumed	PF Penalty/Rebate	LT Metering Penalty @ 3%	DTD Bessite @ 1000			1	
105.0	0.0	3 - Sidny @ 570	DTR Fernally @ 10%	HT Rebate @	3%	Billable Unit	s in KWh
0.0	0.0					105.0	
Recorded Demand (in KVA)		- I.				0.0	
	0.0	Maximum Demand (in KVA)	0.0	Billing Demand (in KVA)	13.0	Average Power	85.0
Power on Hours	0 0	Freeze Amount	0.0	Availability Pe		Factor	

Billing Details

Current Demand	Outstanding Amount	Adjustment Amount	Government Subsidy	Solar Rebate	No. D. II. A		
Rs. 2740.69	Rs. 0.00	Rs. 0.00	Rs. 0.0	0.0	Net Bill Amount		
			110. 0.0	0.0	Rs. 2741.0		
PI EASE DAY YOUR	DILL ON THE AND ADD				In Words: Ru Seven Hundr	pees Two Th	nousand
CERSE FAT TOOK	BILL ON TIME AND HELP	US TO SERVE YOU BET	TTER	Charges Breakup		and the same	Olly
				Details	Units	Rate	Amoun
				Energy Charge	105.0	6.55	687.75
					0.0	0.0	0.00
					0.0	0.0	0.00
				Total Energy Charge		0.0	
				Energy Charge Re- Estimated			0.00
				Demand/Fixed Charge	13.0	155.0	1854.9
				FPPPA Charge		0.5	52.5
Ener	gy Consumption	(Last Month's I	D:III\	Electricity Duty		5.0	127.13
, <u></u>		(Last month 5 t	5111)	Govt. Subsidy		0.0	0.0
200 -	REGUL		31 20-00-00	Meter Rent		20.0	18.41
D 175				Transformer M D Char	rge		10.41
E 150 -	W 1			Overdrawal Penalty			0.0
2 125			10000	Adjustment Amount			0.0
E 150 - 125 - 00 100 -				Charges for dishonour cheque	red		0.0
6 75		B. s	6	Arrear Principal			0.0
50 - U				Arrear Surcharge			0.0
25 -				Current Surcharge			0.0
0				Miscl. Arrear			0.0
-	1 360	四		Rebate if paid before	ore due dete		0.0
M	onth1 Month2 Month	3 Months Hanses		Payable	ore due date		0.0

Checked by E&OE:

Prepared by: eSuvidha

Month1 Month2 Month3 Month4 Month5 Month6

Months

Signature with seal

Payable amount before due date

Payable amount after due date

2741.0

2741.0





This is to Certify that the Management System of

ENVIRO TESTING SERVICES

BIJAY NAGAR, NOONMATI, GUWAHATI - 781020, ASSAM, INDIA

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope of operations:

ENVIRONMENTAL ASSESSMENT, MANAGEMENT AND MONITORING FOR SOIL, WATER, AIR, FLORA AND FAUNA.

Certificate No.: 09110783A

Date of initial registration

Date of this Certificate

Surv. audit on or before/ Certificate expiry

Recertification Due

24 August 2022

24 August 2022

23 August 2023

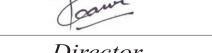
23 August 2025

Accreditation

This Certificate remains valid subject to satisfactory surveillance audits.









ICL/FM-001/REV06

For verification and updated information concerning the present certificate visit to www.iclcert.com

This certificate is property of Integral Certification (P) Ltd. and shall be returned immediately when demanded.

Integral Certification (P) Ltd.

301, U-60 (3rd Floor), Shakar Pur, Laxmi Nagar, Delhi-110092

E-mail: info@iclcert.com Website: www.iclcert.com

Contact No.: +91-9319332223





This is to Certify that the Management System of

ENVIRO TESTING SERVICES

BIJAY NAGAR, NOONMATI, GUWAHATI - 781020, ASSAM, INDIA

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope of operations:

ENVIRONMENTAL ASSESSMENT, MANAGEMENT, GREEN AUDIT AND ENVIRONMENTAL AUDIT

Certificate No.: IN19503B

Date of initial registration

Date of this Certificate

Surv. audit on or before/ Certificate expiry

Recertification Due

08 February 2023

08 February 2023

07 February 2024

07 February 2026

Accreditation

This Certificate remains valid subject to satisfactory surveillance audits.





Director



ICL/FM-001/REV06

For verification and updated information concerning the present certificate visit to www.iclcert.com

This certificate is property of Integral Certification (P) Ltd. and shall be returned immediately when demanded.

Integral Certification (P) Ltd.

301, U-60 (3rd Floor), Shakar Pur, Laxmi Nagar, Delhi-110092

E-mail: info@iclcert.com Website: www.iclcert.com

Contact No.: +91-9319332223



Pollution Control Board, Assam

Department of Environment & Forests: : Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ (অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ) * Posano Control State of the S

No.WB/GUW/T-2445/13-14/200

Dated Guwahati the 09th March, 2023

OFFICE ORDER

In exercise of the powers conferred under section 17(2) of the Water (Prevention & Control of Pollution) Act. 1974 and section 17(2) of the Air (Prevention & Control of Pollution) Act, 1981, the Pollution Control Board, Assam is pleased to renew the recognition of the Laboratory for a period of six (6) months in favour of M/s. Enviro Testing Services, Bijoy Nagar, House No. 35, Noonmati, Guwahati-22, Kamrup (M), Assam awarded vide Pollution Control Board, Assam order No. WB/GUW/T-2445/13-14/198 dtd.19.02.2022. This Renewal of recognition is awarded subject to the following terms & conditions for the purpose of analyzing certain parameters discharged from the industries or any other institutions.

Terms & Conditions:

- The recognition shall be valid till 08th September, 2023.
- 2. The recognition may be revoked or withdrawn subject to the violation of the following conditions:
 - i. The laboratory shall carry out analysis only for the parameters authorized by the Board as mentioned in the certificate of approval.
 - ii. The laboratory shall carry out analysis of samples as per IS, APHA code of Federal Regulation and should specify the method in the analysis report.
 - iii. The laboratory will keep a proper record of receipt of samples, the reading of each and every parameter analyzed and calculation of results of all parameters on permanent register and will subject to inspect by the Board.
 - iv. The samples collected should be analyzed within seven (7) days from the date of collection and copy of the same along with the brief inspection report to be sent to Pollution Control Board, Assam.
 - v. The accredited laboratory will collect samples as required by the process, which will be divided in two parts. One part will be analyzed, while the other part will be preserved for thirty days. For air samples, the used thimbles and filter papers will be preserved for six (6) months so that the Board can check randomly and verify the credibility.
 - vi. The Board officials may visit laboratory for checking preserved samples at random.
 - vii. The Laboratory must submit information on whether ETPs/APCDs installed by the respective unit was running or not along with test report. At the time of collection samples by the Laboratory, all the processes of the unit should invariably be running. The analysis report should generally reflect site conditions and capacity at which the industry was running at the time of sampling.
 - viii. Records pertaining to inventory of the chemicals/ reagents shall be kept properly on a permanent register and will be subject to inspection by the Board.
 - ix. Laboratory will submit details of staff involved in sampling and testing and the person coming for collection of sample should have authority letter of Laboratory.
 - x. Any change in address, staff or other additions/ alterations in the facilities of the laboratory should immediately be reported to this office within fifteen (15) days.

Contd....p/2



Regional Offices at : Dibrugarh, Golaghat, Sibsagar, Tezpur, Guwahati, Bongaigaon, Nagaon & Silchar.



Pollution Control Board, Assam

(Department of Environment & Forests : : Government of Assam)

প্ৰদ্যণ নিয়ন্ত্ৰণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

-2-

xi. Prior information is to be given to the concerned Regional Officers and Head Office for collection of sample and Regional Officers/Field Officer will associate during the sampling.

xii. The approval shall be suspended or cancelled if the Board has reason to believe that the data reported by the Laboratory is repeatedly erroneous. Further the Laboratory and its key personnel shall be liable to be proceeded against for imposition of penalty in case the Board has reason to believe that the data reported by the Laboratory is intentionally manipulated.

xiii. If it is found that the aforementioned Laboratory has any involvement with any of the industry against whom allegations have been made forging of Board's Authority, will result in withdrawal of recognition apart from other legal proceeding as provided under existing

xiv. If the laboratory failed to achieve the satisfactory performance regarding testing of the coded samples supplied by the Pollution Control Board, Assam will result in withdrawal of

xv. The instruments/equipment should be always kept in working and perfectly calibrated

xvi. The Laboratory has to submit a brief plan on safety measures undertaken for risk management pertaining to the work environment.

xvii. In legal matters, the analytical reports of the above laboratories will not be binding to the Board and such reports generated by the State Board will always prevail over.

xviii. Regarding compliance of occupiers, Boards analytical report and opinion will stand final over the reports and opinion of the aforesaid laboratory.

xix. Board will have every right to accept or reject the analytical and other reports submitted by the aforesaid laboratory without assigning any reason thereof.

- xx. National Accreditation Board for Testing and Calibration Laboratories (NABL) is mandatory at the time of Next renewal of recognition i.e from the year 2023 onward.
- 3. This order will remain valid for six (6) month with effect from the date of issue of this order subject to the outcome of Hon'ble Gauhati High Court Order in WP(C)/8468/2018. But the said recognition may also be withdrawn at any time in case of violation of any of the aforementioned conditions or any of the conditions mentioned in Annexure-A(i) & (ii) or for any other unlawful activities, which are not proper under the law of the land.

4. This order has been passed as per the approval of the Competent Authority.

Memo No.WB/GUW/T-2445/13-14/200-A

Dated Guwahati the 09th March, 2023

1. The ACES, Central Laboratory, PCBA for information and necessary action.

2. M/s. Enviro Testing Services, Bijoy Nagar, House No.35, Noonmati, Guwahati-22, Kamrup (M) for information and necessary action.

Member Secretary

Head Office: Bamunimaidam, Guwahati - 781021, Assam: India. Phone: 2652774 & 2550258: Fax: 0361-2550259; Gram: POLUTIONCONTOL E-mail: membersecretary@pcbassam.org; Website: www.pcbassam.org Regional Offices at : Dibrugarh, Golaghat, Sibsagar, Tezpur, Guwahati, Bongaigaon, Nagaon & Silchar.

LIST OF PARAMETERS MENTIONED BELOW:-

A. Water & Waste Water

Sl. No	Parameters	Sl. No	Parameters
1	pH	27	Ammonical Nitrogen
2	Temperature	28	TKN
3	TSS	29	Phosphate
4	Zine	30	Iron
5	BOD account to remark to the second to the s	× /5.4524 31	Lead
6	COD	32	Copper
7	Total Dissolved Solids	33	Nickel
8	Chloride	34	Cr (Total & Hexa)
9	Sulphate	35	Cadmium
10	Oil & Grease	36	Aluminium
11	Sodium	37	Manganese
12	Phenol	38	Arsenic
13	Odour	39	Insecticides
14	Turbidity	40	Total Acidity
15	Alkalinity	41	DO
16	Conductivity	42	Cobalt
17	Total Hardness	43	Vanadium
18	Calcium hardness	44	Molybdenum
19	Magnesium Hardness	45	Silver
20	Nitrate	46	Hydrazine
21	Sulphite	47	Barium
22	Fluoride	48	Colour
23	Residual Chloride	49	Anionic Detergent
24	Boron	50	Mercury
25	Free Ammonia	51	Selenium
26	Sulphide	52	Nitrite

B. Bacteriology & Bio-Assay

Sl. No	Parameters
1	Total Coliform
2	Fecal Coliform

C. Noise Parameter

Noise Level Monitoring - Noise in dB(A)

Addl. Chief Env. Scientist
Pollution Control B. As
Bamunimaidam, Camanati

D. Ambient Air Parameters

St. No	Parameters	Sl. No	Parameters
	Oxides of Sulphur	8	Benzene
2	Oxides of Nitrogen	9	Benzo (a) Pyrine
3	PM 10	10	Arsenic
4	PM 2.5	11	Nickel
5	Ozone	12	Total Hydrocarbon
6	Lead	13	Formaldehyde
7.	Carbon Monoxide	14	Ammonia

E. Stack Parameters

Sl. No	Parameters	Sl. No	Parameters
1	Oxides of Sulphur	7	Nickel
2	Oxides of Nitrogen	8	Hydrogen Sulphide
3	Particulate Matter	9	Carbon Dioxide
4	Oxygen	10	Hydrogen Fluoride (HF)
5	Carbon Monoxide	11	Vanadium
6	Hydrochloric Acid Vapour & Mist (HCl)	12	Chlorine

F. Parameters For Soil Analysis

Sl. No	Parameters	Sl. No	Parameters
1	рН	9	Phosphorous
2	Soil Type	10	Manganese
3	Water Holding Capacity	11	Nitrogen
4	Iron	12	Sodium
5	Organic Matter	13	Potassium
6	Copper	14	SAR
7	Nickel	15	Boron
8	Chlorides	16	Zinc

G. Fugitive Emission (LEL-CH₄),

Light Intensity (Lux Meter), VOC

- H. Work Zone Monitoring
- I. Waste Sludge Parameters (Non Hazardous & Hazardous)

Addi. Chief Env.



भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-AS-16-0015132

NAME OF ENTERPRISE

ENVIRO TESTING SERVICES

TYPE OF ENTERPRISE *

SNo.	Classification Year	Enterprise Type	Classification Date	
1	2023-24	Micro	29/04/2023	

MAJOR ACTIVITY

SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)	
1	ENVIRO TESTING SERVICES	

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	-	Name of Premises/ Building	BIJOY NAGAR,
Village/Town	Kamrup,	Block	-
Road/Street/Lane	NOONMATI,	City	Assam,
State	ASSAM	District	KAMRUP, Pin 781020
Mobile	9435732705	Email:	envirotesting2011@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE

15/12/2001

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS

15/12/2001

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	70 - Activities of head offices; management consultancy activities	7010 - Activities of head offices	70100 - Activities of head offices	Services
2	70 - Activities of head offices; management consultancy activities	7020 - Management consultancy activities	70200 - Management consultancy activities	Services
3	71 - Architecture and engineering	7110 - Architectural and engineering	71100 - Architectural and engineering	Services

	activities; technical testing and analysis	activities and related technical consultancy	activities and related technical consultancy	
4	71 - Architecture and engineering activities; technical testing and analysis	7120 - Technical testing and analysis	71200 - Technical testing and analysis	Services
5	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74904 - Security consulting	Services

DATE OF UDYAM REGISTRATION

29/04/2023

Disclaimer: This is computer generated statement, no signature required. Printed from https://udyamregistration.gov.in & Date of printing:-29/04/2023

For any assistance, you may contact:

1. District Industries Centre: DIC KAMRUP (ASSAM)

2. MSME-DFO: GUWAHATI (ASSAM)

Visit: www.msme.gov.in; www.dcmsme.gov.in; www



Follow us @minmsme &









^{*} In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.