



# KHARAGPUR COLLEGE

## KHARAGPUR

ESTD. : 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur,  
P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

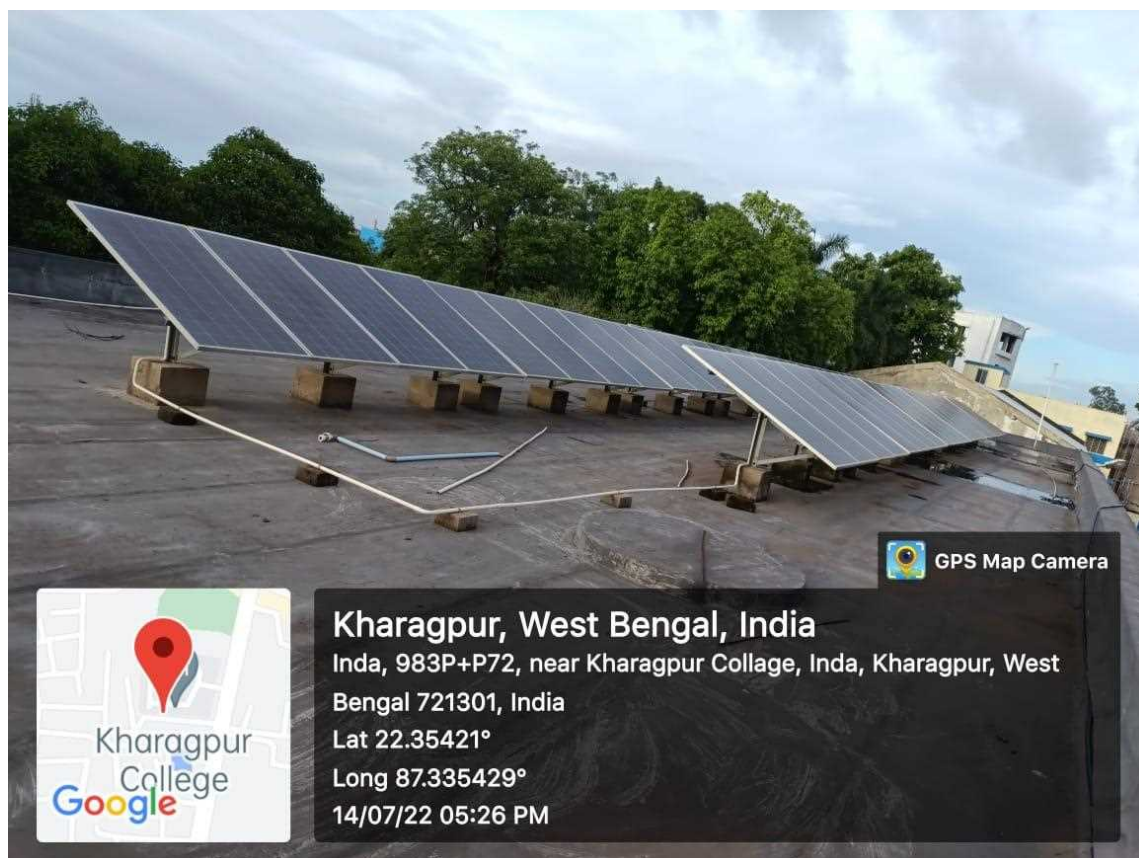
### 7.1.2 The Institution has facilities and initiatives for

1. *Alternate sources of energy and energy conservation measures*
2. *Management of the various types of degradable and non-degradable waste*
3. *Water conservation*
4. *Green campus initiatives*
5. *Disabled-friendly, barrier free environment*

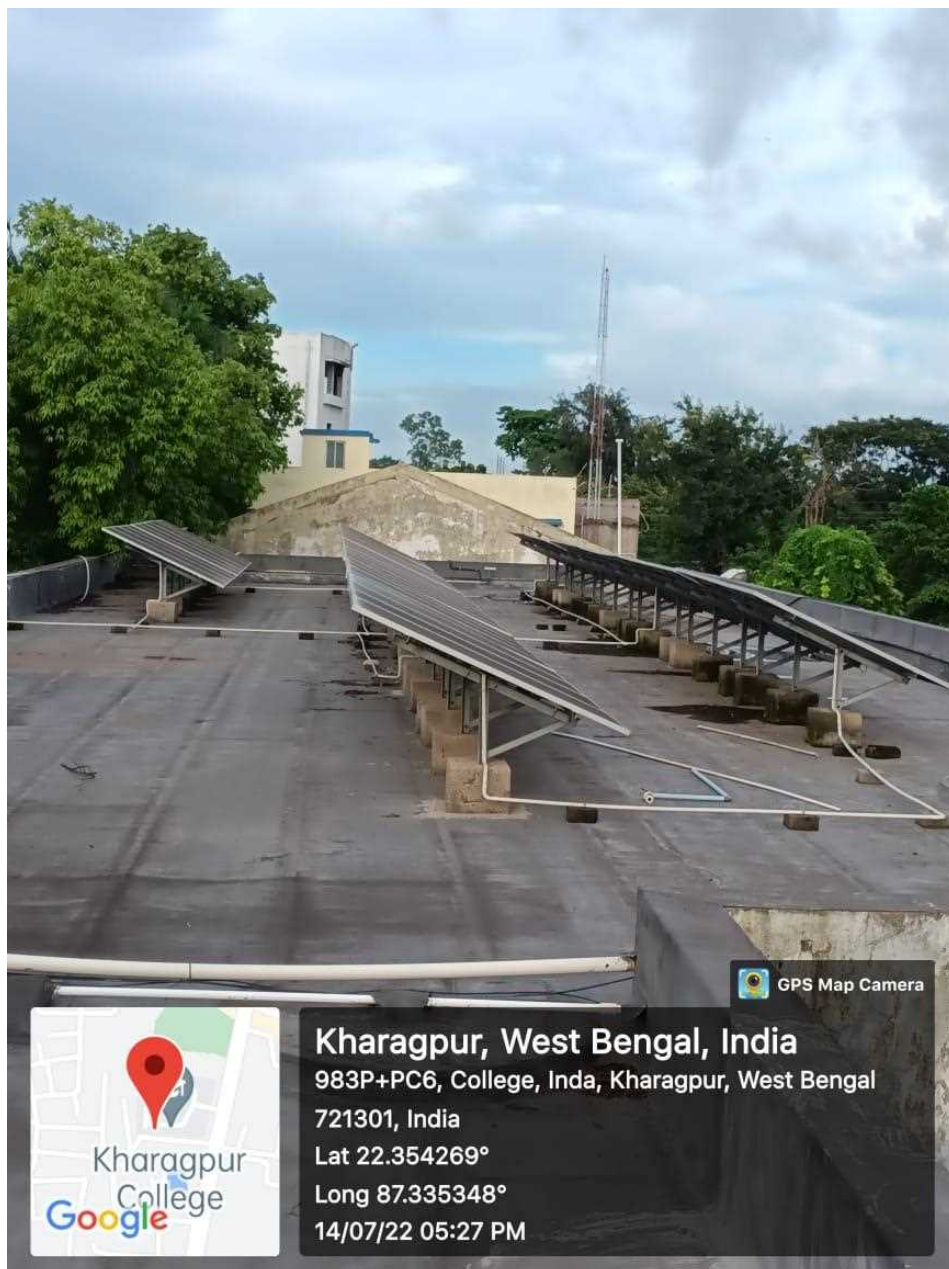
### Supporting Documents:

1. (a) Alternative sources of *energy and energy conservation measures*:

Kharagpur College has a 20 KW grid connected roof top solar photovoltaic plant is installed with the financial support of Government of west Bengal under Aloshree Prakalpa on the roof of administrative building. The solar power has been converted into AC power and that is connected with the state electricity power grid which will reduce the burden of college electricity bill.



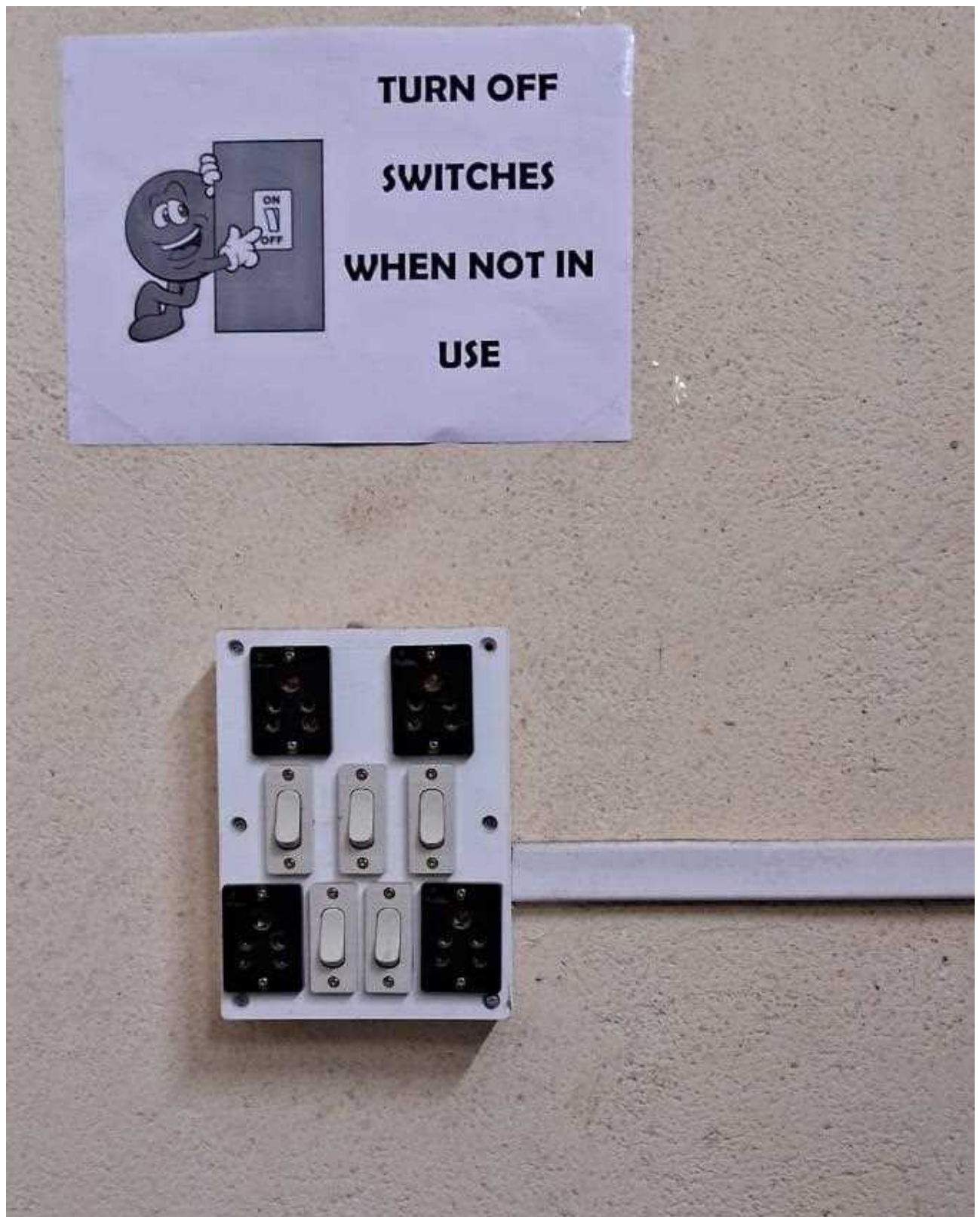
*A 20 KW grid connected roof top solar photovoltaic plant is installed with the financial support of Government of west Bengal under Aloshree Prakalpa*



***A 20 KW grid connected roof top solar photovoltaic plant is installed with the financial support of Government of west Bengal under Aloshree Prakalpa (same plant as Fig 1)***

The college has been very conscious always about the energy consumption issue. Accordingly, the normal light bulbs and tubes (high wattage) are replaced by energy efficient bulbs e.g. CFLs, LEDs and slim lights. The college has also replaced all the CRT monitors by LCD/LED monitors. Thus, the objective of using power efficient equipment is fulfilled. Students are made aware of the necessity of saving electricity and water through digital display board and posters at different corners of the college.





Students are made aware of the necessity of saving electricity through posters at different corners of the college.



Students are made aware of the necessity of saving electricity through posters at different corners of the college.

***(b) Management of the various types of degradable and non-degradable waste***

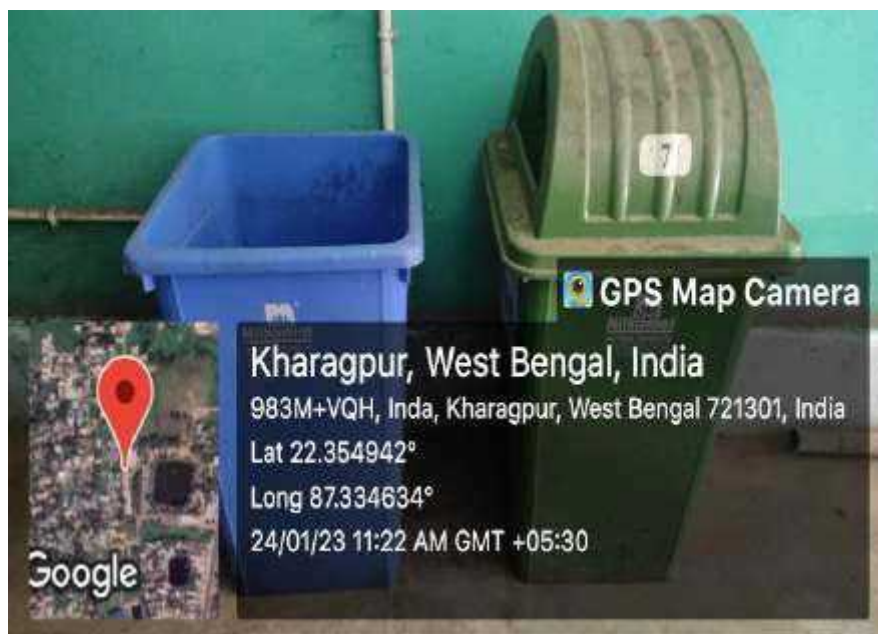
**Solid waste management:**

Coloured dustbins are used to collect the solid waste in segregated form. This waste is then subsequently collected by the local Municipality from the college campus.

- The Green-colored dustbins are used for wet and biodegradable wastes.
- Blue dustbins are used for disposal of plastic wrappers and non-biodegradable wastes.
- Yellow dustbins are meant for papers and glass bottles.

The entire campus is a "plastic free zone" and the institution sincerely puts efforts to maintain the same. Portion of the Biodegradable waste is used as manure for the plants in the garden.





**Solid and wet waste management system**

**Liquid waste management:**

Liquid chemical waste products produced from the laboratories are treated before disposal. As a routine practice, chemical wastes are segregated as acids and bases.

**Biomedical waste management:**

A vermicomposting unit has been developed by the college for decomposition of domestic waste of the college Boys' hostel and bio wasted materials of the campus. As a routine biomedical waste management process in the college, the animal anatomical waste material collected in yellow bags is disposed of in a deep burial pit constructed within the college campus. This is equally true for the used syringe and the cotton applied for blood collection.



**Vermicomposting unit of the college**

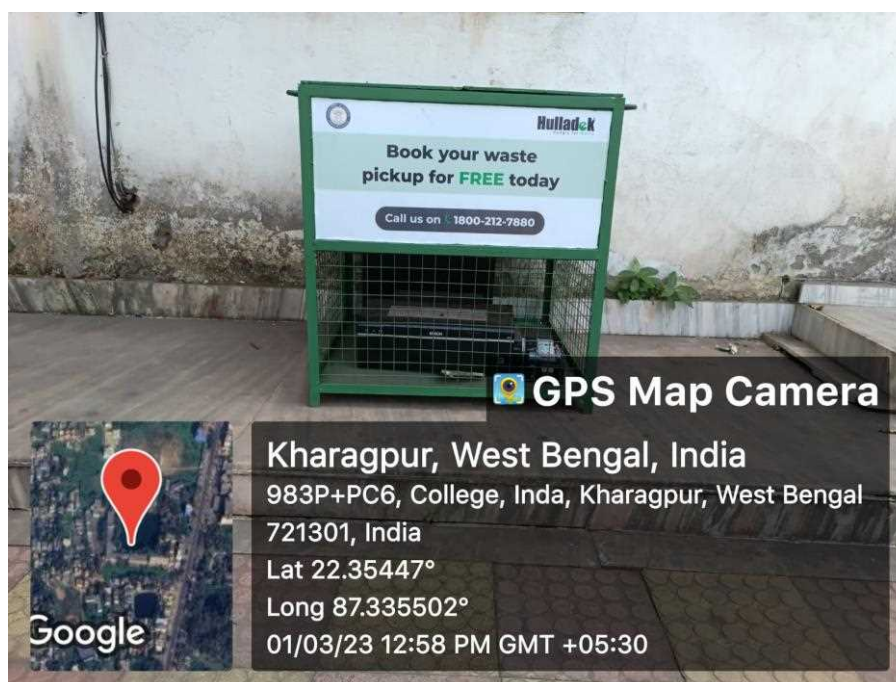


### **Hazardous waste management:**

Practices adopted for management of hazardous chemical wastes generated in laboratories. Chemical wastes are separated into different groups and disposed accordingly.

### **E-Waste management:**

A service agreement for E-waste management is signed with Hulladek Recycling Private Limited, a company incorporated under the Companies Act 2013; to pick up, transport, carry and recycle/dispose of the E-waste from the Kharagpur College time to time. They also provided an e-waste dustbin in the college campus for the collection of e-wastes.



**E-Waste bins provided by the Hulladek Recycling Private Limited.**

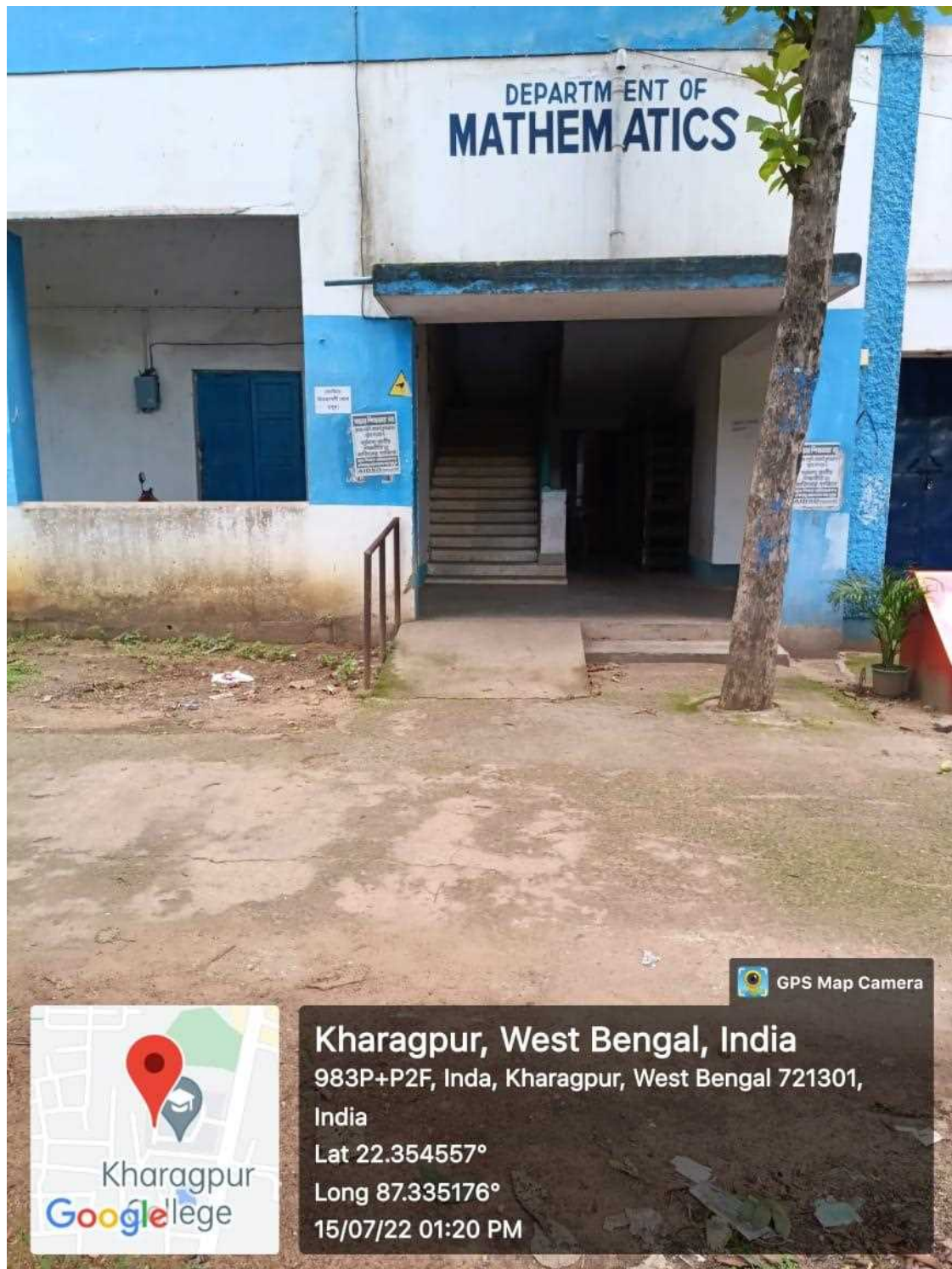




**Kharagpur municipality is collecting solid (dry & wet) waste from the college campus. It is done time and again throughout the year.**



- (c) Geo Tagged Photos of disable friendly washrooms and restrooms.  
*Disabled-friendly, barrier free environment*



*There are provision of ramps at different corners of the college to facilitate disabled (Divyangjan) persons.*



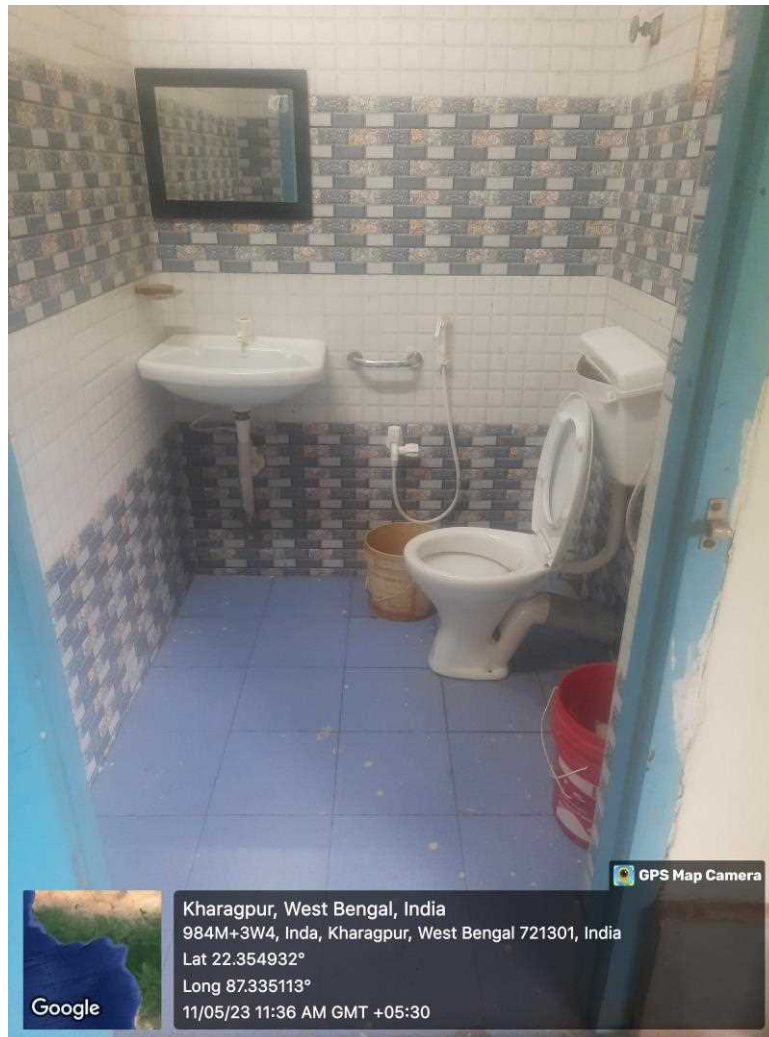


**Photograph of the ramp at the entrance of History department**

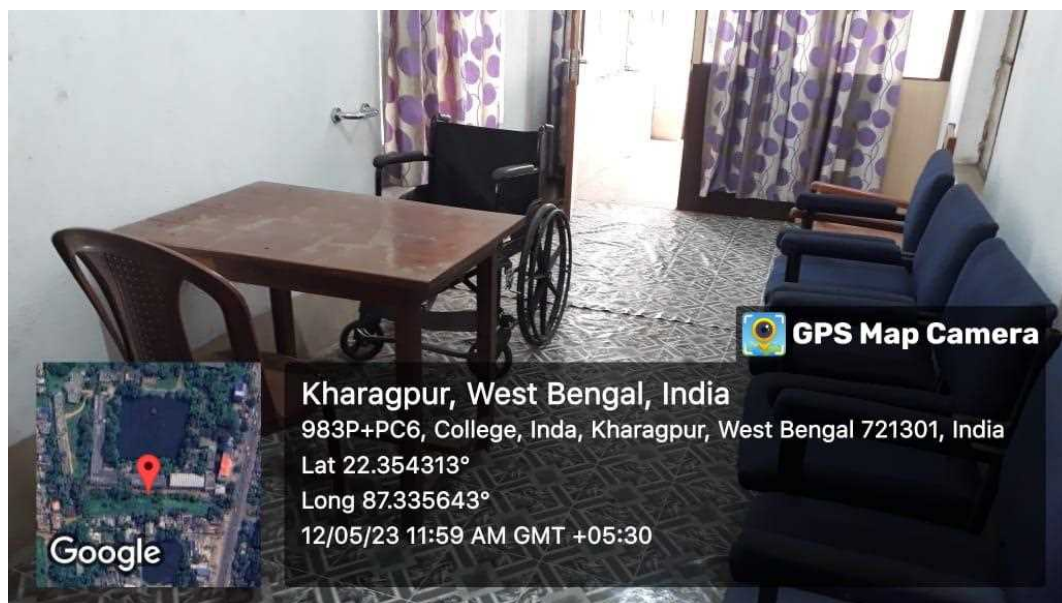


**Facilities for the persons with disabilities and sick candidate during end semester examination.**





**disabled friendly washroom**



**Restroom for disables**

## 2. (a) Electric bills before installation of Grid connected Solar power plant



**West Bengal State Electricity Distribution Company Ltd.**

(A Government of West Bengal Enterprise)

**BILL-Internet Copy**

Helpline Number  
(24X7)

**HBKILL** KHARAGPUR CUSTOMER CARE CENTER, PHONE No - 03222225529 (6 AM -10 PM)

**19121**

PAY BILL AT SHAKTI, CALL CENTER PHONE No - 19121 (TOLL FREE)

Monday to Fri: From 9.30 A.M. to 3.45 P.M. CHEQUES WILL NOT BE ACCEPTED AFTER DUE DATE

PRINCIPAL	Invoice No.	: 444008367953
INDA COLLEGE I N D A K H A R A G P U	Prev. Reading Date	: 08.09.2020
R	Present Reading Date	: 09.12.2020
Pin -	Billing Date	: 09.12.2020
Consumer Id : 212101878	Next Reading Date:	17.02.2021-21.02.2021
Business Partner No: 4752721	Connected Load	: 0.59 KVA
Tariff Class : A(CM-PU) (MUN)	LEGC-GIS Pl No:NA-NA	
Installation No : 4389979	Meter Reading unit	: BDX05QMR
Latitude : 22.3531469		
Longitude : 87.3362381		

Meter No	Time	Previous Reading	Present Reading	MF	Unit consumed	Max Demand (KVA)
LF504259	N	644966.00	651409.00	1.00	6443.00	0.59

Bill Month	DEC, 2020	JAN, 2021	FEB, 2021
Amount due after due date (Rs.)	19428.00	19428.00	19428.00
Due dates to avail Monthly Rebates	21.12.2020	18.01.2021	18.02.2021
Monthly Rebates (Rs.)	-154.52	-154.52	-154.53
Amount due within due dates (Rs.)	15348.00	15348.00	15348.00
Special Rebate (Rs.)	-644.30		
Total Amount Payable at a time within 1st Due date* (Rs.)			45,399.00
Amount payable at a time through e-Payment within 1st Due date			44,947.00

### Breakup of Charges

Category	Total
Energy Charge (Rs.)	44649.99
Fixed/Demand Charge (Rs.)	225.00
Meter Rent (Rs.)	150.00
MVCA Charge (Rs.)	1481.89
Gross Amount (Rs.)	46506.88
Adjustments**	-0.09

Payment may be made using RTGS/NEFT in your exclusive a/c no:

WBB2121018784389979 with IFSC code ICIC0000104

As per order of WBERC dated 28.10.2016 & Subsidy from West Bengal Govt

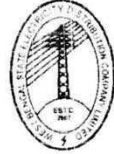
# Outstandings: Rs.0.00

Last Payment Details: Amount (Rs.): 52394.00 Payment date : 14.09.2020

MVCA @ 23 p/kwh for the month of SEP, 2020-DEC, 2020

# Please ignore Outstanding amount if the payment has already been made & help us to correct our records by showing the money receipt to our billing section.





**WBS EDEL**

: Amt Payable within 14/03/2022 through e-Pay Rs. 45908.00 :  
using any E-Pay Mode with  
Zero Transaction Charge

PRINCIPAL  
INDIA COLLEGE INDA KHAHARAGPUR  
GIS P No. : NA  
GPS : Lat - 22.354448 N  
Long - 87.3360137 E

Con Id : 212101878 Tariff : A(CM-PU)(M)  
Inst No : 4389979 CD (KVA) : 0.590  
MRU : BD05QMR SD(Rs.) : 0.00  
Bill Period : Mar'22- May'22  
Bill Date : 04/03/22  
Meter No : LF504259 PH-3 M.F. : 1

Period	Reading Date	Units (KWH)
Previous	08/12/21	683245
Present	04/03/22	689827
Adjustment		0
Total Unit		6582

**Amount Payable(Rupees)**

Bill Due Dt	Amt befr Due Dt (With Rebate)	Amt after Due Dt (Without Rebate)	Remark
14/03/2022	15676.00	19853.00	
13/04/2022	15677.00	19854.00	
13/05/2022	15677.00	19854.00	

Special Rebate : -658.20  
Total Amt Payable at a time within 14/03/2022 : 46370.00  
Others Unpaid Bill Amount : 0.00

\*\*\*\*\*  
: Total Amount Payable at a time through E-Payment :  
: after allowing 1% Addl Rebate within 14/03/2022: 45908.00 :  
\*\*\*\*\*

Amount may be made through RTGS/NEFT in your exclusive account  
WB82121018784389979 using IFSC code ICIC0000104  
(See Details at [www.wbsedcl.in](http://www.wbsedcl.in) under 'Payment Modes')

**Bill Details**

Item	Charge(Rs)	Item	Charge(Rs)
@ Enrgy Chrg :	45613.26	Arr. E.D. :	0.00
Arr. Enrg :	0.00	Misc :	0.00
Fixd Chrg :	225.00	S.C.Int. :	0.00
FPPCA :	0.00	S.D.Instl :	0.00
MVCA :	1513.86	# Gut Sbsdy :	0.00
Mtr Rent :	150.00	LPSC :	0.00
Arr. Othrs :	0.00		
Elec Duty :	0.00		

Gross Demand : 47502.12  
\* Outstanding Dues : 0.00  
\* Tax Collection at Source(TCS) : \*\*  
Others Unpaid Bill Amount : 0.00  
Miscellaneous Adjustment : 0.00  
Other Adjustment : -0.90  
OSD Others : 0.00  
# Additional Subsidy : 0.00  
\* TCS may be added as per under section 206C(1H) of IT Act

OSD/Oth.Unpaid Bill as on 19/02/22 Please ignore if already paid  
Last Payment Details : Rs. 60327.00 Date : 20/12/2021

**@ ENERGY CHARGE DETAILS**

QUARTERLY CONSUM	RATE(Rs)	AMOUNT(Rs)
FRST 6582.00	6.93	45613.26

## 2. (b) Electric bills after installation of Grid connected solar power plant.



**West Bengal State Electricity Distribution Company Ltd.**

(A Government of West Bengal Enterprise)

**BILL-Internet Copy**

Helpline Number  
(24X7)

**WBSEDCL** KHARAGPUR CUSTOMER CARE CENTER, PHONE No - 03222225529 (6 AM -10 PM) **19121**

PAY BILL AT SHAKTI, CALL CENTER PHONE No - 19121 (TOLL FREE), TAN: CALW05053G

Monday to Friday : From 9.30 A.M. to 3.45 P.M. CHEQUES WILL NOT BE ACCEPTED AFTER DUE DATE

Hours of Payment  
of Bill

PRINCIPAL	Invoice No.	: 418013609437
INDA COLLEGE I N D A K H A R A G P U	Prev. Reading Date	: 21.05.2022
R	Present Reading Date	: 05.09.2022
Pin -	Billing Date	: 08.09.2022
Consumer Id : 212101878	Next Reading Date:	16.11.2022-20.11.2022
Business Partner No: 4752721	Connected Load	: 0.59 KVA
Tariff Class : A(CM-I)	LEGC-GIS Pl No:	NA-NA
Installation No : 4389979	Meter Reading unit	: BDX05QMR
Latitude : N/A	PAN of consumer(s)	:
Longitude : N/A		

Meter No	Time	Previous Reading	Present Reading	MF	Unit consumed	Max Demand (KVA)
STE00189	N	0.00	14862.00	1.00	14862.00	
STE00189	E	0.00	299.00	1.00	299.00	
LF504259	N	700347.00	700347.00	1.00	0	0.00

Bill Month	SEP, 2022	OCT, 2022	NOV, 2022
Amount due after due date (Rs.)	77171.00	24347.00	24347.00
Due dates to avail Monthly Rebates	19.09.2022	18.10.2022	17.11.2022
Monthly Rebates (Rs.)	-242.96	-242.96	-242.97
Amount due within due dates (Rs.)	76928.00	24104.00	24104.00
Special Rebate (Rs.)	-1456.30		
Total Amount Payable at a time within 1st Due date* (Rs.)			123,680.00
Amount payable at a time through e-Payment within 1st Due date			122,972.00

Breakup of Charges	Total
Category	
Energy Charge (Rs.)	72815.00
Fixed/Demand Charge (Rs.)	75.00
Meter Rent (Rs.)	150.00
Gross Amount (Rs.)	73040.00
Outstanding Amount (Rs.) #	52824.21
Adjustments**	0.00

Payment may be made using RTGS/NEFT in your exclusive a/c no:  
WBB2121018784389979 with IFSC code ICIC0000104  
As per order of WBERC dated 28.03.2022 & Subsidy from West Bengal Govt  
# Outstandings: Rs.52824.21 for JUN2022-AUG2022  
Last Payment Details: Amount (Rs.): 45908.00 Payment date : 09.03.2022

Electricity duty is exempted for this consumer from period 05.03.2022 - 31.12.9999

Solar Details:	Import	Export+Carried forward	Billable	Carry Forward
Units :	14862.00	299.00	14563.00	0.00

**# Please ignore Outstanding amount if the payment has already been made & help us to correct our records by showing the money receipt to our billing section.**





# West Bengal State Electricity Distribution Company Ltd.

(A Government of West Bengal Enterprise)

## BILL-Internet Copy

Helpline Number  
(24X7)

**WBSDEL** KHARAGPUR CUSTOMER CARE CENTER, PHONE No - 03222225529 (6 AM -10 PM) **19121**  
PAY BILL AT SHAKTI, CALL CENTER PHONE No - 19121 (TOLL FREE), TAN: CALW05053G

Monday to Friday : From 9.30 A.M. to 3.45 P.M. CHEQUES WILL NOT BE ACCEPTED AFTER DUE DATE

Hours of Payment  
of Bill

PRINCIPAL	Invoice No.	: 452011868791
INDA COLLEGE I N D A K H A R A G P U	Prev. Reading Date	: 06.03.2023
R	Present Reading Date	: 07.06.2023
Pin -	Billing Date	: 08.06.2023
Consumer Id : 212101878	Next Reading Date:	16.08.2023-20.08.2023
Tariff Class : A(CM-I)	Connected Load	: 0.59 KVA
Installation No : 4389979	Solar PV Capacity	:
Latitude : N/A	Meter Reading unit	: BDX05QMR
Longitude : N/A	PAN of consumer(s)	:

Meter No	Time	Previous Reading	Present Reading	MF	Unit consumed	Max Demand (KVA)
STE00189	N	31372.00	39750.00	1.00	8378.00	
STE00189	E	2036.00	2646.00	1.00	610.00	

Bill Month	JUN, 2023	JUL, 2023	AUG, 2023
Amount due after due date(Rs.)	13021.00	13022.00	13022.00
Due dates to avail Monthly Rebates	19.06.2023	18.07.2023	17.08.2023
Monthly Rebates(Rs.)	-129.71	-129.71	-129.72
Amount due within due dates(Rs.)	12892.00	12892.00	12892.00
Special Rebate(Rs.)	-776.80		
Total Amount Payable at a time within 1st Due date* (Rs.)			37,899.00
Amount payable at a time through e-Payment within 1st Due date			37,521.00

Breakup of Charges	Total
Category	
Energy Charge(Rs.)	38840.00
Fixed/Demand Charge(Rs.)	75.00
Meter Rent(Rs.)	150.00
Gross Amount(Rs.)	39065.00
Adjustments**	-0.74

Payment may be made using RTGS/NEFT in your exclusive a/c no:  
WBB2121018784389979 with IFSC code ICIC0000104  
As per order of WBERC dated 28.07.2022 & Subsidy from West Bengal Govt  
# Outstandings: Rs.0.00  
Last Payment Details:Amount(Rs.):40946.00 Payment date :16.03.2023  
Electricity duty is exempted for this consumer from period 05.03.2022 - 31.12.9999

Solar Details:	Import	Export+Carried forward	Billable	Carry Forward
Units :	8378.00	610.00	7768.00	0.00
Interest Rs. , TDS Rs. & Net Int. Rs. on Security Deposit as on				

# Please ignore Outstanding amount if the payment has already been made & help us to correct our records by showing the money receipt to our billing section.



# West Bengal State Electricity Distribution Company Ltd.

(A Government of West Bengal Enterprise)

## BILL-Internet Copy

Helpline Number  
(24X7)

HBSEDC KKHARAGPUR CUSTOMER CARE CENTER, PHONE No - 03222225529 (6 AM -10 PM) **19121**  
PAY BILL AT SHAKTI, CALL CENTER PHONE No - 19121 (TOLL FREE), TAN: CALW05053G

PRINCIPAL  
INDA COLLEGE I N D A K H A R A G P U  
R  
Pin -  
Consumer Id : 212101878  
Tariff Class : A(CM-I)  
Installation No : 4389979  
Latitude : N/A  
Longitude : N/A  
Invoice No. : 414017942141  
Prev. Reading Date : 06.12.2023  
Present Reading Date : 08.03.2024  
Billing Date : 13.03.2024  
Next Reading Date:18.05.2024-22.05.2024  
Connected Load : 0.59 KVA  
Solar PV Capacity :  
Meter Reading unit : BDX05QMR  
PAN of consumer(s) :

Meter No	Time	Previous Reading	Present Reading	MF	Unit consumed	Max Demand (KVA)
STE00189	N	57001.00	61882.00	1.00	4881.00	
STE00189	E	7296.00	9290.00	1.00	1994.00	

Bill Month	MAR, 2024	APR, 2024	MAY, 2024
Amount due after due date(Rs.)	4065.00	4065.00	4065.00
Due dates to avail Monthly Rebates	27.03.2024	22.04.2024	22.05.2024
Monthly Rebates(Rs.)	-40.14	-40.14	-40.15
Amount due within due dates(Rs.)	4025.00	4025.00	4025.00
Special Rebate(Rs.)	-288.70		
Total Amount Payable at a time within 1st Due date* (Rs.)			11,785.00
Amount payable at a time through e-Payment within 1st Due date			11,669.00

### Breakup of Charges

Category	Total
Energy Charge(Rs.)	11894.44
Fixed/Demand Charge(Rs.)	150.00
Meter Rent(Rs.)	150.00
Gross Amount(Rs.)	12194.44
Adjustments**	-0.5

Payment may be made using RTGS/NEFT in your exclusive a/c no: WBB2121018789979 with IFSC code ICIC0000104

Users of PFMS portal shall replace first three characters of the a/c no. by "WPE" in place of "WBB"

As per order of WBERC dated 30.03.2023 & Subsidy from West Bengal Govt  
# Outstandings: Rs.0.00

Last Payment Details:Amount(Rs.):14119.00 Payment date :15.12.2023

Electricity duty is exempted for this consumer from period 05.03.2022 - 31.12.9999

Solar Details:	Import	Export	Carried forward	Billable	Carry Forward
Units	4881.00	1994.00	2887.00	0.00	

# Please ignore Outstanding amount if the payment has already been made & help us to correct our records by showing the money receipt



1. Receipts for the sale of various forms of e-waste to third parties (Hulladek Recycling Private Limited)

Hulladek Recycling Private  
Limited  
5, Deshpriya Sashmal Road,  
Kolkata 700033  
1800-212-7880 ||  
help@hulladek.re

**Hulladek**  
Recycling Pvt. Ltd.

Company Name	Kharagpur College	Contact person	Dr. Bidyut Samanta	Concerned person	Dr. Bidyut Samanta	Date	05-11-2022	Logistics Executive	Jacky
Pickup Location	Ward No.- 02 of Kharagpur Municipality, P.O.- Inda, Kharagpur, P.S.- Kharagpur (Town), Sub-Division- Kharagpur Paschim Medinipur West Bengal India	Contact no.	9474447501	Contact No.	9474447501	AM/CTM/PE/GBM/CP Name -	Bhaskar Adak	Pick Up Request Number	PICKUP-REQNO-9185

Item Code	Item	Description	Quantity	Weight/unit	Net Weight	UOM	HSN Code	Price/UOM (inclusive of applicable taxes)	Total Price (inclusive of applicable taxes)
ITEW2	CPU (missing components)	only motherboard & CD Drive	32	5.90	118.00	Pcs	85481090	150.00	4800
ITEW2	CRT Monitor B&W		43	8.50	425.00	Pcs	85481090	75.00	3225
ITEW2	UPS		39	6.00	120.00	Pcs	85481090	150.00	5850
ITEW7	Photocopier Machine	table top	1	40.00	40.00	Pcs	85481090	356.00	356.00
OTH1	Mixed Electrical	Lab Equipment	1	200.00	200.00	Kg	85481090	25.00	1929.75
Item 6	DotMatrix		6			Pcs		55	330
Item 6	Printer		2			Pcs		50	100
Item 6	Typewriter		1			Pcs		50	50
Item 2	Led Monitor		4			Pcs		75	300
Item 2	S.M.P.S		3			Pcs		25	75
Item 2	Key board		3			Pcs		5	15
					903				17030.75

I hereby declare that I will receive/have received Rs. 17030.75 in the form of Cheque/NEFT/RTGS/DD/IMPS/Cash on 03-11-2022 for the above mentioned items.

How would you like to rate our pick-up here?

Poor Bad Neutral Good Excellent

Signed Above for Kharagpur College Principal  
05/11/22

Signed Above for Hulladek Recycling Pvt. Ltd.

GSTIN: 19AADCH4384E1Z1

CPCB REGISTRATION NO.: B-29016(12)/(PRO)/18/WM-III Division

## 2. *Water conservation*

### 3. **Rain water harvesting:**

A big pond of nearly 4800 sq metre is situated at the centre of the college campus. It is the main of our rain water harvesting process. The water of the pond is used for non-drinking purpose such as for the watering of trees, construction and other repairing work of the building etc. In addition, the college has also built a rain water harvesting unit using the rooftop rain water of Vidyasagar Bhavan. This water is utilised for two purposes. Firstly, it is used in ladies toilet and the excess amount of water is meant for re-charging the ground water.



Rain water harvesting unit

### 4. **Bore well/ open well recharge:**

Huge area in our college campus is covered by soil. Naturally, there is no dearth of ground water reserve in the college campus. This stock of ground water is used mainly for drinking purpose. Thus, the institution seeks to reduce the practice of consuming ground water for regular activities and contributes to the preservation of ground water resources to a certain extent. Students are made aware of the necessity of saving water through posters at different corners of the college.





Students are made aware of the necessity of saving water through posters at different corners of the college.

- **Plantation**

The college itself is rich with a huge green coverage consisting of a number of large small trees. We have four well maintained gardens inside the college campus. Students of the college not only clean the garden but take initiatives to nourish the trees and the flowering plants. Plantation is

regularly done in the campus by the NSS volunteers throughout the year and a special drive is taken on the college foundation day every year.



*Plantation on 16.08.2021 by the NSS units*