

# DR. B.K.B. COLLEGE PURANIGUDAM

---

Estd. 1967



GREEN CAMPUS



## CRITERIA – 7 Institutional Values and Best Practices

**QIM: 7.1.3 Describe the facilities in the institution for the management of the following types degradable and non-degradable waste (within 500 words)**

**Submitted to**

**National Assessment and Accreditation Council (NAAC), Bangalore, India**



## CONTENT

| Sl No | Particulars                                  | Page No |
|-------|--|---------|
| 1     | Solid Waste Management                       | 1-4     |
| 2     | Liquid Waste Management                      | 5-6     |
| 3     | E-waste Management                           | 7-8     |
| 4     | Bio-Medical Waste Management                 | 9-10    |
| 5     | Plastic Free Zone                            | 10-12   |
| 6     | Vehicles Free Campus-1                       | 13      |
| 7     | Tobacco Free Zone                            | 13-15   |
| 8     | Swachha Bharat Abhijan and Cleanliness Drive | 15-16   |
| 9     | Green Audit                                  | 17-19   |
| 10    | Energy Audit                                 | 20-22   |
| 11    | Seminar on Waste Management                  | 23-26   |

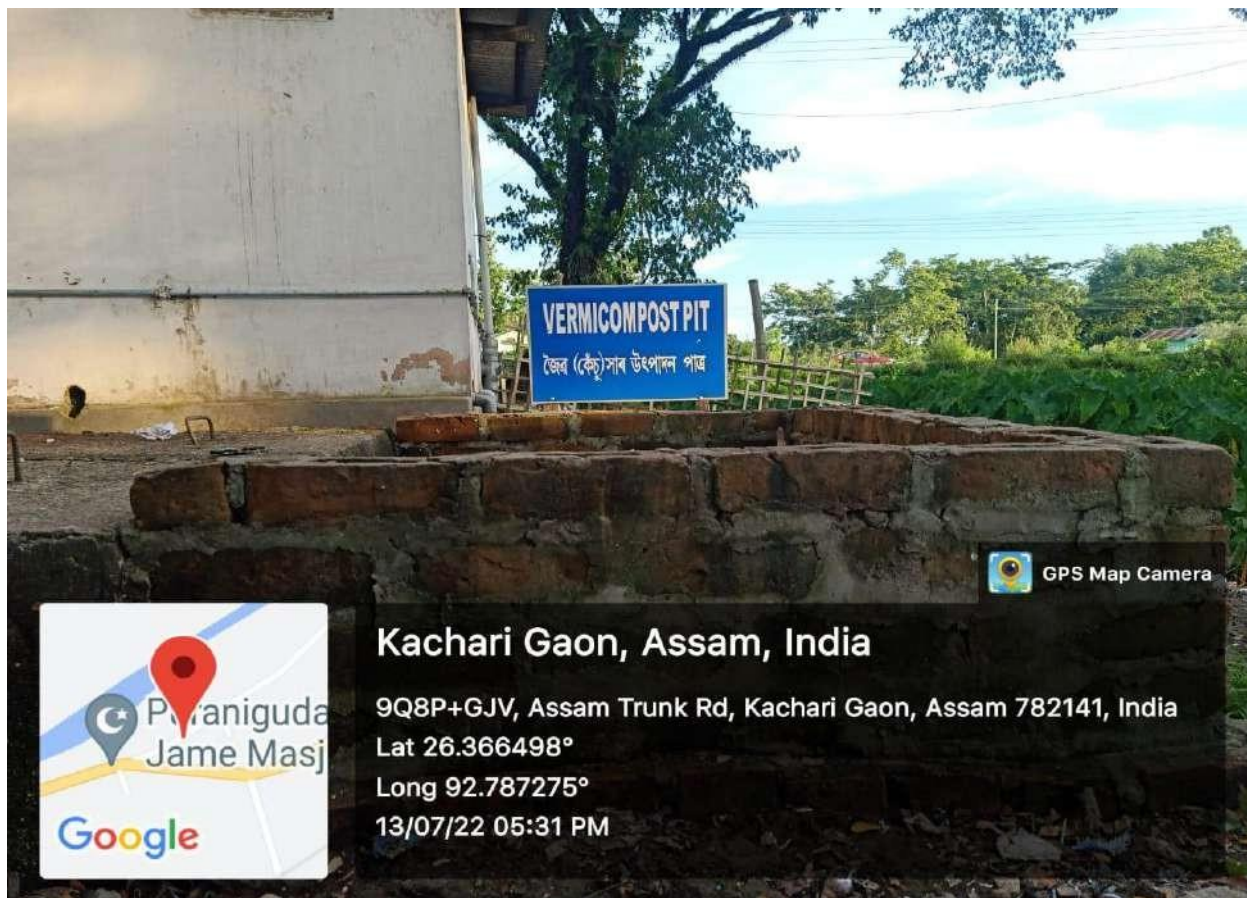
## Solid Waste Management Mechanisms

Waste Management: Photo of colour dustbin to collect paper and plastic waste separately





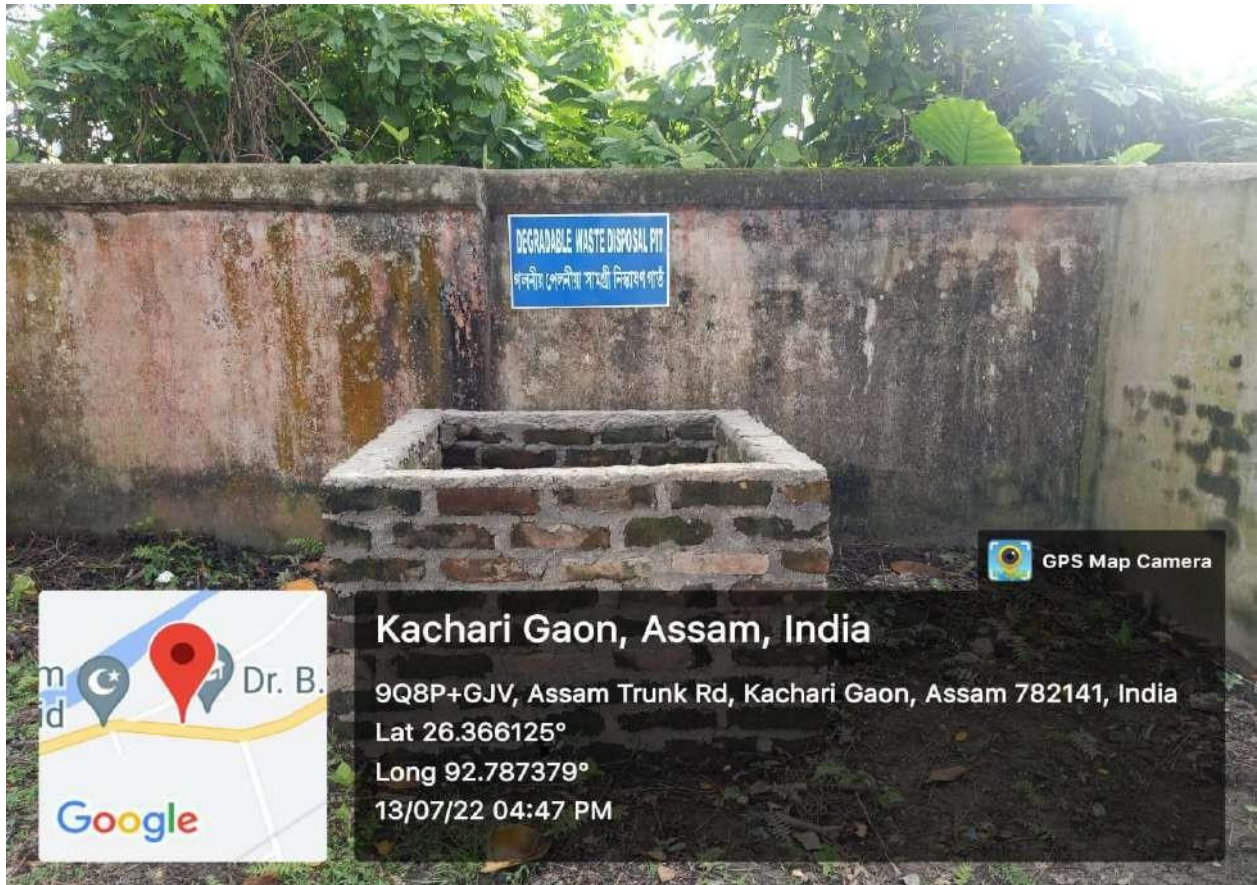
Photo of Dust Bin



**Degradable Waste Management: Photo of Vermicomposting Pit**



**Non-Degradable Waste Management: Photo of Disposal Pit**



Degradable Waste Management: Photo of Disposal Pit

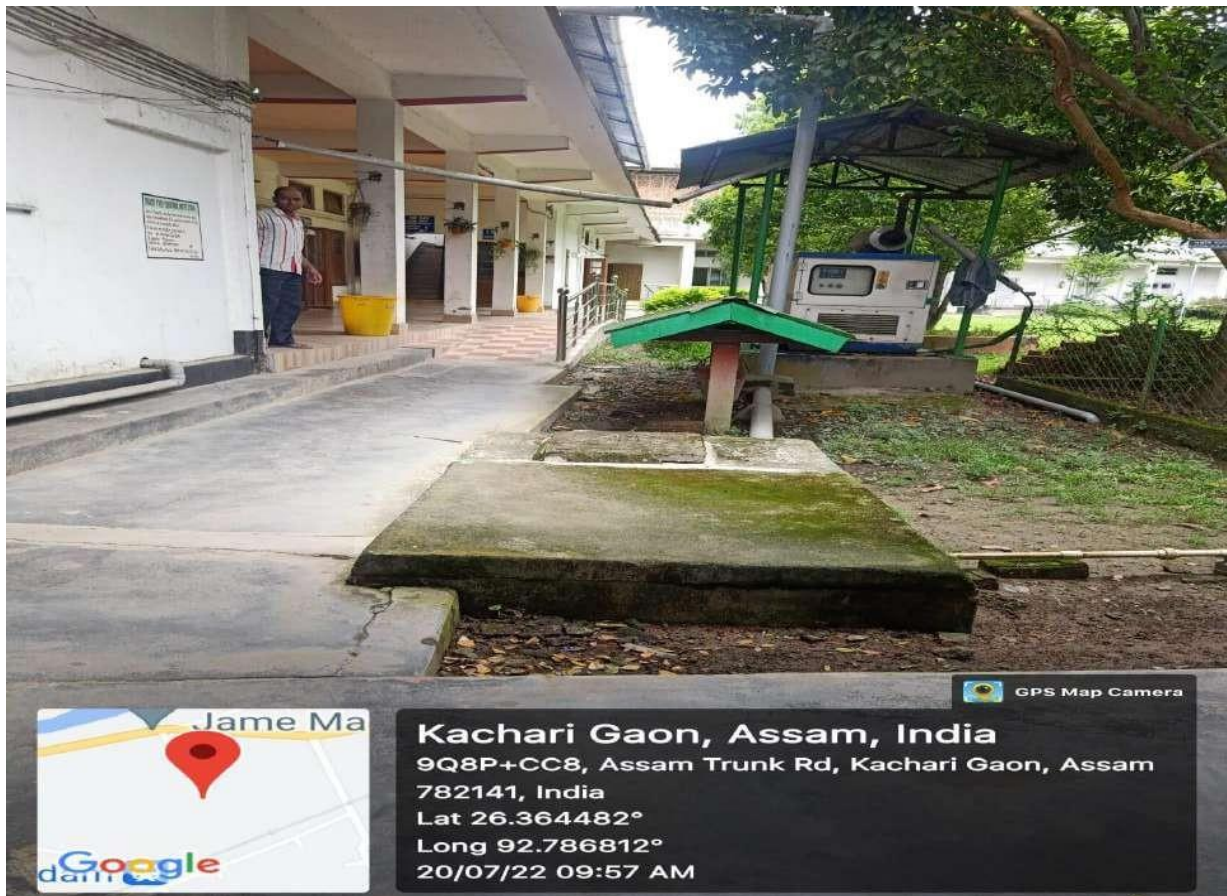


Degradable Waste Management: Photo of Disposal Pit inside the Girl's Hostel

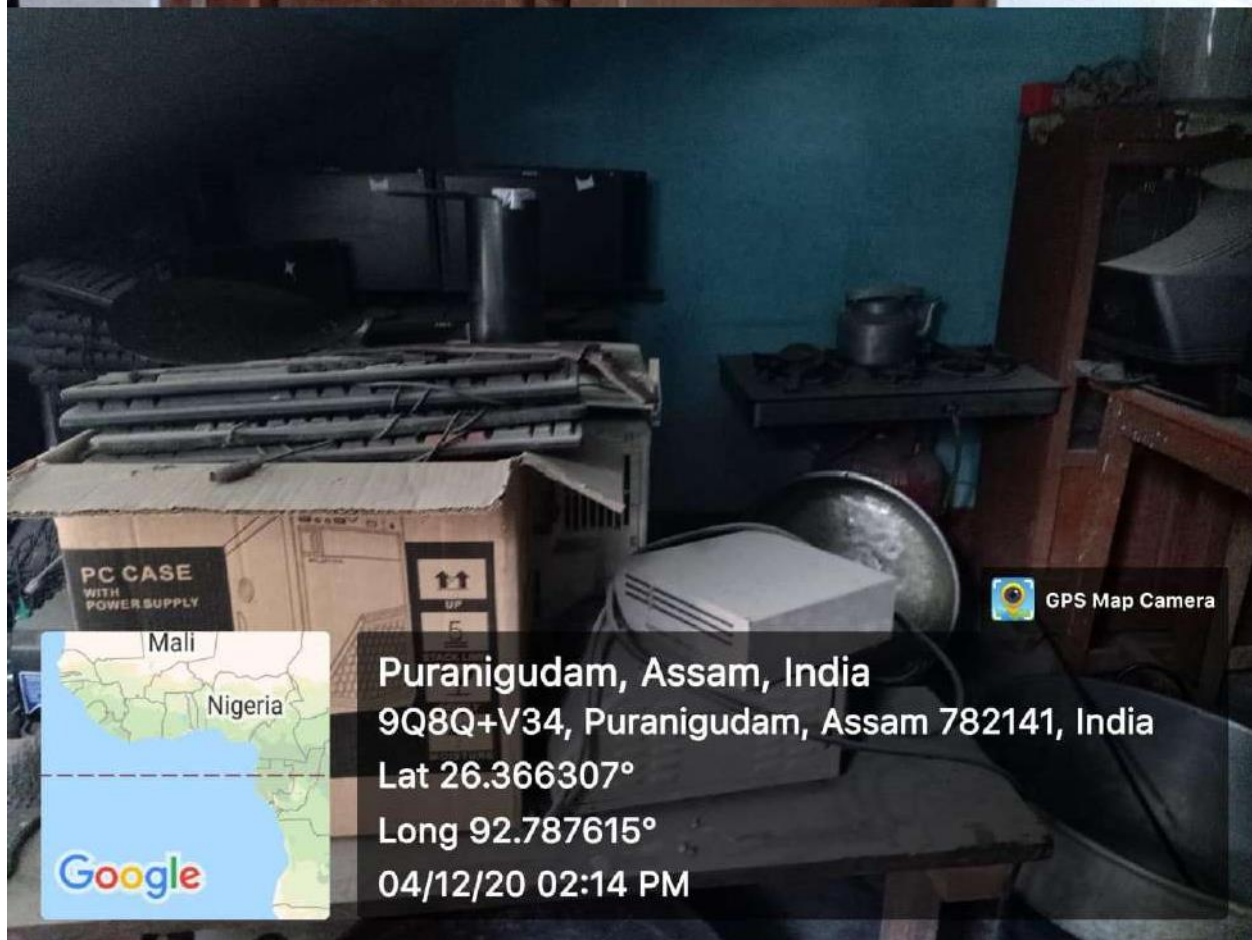
## Liquid Waste Management Mechanism



Photo indicates re-use of waste water



## E-Waste Management Mechanism



E-Waste Management: Photo of E-wastes of Computer, printer, CPU, Monitor etc.

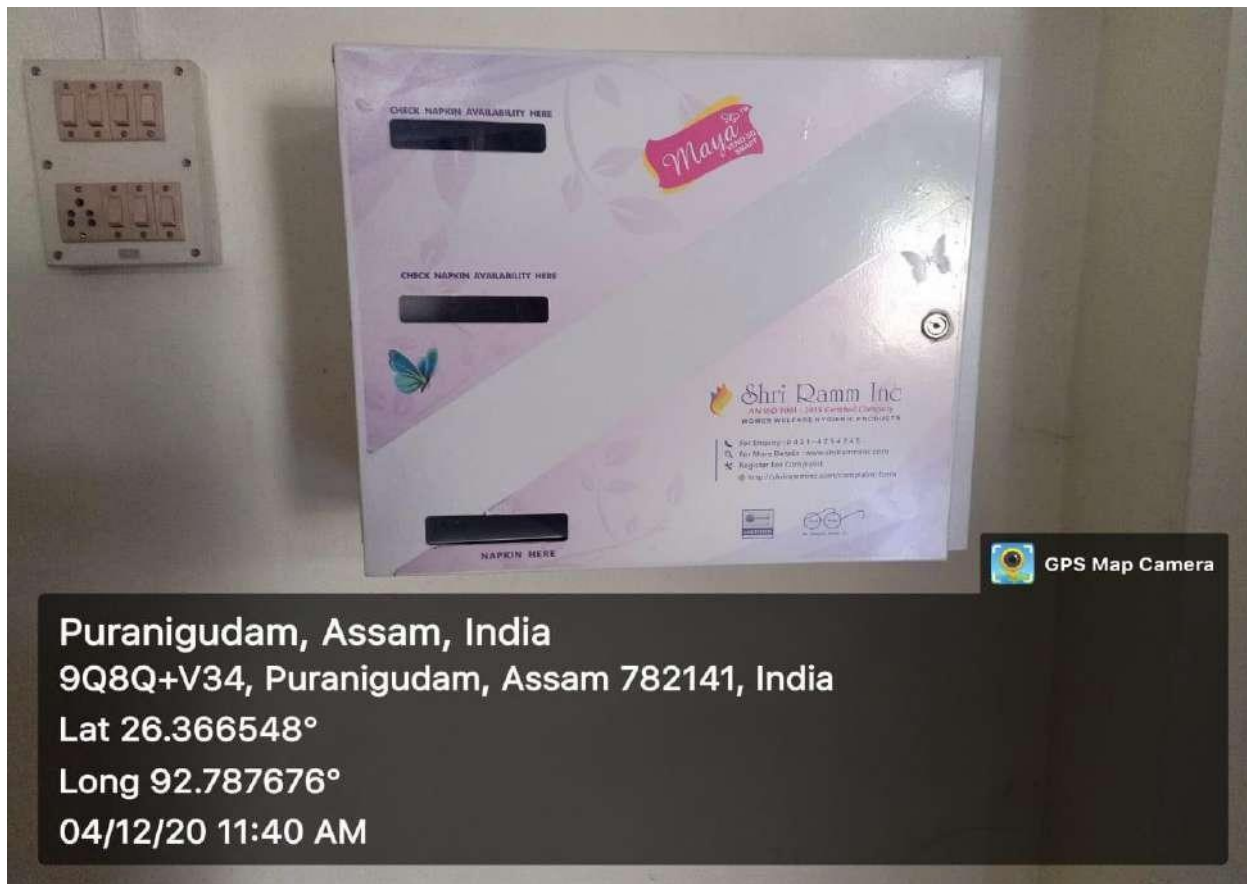




**E-Waste Management: Photos of fan, light, wire etc.**

## Bio-medical Waste Management





**Plastic Free Zone**





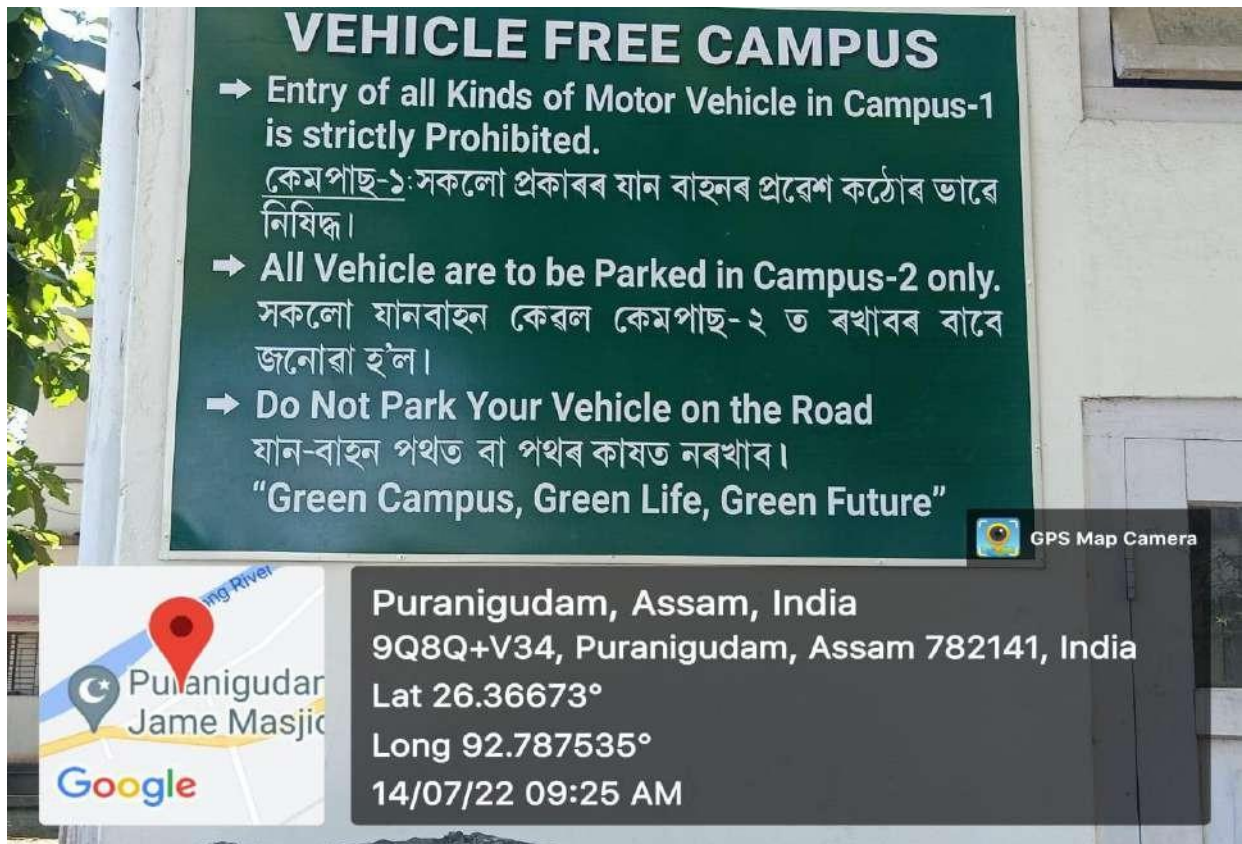
Puranigudam, Assam, India  
9Q8Q+V34, Puranigudam, Assam 782141, India  
Lat 26.366971°  
Long 92.787648°  
15/06/22 08:44 AM



Puranigudam, Assam, India  
9Q8Q+V34, Puranigudam, Assam 782141, India  
Lat 26.36637°  
Long 92.787603°  
15/06/22 08:47 AM



## Vehicles Free Zone



## Tobacco Free Zone





Puranigudam, Assam, India  
9Q8Q+V34, Puranigudam, Assam 782141, India  
Lat 26.366546°  
Long 92.787725°  
13/07/22 11:37 AM



Puranigudam, Assam, India  
9Q8Q+V2J, Puranigudam, Assam 782141, India  
Lat 26.368226°  
Long 92.787473°  
13/07/22 12:39 PM



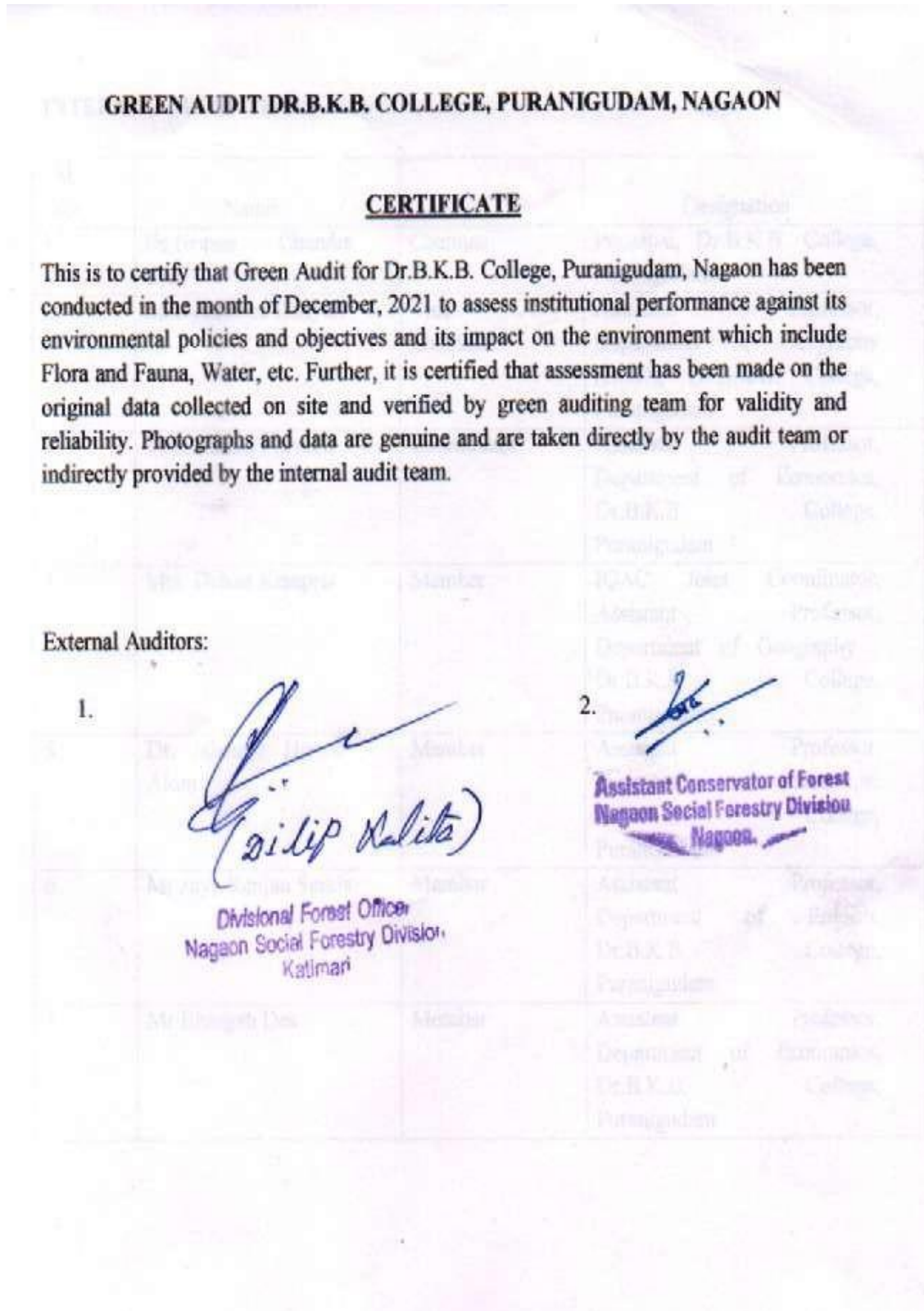
### Swachha Bharat Abhijan and Cleanliness Drive







**Green Audit:** Green audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. Dr. BKB College, Puranigudam, Nagaon, Assam has conducted an in-depth survey on flora and fauna, waste management and water management in order to know the environmental status of the college campus. Survey report of the green audit indicates well three diversity, fauna diversity and good waste and water management which impressed the external green evaluator to certify the college campus as green campus.





**Energy Audit:** Energy is one of the most important inputs for the overall economic development of any country. Dr. B.K.B. College, Puranigudam is a higher education institute in Nagaon district of Assam taking oath of reducing energy intensity in the college campus by conducting Energy Audit. An assessment of energy consumption, energy sources used, energy management, lighting devices used and other appliances used by the college campus community is an important aspect of sustainability of the community. Hence this is a relevant aspect of the assessment. The audit team assessed the number of electrical appliances and their respective uses in terms of consumption of energy per month in KWH. This indicates the energy management of the campus. Dr. BKB College usage and consumes the following types of energies like generator, grid power/transformer and solar energy.

**Generator**



**Transformer**



## Solar Energy



Puranigudam, Assam, India  
9Q8Q+V2J, Puranigudam, Assam 782141, India  
Lat N 26° 22' 5.6136"  
Long E 92° 47' 14.9028"  
04/12/20 02:19 PM

**M/S. KAMAKHYA ELECTRICALS**  
Mahatma Gandhi Road, Nagaon (Assam) : Mobile : 94350-63586  
Govt. Regd. Electrical Contractor & Supplier  
Specialist in : Wiring Installation, Motor Generator & Electrical Pumpset repairing, Panel board construction,  
Electrical Project drawing, Estimating & Erection of H.T. & L.T.O.H., Line & Sub-station.

Ref. No. YE/BKBC/02 Date: 16.7.2021

**ENERGY AUDIT REPORT**  
**DR. B.K.B. COLLEGE, PURANIGUDAM, NAGAON, ASSAM**

We are grateful to be a part of the preparation of Energy Audit Report of Dr. B.K.B. College, Puranigudam, Nagaon, Assam for the year 2020-21 (from 1<sup>st</sup> July, 2020 to 30<sup>th</sup> June, 2021). As a part of audit methodology, we have visited Dr. B.K.B. College, Puranigudam, Nagaon, Assam campus on 14<sup>th</sup> July, 2021 to collect data and to take some instantaneous measurements. We have studied the present energy consumption pattern, assessed the actual operating load, illumination study and energy conservation in lighting system. The summary of the Report is as follows -

1. The average monthly energy consumption of the college campus is 952.23 units.
2. Annual bill is Rs. 187863/-
3. Average unite rate is Rs. 7.35/-(Grid Power)
4. Cost of Generator fuel for the year 2020-21 = Rs. 28263/-
5. In all, ten solar streets light are installed inside the campus. Installation of a solar plant is suggested.
6. Only five star rating air conditioner should be used.
7. Remaining twenty percent of the tube lights used should be replaced by LED lights.
8. Energy monitoring and maintenance mechanism including DG set performance should be further streamlined. The operational staff must be given comprehensive training and awareness should be created among students and staff for efficient use of electricity and safety precaution.

We, hope that this activity will improve the energy efficiency and reduce the overall energy consumption of the College campus.

Internal Auditor: External Auditor:

*Bhargab Das*  
Mr. Bhargab Das  
Assistant Professor  
Department of Economics  
Dr. B.K.B. College, Puranigudam  
Nagaon

M/S Kamakhya Electricals  
M.G. Road, Nagaon  
*Bikash Jyoti Deb*  
(Bikash Jyoti Deb)  
Proprietor & Electrical Consultant

# M/S. KAMAKHYA ELECTRICALS

Mahatma Gandhi Road, Nagaon (Assam) : Mobile : 94350-63586

Govt. Regd. Electrical Contractor & Supplier

Specialist in : Wiring installation, Motor Generator & Electrical Pumpset repairing, Panel board construction, Electrical Project drawing, Estimating & Erection of H.T. & L.T.O.H., Line & Sub-station.

Ref. No. KE/BKBC/03.

Date 16.7.2021

To

The Principal  
Dr. B.K.B. College, Paranigudam  
Nagaon, Assam

Subject: Submission of Energy Audit Report.

Dear Sir,

In order to prepare an Energy Audit Report my audit department has visited Dr. B.K.B. College campus on 14<sup>th</sup> of July, 2021 to collect data and instantaneous measurement. After collecting the required data and analyzing those data, Energy Audit Report has been prepared which includes our finding and necessary recommendation to explore energy conservation opportunities. The Report has been attached along with this letter for your consideration. We hope that this activity reduce the overall energy consumption of the College campus and improve the energy efficiency.

Thanking You

M/S Kamakhya Electricals  
M.G. Road, Nagaon

*Bikash Jyoti Deb*

(Bikash Jyoti Deb)  
Proprietor & Electrical Consultant



Assam Power Distribution Company Limited  
NAME OF ELECTRICAL SUB-DIVISION/IRCA - SAMAGURI/IRCANAGAON  
CIN: U40105AS2000BGC007242  
GST TIN: 36AAICL1384J1Z3  
ELECTRICITY BILL

Website: www.apdcl.org

Centralized Customer Care Number: 1912

|   |   |   |
|---|---|---|
| Consumer Name: Dr. B.K.B. COLLEGE<br>Address: PURANIGUDAM, NAGAON, NAGAON   | Consumer Number: 12500000837<br>Old Consumer Number: 6400002727<br>DTR Number: 2443<br>Rate Number: 000<br>Connected Load in KW: 25.0<br>Contracted Demand in KVA: 41.0<br>Lead Security: 86275.000<br>Meter Number: APDCJ912 | Bill Amount: 26837.000<br>Due Date: 28-Jun-2022<br>Bill Number: 900010880<br>Bill Period: 01-May-2022 To 31-May-2022<br>Bill Date: 06-Jun-2022<br>Number of Days: 31<br>Meter Status: RUNNING<br>Billing Status: NORMAN |
| Contact Number: 6630733591<br>Email:<br>Tariff Category: HT IV BULK SUPPLY (OTHERS)<br>Supply Voltage Level: Supply Voltage Level 11 KV |   |   |



### Meter Reading Details

| Reading Type | Meter Number | MP   | 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)  | APDCJ912     | 15.0 | 5819.000                | 0.000                  | 5962.000               | 0.000                 | 143.000                   | 0.000                    |

| Units Consumed           | PF Penalty/Rebate | LT Metering Penalty | DTR Penalty             | HT Rebate | Voltage Rebate | Voltage Penalty         | Billable Units in KWH |
|--------------------------|-------------------|---------------------|-------------------------|-----------|----------------|-------------------------|-----------------------|
| Normal   2154.000        | -22.100           | 64.620              | 0.000                   | 0.000     | 0.000          | 0.000                   | 2196.430              |
| Recorded Demand (in KVA) | 1.05              |                     | Maximum Demand (in KVA) | 15.9      |                | Avg. Demand (in KVA)    | 41.0                  |
| Power on Hours           | 720.0             |                     |                         |           |                | Availability Percentage | Average Power Factor  |

### Billing Details

| Current Demand | Outstanding Amount | Adjustment Amount | Solar Rebate | Net Bill Amount |
|----------------|--------------------|-------------------|--------------|-----------------|
| Rs. 26836.770  | Rs. 0.000          | Rs. 0.000         | 0.00         | Rs. 26837.000   |

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

| Charges Breakup                 |          |       |           |
|---------------------------------|----------|-------|-----------|
| Details                         | Units    | Rate  | Amount    |
| Energy Charges(Normal)          | 2196.430 | 7.700 | 16912.610 |
| Total Energy Charges            |          |       | 16912.61  |
| Energy Charge Fee               |          |       | 0.000     |
| Electricity                     |          |       | 0.00      |
| Rebate/Fixed Adjustment         |          |       | 0.00      |
| Demand/Fixed Charge (KVA)       | 41.0     | 200.0 | 8367.26   |
| FPPPA Charge                    |          | -0.05 | -109.02   |
| Electricity Duty                |          | 0.0   | 1263.49   |
| Govt. Subsidy                   |          |       | 0.0       |
| Contractual Penalty             |          |       | 0.0       |
| Meter Rent                      |          | 400.0 | 163.33    |
| Charges for dishonoured cheques |          |       | 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  |          |       | 26837.00  |
| Payable amount after due date   |          |       | 26837.00  |



Checked by E&OE:

Prepared by: 40013299

Signature with seal