



MGNCRE

महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद
Mahatma Gandhi National Council of Rural Education
Department of Higher Education Ministry of Education Government of India



Sustainability Index and Green Audit of Higher Education Institutions

Please fill as per the requirements and availability of information seeking the Institution officials.
Fill this proforma and submit the scan copy of filled in proforma to mgncre2022@gmail.com

Institution/College Name: SHRI J.P. ARTS AND SCIENCE COLLEGE
District: BHARUCH
Mobile WhatsApp no: 9429291280

Affiliated to: VNSGU – SURAT (GUJARAT)
State: GUJARAT
E-mail: jayendrapuricollege@yahoo.in

Name of the Head of the Institution: DR. N. M. PATEL
Designation: PRINCIPAL
Mobile WhatsApp no: 9428106650

AISHE Code: C- 616
E-mail: pnitin61@gmail.com

Part A

Total number of Faculty members: 50
Total number of non-teaching staff: 08
Total number of students: 2834
Is your Institution women's college or co-education? : Co-education
Is there hostel facility: Yes
Total number of students residing in the hostels: 29

Part B

BASELINE SUSTAINABILITY INDEX ACTIVITY TO BE DONE FOR SENDING THE APPLICATION

MGNCRE Sustainability Index Proforma

Ministry of Education Government of India Department of Higher Education MGNCRE

Can be filled by the Head of the Institution/Faculty Member/IQAC team

*Required
(Simple calculations are required rounded to accuracy)

1. WATERMANAGEMENT

1) Usage of Water (liter/day) in your institution? _____

HINT: To ensure usage of water the following estimation needs to be considered by the Higher Education Institutions: $i. (\text{No. of Dayscholars} + \text{faculty} + \text{staff}) \times (30 \text{ liters}) + (\text{No. of hostellers} \times 100 \text{ liters}) =$

86,310 Ltr.



N.M. Patel
PRINCIPAL
SHRI JAYENDRAPURI ARTS &
SCIENCE COLLEGE, BHARUCH.

MGNCRE Sustainability Index Proforma

From: Google Forms (forms-responses-noreply@google.com)

To: jayendrapuricollege@yahoo.in

Date: Thursday, 22 December 2022 at 04:49 pm IST

Thanks for filling out MGNCRE Sustainability Index Proforma

Here's what was received:

Thank you!

MGNCRE Sustainability Index Proforma

Ministry of Education Government of India Department of Higher Education MGNCRE
Can be filled by the Head of the Institution/Faculty Member/ QAC team mgncre2022@gmail.com
LM-21 09 2022 JSS

Email *

jayendrapuricollege@yahoo.in

Mahatma Gandhi National Council of Rural Education



महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद
Mahatma Gandhi National Council of Rural Education
(Formerly National Council of Rural Institutes)
Department of Higher Education, Ministry of Education, Government of India



Name of the Institution *



SHRI JAYENDRAPURI ARTS AND SCIENCE COLLEGE, BHARUCH

Address of the Institution *

OLD NATIONAL HIGHWAY, BHARUCH (GUJARAT) BHARAT.

Affiliated to *

VNSGU - SURAT, GUJARAT.

Institution's District *

BHARUCH

State *

GUJARAT

Name of the Principal/Head of Institution *

DR. NITIN M. PATEL (PRINCIPAL)

Contact Number (WhatsApp Number) of the Principal/ Head of the Institution *

9428106650

Email of the Principal/ Head of the Institution *

pntin61@gmail.com



Which of the following Cells are formed under MGNCRE by your institute? *

- MGNCRE SESREC (Social Entrepreneurship Sustainability and Rural Engagement Cell)
- MGNCRE REDC (Rural Entrepreneurship Development Cell)
- MGNCRE VENDEL (Vocational Education Nai Talim and Experiential Learning Cell)
- Yet to be formed

If yet to be formed, the following proformas can be DOWNLOADED for Formation of MGNCRE Cells by your Institute as follows

MGNCRE SESREC (Social Entrepreneurship Swachhta and Rural Engagement Cell) - Can be formed by Higher Educational Institution offering Social Work Course

MGNCRE REDC (Rural Entrepreneurship Development Cell) - Can be formed by BBA/MBA/Management courses offering institution

MGNCRE VENDEL (Vocational Education Nai Talim and Experiential Learning Cell) - Can be formed by B.Ed/M.ED/Education Courses offering Institutions

Please fill the details in downloaded proforma and submit the scan copy of filled in proforma to mgncre2022@gmail.com:

- MGNCRE SESREC - Click this Link and Download Proforma
<https://docs.google.com/document/d/1wvCFYAPH8r0Wah7HDr4KIY8z7pEAM/edit?usp=sharing&oid=109978684647981418772&rtfpof=true&sd=true>
- MGNCRE REDC - Click this Link and Download Proforma
<https://docs.google.com/document/d/1GuElyVKCF3BS0wnDgNk887rjDR27s9Y/edit?usp=sharing&oid=109978684647981418772&rtfpof=true&sc=true>
- MGNCRE VENDEL - Click this Link and Download Proforma
https://docs.google.com/document/d/1C16kZlv-ZGay_yHAKERLdhAQcb2yjosQ/edit?usp=sharing&oid=109978684647981418772&rtfpof=true&sd=true

Did your institution submit Sustainability Index Proforma in 2022? *

- Yes



Which of the following Cells are formed under MGNCRE by your institute? *

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- MGNCRE SESREC - Click this Link and Download Proforma
<https://docs.google.com/document/d/1vviC1YAPH8r0Wam7HDr4KIY8z7pEAM/edit?usp=sharing&ouid=109978684647981418772&rlpof=true&sd=true>
- MGNCRE REDC - Click this Link and Download Proforma
https://docs.google.com/document/d/1GuEjYvKCF3_BS0wnDgNk887jDR27s9Y/edit?usp=sharing&ouid=109978684647981418772&rlpof=true&sd=true
- MGNCRE VENDEL - Click this Link and Download Proforma
https://docs.google.com/document/d/1C16kZlv-ZGay_ytIAKERLchAQcb2yjosQ/edit?usp=sharing&ouid=109978684647981418772&rlpof=true&sd=true

Did your institution submit Sustainability Index Proforma in 2022? *

- Yes



Yet to be submitted

If yet to be submitted, Please follow the below steps

1. Please click, download and take print out of the Sustainability Index proforma (For Hard Copy purpose)
2. Fill the details in hard copy as per the proforma
3. Fill the same details using this google form and submit. *

MGNCRE Sustainability Index Proforma - Click and Download
https://docs.google.com/document/d/12ofCxp-msDbtYh_fuX2GSYq3KR9AMfca/edit?usp=sharing&ouid=109978684647981418772&rtoref=true&sd=true

WATER MANAGEMENT

1) Usage of Water (liter / day) in your institution? _____

HINT: To ensure Usage of water the following quantification needs to be considered by the Higher Education Institutions: i. (No. of Day scholars+ faculty+ staff) X (30 liters) + (No. of hostellers X 100 liters) = *

86,310 liter

EXAMPLE Usage of water by us



To ensure Usage of water in the institution the following quantification needs to be considered by the Higher Education Institutions:
(No. of day scholars+ faculty+ staff) X (30 litres) + (No. of hostellers X 100 litres)

Example 1:

Total number of day scholar students 1200

Total number of Faculty 45

Total number of Staff 15

Usage of water in the institution= (1200+45+15) X 30 litres

= (1260) X 30 litres

= 37800 litres

(No Hostel)

Example 2:

Total number of day scholar students 2100

Total number of Faculty 50

Total number of Staff 25

Usage of water in the institution= (2100+50+25) X 30 litres

= (2175) X 30 litres

= 65250 litres

Total number of students in hostels 700

So, 700 X 100 litres= 70,000 litres

Total Usage of water in the institution is 65250+70000 = 1,35,250 litres

2) Water Availability for usage (liter / day)? _____ (HINT: Please observe the above response for water usage and comment accordingly with reference to the present situation of the institution's location and sources of water)

97,000 liter/day.

EXAMPLE Water Availability for usage (liter / day)? Examples



Water Availability for usage (liter / day)?

Consider number of water tanks available on the campus, tank capacity and number of times the tanks are filled per day.

Example 1:

Total number of 10,000 litre tanks available = 4

Number of times the tanks are filled per day = 2 times

So, water made available is $10000 \times 4 \times 2 = \underline{80000 \text{ litres}}$

Example 2:

Total number of 10,000 litre tanks available = 2

Total number of 5000 litre tanks available = 3

Number of times the tanks are filled per day = 1 time

So, water made available is $[(10000 \times 2) + (5000 \times 3)] \times (1)$

= $[(20000) + (15000)] \times (1)$

= $[35000] \times (1)$

= 35000 litres water is made available

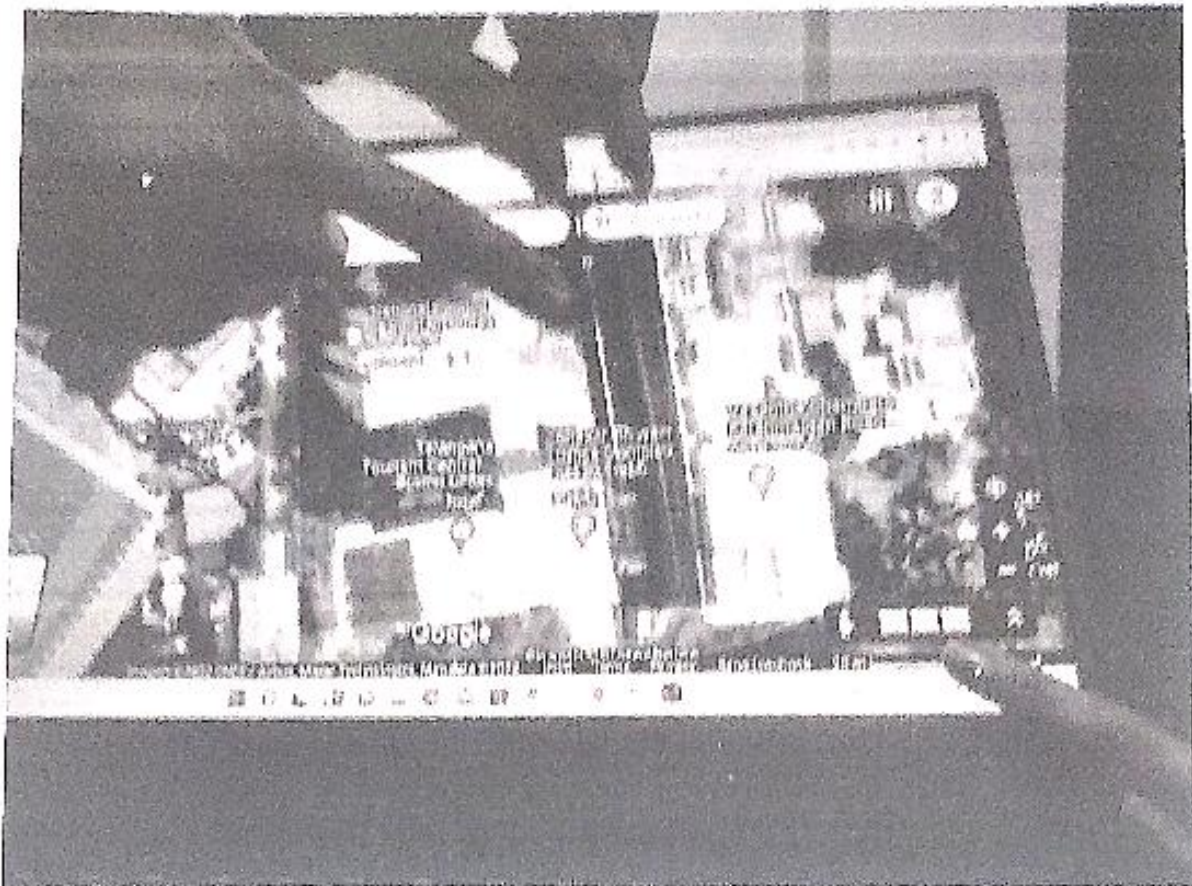
3) Rainwater Harvesting on campus (liter / Season)? _____ Example and calculation is given below

2,04,705 liter/day

EXAMPLE Rainwater Harvesting on campus (liter / Season)? _____

Example and calculation is given below





4) Recycling of water from sewage treatment plant (liter / day) ?
= _____ if applicable ... otherwise mention not applicable

N.A.

5) Water Sources Audit ? Utilize Swachh Campus Manual *

Done

Not yet done

SOLAR ENERGY AND ENERGY CONSERVATION
a part of installation of renewable energy project (Yes /No) *

1) Are you

Yes

No



2) Are you taking any remarkable action for Energy Conservation (Yes /No) *

Yes

No

3) Requirement of energy (in Kilowatt or Units / month)? 1 Unit = 1 kWh

4460 KWH/MONTH

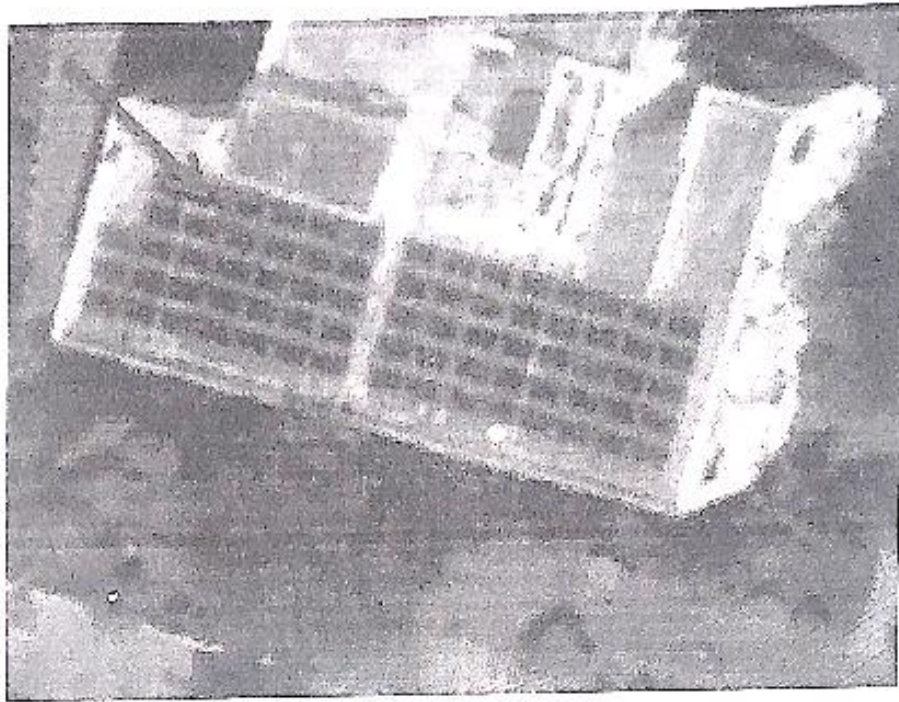
4) Energy generated via solar (in Kilowatt / month)? if Applicable (HINT: 3 solar panels will generate 4 KWH per day of electricity on a sunny day or 4 Units) *

2920 KWH/MONTH.

EXAMPLE Energy Generated per month



Energy generated via solar (in Kilowatt / month)



Count the number of panels on your college with help of satellite picture from Google map. 3 panels will generate 4 KWH per day electricity (on a sunny day)

Example: Total 78 panels are there in the picture given above

Energy generated via solar (in Kilowatt / month) =

(Number of panels divided by 3) X (4 KWH) X (30 days)

= (78 divided by 3) X 4 X 30

= 26 X 4 X 30

= 3120 KWH

5) % Energy needs met by Solar Energy? Example is given below

65.17 %

EXAMPLE for % Energy needs met by Solar Energy



% Energy needs met by Solar Energy =

Energy generated via solar (in Kilowatt / month) X 100

Requirement of energy (in Kilowatt/ month)

/

Energy generated via solar (in Kilowatt / month) = 1500

Requirement of energy (in Kilowatt/ month) = 4000

$$\% \text{ Energy needs met by Solar Energy} = \frac{1500 \times 100}{4000} = 37.5$$

GREENERY MANAGEMENT

1) Area under green cover (in sq ft or Sq mts or in acre)?

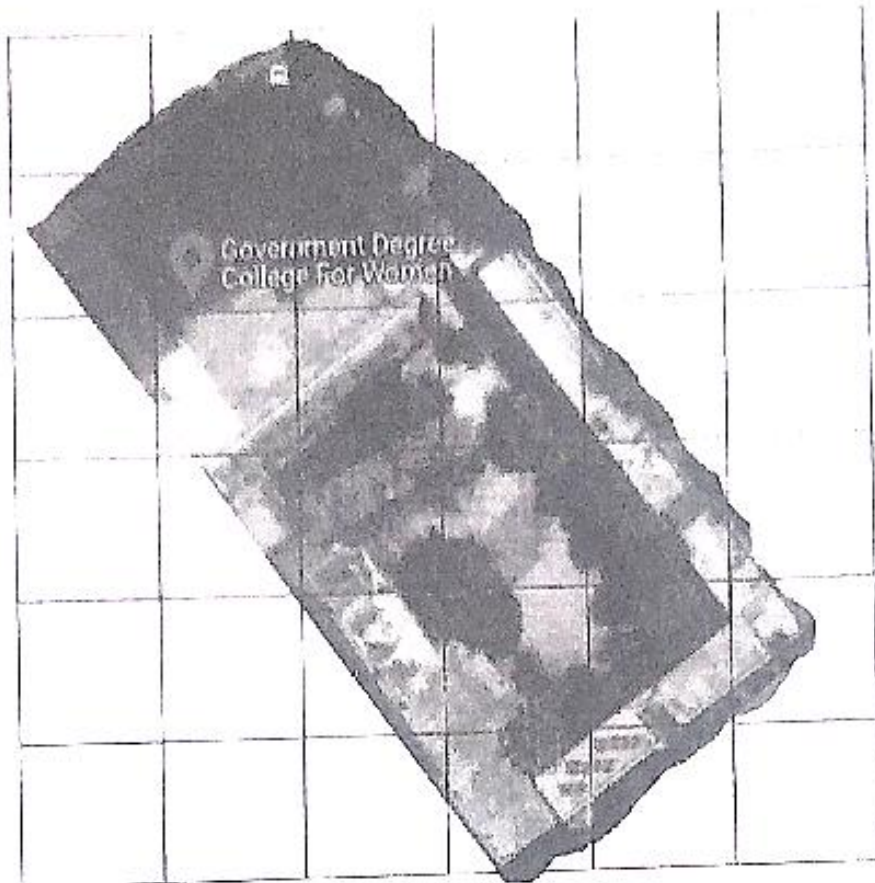
HINT:

Green area includes any area which has grass cover, tree cover and horticulture.

1,14,505.00 M

Area under green cover in Sq. mts? EXAMPLE





20 m

With the help of the above example find out by looking at the satellite view of your college and estimate approximately the area under green cover and percentage of greenery

Example: Government Degree College for Women is green cover approximately 30%

Total campus area is= 140 m X 120 m= **16800 m²**

Total Green Area = (Total campus Area X 30) divided by 100

- (16800 m² X 30) divided by 100

- 504,000 m² divided by 100

= **5040 m²** is the Extent of Green Area

2) Availability of Nursery on Campus? (Yes / No) *

Yes

No

3) Plant Protection Management availability?

(Yes / No)

HINT:

There is a need for managing the protection of plants on the campus on a continuous basis. *

Yes



No

4) Number of plants/trees planted in the year 2021-22? *

40

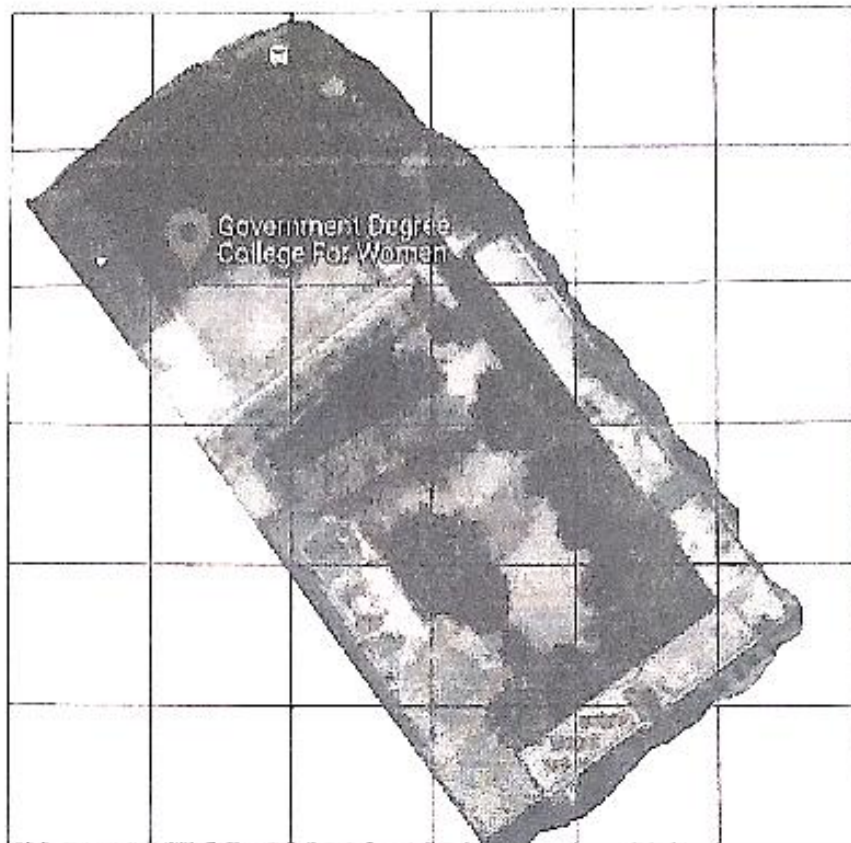
5) Extent of area (% of area) under tree cover? _____

[Usually 33% is better condition] *

85 %

Same EXAMPLE for the extent of green area in percentage





20 m

With the help of the above example find out by looking at the satellite view of your college and estimate approximately the area under green cover and percentage of greenery

Example: Government Degree College for Women is green cover approximately 30%

Total campus area is= 140 m X 120 m= 16800 m²

Total Green Area = (Total campus Area X 30) divided by 100

= (16800 m² X 30) divided by 100

= 504,000 m² divided by 100

= 5040 m² is the Extent of Green Area

WASTE MANAGEMENT

1) Collection of Solid Waste (kg/day)? _____

EXAMPLE is given below *

143.85 K.G./DAY

EXAMPLE Collection of Waste per day



Hint: Usually waste per person per day generated ideally for a day scholar is in the range of 50 grams to 150 grams. Usually waste per person per day generated ideally for a hosteller is 200 grams to 350 grams.

Example 1:

Total number of day scholar students 1200

Total number of Faculty 45

Total number of Staff 15

Collection of Solid Waste (kg/day) = $(1200+45+15) \times 50$ gram

= $(1260) \times 50$ grams

= 63000 grams

= 63000 divided by 1000

= 63 Kg /day

(No Hostel)

Example 2:

Total number of day scholar students 2100

Total number of Faculty 50

Total number of Staff 25

Collection of Solid Waste (kg/day) = $(2100+50+25) \times 50$ gram

= $(2175) \times 50$ gram

= 108750 gram

= 108750 divided by 1000

= 108.50 Kg /day

Total number of students in hostels 700

So, Collection of Solid Waste (kg/day) in hostel = 700×200 gram = 140000 gram

= 140000 divided by 1000

= 140 Kg /day

Total Collection of Solid Waste (kg/day) is $108.50 + 140 = 248.5$ Kg/ day

Understanding Waste Generation and Segregation EXAMPLE Picture



Segregation is important!





2) Is segregation of Solid Waste done in the Institute? If yes approx. How many kg of waste is segregated per day?

50 KG/DAY

3) Approx. how much of solid waste is recycled every day (Kg/day)? *

N.A.

4) Approx. how much of solid waste is disposed (kg/day)? (collected by garbage collectors) *

50 KG/ DAY

Waste Disposed Every day





5) Bio Medical Waste management. *

- Yes
- No
- Not applicable

6) Availability of functional drainage system? *

- Yes
- No

LAND USE MANAGEMENT for Sustainability or Swachhta activities

1) Total land (area in Acre) or Sq Meter? *

40 ACRE

2) Constructed area (Approximately in Sq meters) ?Hint: Utilize the Google Map picture of your college



3872.910 Sq. M.

3) Total proposed area for development / Open area (Approximately in Sq meters)? Hint. Utilize the Google Map picture of your college? *

1.14,505.00 Sq. M.

4) Total proposed area for greenery and environmental services including water harvesting and composting (approximately in Sq. meters or Sq Yards or in acre)? *

85 %

5) Whether there is a Land use management plan available for the campus (Yes / No)? *

- Yes
- No
- Not applicable

Please mention Special Environmental features of your Educational Institution /College/University EXAMPLE is given below *

All water system is connected with Ro plant, water for drinking, with whole campus and 30% of RO rejected water is use for flushing, we decomposing garden west convert it into the manure. The excessive compost is use in our large campus garden. No. of water harvesting Pit. is 1. 85 % of total campus comprises of green cover herbs, shrubs and tree. 50 % of campus is equipped with LED for saving energy. We adopted SHAHPURA village of dist. Bharuch. approximately 70 - 100 families are covered by the efforts of the college.

Special Environmental features of your Educational Institution /College/University EXAMPLE is given below



- All water supply system is connected with RO water for drinking in whole campus and 100% of RO rejected water is used for flushing.
- Maximum possible usage of machines like Chapati Machine, Boiler, Tilting Pan, High Pressure Cooking Ranges, wet & Dry Grinders etc in the hostel kitchens
- Compost Machines' Capacity" 250 kg/day, decomposing garden & kitchen waste, converts it into manure. The food & green waste are used for composting. The excessive compost is given to nearby villages: Lokra, Sidhrwall & Kapriwas etc for the use as a part of CSR activity.
- Number of rain water harvesting pits is 22 for maintaining ground water level.
- 700 KLD STP for treating kitchen & toilet waste, entire campus water is treated having zero discharge outside.
- 84% of total campus comprises of green cover, trees, shrubs etc.
- Solar Cell-Grid connected photovoltaic power system of 246 KW capacity
- Whole campus area is equipped with LED lighting for saving energy.
- Approximately 150-200 families are covered by the efforts of the University
- The student club "Savera" is conducting educational programs with over 100 students of village.

YOUR NAME *

DR. Nitin M. Patel

Your Designation *

Principal,

Mobile preferably Whats App *

9428106650

Your Email *

pnitin61@gmail.com

Any remarks -contact 7660802102 Team MGNCRE *



Very useful

PINCODE of the Institution *

302001

Create your own Google Form
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