GREEN AUDIT REPORT



2022-23

Madhab Choudhury College, Barpeta, Assam



PREPARED BY:

Green Audit Committee, Madhab Choudhury College, Barpeta, Assam

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MADHAB CHOUDHURY COLLEGE, BARPETA, ASSAM



PREPARED BY: GREEN AUDIT COMMITTEE, MADHAB CHOUDHURY COLLEGE, BARPETA, ASSAM



DEPARTMENT OF BOTANY GAUHATI UNIVERSITY

Gauhati University Assam 781014, India botany@gauhati.ac.in

12 December, 2023

Certificate

This is to certify that Madhab Choudhury College, Barpeta, Assam has conducted a detailed "Green Audit" for its campus during the academic year 2022-2023. The green audit was conducted in accordance with the applicable standards prescribed norms of the Ministry of Environment, Forest and Climate Change, New Delhi. The audit involves water, waste water, energy, air, green inventory, solid waste, etc., and gives an 'Environmental Management Plan', which the college can follow to minimize the impact on the institutional working framework. In an opinion and to the best of my knowledge and according to the information given to me, said green audit gives a true and fair view in conformity with environmental auditing principles' accepted in India.

(Bhaben Tanti)

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Date: 28.01.2024

Certificate

It is hereby certified that Madhab Choudhury College, Barpeta, Assam has conducted a Green Audit of its campus during the Academic year 2022-23. To the best of my knowledge, the Green Audit Report prepared by the College has reflected the true scenario of the college comprising the current environmental (soil, air and water) conditions, green coverage, plantation, waste management, biodiversity conservation, sustainable resource management and utilization within the college campus. The Eco Club unit conducts cleanliness drive and awareness program time to time as per the report. The college is maintaining healthy ecological environment within the premises which is necessary for long-term sustaining and maintaining healthy education environment in an academic institution.

Nonetheless, there is a scope for more plantation and solar panel installation within the campus. The normal electric bulbs (as evident from the report too) in use can be replaced with more energy saving LED lights. As the college is developing with new RCC buildings, the college should ensure to compensate the loss of big trees through re-plantation in open areas while constructing new RCC buildings within the campus. The college can also conduct fox census to reveal its success story of fox conservation initiatives as claimed in the report.

(Diganta Narzary)

PREFACE

The surrounding and everything that affect an organism during its lifetime is collectively known as its environment. In another words "Environment is sum total of water, air and land interrelationships among themselves and also with the human being, other living organisms and property". It includes all the physical and biological surrounding and their interactions. Environmental studies provide an approach towards understanding the environment of our planet and the impact of human life upon the environment.

The Green Audit Committee discusses the environment related issues and problems in the college campus within the following parameter:

Land use pattern and built-up area, biodiversity of the campus, activities of club/body in the college, drinking water, water use and management in the campus, air quality in the campus, noise level in the campus, energy requirement and management in the campus, generation of waste materials and waste disposal system, cleanliness practices, Best Practices and Suggestions.



GREEN AUDIT COMMITTEE

MADHAB CHOUDHURY COLLEGE, BARPETA

ASSAM

TEAM MEMBERS

Sl. No.	Name of the member	Designation	Duty performed
1	Dr. Prakash Sarma	Chairman, Green Audit Committee & Principal, M.C. College Barpeta	Facilitator and chief patron
2	Dr. Dip Kumar Bhattacharjya	Co-ordinator, Green Audit Committee & Asstt. Professor, M.C. College Barpeta	Technical advisor, field surveyor, data keeper and compiler
2	Dr. Sanjib Deuri	Member, Green Audit Committee & Associate Professor, M.C. College Barpeta	Technical consultant
3	Dr. Chiranjit Baruah	Member, Green Audit Committee & Asstt. Professor, M.C. College Barpeta	Technical consultant
4	Dr. Hitesh Das	Member, Green Audit Committee & Asstt. Professor, M.C. College Barpeta	Technical consultant
5	Dr. Eushah Ali	Member, Green Audit Committee & Asstt. Professor, M.C. College Barpeta	Field surveyor
6	Dr. Jaydev Mandal	Member, Green Audit Committee & Asstt. Professor, M.C. College Barpeta	Field surveyor
7	Mr. Kuldeep Das	Member, Green Audit Committee & Secretary, Subham NGO, Barpeta	Technical consultant
8	Hangsha Barman	Member, Green Audit Committee & Contractual Faculty, M.C. College Barpeta	Field survey assistance provider
9	Abhinob Kr. Nath	Member, Green Audit Committee & PG student, M.C. College Barpeta	Field survey assistance provider
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	Manirul islam	College Barpeta	r
34	Manov ghosh	3 rd semester undergraduate student (Botany Honours), 2021, M.C. College Barpeta	· ·
35	Priyanka das	1 st semester undergraduate student (Botany Honours), 2021, M.C. College Barpeta	•
36	Nurmin sultana	1 st semester undergraduate student (Botany Honours), 372021, M.C. College Barpeta	· ·
37	Sonjibul islam	1 st semester undergraduate student (Botany Honours), 2021, M.C. College Barpeta	•

CONTENT

Chapters	Page N	Number
Introduction		1
Land use pattern and built-up area	• • • • • •	1-7
Biodiversity of the campus		8-21
The Eco club unit		22
Drinking water, water use and management		22-23
Air quality in the campus		23-26
Noise level in the campus		26
Soil quality of the college campus		27
Energy audit in college premises		.28-29
Generation of waste materials		29-31
E-waste management	••••	31-33
Cleanliness practices	•••	33
Best practices	•••••	34
Acknowledgement	••	35
Annexures		36-44

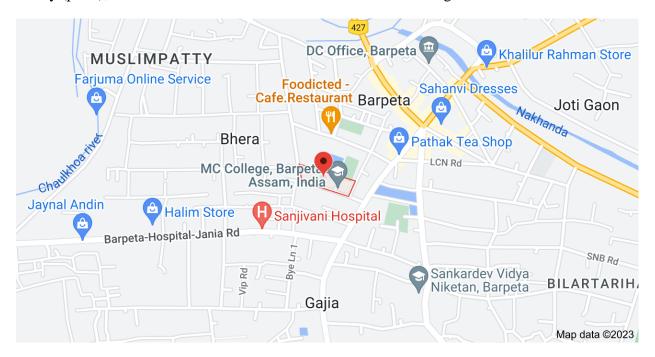
INTRODUCTION

In 2015, the institution, which is the third-oldest in Assam's undivided history, achieved its Platinum Jubilee. The college has been providing higher education to the public since its foundation in 1939. The addition of the science stream to the college in 1959 brought a new chapter to the institution's illustrious history. The college was founded with just twelve teachers and thirty students in its first year. Today, it employs nearly seventy teachers, thirty non-

teaching staff members, and two thousand five hundred students in two streams of arts and science for both undergraduate and postgraduate study. Currently, a total of fifteen departments from both streams are involved in offering higher education to students; the department of botany in the science stream and Assamese in the arts stream are running postgraduate programmes under Gauhati University, the college's affiliating university.



Situated in the centre of Barpeta town, the college occupies around 15.76 acres of land in the Satra Nagari of Assam (Annexure-I). The entire college campus is covered by vegetation, which is adorned with a considerable variety of floral features. Rich faunistic variety on the college campus is also supported by the floristic features, a medicinal plant garden, a regulated water body (pond), and a site set aside for fox conservation and breeding.



LAND USE PATTERN AND BUILT-UP AREA:

The college has been occupying an area of 15.76 acre of which ~ 10.533 acre of land is in use for various purposes and ~ 5.227 acre is lying free contributing towards the greenery of the campus.

The buildings:

At first, the college's buildings were completely indigenous in design, showcasing native building techniques combined with regional customs. Today, the bulk of the structures are likewise historic Assamese-style buildings that are utilised as offices and classrooms. The Assam-style boys' hostel continues to provide nice lodging for students. Hostel-wardens' Quarter is another example of an Assamese-style



architecture. Thus, these buildings occupy an area of approximately 1.651 acres. All new construction, however, is intended to be multi-story RCC buildings, and efforts are underway to rebuild a few older, partially damaged buildings with RCC structures. The department building of Botany and Zoology continues to showcase the harmonious combination of local art, technology, and culture.



There are nine structures that remain in their original locations, taking up around 1.651 acres of land. The new multi-story RCC structure built with funding from the RUSA grant houses the principal's offices and administrative buildings. These days, a multi-story RCC building serves as a seminar hall in addition to being used as a digital classroom, a GIS lab, a Incubation centre, and a guest house. Geography, Education, and Anthropology

departments are situated in a third, three-story structure adjacent to that one. Beside the playground, there is another RCC building that houses a multi-level gym, a boys' common-room and a classroom that doubles as a laboratory for the Beauty and Wellness course. A new RCC building was finished to accommodate the PG Botany course's theoretical classrooms and practical laboratories. A multi-story building that houses the cafeteria and girls' common room, an auditorium, and a multi-story girls' hostel are among the other structures that are currently in place. As a result, the RCC buildings cover an area of around 1.303 acres.

The remaining acreage is used for structures such as the ~1.247-acre concrete drainage system,

bicycle shelters (two numbers), quiet generator sheds (three numbers), and oncampus concrete pathways that connect the buildings.

The college campus is made more beautiful and greener with features like the play area, pond, badminton court, little flower beds, etc. The goal of the fox conservation site near the auditorium is to preserve the campus's floristic



and faunistic features. When combined, they make up an area of around 6.611 acres (Table 1).

Table 1: Land use pattern in the college campus

Sl. No.	Land use category	Nature of land use	Area occupied (Acre)	% of total area occupied (Acre)
1	Building construction – Assam type	Assam type double- storeyed building occupied by the department of Botany and Zoology	0.150	0.95
		Assam type L-shaped house occupied by the department of Physics and Chemistry	0.365	2.32
		Assam type I-shaped house occupied by the College office	0.070	0.82
		Assam type I-shaped house occupied by the department of Philosophy and Political Science	0.130	0.82
		Cluster of connected houses used as Office of the Principal, Office of the Examination Board, Department of History, Staff common room, Department of Assamese, Office of the IQAC, Classroom, Department of Economics.	0.530	3.36
		Assam type house used as Fourth grade employee's quarter located close to the Auditorium	0.013	0.82
		Assam type house used as used as classroom for Community College	0.027	0.17

		T	I	
		towards West bank of the pond		
		Assam type house	0.014	0.89
		used as fish-fry	0.014	0.09
		production towards		
		West bank of the		
		pond		
		Assam type house	0.007	0.04
		used as Apiculture	0.007	0.01
		classroom cum		
		laboratory towards		
		West bank of the		
		pond		
		Boys' Hostel	0.300	1.90
		Hostel Warden's		0.29
		quarter		
2	RCC buildings	Multi-storeyed	0.231	1.47
		building with		
		completed ground-		
		floor under RUSA		
		grant		
		Double storied	0.099	0.63
		building being used		
		as Career		
		Counselling cell,		
		Health Centre,		
		Department of		
		Computer Science,		
		Kameswar Das		
		Library, classroom.		
		Three storeyed		1.10
		building being used		
		as Seminar hall,		
		Digital Class room,		
		GIS lab, Incubation		
		Centre and Guest		
		House.	0.094	0.52
		Three storeyed	0.084	0.53
		building being used as the department of		
		Anthropology,		
		Education and		
		Geography.		
		Two storeyed	0.091	0.58
		building being used	0.071	0.50
		as Pavilion,		
		Gymnasium, Boys'		
		Common room and		
		classroom cum		
		laboratory of the		
		Beauty and		
		Wellness course.		
L				1

		T : 1	0.065	0.41
		Two storeyed	0.065	0.41
		building being used		
		as Canteen and		
		Girls' Common-		
		room.		
		Single storied RCC	0.285	1.81
		construction being		
		used as College		
		Auditorium		
		Two storeyed Girls'	0.140	0.89
		Hostel.		
		Proposed three	0.114	0.72
		storeyed PG		
		building with		
		completed		
		foundation		
3	Other RCC	Toilets close to the	0.007	0.04
	constructions	Seminar Hall		
		Toilets close to the	0.020	0.13
		department of		
		Zoology and Botany		
4	Store-house	Used as store of	0.010	0.06
		construction		
		materials		
5	Semi-concrete	Bi-cycle-shed in	0.074	0.47
	construction	front of the		
		department of		
		Physics and		
		Chemistry		
		throughout the		
		length of the		
		boundary wall		
		Bi-cycle-shed in	0.001	0.01
		front of the		
		department of		
		Zoology and Botany		
		throughout the		
		length of the		
		boundary wall		
		Proposed	0.001	0.01
		Vermicompost unit		
		in the Botanical		
		garden with		
		completed		
		foundation		
		Proposed Poly-	0.014	0.09
		house unit in the		
		Botanical garden		
		with completed		
		foundation		
	l .		<u> </u>	L

		Cananatan -11	0.001	0.01
		Generator shed in front of Seminar	0.001	0.01
		hall	0.001	0.01
		Generator shed in front of Library	0.001	0.01
		Electricity	0.001	0.01
		transformer close to the Botanical garden		
6	Concrete ground	Basket-ball court	0.114	0.72
		Entry-exit gate at	0.011	0.07
		five sites		
7	Play ground	Used for outdoor sports activities	1.482	9.40
		Used as Badminton	0.068	0.43
		court	0.008	0.43
8	Water body	A big pond for	1.262	8.01
		beautification and		
		hands-on activities		
		for the Fishery		
		course		
9	Botanical garden	A site for plantation	0.068	0.43
		of medicinal,		
		aromatic and other		
		plants for teaching		
		and research		
10	Fox conservation	purpose. Unfenced land	3.720	23.60
10	centre conservation	providing natural	3.720	23.00
	Contro	habitat to the fox		
11	Flower garden	Beautification	0.004	0.03
		purpose in front of		
		Principal's office		
		Beautification	0.005	0.03
		purpose in front of		
		the Kameswar Das		
		Library		
		Beautification	0.002	0.01
		purpose in front of		
		in front of the		
		department of		
		Physics and		
		Chemistry close to		
12	Duoin	the boundary wall	0.020	0.10
12	Drain	Drains are under	0.030	0.19
		construction from East to West		
		direction to connect		
		the outlet with		
		municipality drains		
13	In-campus lanes	Both <i>pakka</i> and	0.792	5.03
		katcha lanes are		
		connecting the		
1	1		1	

		buildings in the campus.		
14	Café cum Photostat stall	On the ground floor of the Library building towards South side	0.002	0.01
15	Water pump-house	On the ground floor of the Library building towards North side	0.007	0.04
16	Rain gauge installation	Rain gauge installed by the Indian Meteorological Department adjacent to the auditorium	0.006	0.04
17	Water tank installation	Water reservoir towards back side of the Physics department	0.001	0.01
		Water reservoir cum toilet towards back side of the Zoology department	0.020	0.13
18	Drinking water plant installation	Drinking water purification plant close to the Economics department	0.001	0.01
		Drinking water purification plant close to the office	0.001	0.01
19	Unused area (free-land)	South part of the Auditorium and North part of the Play-ground	5.227	33.17



BIODIVERSITY OF THE CAMPUS

The flora:

The variety of plants and animals college campuses noteworthy. There are several plant and animal species that are found throughout the year. The campus is more verdant because to the presence of some very old trees. In addition to this, planned plantings on other significant occasions, such as World Environment Day, help improve campus landscaping, preserve biodiversity, and make the campus more aesthetically Numerous animal pleasing. species have found a beneficial home on campus thanks to the floristic features of the public property. The two main categories of plants that make up the campus biodiversity's flora are cultivated and wild. As was previously indicated, plantings under various special occasions may be found in the Medicinal Plant Garden, on





open areas, next to buildings, and around the campus perimeter. However, for various

unavoidable reasons, certain plant species are either completely absent or not present in large quantities. (Table 2).

Table 2: List of planted species in the college campus

Sl. No.	Species	Family	Local name	Habit	Current status of existence
1	Acacia auriculiformis A. Cunn. ex Benth.	Mimosaceae		Tree	Absent – cut down for building construction
2	Aegle marmelos (L.) Corrêa	Rutaceae	Bel	Tree	Absent – cut down for building construction
3	Alstonia scholaris (L.) R. Br.	Apocynaceae	Chatiyana	Tree	Absent – cut down for connecting- lane construction
4	Anthocephalus cadamba (Roxb.) Miq.	Rubiaceae	Kadam	Tree	Present
5	Araucaria araucana (Molina) Koch.	Araucareaceae		Tree	Present
6	Azadirachta indica A. Juss	Meliaceae	Neem	Tree	Present
7	Bixa orellana L.	Bixaceae	Sendur sash	Tree	Absent – cut down for building construction
8	Bombax ceiba L.	Bombacaceae	Shimalu	Tree	Absent – cut down for building construction
9	Caesalpinia pulcherrima (L.) Sw.	Fabaceae	Krishnachur a	Tree	Present
10	Duranta erecta L.	Verbenaceae		Shrub	Present
11	Erythrina stricta Roxb.	Fabaceae	Madar	Tree	Present
12	Ficus elastica Roxb.	Moraceae	Robar	Tree	Present
13	Ficus racemosa L., Syn. Ficus glomerata Roxb.	Moraceae	Dimaru	Tree	Present
14	Ficus religiosa L.	Moraceae	Aahot	Tree	Present

15	Grevillea robusta A.Cunn. ex R.Br.	Proteaceae	Silver oak	Tree	Absent – cut down for connecting- lane
16	Hibiscus rosa- sinensis L.	Malvaceae	Joba	Shrub	Present
17	Murraya paniculata (L.) Jack	Rutaceae	Kamini ful	Shrub	Present
18	Mussaenda erythrophylla Schumach. & Thonn.	Rubiaceae	Musanda	Shrub	Present
19	Nerium indicum Mill.	Apocynaceae	Korabi	Small tree	Present
20	Nyctanthes arbortristis L.	Oleaceae	Sewali	Small tree	Absent – cut down for building construction
21	Phyllanthus emblica L.	Euphorbiaceae	Aamlkhi	Tree	Present
22	Polyalthia longifolia Sonn.	Annonaceae	Debodaru	Tree	Present
23	Psidium guajava L.	Myrtaceae	Madhuri Aam	Tree	Present
24	Tabernaemontana divaricata (L.)R.Br. ex Roem. & Schult.	Apocynaceae	Kathanda	Shrub	Present
25	Callistemon citrinus (Curtis) Skeels	Myrtaceae	Botol brash	Shrub	Present
26	Caryota urens L.	Myrtaceae	Chao	Tree	Present
27	Cassia fistula L	Caesalpiniaceae	Sonaru	Tree	Present
28	Cephalotaxus sp.	Cephalotaxaceae		Tree	Absent – cut down for garden re- construction
29	Cocos nucifera L.	Arecaceae	Narikol	Tree	Present
30	Codiaeum variegatum (L.) A.Juss.	Euphorbiaceae	Patabahar	Small tree	Present
31	Cycas revoluta Thunb.	Cycadaceae		Small tree	Present
32	Dalbergia sissoo Roxb.	Caesalpianaceae	Sisu	Tree	Present
33	Lannea coromandeli ca (Houtt.) Merr.	Anacardiaceae	Bhelkor	Tree	Present
34	Livistona rotundifolia (Lam.) Mart.	Arecaceae	Tokou	Tree	Present

35	Malvaviscus arboreus Cav.	Malvaceae	Soru joba	Small tree	Present
36	Melia azedarach L.	Meliaceae	Ghora neem	Tree	Present
37	Mesua ferrea Linn.	Clusiaceae	Nahor	Tree	Present
38	Mimusops elengi L.	Sapotaceae	Bakul	Tree	Present
39	Morus alba L.	Moraceae	Nooni	Tree	Present
40	Murraya koenigii (L.) Sprengel	Rutaceae	Norasingha	Tree	Present
41	Tectona grandis L.	Verbenaceae	Segun	Tree	Present
42	Terminalia arjuna (Roxb.) Wight & Arn.	Combretaceae	Arjun	Tree	Present
43	Terminalia chebula Retz.	Combretaceae	Silikha	Tree	Absent – cut down for building construction
44	Trewia nudiflora L.	Euphorbiaceae	Bhelkor	Tree	Present
45	Ziziphus mauritiana Lam.	Rhamnaceae	Bogari	Tree	Present
46	Delonix regia (Hook.) Raf.	Caesalpiniaceae	Radhachura	Tree	Present
47	Plumeria rubra L.	Apocynaceae	Champa	Small tree	Present

(Specimen identification: Dr. D.K. Bhattacharjya)

Wild vegetation occurs in the undisturbed areas including the Fox Conservation Centre, back side of the hostels and along the boundary wall and on either side of the connecting lanes (Table 3).



Table 3: List of wild species in the college campus (Angiosperms only)

Sl. No.	Species	Family	Local name	Habit	Current status of existence
1	Leucas aspera (Wild.) Link	Lamiaceae	Doron	Herb	Available – occurring in wild condition
2	Amaranthus spinosus L.	Amaranthaceae	Kata- khutura	Herb	Available – occurring in wild condition
3	Cyperus brevifolius Rottb.	Cyperaceae		Herb	Available – occurring in wild condition
4	Cleome hassleriana	Cleomaceae		Herb	Available – occurring in wild condition
5	Cynodon dactylon (L.) Pers.	Poaceae	Dubari	Herb	Available – occurring in wild condition
6	Cyanotis axilaris (L.) D.Don ex Sweet	Commelinaceae		Herb	Available – occurring in wild condition
7	Eleusine indica	Poaceae	Bobosa bon	Herb	Available – occurring in wild condition
8	Paspalum conjugatum	Poaceae			
9	Oplismenus burmanni	Poaceae			
10	Evolvulus numularis	Convolvulaceae			
11	Digitaria ciliaris	Poaceae		Herb	Available – occurring in wild condition
12	Scoparia dulcis	Scrophulariaceae		Herb	Available – occurring in wild condition
13	Desmodium triflorum	Papilionaceae		Herb	Available – occurring in wild condition
14	Physalis minima	Solanaceae		Herb	Available – occurring in wild condition
15	Boerhavia sp.	Nyctaginaceae		Herb	Available – occurring in

					wild
					condition
16	Eragrostis congesta	Poaceae		Herb	Available –
	Zragrosus congesta	Touceac			occurring in
					wild
					condition
17	Paspalum	Poaceae		Herb	Available –
	scrobiculatum				occurring in
					wild
					condition
18	Cyperus halpan	Cyperaceae		Herb	Available –
					occurring in
					wild
10	C-1	A #0.000	V a alau	IIaala	condition
19	Colocasia esculenta	Araceae	Kachu	Herb	Available – occurring in
					wild
					condition
20	Ludwigia octavalvis	Onagraceae		Herb	Available –
		<i>B</i>			occurring in
					wild
					condition
21	Typhonium trilobatum	Araceae		Herb	Available –
					occurring in
					wild
22	D: 1 11	D'		77 1	condition
22	Piperomia pelucida	Piperaceae		Herb	Available –
					occurring in wild
					condition
23	Gnaphalium	Asteraceae		Herb	Available –
	polycaulon	Tisteraccae			occurring in
	P = 1) = 1111				wild
					condition
24	Cleome viscosa	Cleomaceae		Herb	Available –
					occurring in
					wild
2.7					condition
25	Pouzolzia zeylenica	Urticaceae		Herb	Available –
					occurring in
					wild condition
26	Psidium guajava	Myrtaceae	Madhuriaa	Small	Available
20	1 Sidium guajava	1v1y1taccae	m	tree	Available
27	Ricinus communis	Euphorbiaceae	Era	Shrub	Available-
]					Available –
					occurring in
					wild
					condition
28	Clerodendrum	Lamiaceae		Shrub	Available-
	infortunatum				Available –
					occurring in

					wild
					condition
29	Solanum nigrum	Solanaceae	Fiskuti	Herb	Available-
					Available –
					occurring in
					wild
20		51 11 1			condition
30	Phyllanthus fraternus	Phyllanthaceae	Bhui	Herb	Available-
			aamlokhi		Available –
					occurring in wild
					condition
31	Drymeria diandra	Caryophyllaceae	Laai-jabori	Herb	Available-
31	Di ymeria aianara	Caryophynaccac	Laai-jaooii	11010	Available –
					occurring in
					wild
					condition
32	Murraya koenigii	Rutaceae	Norasingsha	Small	Available-
				tree	Available –
					occurring in
					wild
					condition
33	Echinochloa colona	Poaceae	Jaitar	Herb	Available-
					Available –
					occurring in
					wild
34	A a anatum a anno aidea	Astarasasa	Gendheli-	Herb	condition Available-
34	Ageratum conyzoides	Asteraceae	bon	пего	Available –
			DOII		occurring in
					wild
					condition
35	Commelina caroliniana	Commelinaceae		Herb	Available-
					Available –
					occurring in
					wild
					condition
36	Oxalis corniculate	Oxalidaceae	Tengeshi	Herb	Available-
					Available –
					occurring in
					wild
37	Commelina	Commelinaceae	Kona-	Herb	condition Available-
)	benghalensis	Commemiaceae	shimalu	11610	Available –
	vengnuiensis		Sililiaiu		occurring in
					wild
					condition
38	Murdannia nodiflora	Commelinaceae		Herb	Available-
	,				Available –
					occurring in
					wild
					condition

39	Oldenlendia corymbosa	Rubiaceae	Sarpajiva	Herb	Available-
37		Rublaccae	Sarpajiva		Available –
					occurring in
					wild
					condition
40	Ocimum gratissimum	Lamiaceae	Ram-	Shrub	Available –
			Tulashi		occurring in
					wild
					condition
41	Cassia tora	Caesalpiniaceae		Herb	Available –
					occurring in
					wild
42	Ell-il-it	Evento autrica a a a a		Herb	condition Available –
42	Euphorbia hirta	Euphorbiaceae		Herb	occurring in
					wild
					condition
43	Blumea lacera	Asteraceae		Herb	Available –
					occurring in
					wild
					condition
44	Hydrocotyle javanica	Apiaceae	Saru-	Herb	Available –
			manimuni		occurring in
					wild
15	11. 1	Anionon		IIaula	condition
45	Hydrocotyle sibthorpioides	Apiaceae		Herb	Available –
	sioinorpioiaes				occurring in wild
					condition
46	Centella asiatica	Apiaceae	Bor-	Herb	Available –
		1	manimuni		occurring in
					wild
					condition
47	Cyanthillium cinereum	Asteraceae		Herb	Available –
					occurring in
					wild
48	Oxalis debilis	Oxilalidaceae		Herb	condition Available
49	Cannabis sativa	Cannabinaceae		Shrub	Available –
 	Camadis sanva	Camaomaccae		Sinuo	occurring in
					wild
					condition
50	Glycosmis pentaphylla	Rutaceae		Shrub	Available
51	Grewia sapida	Tiliaceae		Small	Available
				tree	
52	Imperata cylindrica	Poaceae	Kanhi-bon	Herb	Available –
					occurring in
					wild
53	Tanhvasia numana	Casalniniasass		Shrub	condition Available
54	Tephrosia purpurea Calamus L.	Caesalpiniaceae		Shrub	Available
J 4	Catamus L.	Arecaceae		Silfub	Available

55	Lagerstroemia speciosa	Lythraceae	Ejar	Small tree	Available
56	Syzygium cumini	Myrtaceae	Jamu	Tree	Available
57	Calotropis gigantea	Apocynaceae	Akon	Shrub	Available
58	Persicaria hydropiper	Polygonaceae	Bihlongoni	Herb	Available
59	Polygonum orientale	Polygonaceae	Bor-bihu	Herb	Available – occurring in wild condition
60	Rumex nepalensis	Polygonaceae		Herb	Available – occurring in wild condition
61	Solanum torvum	Solanaceae	Kotahi bengena	Herb	Available – occurring in wild condition
62	Ipomea carnea	Convolvulaceae	Amor	Shrub	Available – occurring in wild condition
63	Polygonum plebeium	Polygonaceae		Herb	Available – occurring in wild condition
64	Rumex maritimus	Polygonaceae		Herb	Available – occurring in wild condition
65	Lindernia crustacea	Scrophulariaceae		Herb	Available – occurring in wild condition
66	Grangea maderaspatana	Asteraceae		Herb	Available – occurring in wild condition
67	Stellaria media	Caryophyllaceae		Herb	Available – occurring in wild condition
68	Senna siamea	Caesalpiniaceae		Shrub	Available
69	Amaranthus viridis	Amaranthaceae		Herb	Available – occurring in wild condition
70	Desmodium triflorum	Papilionaceae		Herb	Available – occurring in wild condition
71	Andropogon ascinoides	Poaceae		Herb	Available – occurring in

				wild condition
72	Cardiospermum helicacabum	Sapindaceae	 Climb er	Available
73	Alternanthera sessilis	Amaranthaceae	 Herb	Available – occurring in wild condition
74	Alternanthera philoxeroides	Amaranthaceae	 Herb	Available – occurring in wild condition

(Specimen identification: Dr. D.K. Bhattacharjya)

The Medicinal plant garden:

The campus's Medicinal Plant Garden (also known as the Botanical Garden) also has a few carefully chosen plant species. While several plant species of varying relevance are also planted as a step to in situ conservation, most of the plants are therapeutic in nature (Table 4).

Table 4: List of species conserved in the Botanical Garden of the college



Sl. No.	Species	Family	Local name	Habit	Current status of existence
1	Bauhinia variegata	Fabaceae	Kanchan	Small tree	Available
2	Aloe vera	Asphodelaceae	Chalkun wari	Herb	Available
3	Eringium foetidum	Apiaceae	Man- dhaniya	Herb	Available
4	Cycas sp.	Cycadaceae		Small tree	Available
5	Vitex negundo	Verbenaceae	Pachatiy a	Small tree	Available
6	Tabernaemontana divericata	Apocynaceae	Kathand a phool	Shrub	Available
7	Mimosa pudica	Mimosaceae	Lajuki bon	Herb	Available
8	Alternanthera brassiliana	Amaranthaceae	Bishlyak arni	Herb	Available
9	Nepenthes khasiana	Nepenthaceae	Kolashi udvid	Shrub	Available
10	Hibiscus rosa-sinensis	Malvaceae	Joba	Small tree	Available

11	Litchi chinensis	Sapindaceae	Lichu	Small tree	Available
12	Saraca indica	Fabaceae	Ashok	Small tree	Available
13	Paederia foetida	Rubiaceae	Bhedai lota	Climber	Available
14	Adhatoda vasica	Acanthaceae	Bashok	Shrub	Available
15	Clerodendrum coleobrookianum	Lamiaceae	Nefafu	Shrub	Available
16	Myrraya paniculata	Rutaceae	Mamini kanchon	Shrub	Available
17	Glycyrrhiza glabra	Fabaceae	Jyesta madhu	Cliber	Available
18	Sauropus androgynus (L.) Merr.	Phyllanthaceae	Multivita min	Shrub	Available
19	Swertia chirayita	Gentianaceae	Chirota	Shrub	Available
20	Tradescantia spathacea	Commelinaceae		Herb	Available
21	Mangifera indica	Anacardiaceae	Aam	Tree	Available
22	Bryophyllum pinnatum	Crassulaceae	Dupor tenga	Herb	Available
23	Nyctenthes arbor-tristis	Oleaceae	Sewali	Small tree	Available
24	Euphorbia antiquorum	Euphorbiaceae	Siju	Herb	Available
25	Datura stramonium	Solanaceae	Dhatura	Shrub	Available
26	Araucaria araucana	Araucariaceae		Tree	Available

(Specimen identification: Dr. D.K. Bhattacharjya)



The garden also possesses a "Polyhouse" and a vermicompost plant.

The polyhouse (Greenhouse): The purpose of the polyhouse is to grow a small number of plants, such as orchids and plants of medicinal value, in a controlled environment. The plantation will be easier to manage throughout the year thanks to the structure.

The vermicompost plant: The plant is situated on the garden campus to serve two purposes. The plant performs the dual roles of producing compost and acting as a storage facility for organic waste. The plant keeps certain earthworm strains that are gathered from the Krishi Vigyan Kendra in Howly to process organic wastes into compost.





The fauna:



Numerous animal species can also be found on college campuses, in addition to floral aspects. Throughout the year, a wide range of animal species, including fish, arthropods, mammals, odonates (Table 6), and bird species (Table 5) can be seen on campus.

Table 5: Birds of M C College campus

Family	Common Name	Scientific Name
Columbidae	Rock Pigeon	Columba livia
	Spotted Dove	Streptopelia chinensis
	Yellow-footed Green-Pigeon	Treron phoenicopterus
Cuculidae	Greater Coucal	Centropus sinensis
	Asian Koel	Eudynamys scolopaceus
	Common Hawk-Cuckoo	Hierococcyx varius
Apodidae	Asian Palm-Swift	Cypsiurus balasiensis
Rallidae	White-breasted Waterhen	Amaurornis phoenicurus
Charadriidae	Little Ringed Plover	Charadrius dubius
Scolopacidae	Common Sandpiper	Actitis hypoleucos
Ciconiidae	Asian Openbill	Anastomus oscitans
	Lesser Adjutant	Leptoptilos javanicus

	Anhinga melanogaster
Great Cormorant	Phalacrocorax carbo
Little Cormorant	Microcarbo niger
Little Egret	Egretta garzetta
	Bubulcus ibis
Indian Pond-Heron	Ardeola grayii
	Pernis ptilorhynchus
	Hieraaetus pennatus
	Butastur teesa
Black Kite	Milvus migrans
Asian Barred Owlet	Glaucidium cuculoides
Spotted Owlet	Athene brama
Common Kingfisher	Alcedo atthis
	Halcyon smyrnensis
Green Bee-eater	Merops orientalis
Blue-tailed Bee-eater	Merops philippinus
Coppersmith Barbet	Psilopogon haemacephalus
Blue-eared Barbet	Psilopogon duvaucelii
Lineated Barbet	Psilopogon lineatus
	Psilopogon asiaticus
	Dendrocopos macei
	Dinopium benghalense
	Psittacula krameri
	Psittacula alexandri
	Oriolus xanthornus
	Artamus fuscus
·	Aegithina tiphia
	Rhipidura albicollis
	Dicrurus macrocercus
	Dicrurus hottentottus
	Lanius cristatus
	Lanius tephronotus
•	Dendrocitta vagabunda
	Corvus splendens
	Corvus macrorhynchos
	Culicicapa ceylonensis
	Parus cinereus
	Orthotomus sutorius
Barn Swallow	Hirundo rustica
Red-vented Bulbul	Pycnonotus cafer
	Phylloscopus fuscatus
Greenish Warbler	Phylloscopus trochiloides
	Zosterops palpebrosus
·	Turdoides striata
	Gracula religiosa
	Gracupica contra
	Sturnia malabarica
	Acridotheres tristis
Jungle Myna	Acridotheres fuscus
Juligic Miyila	
	Little Cormorant Little Egret Cattle Egret Indian Pond-Heron Oriental Honey-buzzard Booted Eagle White-eyed Buzzard Black Kite Asian Barred Owlet Spotted Owlet Common Kingfisher White-throated Kingfisher Green Bee-eater Blue-tailed Bee-eater Coppersmith Barbet Blue-eared Barbet Lineated Barbet Blue-throated Barbet Fulvous-breasted Woodpecker Black-rumped Flameback Rose-ringed Parakeet Red-breasted Parakeet Black-hooded Oriole Ashy Woodswallow Common Iora White-throated Fantail Black Drongo Hair-crested Drongo Brown Shrike Grey-backed Shrike Rufous Treepie House Crow Large-billed Crow Grey-headed Canary-Flycatcher Cinereous Tit Common Tailorbird Barn Swallow Red-vented Bulbul Dusky Warbler Greenish Warbler Indian White-eye Jungle Babbler Common Hill Myna Asian Pied Starling (Pied Myna) Chestnut-tailed Starling Common Myna

Muscicapidae	Oriental Magpie-Robin	Copsychus saularis
	Taiga Flycatcher	Ficedula albicilla
Dicaeidae	Scarlet-backed Flowerpecker	Dicaeum cruentatum
Nectariniidae	Purple Sunbird	Cinnyris asiaticus
	Crimson Sunbird	Aethopyga siparaja
Estrildidae	Scaly-breasted Munia	Lonchura punctulata
Passeridae	House Sparrow	Passer domesticus
	Eurasian Tree Sparrow	Passer montanus
Motacillidae	Grey Wagtail	Motacilla cinerea
	Citrine Wagtail	Motacilla citreola
	White Wagtail	Motacilla alba

Table 6: List of Odonates (Dragonflies and Damselflies) spotted in M.C. college campus

Order-	Odonata
	ler-Zygoptera
Sl. No.	Family- Lestidae
1	Lestes praemorsus (Hagen in Selys, 1862)
	Family- Chlorocyphidae
2	Libellago lineata (Burmeister, 1839)
	Family- Coenagrionidae
3	Aciagrion hisopa (Selys, 1876)
4	Aciagrion pallidum (Selys, 1891)
5	Agriocnemis femina (Brauer, 1868)
6	Agriocnemis lacteola (Selys, 1877)
7	Agriocnemis pygmaea pygmaea (Rambur, 1842)
8	Ceriagrion cerinorubellum (Brauer, 1865)
9	Ceriagrion coromandelianum (Fabricius, 1798)
10	Ceriagrion olivaceum (Laidlaw, 1914)
11	Enallagma parvum (Selys, 1876)
12	Ischnura aurora (Brauer, 1865)
13	Ischnura forcipata (Morton, 1907)
14	Mortonagrion aborense (Laidlaw, 1914)
15	Onychargia atrocyana (Selys, 1865)
16	Pseudagrion microcephalum (Rambur, 1842)
17	Pseudagrion rubriceps (Selys, 1876)
Sub-ord	ler-Anisoptera
	Family- Aeshnidae
18	Anax guttatus (Burmeister, 1839)
19	Gynacantha bainbriggei (Fraser, 1922)
	Family- Gomphidae
20	Ictinogomphus angulosus (Selys, 1854)
	Family- Libellulidae
21	Aethriamanta brevipennis (Rambur, 1842)
22	Brachydiplax chalybea (Brauer, 1868)
23	Brachydiplax farinosa (Kruger, 1902)
24	Brachydiplax sobrina (Rambur, 1842)
25	Brachythemis contaminata (Fabricius, 1793)
26	Crocothemis servilia (Drury, 1770)

27	Diplacodes nebulosa (Fabricius, 1793)
28	Diplacodes trivialis (Rambur, 1842)
29	Neurothemis fulvia (Drury, 1773)
30	Neurothemis intermedia (Rambur, 1842)
31	Orthetrum glaucum (Brauer, 1865)
32	Orthetrum sabina (Drury, 1770)
33	Pantala flavescens (Fabricius, 1798)
34	Potamarcha congener (Rambur, 1842)
35	Rhodothemis rufa (Rambur, 1842)
36	Rhyothemis variegata (Linnaeus, 1763)
37	Tholymis tillarga (Fabricius, 1798)
38	Tramea basilaris burmeisteri (Kirby, 1889)
39	Trithemis pallidinervis (Kirby, 1889)
40	Urothemis signata (Rambur, 1842)
41	Zyxomma petiolatum (Rambur, 1842)



Fox conservation centre:

The college campus maintains a Fox Conservation Centre facilitating undisturbed habitat and providing suitable environment for fox breeding. The centre occupies an area of 3.720 acre which is 23.60 % of the total land area of the campus. A few mounds are constructed by damping soil on the ground to support the burrowing nature of the animal. The growing commercial and residential pressure outside the college campus is being one of the major causes in losing the suitable habitat of a variety of animals. The initiative adopted by the college authority in conserving the habitat will certainly help the foxes for their comfortable living on one hand and for other animals on the other.

The Eco Club Unit:

Eco Club, M.C. College unit has been organizing various programmes and plantation drives to

create awareness among the students and teaching faculty of M.C.

College and students of other institutions.

Conserving Water will Save
Our Planet's Future
ज्ञाल जारकपूर्ट पृथ्वित कविष्णुं नका कविन

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A popular talk on "Fixing the ozone layer and reducing climate change" was organized on 15 th of September, 2023 in commemoration with the "World Ozone Day, 2023" in

the Department of Physics, Madhab Choudhury College, Barpeta. This programme was catalysed and supported by Assam Science Technology and Environment



Council and Science Technology & Climate Change Department, Govt. of Assam. A Week for Life was celebrated from 22nd to 28th March 2023 where postering on various themes was organized. A talk was also given by Dr. Hitesh Das, Dept of Chemistry on "Impact of Single use Plastic on Environment". The "World Wetland Day" was celebrated on 2nd February, 2023.

Drinking water, water use and management in the campus:





The college campus has a number of water sources, including ponds, tube wells, and groundwater drawn from deep bore wells utilising submersible and external water pumps. The main supply of drinking water, deep earthed water, is kept apart in large tanks in each of the different buildings. Separate units for extracting and storing groundwater are in the hostels for boys and girls. Utilising plants that are suggested for water purification, the stored water is made safe to consume. Additionally, a rainwater harvesting plant has been erected near the department of zoology and botany building. (Table 7 & 8).

Rain-water harvesting: Adjacent to the Department of Zoology is a rainwater collection plant. The plant has two outlets: one to feed water to the garden of medicinal plants, and

the other to the zoology department's laboratory. The plant is made up of a sizable 1000-liter water tank that is connected to two-way outlets and rainwater inlets.



Water quality of the college campus has been assessed by Enviro-Testing-Services (Accredited by SPCB Assam, ISO 9001, ISO 45001, MSME) Bijoy Nagar, House No -35, Noonmati, Guwahati -781020, Assam. The assessment record has been presented as follows:

Table 7: Methodology along with respective standards



S/N	Parameters	Test Methods	IS-10500
1	Odour	APHA 20 th Edition, 2150 B	Unobjectionable
2	Temperature (⁰ C)	Thermometry Method	50
3	Turbidity (NTU)	APHA 20 th Edition, 2130B	5
4	pН	APHA 20 th Edition, 4500-H+B	6.5 - 8.5
5	Conductance (mS/cm)	APHA 20 th Edition, 2510B	-
6	Total Dissolved Solid	APHA 20 th Edition, 2540 B	500
7	Total Suspended Solid	APHA 20 th Edition, 2540 B	-

8	Chloride (mg/L)	APHA 20 th Edition, 4500-Cl-	250
9	Residual Chlorine (mg/L)	APHA 20 th Edition, 4500-Cl-B	0.2
10	Sulphates as SO4 (mg/L))	APHA 20 th Edition, 4500-SO4 ²⁻	250
11	Nitrate (mg/L)	APHA 20 th Edition, 4500-NO3-	45
12	Fluoride (mg/L)	APHA 20 th Edition, 4500-F ⁻ D	1
13	Calcium (mg/L)	APHA 20 th Edition, 3500 B	75
14	Magnesium (mg/L)	APHA 20 th Edition, 3500 B	-
15	Iron (mg/L)	APHA 20 th Edition, 3111 B	0.3
16	Manganese	APHA 20 th Edition, 3111 B	0.1
17	Zinc	APHA 20 th Edition, 3111 B	5
18	Arsenic	APHA 20 th Edition, 3112 B	0.01
19	Total Coliform (MPN/100 mL)	APHA 20 th Edition, 3111 B	0
20	Faecal Coliform (MPN/100 mL)	APHA 20 th Edition, 9221 E	0

Table 8: Result of water testing

S/N	Parameters	Unit	DW1	DW2	DW3
1	Odour		NS	NS	NS
2	Temperature (⁰ C)	$0_{\mathbb{C}}$	22	22	22
3	Turbidity (NTU)	NTU	0.6	0.6	0.8
4	рН	_	7.1	7.1	7.2
5	Conductance (mS/cm)	mS/cm	0.42	0.62	0.48
6	Total Dissolved Solid (mg/L)	mg/L	68.0	64.0	66.0
7	Total Suspended Solid (mg/L)	mg/L	24.0	28.0	31.0
8	Chloride (mg/L)	mg/L	24.1	26.2	24.1
9	Residual Chlorine (mg/L)	mg/L	< 0.01	<0.01	<0.01
10	Sulphates as SO4 (mg/L))	mg/L	8.8	8.7	9.2
11	Nitrate (mg/L)	mg/L	4.8	6.4	7.1
12	Fluoride (mg/L)	mg/L	0.16	0.13	0.12
13	Calcium (mg/L)	mg/L	24.6	21.6	26.8
14	Magnesium (mg/L)	mg/L	26.3	22.3	28.1

15	Iron (mg/L)	mg/L	0.18	0.12	0.13
16	Manganese	mg/L	0.006	0.004	0.006
17	Zinc	mg/L	0.08	0.06	0.08
18	Arsenic	mg/L	< 0.001	< 0.001	<0.001
19	Total Coliform (MPN/100 mL)	mg/L	03	03	03
20	Faecal Coliform (MPN/100	mg /L	NIL	NIL	NIL
	mL)				

Air quality in the campus:

Air quality of the college campus has been assessed by Enviro-Testing-Services (Accredited by SPCB Assam, ISO 9001, ISO 45001, MSME) Bijoy Nagar, House No - 35, Noonmati, Guwahati -781020, Assam. The assessment record has been presented as follows (**Table 9**):



Table 9: Result of the air quality test

AMB	AMBIENT AIR QUALITY							
Duration (24 Hour)			Average					
S/N	Parameters	Unit	Concentratio n	Limit	Weather Condition*	Test Method		
1	Particulate Matter (PM10)	μg/m ³	72.4	100		IS5182(23)		
2	Particulate Matter (PM2.5)	μg/m ³	46.2	60		CPCB Guideline		
3	Sulphur Dioxide (SO2)	μg/m ³	14.2	80		IS5182(2)		
4	Nitrogen Dioxide(NO2)	μg/m ³	16.8	80	_	IS5182(vi)		
5	Pb in PM 10	μg/m ³	<0.2	1.0	_	IS5182(vi)		
6	Pb in PM2.5	μg/m ³	<0.2	1.0		IS5182(vi)		
7	Ni in PM10	ng/m ³	2.2	20		IS5182(vi)		

8	Ni in PM2.5	ng/m ³	<2.0	20		IS5182(vi)
	A : D1510		DD1	0.5	Clear	79.7100()
9	As in PM10	ng/m ³	BDL	06		IS5182(vi)
10	Agin DM2.5		DDI	06		IC5192(vi)
10	As in PM2.5	ng/m^3	BDL	06		IS5182(vi)

Noise level in the campus:

Ambient noise quality of the college campus has been assessed by Enviro-Testing-Services (Accredited by SPCB Assam, ISO 9001, ISO 45001, MSME) Bijoy Nagar, House No -35, Noonmati, Guwahati -781020, Assam. The assessment record has been presented as follows (**Table 10**):

Table 10: Ambient noise quality of the college campus

S/N	Locations			Daytime SPL(dB) am to 10 pm]		[6CPCB Limit SPL(dB)
		GPS Co-ordinate		Leq	Range	
1	College Main Gate	N26°19'36.4"	E091°00'06.9"	68.5	55 – 72	
3	Principal Office	N26°19'38.5"	E091°00'04.7"	64.2	58 – 71	
4	Play Ground	N26°19'38.3"	E091°00'07.3"	52.2	45 – 62	
5	Near Chemistry Department	N26°19'38.5"	E091°00'05.3"	56.1	49 – 66	
6	Near Physics Department	N26°19'37.9"	E091°00'01.7"	56.8	49 - 69	75
6	Near Zoology Department	N26°19'43.6"	E091°00'00.7"	61.3	46 - 63	
7	Boy's Hostel	N26°19'39.7"	E091°00'01.9"	61.4	39 - 65	
8	Girls Hostel	N26°19'41.0"	E091°00'01.6"	58.1	43 – 67	

Soil quality of the college campus:

Soil is the principal substratum for all living organisms. Soil determines the vegetation type of an area. Physicochemical properties of soil directly influence the biodiversity of an area. The soil condition of the college campus has been assessed by Enviro-Testing-Services (Accredited by SPCB Assam, ISO 9001, ISO 45001, MSME) Bijoy Nagar, House No – 35, Noonmati, Guwahati -781020, Assam. The assessment record has been presented as follows (**Table 11**):



Table 11: Study of soil quality in the college campus

S/N	Parameters	[S1]	[S2]	[S3]
1	PH (1: 2)	8.1	7.8	8.2
2	Conductance (ms)	0.36	0.23	0.26
	Sand (%)	87.0	84.6	83.4
3	Silt (%)	1.04	3.01	0.06
	Clay (%)	11.9	12.4	16.6
4	Water Holding Capacity (%)	41.3	46.1	48.3
5	Bulk Density (gcm ⁻³)	1.2	1.1	1.3
6	Cation Exchange capacity (meq/kg)	0.28	0.26	0.27
7	Nitrogen (%)	0.06	0.08	0.07
8	Potassium (mg/kg)	16.2	12.8	17.4
9	Sodium (mg/kg)	23.6	26.1	21.2
10	Calcium (g/kg)	18.3	16.6	19.6
11	Magnesium (mg/kg)	38.2	34.1	39.2
12	Phosphorous (mg/kg)	11.2	12.4	7.6
13	Organic matter (%)	0.68	0.54	0.64
14	Sodium Absorption Ratio (SAR)	1.8	1.4	2.8
15	Zinc (mg/kg)	19.3	22.4	18.6
16	Copper (mg/kg)	6.4	8.6	7.4

Energy Audit in College Premises:

An energy audit is a methodical examination of the organization's power usage to pinpoint and measure energy waste. It will support the energy optimisation of pollution control, safety concerns, and offer recommendations for how to enhance the system's operating procedures. It is essential to the system's programming in order to demonstrate and seek total energy. The audit process will put defensive measurements into reality technically providing the best feasible advise with regard to organisational, economic, and other aspects within a certain time frame. The review creates organisation references for better energy utilisation.





Table 12: Energy consumption

sources in the college campus (Bot: Botany, Zoo: Zoology; Phy: Physics, Che: Chemistry, Phyl: Philosophy, PSc: Political Science, Eco: Economics, Eng: English, Math: Mathematics, Asm: Assamese, Comp: Computer Science, Anth: Anthropology, Edu: Education, Hist: History, Geo: Geography, Lib: Library, Mhos: Men's hostel, Whos: Women's hostel, AC: Air conditioner, LED: Light Emitting dyad)

Room s/Hall s/Dep artme nts	Tub e	Led tub e	Bul b	LE D bul b	Ceil ing Fan	Sta nd Fan	AC	Ref rig- erat or	Pad bur ner	Co mp u ter	Pri n- ter	Pu mp	Mot or	Mis c
Bot	03	-	01	08	-	-	1	-	-	08	01	-	_	30
Zoo	09				12			01		02	01			03
Phy	10	-		07	23					10	01			1+6
Che	16	24	06	06	41	-	-					01		12+ 2
Phyl	02	-	-	04	10	-	-	-	-	-	-	-	-	-
PSc	-	-	02	-	02	-	-	-	-	-	-	-	-	01
Eco	01	-	-	_	-	-	-	-	-	-	-	_	_	01
Eng	01	-	-	-	01	-	-	-	-	-	-	-	-	01
Math	08	-	-	-	13	-	-	-	-	01	01	-	-	01
Asm	01	-	-	-	02	-	-	-	-	01	01	_	-	03
Comp	10	-	-	_	09	-	-	-	-	18	01	_	_	-
Anth	-	27	-	-	10	-	-	01	-	01	-	-	-	-

Edu	08				10									1,1,
Hist	01	_	-	-	01	-	-	-	-	-	-	-	-	-
Geo	-	18	08	-	-	-	-	-	-	-	-	-	-	-
Lib	12	39	-	-	24	06	-	_	_	20	01	_	_	1,1,
														1
MHos	26	-	02	-	29	-	-	-	-	-	-	-	01	01
WHos	11			122	57				02				03	6+1
Office	04	05	00	22	08	02	03	00	00	04	04	01	01	02



The average unit consumption against all the electrical appliances in the college has been estimated to be 3409.933 KWh. (Annexure-II). College authority has, however, initiated steps to harvest the green energy. As a part of that, six numbers of solar panels have been installed with an attached battery of 12 volt in each. Six numbers of electric bulbs (LED bulb) are being lighten in six different convenient locations in the

college campus. The total green energy harvested is estimated to be 45 watt per day in an average. College authority is also planning to extend solar power to a number of electrical inputs within this year.

Waste materials and waste disposal system:



discovered It is that the operations of many departments, college offices, canteens, and students create a range of waste items. departments produce a variety non-biodegradable and biodegradable trash, as do the office, canteen, and students. Typically, waste products are gathered in separate dustbins and disposed of at the municipality's landfill.



Nonetheless, the college administration intends to set quite a

few effective waste management facilities on campus. A non-biodegradable waste disposal facility has been installed as part of the effort, for which the college administration has made necessary agreement with famous innovator Padmashree Dr. Uddhab Bharali. Along with the college's PG Department of Botany, the authorities have also taken the effort to plant the

vermicompost. The various waste kinds and their management systems are shown in the table below (Table 12).

Table 12: Generated wastes and their management

Source of Waste	Biodegradable waste	Non-degradable waste (solid & liquid)	Disposal system
Department of Botany	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, chemical residues, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable suitable wastes are mixed with the soil of planted pots, others are collected in the separate dustbins.
Department of Zoology	Animal parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, chemical residues, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Physics	Plant parts, fallen leaves are being collected and dumped in pit for biodegradation. Old papers are archived at the department for official record.	Glass particles, chemical residues, packaged materials, polythene bags, used pen, pencil, glass/board, markers are dumped in separate dustbin. Batteries are being sent for recycling.	Separate dustbins are used for biodegradable and non-degradable wastes.
Department of Chemistry	chalk-pencils etc.	Glass particles, chemical residues, packaged materials, polythene bags, used pen, pencil, glass/board, markers are dumped in separate dustbin. Batteries are being sent for recycling.	Separate dustbins are used for biodegradable and non-degradable wastes.
Department of Mathematics	Chalk-pencil, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board, computer hardware parts etc.	Separate dustbins are used for biodegradable and non-degradable wastes.
Department of Computer Science	Chalk-pencil, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board,	Separate dustbins are used for biodegradable

		computer hardware parts etc.	and non- degradable wastes.
Department of Political Science	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Philosophy	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Assamese	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Economics	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Geography	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Separate dustbins are used for biodegradable and non-degradable wastes.
Department of Education	Plant parts, paper, tea residues, fallen leaves, wood etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, glass/board markers, battery, chalkpencils etc.	Biodegradable and non- degradable wastes are collected separately.
Department of Anthropology	Paper, tea residues, cotton, cotton cloths etc.	Glass particles, packaged materials, polythene bags, used pen, pencil, battery etc.	Collected in the dustbins.
Department of History	Paper, tea residues etc.	Packaged materials, polythene bags, used pen, pencil, glass/board markers, chalk-pencils etc.	Separate dustbins are used for biodegradable and non-degradable wastes.

Department of English	Plant parts, paper, tea residues, fallen leaves,	Glass particles, packaged materials,	Biodegradable and non-
	wood etc.	polythene bags, used pen, pencil, glass/board markers, battery, chalk- pencils etc.	degradable wastes are collected separately.
Kameswar Das Library	Plant debris, paper, tea residues, fallen leaves, wood pieces etc.	Glass particles, packaged materials, disposable plastic glass, plates and cups, polythene bags, used pen, pencil, glass markers, battery, Printer and photostat machine parts, printer's cartridge, other debris	Biodegradable and non- degradable wastes are
College Office	Paper, tea residues, fallen leaves, wood, disposable paper glass and cups, other debris etc.	disposable plastic glass, plates and cups, polythene bags, used pen, pencil, glass markers, battery, Printer and photostat machine parts, printer's cartridge, other debris etc.	and non- degradable
Canteen	Tea residues, fallen leaves, wood, disposable paper glass and cups, soup, uncooked and cooked residues, other debris etc.		and non-degradable
Café cum Photostat stall	Tea residues, fallen leaves, wood, disposable paper glass and cups, soup, processed and unprocessed tea-coffee items, snacks residues, other debris etc.	Packaged materials, disposable plastic glass, plates and cups, polythene bags, other debris etc.	and non-
Students related	Paper, snacks residues, other debris etc.	Disposable water bottle, packets of food items, polythene bags, used pen, pencil, glass markers, battery, other debris etc.	•

Construction	Cement, sand etc.	Cement bags, polythene	Generally
sites		bags, iron, tin and other	found scattered
		materials.	but
			periodically
			collected and
			disposed
			properly by the
			college
			authority.





Electronic waste management:

Electronic gadgets that are broken or outdated are produced by the College's Physics and Computer Science departments and are disposed of by approved merchants in Barpeta town. By having a separate storage space, the corresponding department separates its E garbage. The college administration makes money by selling the E garbage that the local vendor collects. As a result, the college administration is selling the outdated computers as well as any broken electrical or electronic components. Cartridges containing ink are replenished.

Cleanliness practices:

Maintaining a clean terrestrial and aquatic environment has been a major focus for the college authorities. Scouts from the NCC and NSS are assigned to clean the campus as a gauge of that practise. The Students' Union Body's Social Service Secretary organises group volunteer projects for the students, including campus cleanup. Aside from these regular procedures, the institution occasionally organises a few cleaning activities in accordance with certain national initiatives like *Swachhta Samaroh* and *Swach Bharat Abhiyan*.





BEST PRACTICES:

Maintaining the medicinal plant garden

Maintaining the vermicompost plant



Fox conservation centre



Plantation scheme



Solid waste disposal plant (chimney)



ACKNOWLEDGEMENT:

The Green Audit Committee is thankful to all the teachers and other employees of the college for their kind cooperation during field survey and data collection. The committee is grateful to Mr. Mukul Uzir, LDA, College office for his helping hand during compilation and final assessment of the report. Thanks also go to the students of different semesters within the period 2022-23 for their support and necessary cooperation during field survey and preparation of the report. The committee members and the college authority will remain always grateful to Prof. Bhaben Tanti and Dr. Diganta Narzary, Associate Professor, Department of Botany, Gauhati University, Guwahati (Assam) for their visit to the college and valuable suggestions regarding maintenance of the green environment.

ANNEXURES

Annexure-I

GOVERNMENT OF ASSAM

OFFICE OF THE CIRCLE OFFICER::: BARPETA REVENUE CIRCLE,
BARPETA.

No. 673

Dated :- 26/02/2016

TO WHE SO EVER IT MAY CONCERN

This is to certificat a plot of land measuring 27 bigha 3 katha 6 lessa and 20 bigha covered by Dag No. 225 & 226 respectively and Short lease patta No. 30 of Barpeta Town under Barpeta Mouza is standing in the name of Madhab Choudhury College, Barpeta as per existing land record and report obtained from the recorder of this office.

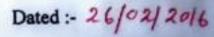
Circle Officer,

Barpeta Revenue Circle,

GOVERNMENT OF ASSAM

OFFICE OF THE CIRCLE OFFICER::: BARPETA REVENUE CIRCLE,
BARPETA.

No. 673



TO WHOM SO EVER IT MAY CONCERN

This is to ceraty that a plot of land measuring 27 bigha 3 katha 6 lessa and 20 bigha. Evere'l by Dag No. 225 & 226 respectively and Short lease patta No. 30 of Barpeta Town under Barpeta Mouza is standing in the name of Madhab Choudhury College, Barpeta as per existing land record and report obtained from the recorder of this office.

Circle Officer,
Barpeta Revenue Office,
Barpeta Same

GOVERNMENT OF ASSAM

OF THE CIRCLE OFFICER::: BARPETA ... ENT E CIRCLE,

BARPETA.

No. 673

Dated: - 26/02/2016



This is to certify that a plot of land measuring 27 bigha 3 katha 6 lessa and 20 bigha covered by Dag No. 225 & 226 respectively and Short lease patta No. 30 of Barpeta Town under Barpeta Mouza is standing in the name of Madhab Choudhury College, Barpeta as per existing land record and report obtained from the recorder of this office.

Barpeta Revenue Officer,
Barpeta Revenue Officer,







NAME OF ELECTRICAL SUB-DIVISION / IRCA : IRCA BARPETA
CIN: U4010BAS2003SGC007242
GSTIN: 18AABCL1354J1ZJ
ELECTRICITY BILL

Website: www.apdcl.org

Centralized Customer Care Number: 1912

Consumer Name: PRINCIPAL M.C.COLLEGE

Address: ,MC COLLEGE BARPETA BARPETA

Tariff Category: HT IV BULK SUPPLY (GOVERNMENT EDUCATION)

Consumer Number: 063000000003

Old Consumer Number: 63000000904

DTR Number: M101HDU1

Pole Number :000

Connected Load in KW: 200.0

Contracted Demand in KVA: 75.0

Load Security:441825.430 Meter Number: X1476341

Supply Voltage Level: HT

Email: info@mccasam.org

Contact Number: 9435024357

BIII Amount: 32201.000

Due Date: 21-Feb-2022

Bill Number:900007523

Bill Period: 01-Jan-2022 To 31-Jan-2022

Bill Date : 05-Feb-2022 Number of Days: 31 Meter Status: RUNNING Billing Status: NORMAL



Meter Reading Details

Reading Type	Meter Number	MF	Desta Desta	-				
		77	Previous Reading in KWh	Previous Export in	Current Reading	Current Export in	Difference	Difference Export
KWH(Normal)	X1476341	200.0	128,670		an extern	KWh	Reading in KWh	in KWh
ALTONOM CONTRACTOR		1222.0	1120.070	0.000	144.430	0.000	15.760	0.000

Units Consumed	PF Pe	nalty/Rebate	LT Metering	Penalty DTR Penalty		HT Rebate	Local					77	
Normal 3152.000	22.47			- 221 2500000000	m redate	Voltage Rebate		Voltage Penalty		Billab	Billable Units in		
	rmal 3152.000 -32.470 94.560 corded Demand (in KVA) 0.05			I.		0.000	0.000	0.000		0.000		3214.090	
		0.00	Meximum Demand (ir		um Demand (in KVA)	10.6	1	Billing Demand (in		.0 Avera		91.8	
Power on Hours		744.0		_				KVA)		Factor			
D		2000						Availability Pe	rcentage			-	

Billing Details

D. 22224 252	Outstanding Amount	Adjustment Amount	Solar Rebat					
Rs. 32201.260	Rs. 0.000	Rs. 0.000			Net Bill Amo			
		114.0.000	0.00	1	Rs. 32201			
LEASE PAY YOUR D	ILL ON TIME AND HELP US TO			/	In Words: Hundred	Rupees Th	irty Two T	housands Tv
LOCETAL TOOK B	ICT ON TIME WAD HELP US TO	SERVE YOU BETTER	· · · · ·	Charges Brea	kup		7. 4.	
			7000	Details		Units	Rate	Amount
	32			Energy Charg	e(Normal)	3214.090	6.450	20730.880
				Total Energy	Charge			20730.88
			. /	Energy Charg	e Re-			0.000
) '	Rooftop Solar	Adiostruci	-	-	
			\times	Demand/Fixed	Chament		-	0.00
Ener	gy Consumption (Last	Month's Bill)	07	(KVA)	Charge	75.0	130.0	9936.99
1		VIII - CONT. 1C. VIII	_ 0	Electricity Doty				1533.39
TO 4,000 -				Govt. Subsidy	1		0.0	-
<u> </u>			11 9	Overdrawal Pe	nalty			10.0
			10					0.0
£ 1,000 1				Meter Rent	1		0.0	_
1,000 -				Meter Rent Charges for dis cheque	honoured		0.0	0.0
2,800				Charges for dis			0.0	0.0 0.0 0.0
				Charges for dis			0.0	0.0 0.0 0.0
2,400				Charges for dis cheque Arrear Principa			0.0	0.0 0.0 0.0 0.000 0.000
2,400 d			=	Charges for dis cheque Arrear Principa Arrear Surchar Current Surcha Adjustment Am	ge ge		0.0	0.0 0.0 0.0 0.000 0.000
2,000		orth4 North5 Month6	=	Charges for dis cheque Arrear Principa Arrear Surchar Current Surcha Adjustment Am Rebate if pai	ge rys bunt d before di	e date	0.0	0.0 0.0 0.0 0.000 0.000 0.000
1,000	h1 Month? Month? Mo Months	orth4 Month5 Month6	=	Charges for dis cheque Arrear Principa Arrear Surchar Current Surcha	ge rys bunt d before di	e date	0.0	0.0 0.0 0.0 0.000 0.000

Checked by E&OE:

Prepared by: 40003994

Signature with seal

M. M. 862



(B-2)

Assam Power Distribution Company Limited

NAME OF ELECTRICAL SUB-DIVISION / IRCA : IRCA BARPETA
CIN: U4010BAS20035GC007242
GSTIN: 1BAABCL1354J1ZJ
ELECTRICITY BILL

Website: www.apdcl.org

Contact Number 9435024357

Email: info@mccasam.org

Supply Voltage Level: HT

Centralized Customer Care Number 1912

Consumer Name: PRINCIPAL M.C.COLLEGE

Address: .MC COLLEGE BARPETA,BARPETA

Tariff Category: HT IV BULK SUPPLY (GOVERNMENT EDUCATION)

Consumer Number: 063000000003

Old Consumer Number: 63000000904

DTR Number: M101HDU1

Pole Number :000

Connected Load in KW: 200.0

Contracted Demand in KVA: 75.0

Load Security:441825.430

Moler Number: X1476341

Bill Amount: 30708.000

Due Date: 21-Mar-2022

Bill Number:900008060

Bill Period: 01-Feb-2022 To 28-Feb-2022

Bill Date: 06-Mar-2022 Number of Days: 28 Meter Status: RUNNING Billing Status: NORMAL



Meter Reading Details

Reading Type	Meter Number	MF	D			II. Carlotte and the second		
			Previous Reading in KWh	Previous Export in KWh	Current Reading	Current Export in	Difference	Difference Export
KWH(Normal)	X1476341	200.0	1-1-1,430		in KWh	KWh	Reading in KWh	in KWh
		100	1-11.430	0.000	159.840	0.000	15.410	0.000

Units Consumed	PF Per	nalty/Rebate	LT Meterine	Denalty	enalty DTR Penalty HT Rebate							
Normal 3092 ppp 24 750			and a country		OTR Penany	HT Rebate	Voltage Rebate		Voltage Penalty		Billable Units in	
Normal 3082.000	-31.75	0	92,460		0.000	0.000					KWh	
Recorded Demand (in KVA) 0.06			1		0.000	0.000	31	0.000		3142	720	
			Maxim	num Demand (in KVA)	12.0		Billing Demand (in KVA)	75.0	Avera	rage 94.0		
Power on Hours		672.0						Availability Pr	eccentage	Facto	_	-

Billing Details

Current Demand	Outstanding	murc	Adjustment Amount	Solar Rebate		Net Bill Amo			
Rs. 30708.170	Rs. 0.000		Rs. 0.000	0.00	1	Rs. 30708			
				10.00	-				
					1	Hundred E	Rupees Thi	rty Thous	ands Seven
LEASE PAY YOUR BI	LL ON TIME AND	HELP US TO	SERVE YOU BETTER	, X	Charges Bre			12(1)	
				1	Details		Units	Rate	Amount
				/	Energy Chan	ge(Normal)	3142.720	6.450	20270 540
				1	Total Energy	Charge	1		20270 54
felar i				/	Energy Char Estimated	ge Re-			0 000
				1	Rooftop Sola	r Adjustment			0.00
Ene	rgy Consum	tion (Last	Month's Bill)		Demand/Fixe (KVA)	d Charge	75.0	130.0	8975 34
				1	Electricity Du	ity			1462 29
					Govt. Subsid	y		00	0.0
4.000					Overdrawal I	Penalty			0.0
3.000					Meter Rent			0.0	0.0
2.000 -					Charges for cheque	distronoured			00
5					Arrear Princi	pal			0.000
£ 1,000 -					Arrear Surch	ege			0.000
					Current Surc	harge			0.000
	,				Adjustment /	Amount			0.000
	nth1 Month2	ranth3 Ma	menths Months	6	Rebate If	paid before	due date		0.00
Mo									
		Months			Payable a	mount befo	re due date		30708.0

Checked by E&OE:

Propared by: 40003994

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Signature with seal

N2-12-62



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

Website: www.apdcilorg

Contact Number: 9435024357

Email: info@mccasam.org

Supply Voltage Level: HT

Centralized Customer Care Number: 1912

Consumer Name: PRINC:PAL M.C.COLLEGE

Address: .MC COLLEGE BARPETA,BARPETA

Consumer Number: 063000000003 Old Concumer Number: 63000000904

DTR Number: M101HDU1

Pole Number :000

Connected Load in KW: 200.0

Contracted Demand in KVA: 75.0

Load Security:441825.430

Tariff Calegory: HT IV BULK SUPPLY (GOVERNMENT Meter Number: X1086975

Bill Amount: 44664.000

Due Date: 21-Apr-2022

Bill Number:900008592

Bill Period: 01-Mar-2022 To 31-Mar-2022

Bill Date : 06-Apr-2022 Number of Days: 31 Meter Status: RUNNING Billing Status: NORMAL

Meter Reading Details

Reading Type	Meter Number	MF									
	meson rediriger	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading in KWh		Difference	Difference Export			
KWH(Normal)	X1086975	200.0	0.000	Contraction of the Contraction o		KWh	Reading in KWh	in KWh			
MARINES			0.000	0.000	23.100	0.000	23.100	0.000			
KWH(Normal)	X1476341	200.0	159.840	0.000	161.990			0.000			
				0.000	101,390	0.000	2 150	0.000			

Units Consumed	PF Per	nalty/Rebate	LT Metering	Penalty	DTR Penalty	HT Rebate	Voltag	e Rebate	Voltage Per	alty	Billable	Units in
Normal 4620.000	-142.7	50	138.600		0.000 -	0.000				~ **	KWh	
Normal 430.000	4.430					0.000	0.000		0.000		4615.8	40
	-		12.900		0.000	0.000	0.000		0.000		438.470	
decorded Demand (in KVA) 0.12			Maximum Demand (in KVA)		24.0		Billing Demand (in KVA)	75.0	Avera Powe Facto	ge	97.8	
Power on Hours	wer on Hours 648.0						Availability Pe	ercentane	1			

Billing Details

Current De	Total Control of the	Outstanding Amount	Adjustment Amount	Solar Rebat	0	Net Bill Amo	unt		- '
Rs. 44664	.150	Rs. 0.000	Rs. 0.000	0.00		Rs. 44664.	000 .		
					ž.,	In Words:		ty Four The	ousands Six
LEASE P	PAY YOUR B	ILL ON TIME AND HELP US TO	O SERVE YOU BETTER		Charges B				751 = -
	+				Details	732230	Units	Rate	Amount
					Energy Ch	arge(Normal)	4615.840	6.450	29772.170
					Energy Ch	arge(Normal)	438.470	6.450	2828.130
					Total Ener	gy Charge			32600.30
	Ene	rgy Consumption (Las	st Month's Bill)		Energy Ch Estimated	arge Re-			0.000
5.0	en J				Rooftop St	alar Adjustment			0.00
0.000					Demand/F (KVA)	xed Charge	75.0	130.0	8654.79
Energy Consumed					Demand/F (KVA)	ixed Charge	75.0	130.0	1282.19
ပိ					Electricity	Duty			2126 87
£ 2.00	90 1				Govt Subr	sidy		0.0	0.0
5 100	00 -				Overdrawe	I Penalty			0.0
					Meter Ren	1		0.0	0.0
	-	ment Month? Morph	Months Months Months		Charges for cheque	or dishonoured			0.0
			gan banka kata S	\supset	Arrear Pris	scipal			0.000
		A /WT	ns .	-	Arrear Sur	charge			0.000
	- 5	1/1/00	.) 1		Current Se	archarge			0 000
		N- N- SEVI	24-		Adjustmen	d Amount			0.000
	1	12 1	07	>	Rebate	f paid before	due date		0.00
	/					amount befo			44664.0
		1				amount after			44664.0

Checked by E&OE:

Prepared by: 40003994

Signature with seal



(B-4)

Assam Power Distribution Company Limited

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

Website: www.apdcl.org

Centralized Customer Care Number: 1912

Consumer Name: PRINCIPAL M.C.COLLEGE

Address: ,MC COLLEGE BARPETA, BARPETA

TO SOLLEGE BROYETA, BARFETA

Contact Number : 9435024357 Email : info@mccasam.org

Tariff Category: HT IV BULK SUPPLY (GOVERNMENT EDUCATION)

Supply Voltage Level: Supply Voltage Level 11 KV

Consumer Number: 063000000003

Old Consumer Number: 63000000904

DTR Number: M101HDU1 Pole Number: 000

Connected Load in KW: 200.0 Contracted Demand in KVA: 75,0 Load Security:441825,430

Meter Number: X1086975

Bill Amount: 45071.000

Due Date: 24-May-2022

Bill Number:900009171

Bill Period: 01-Apr-2022 To 30-Apr-2022

Bill Date: 09-May-2022 Number of Days: 30 Meter Status: RUNNING Billing Status: NORMAL

Meter Reading Details

Reading Type	Meter Number	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading in KWh	Current Export in	Difference Reading in KWh	Difference Export
KWH(Normal)S	X1086975	200.0	23.100	0.000 .	47.000	0.000	23.900	0.000

Units Consumed	PF Pe	nalty/Rebate	LT Metering P	enalty	DTR Penalty	HT Rebate	Voltag	e Rebate	Voltage Pe	naity	Billable Units in KWh	
Normal(S) 4780,000	-98.47	0	143.400		0.000	0.000	0.000		0.000		4824.	930
Recorded Demand	(in KVA)	0.12		Maxim	um Demand (in KVA)	24.0		Billing Demand (in KVA)	75.0	Avera Power Factor		96.6
Power on Hours		720.0			٠			Availability Pe	rcentage			

Billing Details

Current Demand	Outstanding Amount	Adjustment Amount	Solar Rebate	Net Bill Amo	ount		
Rs. 45070.660	Rs. 0.000	Rs. 0.000	0.00	Rs. 45071	.000		,
				In Words: Seventy C	Rupees Fo	rty Five Th	ousands
LEASE PAY YOUR B	LL ON TIME AND HELP US T	TO SERVE YOU BETTER	Charges Br	eakup			
			Details		Units	Rate	Amount
	10		Energy Cha	rge(Normal)S	4824.930	6.750	32568,280
			Total Energ	y Charge			32568.28
		,	Energy Cha Estimated	rge Re-			0.000
			/ Rooftop Sol	ar Adjustment			0.00
200	20 00 0		Demand/Fix (KVA)	ed Charge	75.0	140.0	10356.16
Ener	gy Consumption (Las	st Month's Bill)	Electricity D	uty			2146.22
5,000 -			Govt, Subsid	ty		0.0	0.0
v			Overdrawal	Penalty		7487-7	0.0
£ 4,000 -	3 TO 1	Common Co	Meter Rent			0.0	0.0
3,000			Charges for cheque	dishonoured			0.0
à 2,000 -			Arrear Princi	pal			0.000
1,000 -			Arrear Surch	arge			0.000
u 1			Current Surc	harge			0.000
٠] 🗀	DOWN I MANUAL INCOME.	Marie Control Design	Adjustment A	mount			0.000
Mon	h1 Month2 Month3	Month4 Month5 Month6	Rebate if p	ald before d	ue date		0.00
	Month		Payable ar	nount before	due date		45071.00
	monu			nount after d			

Checked by E&OE:

Prepared by: 40003994

Signature with seal

M. M. DEUD



NAME OF ELECTRICAL SUB-DIVISION / IRCA: BARPETA ESD / IRCA BARPETA CIN: U40109AS20035GC007242

GSTIN: 18AABCI 1354J1ZJ ELECTRICITY BILL

Website www.apdcl.org

Centralized Customer Care Number: 1912

Consumer Name: PRINCIPAL M.C.COLLEGE

Address: ,MC COLLEGE BARPETA, BARPETA

ASSESS. INC COLLEGE BARPETA BARPETA

Contact Number 9435024357 Email : info@mccasam.org

Tariff Category, H1 IV BULK SUPPLY (GOVERNMENT EDUCATION)

Supply Voltage I evol: Supply Voltage Level 11 KV

Consumer Number: 063000000003

Old Consumer Number: 63000000904

DTR Number: M101HDU1 Pole Number:000

Connected Load in KW: 200.0

Contracted Demand in KVA: 75.0 Load Security:441825.430

Meter Number: X1086975

Bill Amount: 59257.000

Due Date: 20-Jun-2022

Bill Number:900009405

Bill Period: 01-May-2022 To 31-May-2022

Bill Date: 05-Jun-2022 Number of Days: 31 Meter Status: RUNNING Billing Status: NORMAL

Meter Reading Details

		_						
Reading Type	Moter Number	MF	Previous Reading	Previous Export in KWh	Current Reading in KWh	Current Export in KWh	Difference Reading in KWh	Difference Export
KWH(Normal)S	X1086975	200.0	47.000	0.000	80.800	0.000	33.800	0.000

Units Consumed	PF Pe	nalty/Rebate	LT Metering P	enalty	DTR Penalty	HT Rebate	Voltag	ge Rebate	Voltage Per	naity	Bilabi	e Units in
Normal(S) 6750.000	-139.2	60	202.800		0.000	0.000	0.000		0.000		6823	540
Recorded Demand (in KVA) 0.17			Maximum Demand (in KVA)		34.0		Billing Demand (in KVA)	75.0	Average Power Factor		96.6	
Power on Hours 744.0						Availability Pe	ercentage	10000				

Billing Details

Current Demand	Outstanding Amount	Adjustment Amount	Solar Rebate	,	Net Bill Amo	unt		
Rs. 59257.090	Rs. 0.000	Rs. 0.000	0.00		Rs. 59257	.000		
						Rupees Fifty Fifty Seven O		ousands Two
LEASE PAY YOUR B	ILL ON TIME AND HELP US TO	SERVE YOU BETTER	AC. ".	Charges Bre	akup			-27
				Details		Units '	Rate	Amount
				Energy Char	rge(Normal)S	6823.540	6.750	46058 890
	0.5			Total Energy	Charge			46058.89
				Energy Char Estimated	rge Re-	4		0 000
				Rooftop Solo	ar Adjustment			0.00
				DemandrFix (KVA)	ed Charge	75.0	140.0	10701 37
Ene	rgy Consumption (Las	t Month's Bill)		Electricity D	uty			2838 01
1 100 - r - "				Govt Subsit	fy		0.0	0.0
- 1000		7	1	Overdrawal	Penalty			0.0
5.000 -		1.)		Meter Rent			0.0	0.0
4.000		2/		Charges for cheque	dishonoured			0.0
2 1.000		0 0		Arrear Princi	ipal			0.000
E 2,060 -				Arrear Surch	narge			0 000
iii 1000 1				Current Surc	charge			0.000
				Adjustment	Amount			0.000
	out Monty Months	Months Months Months	05	Rebate if	paid before	due date		0.00
369				Payable a	mount befor	e due date		59257.00
	Month			Payable a	mount after	due date		59257 00

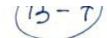
Checked by E&OE

Prepared by: 40003994

Signature with seal







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

Website: www.apdcl.org

Centralized Customer Care Number: 1912

Consumer Name: PRINCIPAL M.C.COLLEGE

Address: ,MC COLLEGE BARPETA,BARPETA

Consumer Number: 063000000003

DTR Number: M101HDU1

Pole Number :000

Connected Load in KW: 200.0

Contact Number: 9435024357 Email: info@mccasam.org

Tanii Category: HT IV BULK SUPPLY (GOVERNMENT EDUCATION)

Supply Voltage Level: Supply Voltage Level 11 KV

Old Consumer Number: 63000000904

Contracted Demand in KVA: 75.0

Load Security:441825.430

Meter Number: X1086975

Bill Amount: 83998.000

Due Date: 21-Jul-2022

Bill Number:900010163

Bill Period: 01-Jun-2022 To 30-Jun-2022

Bill Date : 06-Jul-2022 Number of Days: 30 Meter Status: RUNNING Billing Status: NORMAL



Meter Reading Details

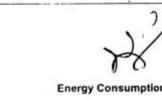
Readiny Type	Meter Number	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading in KWh	Current Export in KWh	Difference Reading in KWh	Difference Export in KWh
KWH(Normal)S	X1086975	200.0	80.800	0.000	132.800	0.000	52.000	0.000

Units Consumed	PF Pe	nalty/Rebate	LT Metering P	enalty	DTR Penalty	HT Rebate	Voltag	e Rebate	Voltage Per	naity	Billabi KWh	le Units in
Normal(S) 10400.000	-321.3	60	312.000		0.000	0.000	0.000		0.000		10390	640
Recorded Demand	(in KVA)	0.17		Maxim	um Demand (in KVA)	34.0		Billing Demand (in KVA)	75.0	Avera Power Factor	7	98.1
Power on Hours		720.0		Freez	te Amount	0.0		Availability Pe	ercentage			St. Thomas

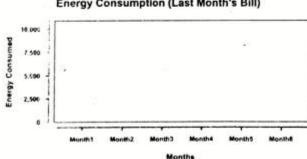
Billing Details

Current Demand	Outstanding Amount	Adjustnient Amount	Solar Rebate	Net Bill Amount
Rs. 83998.100	Rs. 0.000	Rs. 0.000	0.00	Rs. 83998.000
	w.t			In Words: Rupees Eighty Three Thousands Nine Hundred Ninety Eight Only

PLEASE PAY YOUR BILL ON TIME AND HELP US TO SERVE YOU BETTER



Energy Consumption (Last Month's Bill)



Charges Breakup	- 100	WE'T W	
Details	Units	Rate	Amount
Energy Charge(Normal)S	10390.640	6.750	70136.820
Total Energy Charge			70136.82
Energy Charge Re- Estimated			0.000
Rooftop Solar Adjustment			0.00
Demand/Fixed Charge (KVA)	75.0	140.0	10356.16
FPPPA Charge		-0.05	-519.53
Electricity Duty			4024.65
Govt. Subsidy		0.0	0.0
Overdrawal Penalty			0.0
Meter Rent		0.0	0.0
Charges for dishonoured cheque			0.0
Arrear Principal			0.000
Arrear Surcharge			0.000
Current Surcharge			0.000
Adjustment Amount			0.000
Rebate if paid before due date			0.00
Payable amount before due date			83998.00
Payable amount after due date			83998.00

Checked by E&OE: Prepared by: 40003011

Signature with seal