



# **TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE**

**Affiliated to University of Calcutta & Accredited by NAAC (2016)  
[Recognized under section 2(f) of UGC Act 1956]**

**(A self-financed Govt. approved Minority Institution run under the auspices of Shree S.S. Jain Sabha)**

**6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002  
TEL.: 033 25326056 Mob: 9831378911/9831368911**

## **Criterion 7 - Institutional Values and Best Practices**

### **7.2. Best practices**

#### **CONTENT:**

- **Best Practice 1**
  - **The write-up of Best practice 1**
  - **Photographs of facilities and events**
- **Best Practice 2**
  - **The write-up of Best practice 2**
  - **Photographs of facilities**



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# **Best Practice 1**



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## **1. Title of the Practice: GO CLEAN, GO GREEN**

## **2. Objectives of the Practice**

- To create an environment friendly campus with lush greenery
- To reduce and reuse waste
- To use solar energy as an alternative to conventional energy

## **3. The Context**

- Highly congested with factories, godowns and slums, while experiencing high pollution, the College faces a unique challenge due to its location in the Cossipore area in Kolkata. Thereby, the College policy encourages establishing a green campus that can act as a carbon sink and a respite from the dust.
- The College incorporates the guidelines of the Environment Protection Act (1986), and follows the mechanism of solid waste and e-waste disposal.
- Following the Jawaharlal Nehru National Solar Mission (JNNSM), the central and state government's initiative for clean energy, the college introduced Solar paneling in the year 2021.

## **4. The Practice**

- College has a spacious open campus area of 1.98 acres. The boundary of large trees shields off pollution and noise.
- Dedicated departments maintain Medicinal Garden, Experimental Garden, and Butterfly Garden.
- The Green Committee and several Departments work on creating awareness towards the importance of the environment through various activities and by incorporating sustainable practices.
- The gardeners nurture and maintain seasonal plants and ageing trees that act as high carbon sinks.



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- The college has pedestrian friendly pathways in the campus and many employees and students avail the college bus service that acts towards limiting carbon footprint.
- The college has a 'Green Manure Production Unit', maintained by the Department of Botany. The College reuses the collected rainwater to water the gardens and for cleaning purposes.
- The College has kept a separate e-waste collection unit since 2022-23, an initiative by IQAC in collaboration with M/s Old N Furniture vide an Agreement.
- The college has installed 67 Solar panels on the rooftop that generate alternative energy for saving energy.

### **5. Evidence of Success**

- A Green Audit conducted by Consultrain Management Services, Lake Road, Kolkata, W.B with Tropical Institute of Earth And Environmental Research (Tieer) Midnapur, W.B. has submitted a satisfactory report on the air quality of the college. The higher percentage of open area and maintenance of the garden was noted with appreciation.
- The biodiversity of the college is home to a variety of plants and animals. The garden provides a space of leisure while also giving the space for educational excursions, ecological studies and practical works.
- The bio compost, chemically analyzed through a NABL accredited Laboratory, is marketed to farmers through NGOs, as well as made available for purchase at a nominal cost to the staff and students.
- The solar panels produce around (6000) kWh units per month of clean energy which is adjusted for consumption by providing to CESC via the power grid.
- E-waste collected over the period has been scientifically recycled as per the norms of e-waste recycling by the Pollution Control Board through the e-waste collection bin.



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### **6. Problems Encountered and Resources Required**

- The air quality depreciates acutely when one steps outside the campus. There is an eager desire to improve the air quality in the area surrounding the College.
- The College utilizes the campus grounds for the benefit of the students, but unfortunately it is often done at the cost of the green cover.
- The College has taken initiatives to install sensor equipped lighting, LED fittings and BEE Star rated equipment. These are in queue for implementation due to financial constraints. The college also has plans to conduct Water Audit and Energy Audit in the future.

### **7. Notes**

The College has to overcome several bureaucratic and financial hurdles to fulfil its green initiatives and goals.



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### **The Lush Green Campus**







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- Medicinal Garden and Specimen Garden with important medicinal plants and specimens - maintained by the Department of Botany



*Cissus quadrangularis*



*Solanum nigrum*



*Lantana camara*







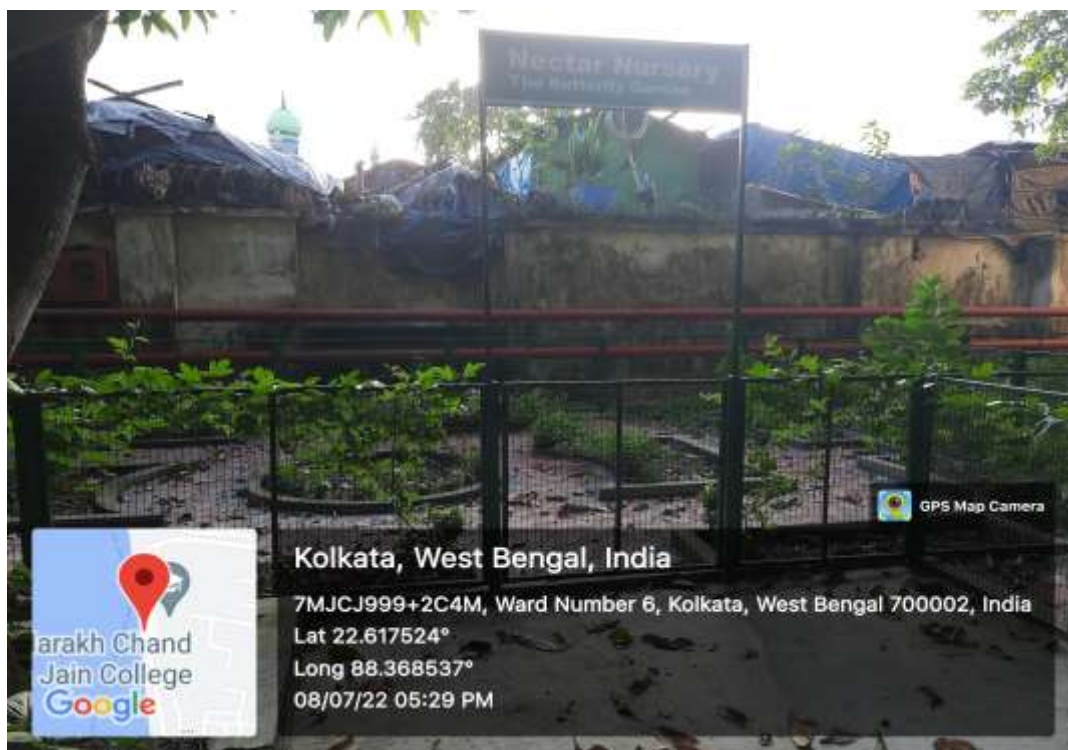
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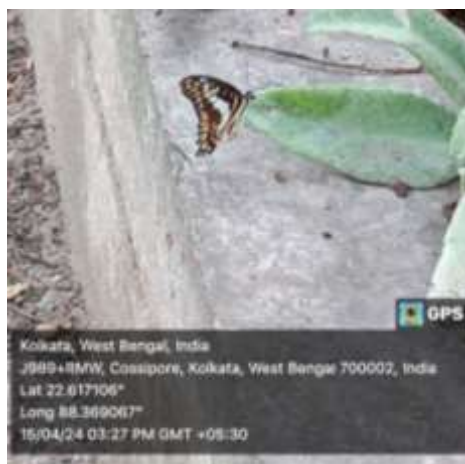
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- ‘Nectar Nursery’ - A Butterfly Garden maintained by the Department of Zoology



Common Jay



Plain Tiger





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- Nest Hanging for bird: an initiative by Department of Zoology for increasing biodiversity within college campus







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- College garden with exquisite flowers, trees, shrubs, potted and cultivated plants







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### • Fruit Yielding plants in the garden







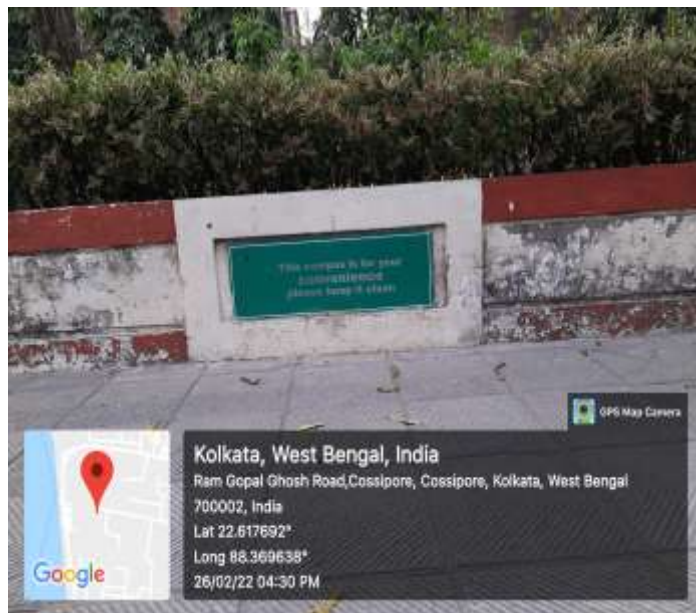
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- Awareness messages imparting the importance of greenery and cleanliness towards maintaining a clean green campus







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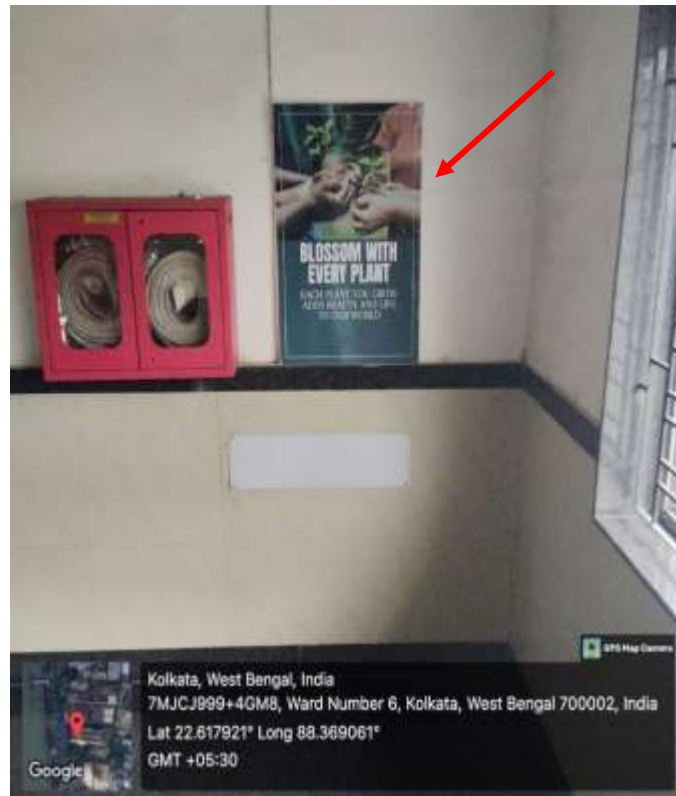
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### Display at common areas of college for Student Awareness

- 'Save Plant, Save Planet'



- Save Water



  
Principal  
Dr. Mausumi Singh (Sengupta)  
Tara Devi Harakh Chand Kankaria  
Jain College, Kol-<sup>n</sup>  
(Affiliated to C.U.)



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### Save water campaigning contd.





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- Tree Plantation program in the college garden organized by NSS unit and other departments







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- Educational excursions and activities organized by various departments in the college garden towards experiential learning







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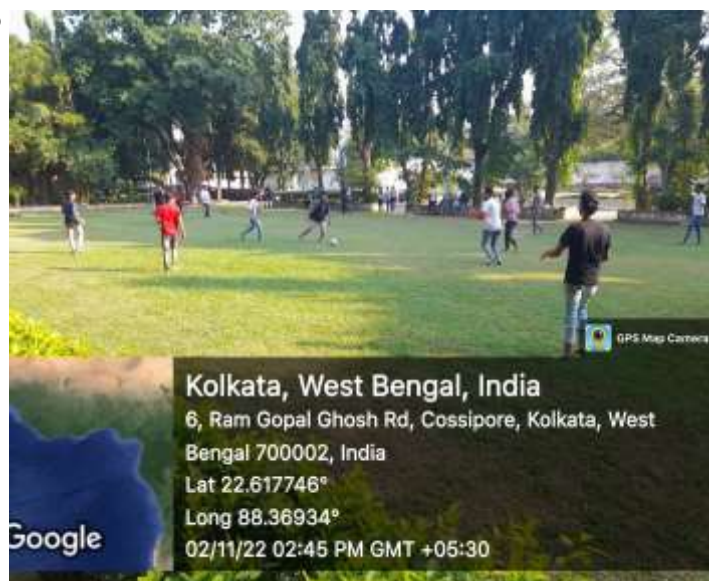
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- Poster Presentation by students on World Wildlife Day  
(3<sup>rd</sup> March, 2022)



- Recreational activities of students in the campus





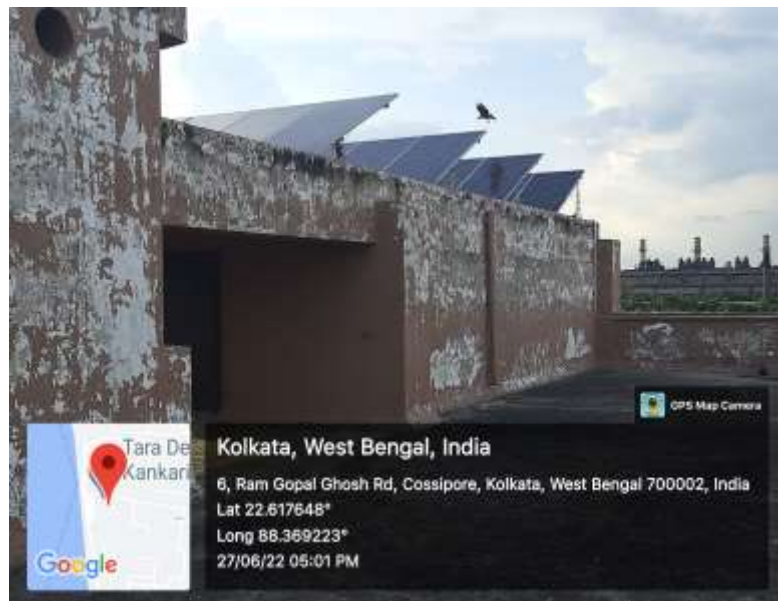
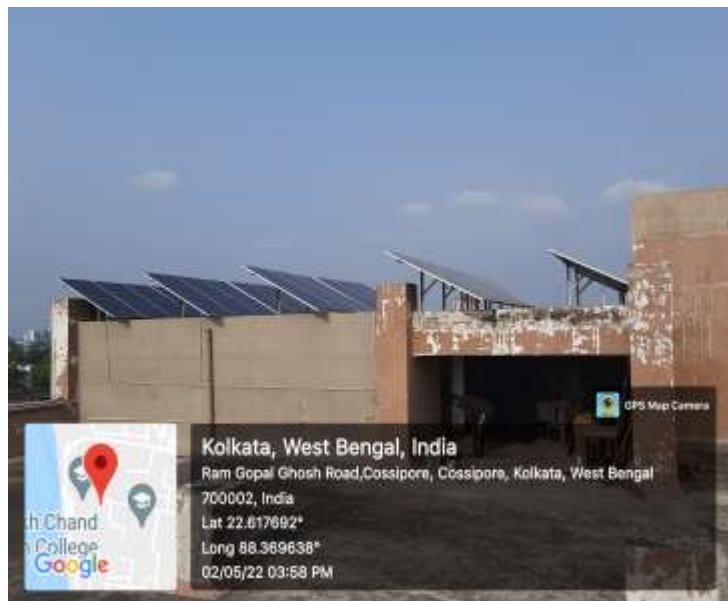
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## Solar Panels at the roof top for harvesting solar energy



- Electricity Bill: showing the units being produced by the Solar Panels and the respective adjustments made

| ADJUSTMENTS:  |                 |
|---|-----------------|
| ADD UNREALISED IN 03/23   | 0.62            |
| DEDUCT ADJUSTMENT OF S.D. INTEREST  | 0.84            |
| DEDUCT REBATE DUE TO REGISTERING FOR E-BILL   | 5.00            |
| DEDUCT ADJUSTMENT FOR SOLAR ENERGY INJECTED FOR 670 UNITS SETTLED ON NET ENERGY BASIS | 6204.20         |
| <b>Total:</b>   | <b>-6209.42</b> |

**RP - Sanjay Goenka Group** YOUR ELECTRICITY BILL FOR APRIL 2023  
Please refer to our website [www.rsgc.co.in](http://www.rsgc.co.in) for revised cash office operating hours  
Bill No. **85306001402 / 04231** Bill Date: **07/05/23** CDR: **13101W81970PU**

**TARADEV HARAKH CHAND KANKARIA JAIN**  
6 RAM GOPAL GHOSH ROAD  
KOLKATA 700002

Customer ID: **85000057242**

Please opt to pay the Bill "Net Amount payable for e-Payment" through MORTGAGE to RSGC Limited using the following ASL details:

|           |                  |
|-----------|------------------|
| Bank      | AXIS BANK        |
| A/C No.   | 68708500051342   |
| IFSC CODE | UTIBKCO074       |
| Branch    | Central Coll Hub |

| BILL DETAILS   |                   |
|--|-------------------|
| Gross Amount Rounded   | ₹ 56630           |
| Rebate   | ₹ 546.77          |
| Due Date   | 17/05/23          |
| Rounded Net Amount Payable as per BILL DETAILS                   |                   |
| ₹ <b>56090</b>   |                   |
| Rebate is applicable only if payment is received within Due Date |                   |
| Units Billed: <b>5824*</b>                                       |                   |
| Current Reading Date   | 01/05/23          |
| Previous Reading Date  | 01/04/23          |
| Energy Charges   | ₹ 53506.04        |
| PPFAS  | ₹ PTO.88          |
| Flood/Demand Charges   | ₹ 1171.20         |
| Govt. Duty   | ₹ 8119.57         |
| Meter Rent   | ₹ 50.00           |
| Adjustments  | ₹ -6209.42        |
| Gross Amount   | ₹ 56637.39        |
| Rebate   | ₹ 546.77          |
| Net Amount   | ₹ <b>56090.62</b> |
| Add Extra fee e-payment made                                     | ₹ 546.77          |
| Net amount for e-payment made                                    | ₹ 55543.85        |
| Net Amt. Payable for e-payment                                   | ₹ 55540.00        |
| Load (KVA)   | 57.4              |
| Security Deposit   | ₹ 122203.00       |

| Last Payment Received On | Amount Received (₹) | Mode of Payment | AG Month & Year |
|--------------------------|---------------------|-----------------|-----------------|
| 13/04/23                 | 48290.00            | NET BANKING     | 03/23           |

Please pay by due date to avoid inclusion of this bill in the next bill

The Gross/Net amount when rounded is to the lower multiple of 100, the rounded amount will be carried forward on payments





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- Energy Audit conducted by “Nature Guard”, Ganges Garden, Shibpur, Howrah.

### ➤ Certificate 2022-2023





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### ➤ On-going Energy Audit survey







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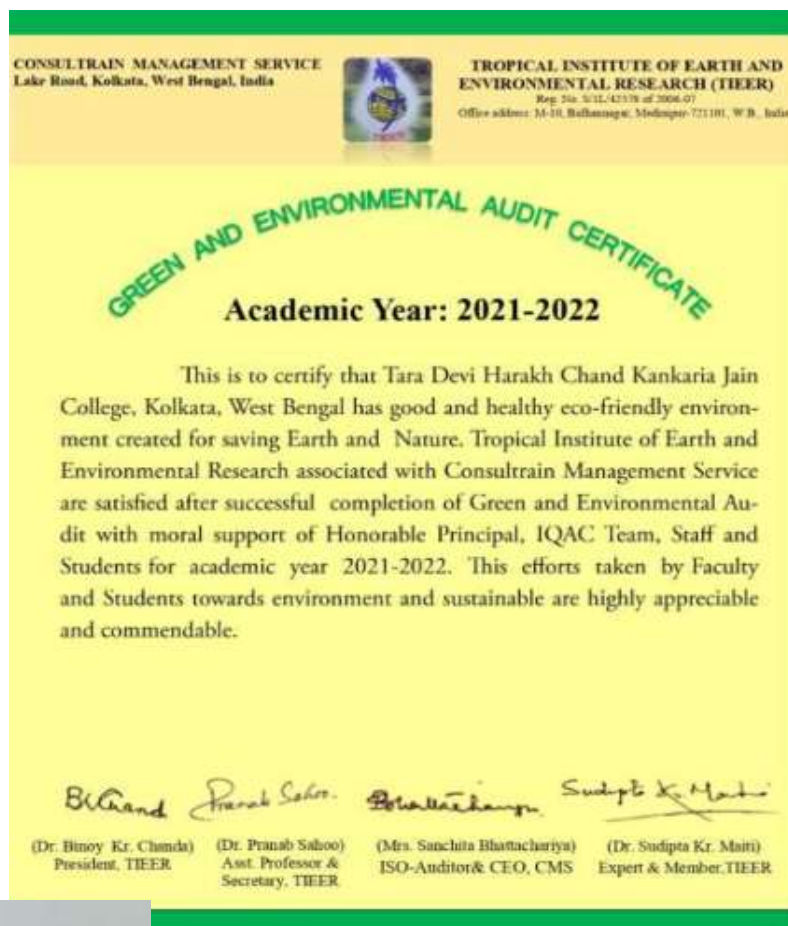
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### Green Audit conducted by Consultrain Management Service, Lake Road, Kolkata and Tropical Institute of Earth and Environment Research (TIEER)

#### ➤ Certificate 2021-2022



Kolkata, West Bengal, India  
Tara Devi Harakh Chand Kankaria Jain College, Cossipore, 6, Ram Gopal Ghosh Rd, Cossipore,  
Kolkata, West Bengal 700002, India  
Lat 22.617783°  
Long 88.36921°  
29/06/22 12:32 PM

Principal  
Dr. Mausumi Singh (Sengupta)  
Tara Devi Harakh Chand Kankaria  
Jain College, Kol-<sup>n</sup>  
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- On-going Green Audit survey:







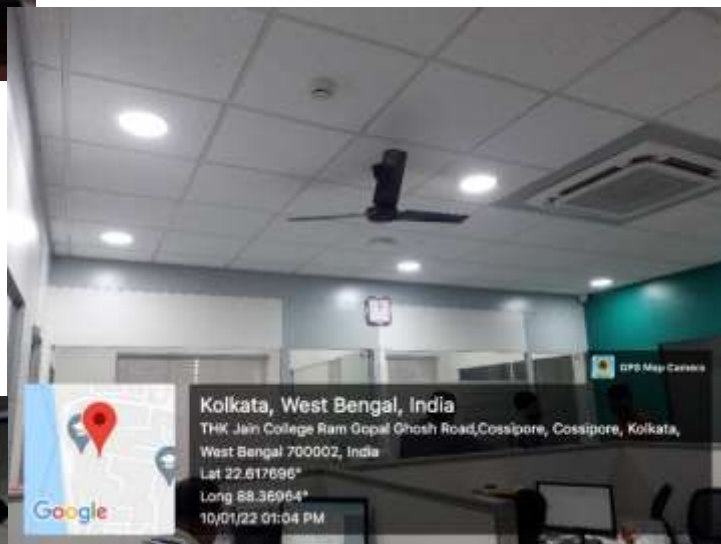
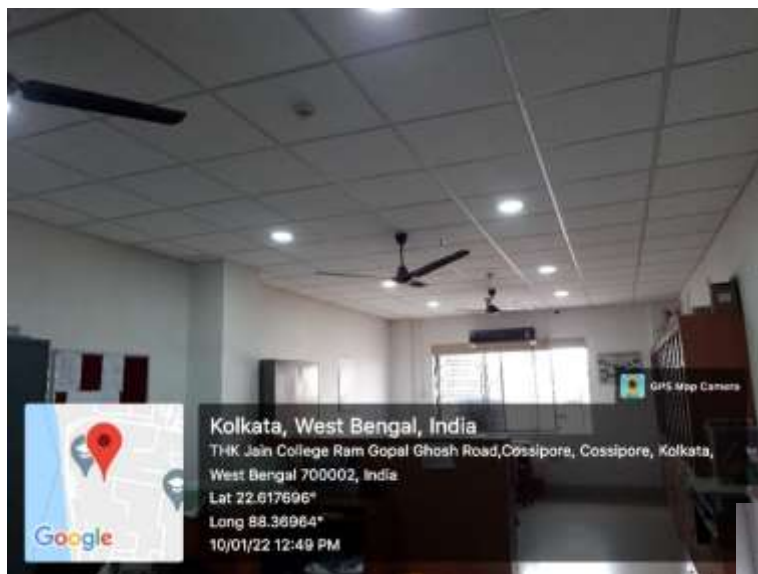
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- LED lights in staff room, office and classrooms:





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- Rainwater Collection Tank: for collection of rain water to be used for gardening, cleaning pavements, corridors etc.







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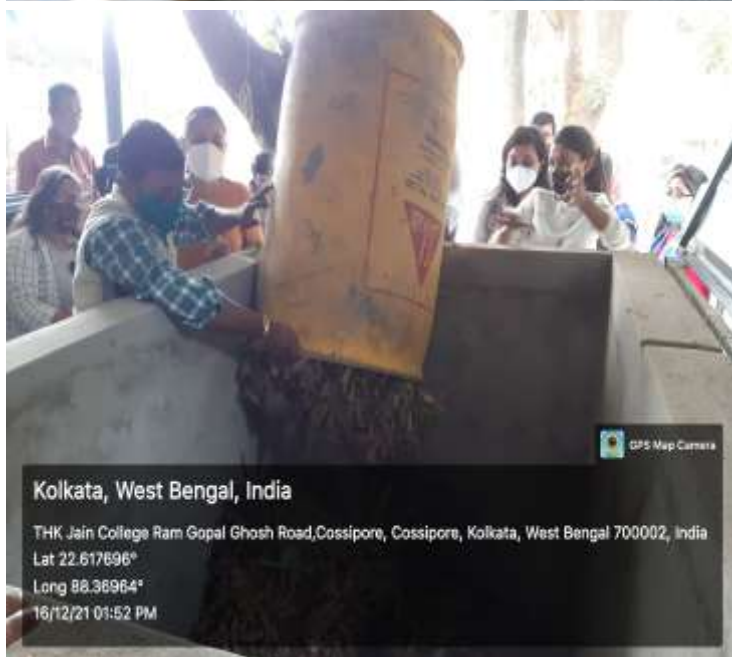
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### • Inauguration of Green Manure Production Unit







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### • Processing and Packaging







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TEL.: 033 25326056 Mob: 9831378911/9831368911

- Chemical Analysis and Quality Testing of Bio compost Produced in the Green Manure Production Unit from NABL Accredited Laboratory



Certificate No.: G(S)-(NN)/22-2314684

Date: 31.03.2023

SAMPLE SUBMITTED BY PARTY :

Page 1 of 2

Name of Customer : M/s. Tara Devi Harakh Chand Kankaria Jain College  
Address : 6, Ram Gopal Ghosh Road, Cossipore, Kolkata - 700002  
Description of Sample : Compost Sample  
Mark on Sample : THK Jain College, Department of Botany,  
Green Manure Production Unit, Sample - Compost (500gm)  
Sample Received on : 22.03.2023  
Analysis Started on : 23.03.2023  
Analysis Completed on : 31.03.2023

## A. CHEMICAL TEST FINDINGS :

| Sl. No. | Test Parameters        | Test Method        | Unit  | Result | Limit as per FCO 1985 |
|---------|------------------------|--------------------|-------|--------|-----------------------|
| 1       | Total Solid content    | FCO - 1985         | %     | 91.05  | Not Specified         |
| 2       | Total Moisture Content |                    | %     | 8.95   | Maximum 25            |
| 3       | Water Holding Capacity | ND/CHEM/SOP/FR-01  | %     | 87.92  | Not Specified         |
| 4       | pH                     | FCO - 1985         | —     | 7.5    | 6.0 - 8.0             |
| 5       | Salinity               | ND/CHEM/SOP/G/F-02 | mg/gm | 100.2  | Not Specified         |
| 6       | TDS                    | ND/CHEM/SOP/G/F-01 | mg/gm | 1036   | Not Specified         |
| 7       | Free Carbonate         | ND/CHEM/SOP/G/F-04 | mg/gm | 108    | Not Specified         |



Certificate No.: G(S)-(NN)/22-2314684

Date: 31.03.2023

SAMPLE SUBMITTED BY PARTY :

Page 2 of 2

| Sl. No.          | Test Parameters | Test Method  | Unit  | Result | Limit as per FCO 1985 |
|------------------|-----------------|--------------|-------|--------|-----------------------|
| <b>MINERALS:</b> |                 |              |       |        |                       |
| 1                | Phosphorus      | FCO 1985     | %     | 0.59   | Not Specified         |
| 2                | Potassium       |              | %     | 0.98   | Not Specified         |
| 3                | Calcium         | USEPA 3050 B | mg/g  | 17.60  | Not Specified         |
| 4                | Magnesium       |              | mg/g  | 3.00   | Not Specified         |
| 5                | Sodium          |              | mg/g  | 15.60  | Not Specified         |
| 6                | Manganese       |              | mg/kg | 319.40 | Not Specified         |
| 7                | Zinc            |              | mg/kg | 87.60  | Maximum 1000          |
| 8                | Iron            |              | mg/g  | 7.00   | Not Specified         |

## HEAVY METALS:

|   |          |              |       |               |               |
|---|----------|--------------|-------|---------------|---------------|
| 1 | Lead     | USEPA 3050 B | mg/kg | 61.45         | Maximum 100   |
| 2 | Boron    |              | mg/kg | <0.5 (DL:0.5) | Not Specified |
| 3 | Nickel   |              | mg/kg | 8.96          | Maximum 50    |
| 4 | Selenium |              | mg/kg | 3.56          | Not Specified |
| 5 | Chromium |              | mg/kg | 7.51          | Maximum 50    |
| 6 | Arsenic  |              | mg/kg | 2.55          | Maximum 10    |

Note: E.C.O.: Fertilizer Control Order, DL:: Detection Limit.

Remarks : Compost sample complies as per FCO 1985 in respect of the above tested parameters.

...END OF TEST REPORT...



For, N.D. International

K. P. De - CEO  
(Authorized Signatory)

1. The test report shall not be reproduced, except in full, without written approval of the company.  
2. Results relate only to the parameters tested.  
3. The remaining sample after test will be retained for 15 days from the date of issue of certificate.  
SP-2



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- E-waste collection and recycling unit: initiated by IQAC in collaboration with M/s Old N Furniture for proper destruction and recycling of old electronic goods, digital devices and mobile phones







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- Campaigning on Plastic and Tobacco-free campus:





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## **Best Practice 2**





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### **7.2.2. Best Practice 2**

#### **1. Title of the Practice: Empowering Divyangjans in Higher Education**

#### **2. Objectives of the Practice**

- To upgrade campus facilities to help persons with disabilities better
- To encourage and promote higher education among Divyangjan

#### **3. The Context**

- The term Divyangjan empowers persons with disabilities and encourages them to attain equal opportunities in all sectors, including obtaining higher education.
- As per the recommendations of the UGC to serve the special needs of people with disabilities, the policies of the institute are designed to foster an atmosphere in which all students, regardless of physical abilities, can succeed in their pursuit of higher education.

#### **4. The Practice**

- The College building and campus are designed in consideration of people with disabilities, to make the space easily accessible and ‘divyangjan’-friendly.
- Several practices and improvements have been incorporated to ensure a hassle free life within the college. To enlist a few:
  - Infrastructure:
    - Ramps and rails, built in addition to staircases in at the entrance.
    - Elevators are available for use by students
    - Levelled flooring without obstacles throughout the campus



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- Special Divyangjan-friendly toilet
- Lecture Halls and Audio Visual rooms for common classes in ground floor
- Facilities:
  - Separate parking space
  - Wheelchair assistance
  - Provision for Scribe support during examination as per UGC recommendation
  - Library equipped with instruments like Portable Digital Video Magnifier, an Electronic Reading Aid 3.5 Inch LCD Screen for Low Vision (2x-25x Zoom) and A4 Full Page Magnifying Glass Hands-Free Magnifier
  - Digitization of books in the library and assisted inbuilt voice over reading softwares in mobiles.
- Counselling Services:
  - To help students with impairments make decisions about their higher education.
  - To assist students in exploring and choosing courses that match their interests and talents
  - To make them aware of their rights and facilities in India and abroad





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- To know and understand their specific requirements and provide them with necessary support and facilities within the college.

### **5. Evidence of Success**

The college students with visual impairment or low vision use the A4 Full Page Magnifying Glass Hands-Free Magnifier and Portable Digital Video Magnifier in the library. They find it useful in reading textbooks.

The ‘divyangjan’ examinees from other colleges or participants for different seminars/ programmes are assisted with wheelchairs. The college facilities are made available to them without any hesitation.

### **6. Problems Encountered and Resources Required**

The College has had few admissions of persons with disabilities. The College aspires to make further improvements to fulfil the special requirements of ‘divyangjan’ candidates.

### **7. Notes (Optional)**

The College has unwavering dedication in establishing an inclusive, accessible, and supportive learning environment to ensure that every student can achieve their academic and personal goals with pride and dignity.



## TARA DEVI HARA KH CHAND KANKARIA JAIN COLLEGE

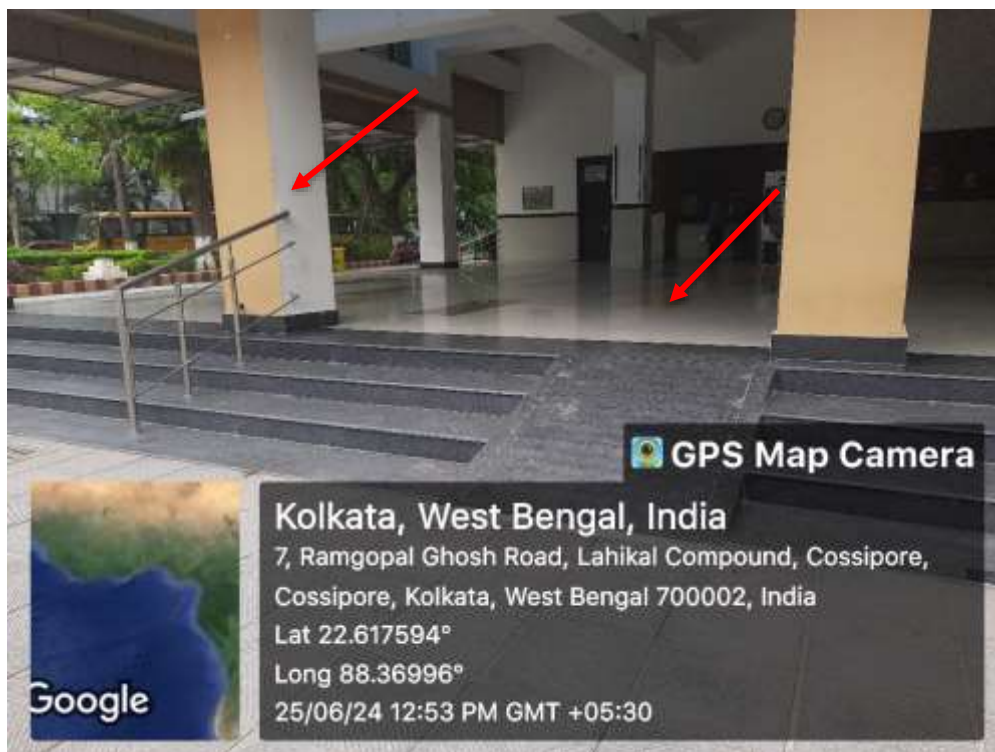
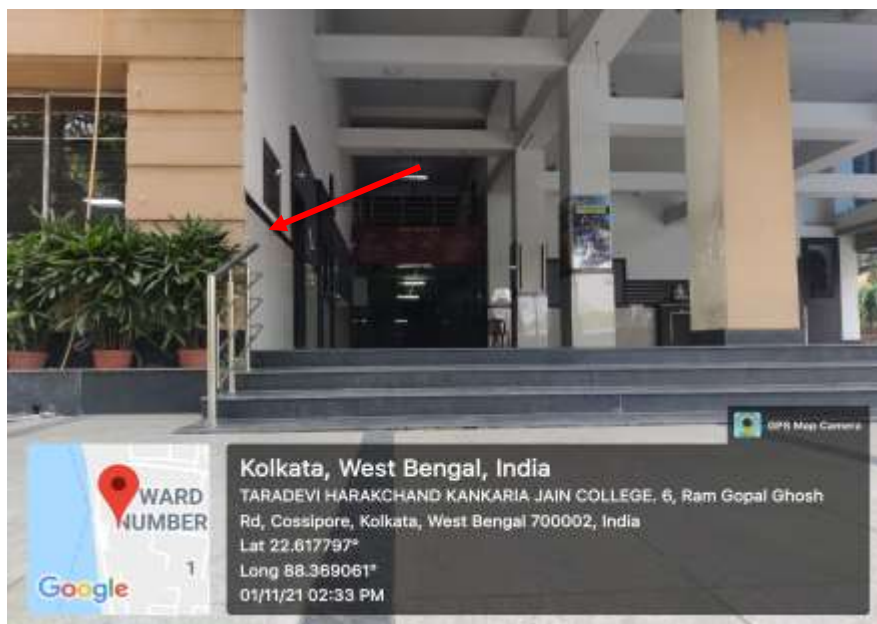
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### Ramps and Rails

- Ramps And Rails for easy access to college building







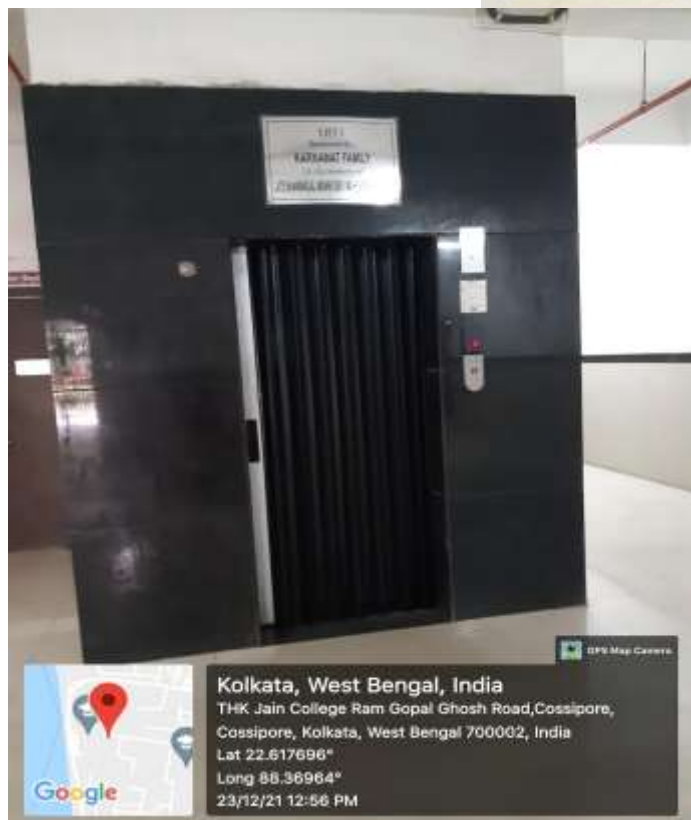
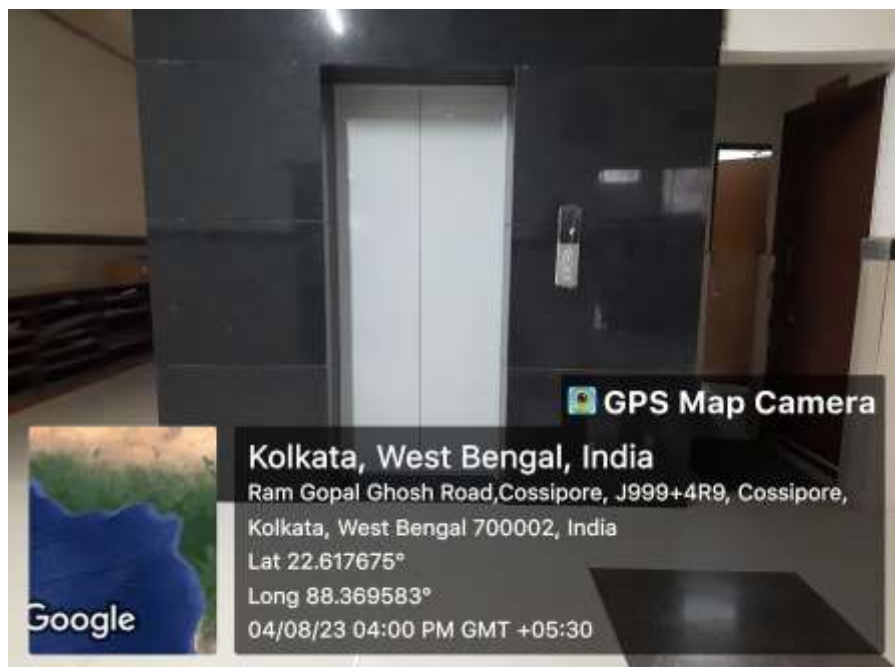
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- Elevators are available for access to any floor (two elevators)





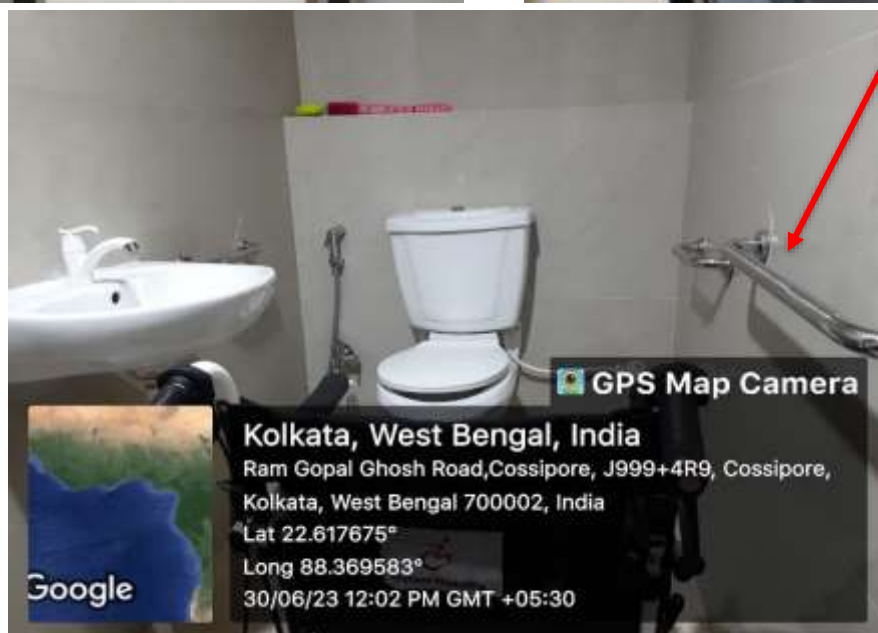
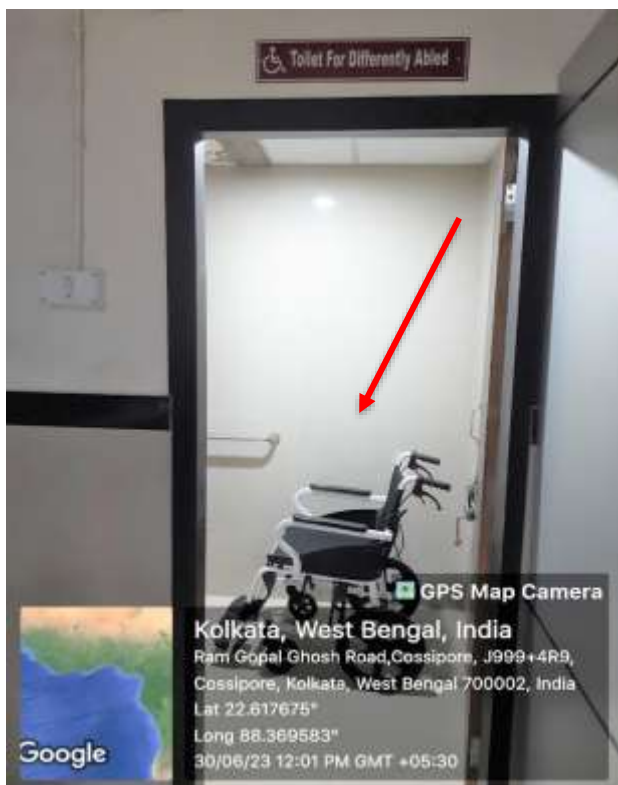
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- Special Divyangjan-friendly toilet: with wheelchair, levelled floor, railings to support, low height and handles to hold on to







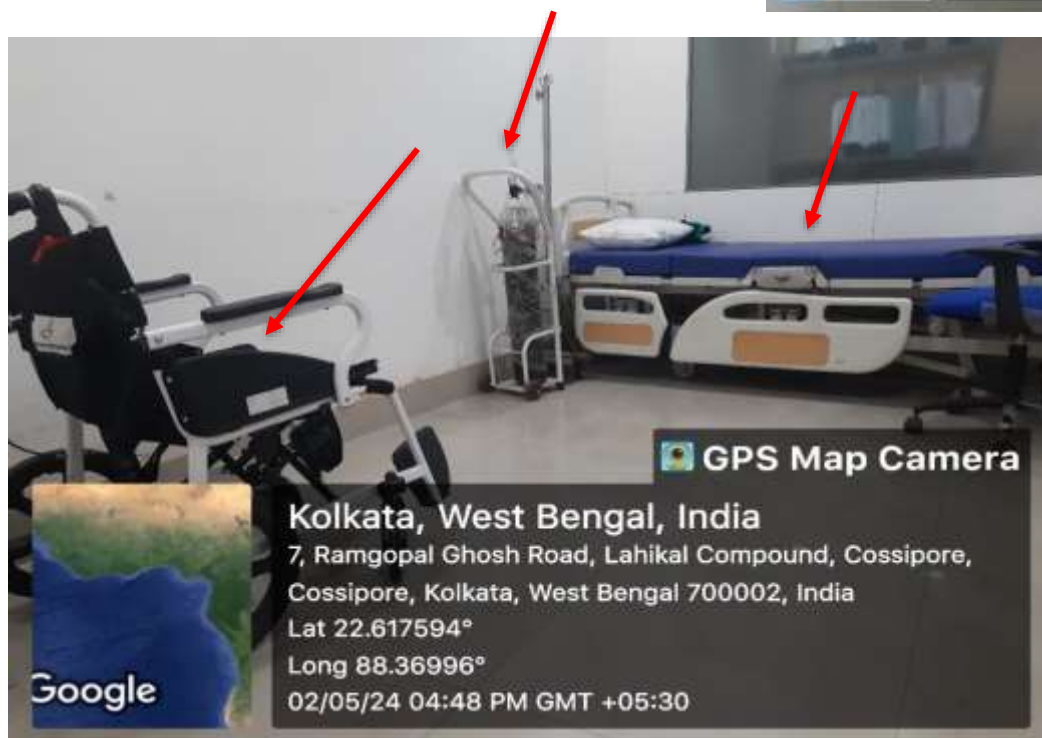
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- Wheelchair assistance and Sick-room facility (oxygen cylinder, bed, etc.)





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- **Counseling session for visually impaired students**







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- Library equipped with instruments like Portable Digital Video Magnifier, an Electronic Reading Aid 3.5 Inch LCD Screen for Low Vision (2x-25x Zoom) and A4 Full Page Magnifying Glass Hands-Free Magnifier

