

ALTERNATE ENERGY INITIATIVES



Estd. 2010

SHARDA DEVI
DEGREE COLLEGE

ENERGY CONSERVATION

ALTERNATIVE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

Energy conservation refers to the methods of reduction in energy consumption by way of elimination of wastage and promotion of efficiency. We know that due to the vast gap between demand and supply, lot of efforts beings done to bridge the gap in term of generation of more electricity which requires lot of capital investment and apart from it creates a lot of environmental concerns.

Energy conservation is the key element of energy management.

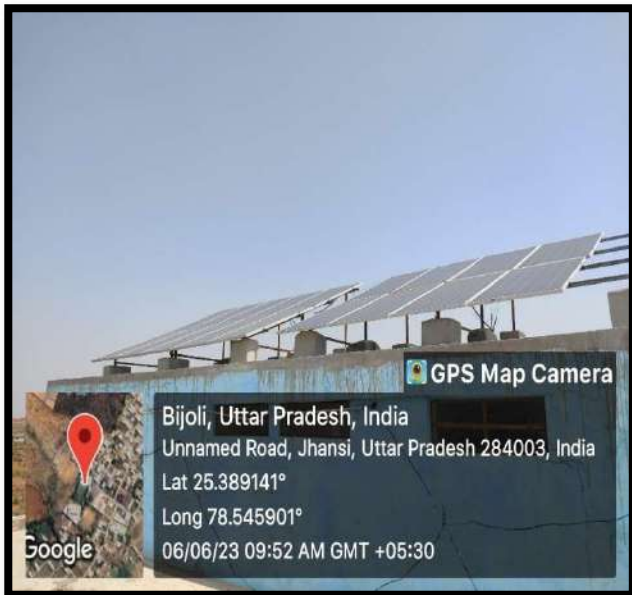
We can reduce the energy consumption by adopting various way of energy conservation which includes efficient use of technologies and
avoiding energy wastages

Our College has initiated following

Measures to conserve energy respectively –

- 1. Solar panels**
- 2. Wheeling to the grid units**
- 3. Light emitting diode (LED)**
- 4. Power efficient equipments**

1. Solar panels



SOLAR ENERGY PANELS AT ADMINISTRATIVE BUILDING



SOLAR PANELS AT ACADEMIC BUILDING


SENSOR BASED ENERGY CONSERVATION FACILITY



2. Wheeling to the grid units





 GPS Map Camera



Bijoli, Uttar Pradesh, India

Unnamed Road, Jhansi, Uttar Pradesh 284003, India

Lat 25.389049°

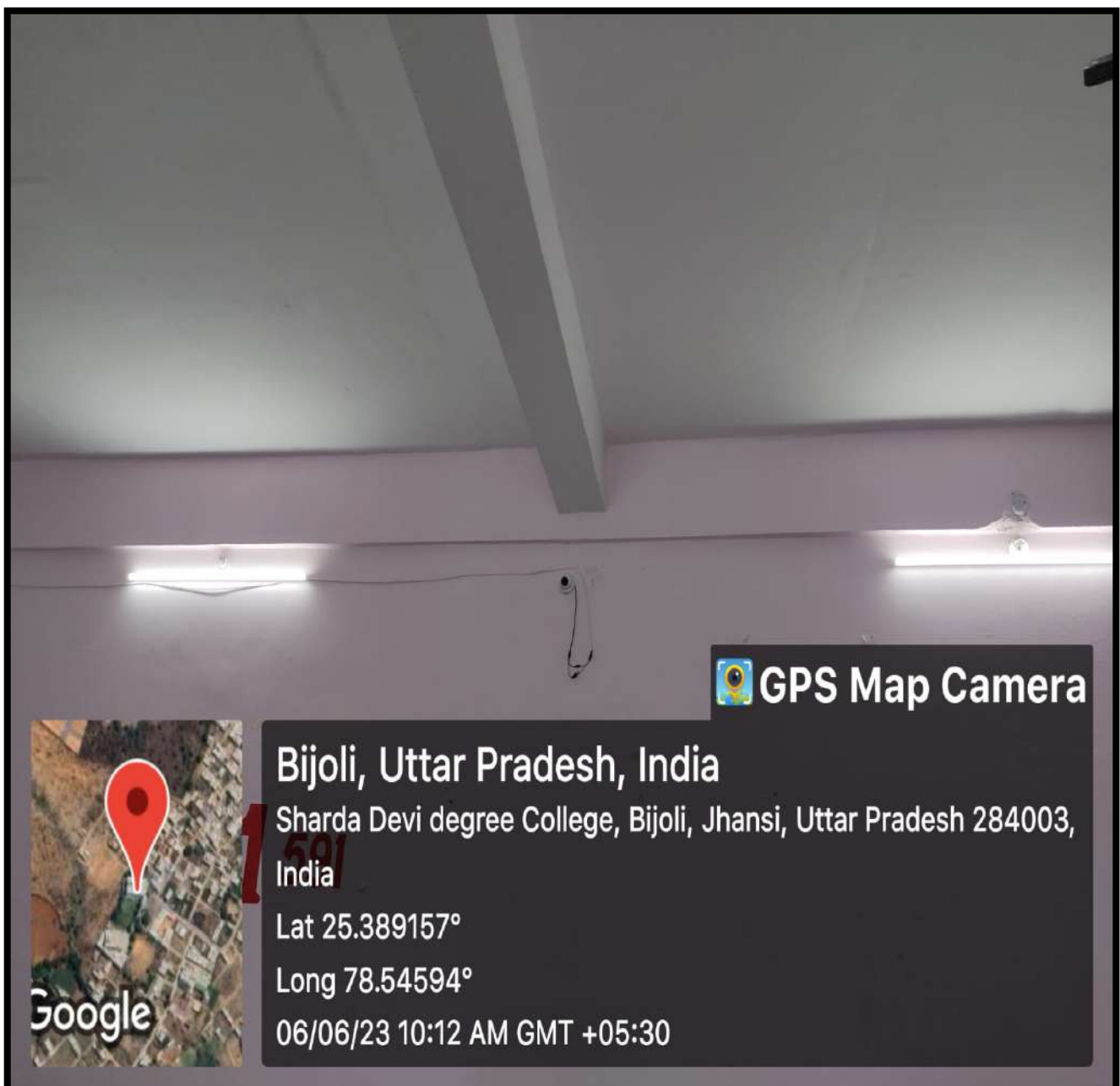
Long 78.546214°

09/06/23 12:36 PM GMT +05:30

Google

3-Light Emitting Diode (LED):-

Sharda Devi Degree College has a policy of employing LED lights throughout the campus. The institute initiates the implementation of replacing all the light with LEDs from administrative block and academic block. The entire block is lit by LED light. All the light of library in the ground floor is replaced with LED lights.



Total Number of LED lights

Total number of LED tube lights in Administrative building = 72

Total number of LED bulb in administrative building = 46

Total number of LED tube lights in Academic building = 65

Total number of LED bulbs in Academic building = 20

Total number of LED tube lights in the college = 137

Total number of LED bulbs in the college = 66

Total power consumption met through LED bulbs=660 watts.

Total power consumption met through LED tube lights = 2,466 watts.

5-Power Efficient Equipment's:-



FIVE STAR POWER EFFICIENT EQUIPMENTS

SOLAR INSTALLATION BILLS

Tax Invoice

MICRO ENERGIES

187, Court Road, Sadar Bazaar,
Distt. JHANSI UP-284 001 (UP)
TEL:7522000145 Email:Microenergies@yahoo.in
(AN ISO 9001:2008 Certified Company)
GSTIN/UIN: 09APAPS2610B1ZE
State Name : Uttar Pradesh, Code : 09
Contact : 7522000145
E-Mail : microenergies@yahoo.in

Invoice No. **851/22-23** e-Way Bill No. **431278683334** Dated **18-Sep-2022**
Delivery Note Mode/Terms of Payment

Supplier's Ref. Other Reference(s)

Consignee
SHARDA DEVI DEGREE COLLEGE
BALLAMPUR ROAD
RAHGARH
DISTT. JHANSI
State Name : Uttar Pradesh, Code : 09

Buyer's Order No. **VERBAL** Dated **18-Sep-2022**
Despatch Document No. **NIL** Delivery Note Date
Despatched through **LOADING** Destination **RAJGARH**
Terms of Delivery

Buyer (if other than consignee)
SHARDA DEVI DEGREE COLLEGE
BALLAMPUR ROAD
RAHGARH
DISTT. JHANSI
State Name : Uttar Pradesh, Code : 09

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	Goldi Solar Pv Module 335 Watt WITH SOLAR PCU 5.5 KVA 5500 GI STRUCTURE, END CLAMP, MID CLAMP, FASNERS LOADING, UNLOADING, WIRING WIRE 25 MTR 01 NOS OF EARTH SR NO OF PCU:PL21361102889DAA	85414012	16 Nos	15,178.57	Nos		2,42,857.12

continued ..

SUBJECT TO JHANSI JURISDICTION

This is a Computer Generated Invoice

Tax Invoice(Page 2)

MICRO ENERGIES

187, Court Road, Sadar Bazaar;
Distt. JHANSI UP-284 001 (UP)
TEL:7522000145 Email:Microenergies@yahoo.in
(AN ISO 9001:2008 Certified Company)
GSTIN/UIN: 09APAPS2610B1ZE
State Name : Uttar Pradesh, Code : 09
Contact : 7522000145
E-Mail : microenergies@yahoo.in

Consignee

SHARDA DEVI DEGREE COLLEGE
BALLAMPUR ROAD
RAHGARH
DISTT JHANSI
State Name : Uttar Pradesh, Code : 09

Buyer (if other than consignee)

SHARDA DEVI DEGREE COLLEGE
BALLAMPUR ROAD
RAHGARH
DISTT JHANSI
State Name : Uttar Pradesh, Code : 09

Invoice No.

851/22-23

Delivery Note

e-Way Bill No. Dated

431278683334 18-Sep-2022

Mode/Terms of Payment

Supplier's Ref.

Other Reference(s)

Buyer's Order No.

VERBAL

Dated

18-Sep-2022

Despatch Document No.

Delivery Note Date

NIL

Despatched through

Destination

LOADING

RAJGARH

Terms of Delivery

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
2	EXIDE SOLAR POWER GENERATING SYSTEM WITH 150 AH/12V SOLAR TUBULAR BATTERY SR NO OF BATTERIES 3UN033017648910,3UN071610537810 3SNO328117583934,3UN031909636399	85023990	4 Nos	12,946.43	Nos		51,785.72
							2,94,642.84
							17,678.57
							17,678.57

continued ...

SUBJECT TO JHANSI JURISDICTION

This is a Computer Generated Invoice

Tax Invoice(Page 3)

MICRO ENERGIES

187, Court Road; Sadar Bazaar;
Distt. JHANSI UP-284 001 (UP)
TEL:7522000145 Email:Microenergies@yahoo.in
(AN ISO 9001:2008 Certified Company)
GSTIN/UIN: 09APAPS2610B1ZE
State Name : Uttar Pradesh, Code : 09
Contact : 7522000145
E-Mail : microenergies@yahoo.in

Consignee

SHARDA DEVI DEGREE COLLEGE**BALLAMPUR ROAD****RAHGARH****DISTT. JHANSI**

State Name : Uttar Pradesh, Code : 09

Invoice No. e-Way Bill No. Dated

851/22-23**431278683334****18-Sep-2022**

Delivery Note

Mode/Terms of Payment

Supplier's Ref.

Other Reference(s)

Buyer's Order No.

Dated

VERBAL**18-Sep-2022**

Despatch Document No.

Delivery Note Date

NIL

Despatched through

Destination

LOADING**RAJGARH**

Terms of Delivery

Buyer (if other than consignee)

SHARDA DEVI DEGREE COLLEGE**BALLAMPUR ROAD****RAHGARH****DISTT. JHANSI**

State Name : Uttar Pradesh, Code : 09

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
	ROUND OFF						0.02
Total			20 Nos				₹ 3,30,000.00

Amount Chargeable (in words)

INR Three Lakh Thirty Thousand Only

E & O E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
85414012	2,42,857.14	6%	14,571.43	6%	14,571.43	29,142.86
85023990	51,785.72	6%	3,107.14	6%	3,107.14	6,214.28
Total	2,94,642.86		17,678.57		17,678.57	35,357.14

Tax Amount (in words) : **INR Thirty Five Thousand Three Hundred Fifty Seven and Fourteen paise Only****MICRO ENERGIES**

Sadar Bazar, JHANSI (U.P.)

Company's Bank Details

Bank Name

Tel-7522000144, 145, 148
INDIAN OVERSEAS BANK CA 196533000000047

A/c No.

1965330000000047

Branch & IFS Code

SADAR BAZAAR, JHANSI & IOBA0001965

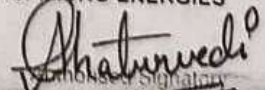
Company's PAN

: APAPS2610B

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for MICRO ENERGIES



SUBJECT TO JHANSI JURISDICTION

This is a Computer Generated Invoice

00

187, Court Road, Sadar Bazaar;
Distt. JHANSI UP -284 001
Tel: 7522000145, 7522000144
Email: Microenergies@yahoo.in
GSTIN/UIN: 09APAS2610B1ZE
State Name : Uttar Pradesh, Code : 09
Contact : 7522000144, 7522000145, 9415030944
E-Mail : microenergies@yahoo.in

State Name : Uttar Pradesh, Code : 09

WARRANTY THRU MFR TOLL FREE NOS

Amount Chargeable (in words)

INR One Lakh Ninety Three Thousand Four Hundred and Two paise Only

E. & O.E.

Tax Amount (in words) : INR Eighteen Thousand Two Hundred Seventy Nine and Forty Six paise Only

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Branch & IFS Code : COURT CROSSING, JHANSI & ICIC0000249

Sadar Bazaar, JHAHSI UR
Tel: 7522060144, 145, 140

Authorised Signatory

This is a Computer Generated Invoice

Tax Invoice

MICRO ENERGIES

167, Court Road, Sadar Bazaar;
Distt. JHANSI UP -284 001
Tel: 7522000145, 7522000144
Email: Microenergies@haoo.in
GSTIN/UIN: 09APAPS2610B1ZE
State Name: Uttar Pradesh, Code: 09
Contact: 7522000144, 7522000145, 9415030944
E-Mail: microenergies@yahoo.in

Buyer

Sharda Devi Degree College
Ballampur Road;
Rajgarh,
Distt. JHANSI UP
State Name : Uttar Pradesh, Code : 09

Invoice No.	e-Way Bill No.	Dated
901/18-19		24-Feb-2019
Delivery Note		Mode/Terms of Payment
NIL		AGAINST DELIVERY
Supplier's Ref.		Other Reference(s)
Buyer's Order No.		Dated
VERBAL		24-Feb-2019
Despatch Document No.		Delivery Note Date
NIL		24-Feb-2019
Despatched through		Destination
THRU NON MOTORIZED VEHICLE		
Terms of Delivery		
WARRANTY SHALL BE PROVIDED BY THE MFR. CO.		

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	FlinFuzion 5KVA-48V Solar Inverter WITH ACDB @RS.2800/-EACH & DCDB @RS.3500/-EACH	85	1 NOS	79,333.33	NOS		79,333.33
	CGST						1,983.33
	SGST						1,983.33
	ROUND OFF						0.01
	Total		1 NOS				₹ 83,300.00

Amount Chargeable (in words)

INR Eighty Three Thousand Three Hundred Only

E. & O.E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
85	79,333.33	2.50%	1,983.33	2.50%	1,983.33	3,966.66
Total	79,333.33		1,983.33		1,983.33	3,966.66

Tax Amount (in words) : INR Three Thousand Nine Hundred Sixty Six and Sixty Six paise Only

MICRO ENERGIES
Sadar Bazaar, JHANSI UP
Tel: 7522000144, 145, 148

Remarks:

WARRANTY CARD ENCLOSED

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details

Bank Name : ICICI BANK

A/c No. : 024905500675

Branch & IFS Code : COURT CROSSING, JHANSI & ICIC0000249
for MICRO ENERGIES

Authorized Signatory

SUBJECT TO JHANSI JURISDICTION

This is a Computer Generated Invoice

Tax Invoice

MICRO ENERGIES

1st, Court Road, Sadar Bazaar,
Distt. JHANSI UP -284 001
Tel: 7522000145, 7522000144
Email: Microenergies@haoo.in
GSTIN/UIN: 09APAPS2610B1ZE
State Name : Uttar Pradesh, Code : 09
Contact : 7522000144, 7522000145, 9415030944
E-Mail : microenergies@yahoo.in

Buyer

Sharda Devi Degree College
Ballampur Road,
Rajgarh,
Distt. JHANSI UP
State Name : Uttar Pradesh, Code : 09

Invoice No.	e-Way Bill No.	Dated
898/18-19	421051285606	17-Feb-2019
Delivery Note	Mode/Terms of Payment	
nil	Against Delivery	
Supplier's Ref.	Other Reference(s)	
Buyer's Order No.	Dated	
Verbal	17-Feb-2019	
Despatch Document No.	Delivery Note Date	
Nil	17-Feb-2019	
Despatched through	Destination	
By Loader		
Terms of Delivery	Warranty Shall Be Provided by the Mfr. Co.	

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	GOLDI072F325PY24 With Installation ETC Complete	85414011	6 NOS	11,142.86	NOS		66,857.16
							CGST
							1,671.43
							SGST
							1,671.43
	Total		6 NOS				₹ 70,200.02

Amount Chargeable (in words)

INR Seventy Thousand Two Hundred and Two paise Only

E. & O.E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
85414011	66,857.16	2.50%	1,671.43	2.50%	1,671.43	3,342.86
Total	66,857.16		1,671.43		1,671.43	3,342.86

Tax Amount (in words) : **INR Three Thousand Three Hundred Forty Two and Eighty Six paise Only**

Remarks:

WARRANTY CARDS ENCLOSED

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details

Bank Name : ICICI BANK
A/c No. : 024905500675
Branch & IFS Code : COURT CROSSING, JHANSI & ICIC0000249

MICRO ENERGIES

Sadar Bazaar, JHANSI UP
Tel : 7522000144, 145, 149

for MICRO ENERGIES

Authorised Signatory

SUBJECT TO JHANSI JURISDICTION

This is a Computer Generated Invoice

E - WAY BILL SYSTEM



e-Way Bill



E-Way Bill No: 4210 5128 5606
 E-Way Bill Date: 17/02/2019 04:18 PM
 Generated By: 09APA PS261 0B1ZE - M/S MICRO ENERGIES
 Valid From: 17/02/2019 04:18 PM [15Kms]
 Valid Until: 18/02/2019

Part - A

GSTIN of Supplier 09APAPS2610B1ZE,M/S MICRO ENERGIES
 Place of Dispatch JHANSI,UTTAR PRADESH-284003
 GSTIN of Recipient URP ,SHARDA DEVI DEGREE COLLEGE
 Place of Delivery Jhansi,UTTAR PRADESH-284202
 Document No. 898/18-19
 Document Date 17/02/2019
 Transaction Type: Regular
 Value of Goods ₹ 70200.02
 HSN Code 85414011 - SOLAR
 Reason for Transportation Outward - Supply
 Transporter

Part - B

Mode	Vehicle / Trans Doc No & DL	From	Entered Date	Entered By	CEWB No. (If any)	Multi Veh.Info (If any)
Road	UP93AT1863	JHANSI	17/02/2019 04:18 PM	09APAPS2610B1ZE	-	-



421051285606



शारदा देवी डिग्री कॉलेज
SHARDA DEVI DEGREE COLLEGE

The Institution has disabled-friendly, barrier free environment

Differently abled (Divyangjan) friendliness resources available in the Institution and “The Learning Disability Friendly Initiative of the College”

The right to Education focuses on the need to have inclusive education, which means that educating students with **learning difficulties and identified disabilities** have the right to fulfillment of their educational needs. The College provides equal opportunities to all students of the college in congruence with the guidelines given by the government.

The College has also introduced the ***Learning Disability Friendly Initiative*** to support students with Learning Disabilities. This was done specifically to create an environment of acceptance and nurturance.



Objectives

1. To ensure that students with disabilities get equal opportunities to explore their educational potentials.
2. To provide a nurturing and motivating environment for students with learning disabilities to accommodate their pedagogic needs.
3. To eradicate any kind of stigmatization and segregation so that they can become confident individuals.

POLICY FOR THE DIFFERENTLY ABLED

The policy has been prepared to ensure that all member of SDDC are aware of the facilities provided for the people with disabilities.

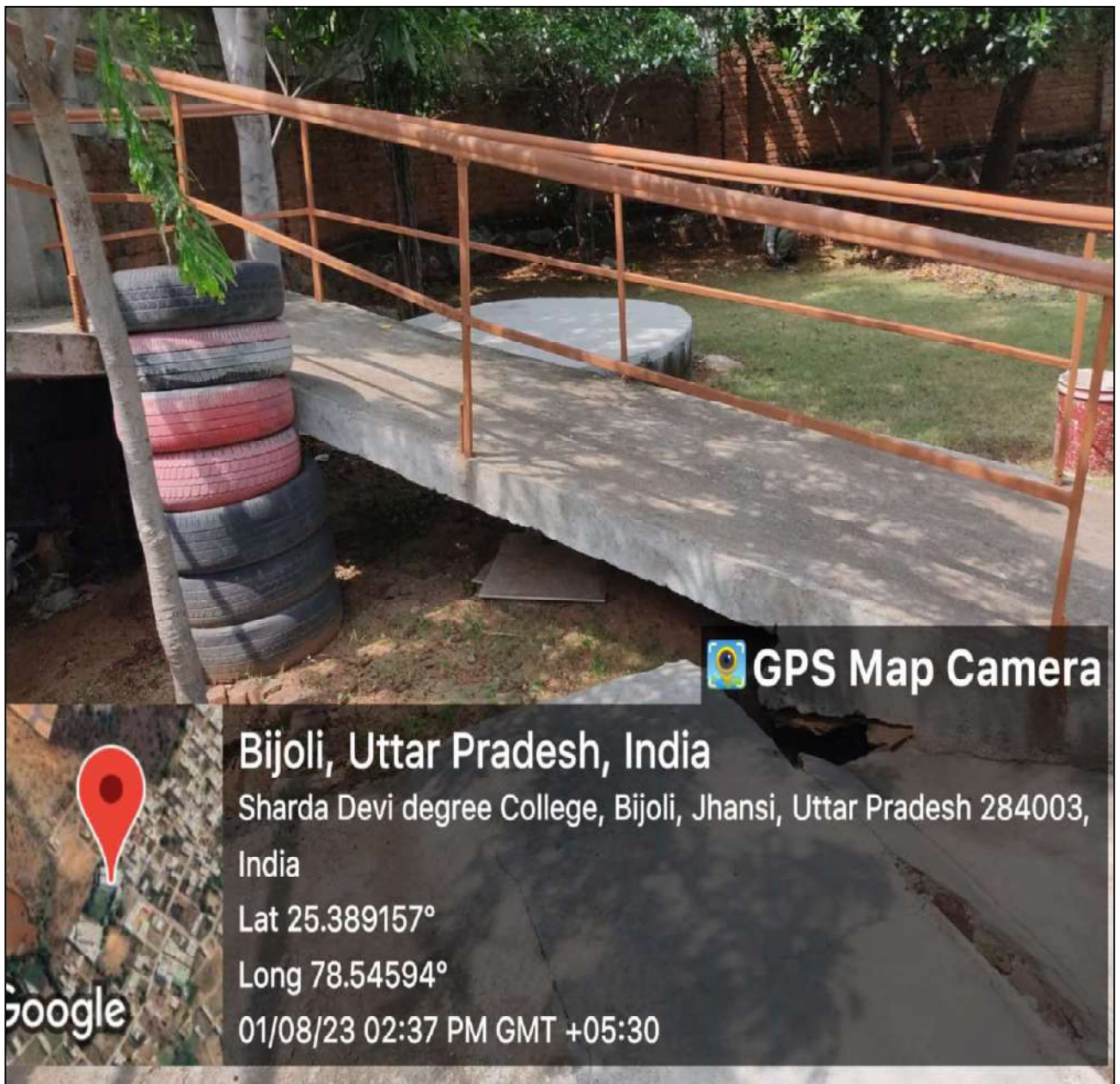
The college takes utmost care in providing the needed amenities and create an environment of inclusive education for students.

- Assuring that the buildings, toilets, libraries, labs etc are barrier free and accessible for all types of differently abled persons.



शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE

- Ensuring inclusion and effectiveness in the participation of differently abled students in curricular, co-curricular and other activities.
- Adopting Suitable medium and method of teaching for the disabled students.
- Providing assistance to the students in the learning process apart from regular class hours.
- Built environment with ramps for easy access to classrooms.
- Provisions for enquiry and information: Human assistance , Reader, Scribe, soft copies of reading material.





शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE





शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE





शारदा देवी डिग्री कॉलेज
SHARDA DEVI DEGREE COLLEGE

Green Practices

- Students, staff using
Bicycles
Public Transport
Pedestrian Friendly Roads
- Plastic free campus
- Paperless office
- Green landscaping with trees and plants

BICYCLES: BICYCLES FOR POLLUTION-FREE ENVIRONMENT

- The provisions for parking the cycles are provided both in the Main gate and also in the front gates for the benefit of the students.
- More than 95% of the day scholars walk from the gate to their blocks
- Only 10% of faculty members use motored vehicles.

PUBLIC TRANSPORT:

- Our Institute is well connected from all areas of JHANSI city and suburbs by public transport facilities.
- Most of the day scholars and faculty members use public transport only – either bus or train- for daily commuting.



शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE

PEDESTRIAN FRIENDLY ROADS:

- Roads inside campus are strictly prohibited for use of two-wheelers and four-wheelers except utility vehicles. The roads are fully used only for pedestrian purpose.
- All vehicles should be parked in the respective places allotted by the security and they are not allowed to enter beyond the barricade placed at the entrance of the campus, unless if there is an emergency or special case.

PLASTIC FREE CAMPUS:

- A policy is in place to convert our campus into a Plastic-free campus. Within the context of our Green campus policy we commit to ban the use of plastics, to reduce the environmental impact of waste plastics.
- Usages of plastics are avoided in the canteen by serving the food in the steel plates.

PAPERLESS OFFICE :

- Electronic documentation is maintained in 50 percent of the cases. All communications to faculty members and students are through e-mails and SMS.



GREEN LANDSCAPING WITH TREES AND PLANTS

CATEGORIES OF LAND USE	AREA (m²)
PLANTATION AREA	6070.28463 M ²
BUILT UP AREA (INCLUDE ROADS)	4046.85647 M ²
TOTAL AREA	10117.1411 M ²

The area is immensely diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programmers organized by the authority and have become an integral part of the college. The trees of the college have increased the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many species of birds are dependent on these trees mainly for food and shelter.

The other green practices include

- Solar Power plant
- Bicycle
- E- waste Disposal
- Bio waste Disposal
- Waste Paper recycling
- LED Fixtures



शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE

- Air-conditioning split units of 5-star RATING





शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE





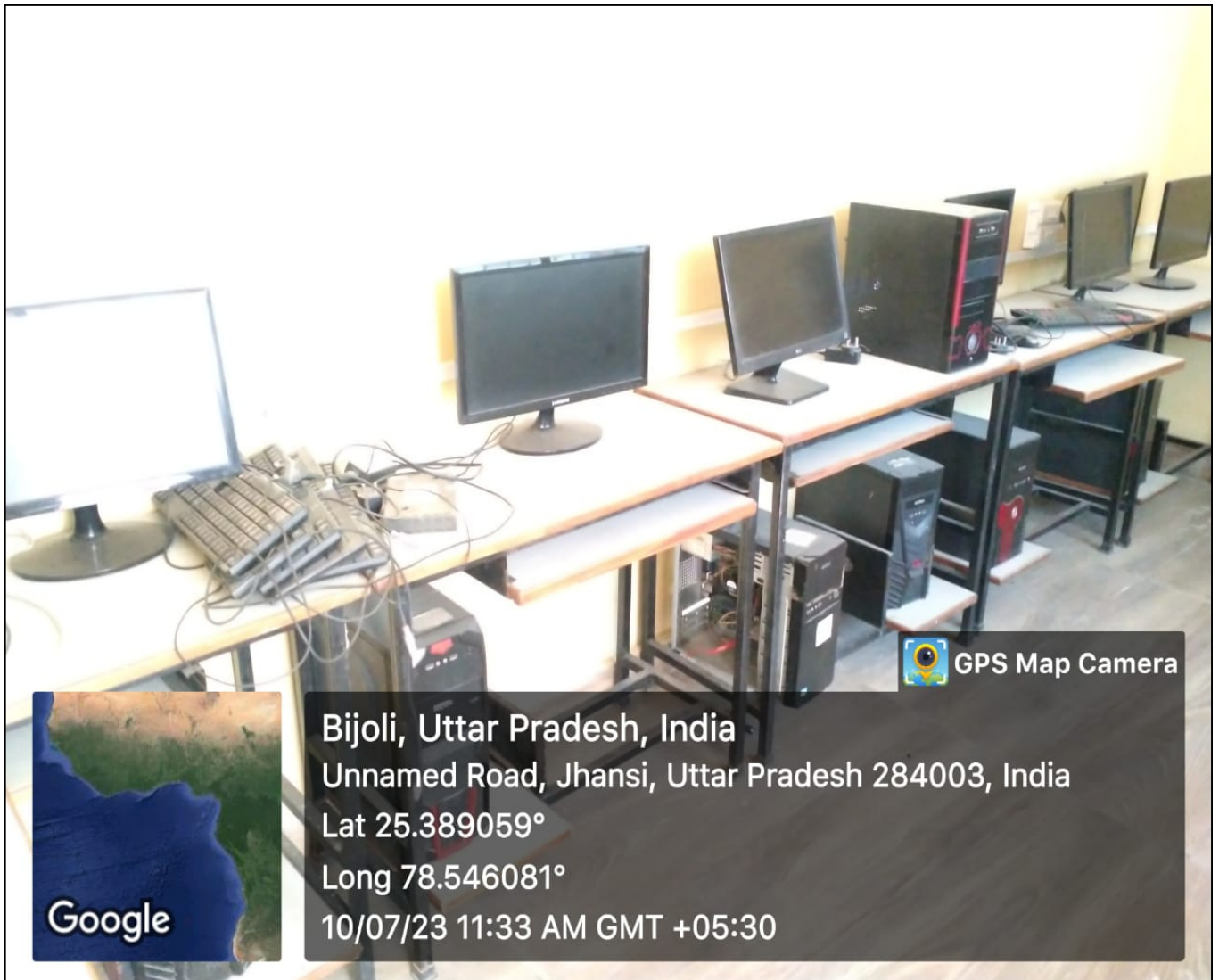
शारदा देवी डिग्री कॉलेज SHARDA DEVI DEGREE COLLEGE



E-WASTE MANAGEMENT IN SDDC

SDDC has very efficient mechanism to dispose E-wastes generated from various sources. E-wastes are generated from computer laboratories, electronic labs, Physics Labs, Chemistry Lab, Academic and Administrative Offices.

The e-waste includes out of order equipments or obsolete items like lab instruments, circuits, desktops, laptops and accessories, printer, charging and network cables, Wi-fi devices, cartridges, sound systems, display units, UPS, Biometric Machine, scientific instruments etc. All these wastes are put to optimal use. All such equipment's which cannot be reused or recycled is being disposed off through authorized vendors. Instead of a new procurement Buy-Back option is preferred for technology up gradation.





E-waste stored in a particular location in store for exchange offer or dispose off to minimum price.



HAZAROUS WASTE MANAGEMENT IN SDDC

SDDC, like other entities that generate and manage hazardous wastes, is faced with a range of problems. Most of the departments do not generate hazardous waste and can be classified as conditionally exempt small quantity generators (generators of less than 100 grams of hazardous waste per month). Hazardous chemical or biochemical including contagious disease pathogen, patient blood, and radioactive substances are not used in the college campus yet. Ideally, handling, collection, and transportation and proper handling of chemicals begin with understanding the potential hazards related to their use. All stakeholders, especially from Academic Departments and laboratories are responsible for disseminating information on hazardous materials being used in the facility. As the amount of hazardous waste is nil or very negligible amount, there is not facility developed to transport and manage it in proper place.

LIQUID WASTE MANAGEMENT

Liquid waste is generated from Science laboratories and canteen. Liquid wastes generated by the University are of following types:

1. Laboratory, residential washing and canteen effluent.

The liquid wastes are mainly drained to improve the ground level of water. College do not have any sewage treatment plant yet.

SOLID WASTE MANAGEMENT IN SDDC BIJOLI, JHANSI

Pollution from waste is aesthetically unpleasing and results in large amounts of litter in our communities which can cause health problems. Solid waste can be categorized into three types: biodegradable, non-biodegradable waste. Bio-degradable wastes include food wastes, canteen waste, wastes from toilets etc. Non-biodegradable wastes include plastic, tins and glass bottles etc. Each and every department of Sharda Devi College as well as administrative offices create some waste and dumped in small waste bin located in the department. Each building several dustbins are placed from where housekeeping staffs take the wastes. From the small bin wastes are dumped in big bin by the housekeeping staffs regularly. From the big waste bins the car from Municipal Corporation took the solid wastes.

The wastes are properly stacked in designated place and later disposed through vendors for proper waste management. College promotes digital platform to reduce the usage of paper for communication and sharing documents.





DUSTBIN (REUSE OF OLD PAINT BUCKET)