

Janata Shikshan Sangha's

SHREE TAMMANNAPPA CHIKKODI

**ARTS, COMMERCE, BBA, BCA, BSC College & PG and Research Center,
BANHATTI.**

(Affiliated to Rani Channamma University, Belagavi)

Tal: Rabakavi-Banahatti

Karnataka

Dist: Bagalkot

Re-Accredited by NAAC at "B++" CGPA 2.81

GREEN AUDIT

2020-21



Janata Shikshan Sangha's
SHREE TAMMANNAPPA CHIKKODI
ARTS, COMMERCE, BBA, BCA, BSC & PG COLLEGE, BANHATTI.

CRITERION- VII

INTRODUCTION TO GREEN AUDIT

Green Audit Report

I) Introduction:

The environmental issue has become a world-wide concern in the last decades being the focus of discussions in a variety of forums both at national and international levels. Accordingly, carrying out environmental audits in addition to the usual official audits has become mandatory. The audits will be carried out on any of the environmental issues facing the country and world at large (including e-waste management, water and air pollution, biodiversity loss, land degradation or impaired ecosystems).

Waste not managed properly affects not only human health but the other aspects of the environment like water, air and biological diversity.

The purpose of this management report/environmental audit report was therefore to make known the findings of the audit regarding the handling, storage and proper disposal.

College and Universities have broad impacts on the world around them, both negative and positive. The activities pursued by colleges can create a variety of adverse environmental impacts. But colleges are also in a unique position as educational institutions to be leaders in pursuing environmentally

sustainable solutions. Our college express its commitment to sustainability in many ways. It has taken a number of positive steps to reduce its environmental impact. But many areas remain in which substantial improvements can be made. The college conducts the Green Audit and strives to maintain eco friendly atmosphere on the campus.

II) Location Details:

Our college is located in Rabakavi-Banahatti Taluka. which is connected by all weather roads and connected to many cities . which are on State highway No-12

The details of weather of Banahatti are as under.

- * Latitude is 16.4823° N,
- * Longitude is 75.1224° E
- * Weather Chart of Banahatti referred in weather chart.
- * Zone – BSh
- *Average Temperature – 29.8 Centigrade.
- * Banahatti is an industrial area.
- * Average Humidity is 40% to 45% as per AIR VEDA Device
- * PM-2.5 - 30 to 35 which is < 50 as per ISI standards.
- * PM 10 – Around 60 which is < 100 as per ISI standards.
- * DB level is around 40 to 60 which is < 80 dB as per ISI standards.
- * Average rainfall is 300mm to 400mm.
- * Area under Greenery –

To maintain eco-friendly ambience, the following measures are under taken :

- Reuse, Reduce and Recycle (3Rs)
- Go Green and Grow Green
- Water conservation and proper harvesting

- Use of LED bulbs instead of florescent bulbs
- Use of Generator as substitute for electricity
- Say No to Plastic
- Carbon dioxide neutrality is maintained on the campus by developing greenery
- Energy Sensitization such as turning off lights/fans /monitors after the work.
- Topics such as Global warming, bio-diversity and pollution are incorporated in the curriculum.

Our management is very supportive and conscious about the environmental issues. They have taken additional interest in constituting college level Eco-club and conducting Green Audit by inviting the Experts Team which comprises of Dr. B. V. Bavache, Rtd Prof in Physic , RL Science institute Belagum (Advisor Green Audit Team). Shri Suresh Teli , Assistant Conservator Forests Department of Forest, Jamkhandi (Member). Shri S C Changri , SRA PU College, Banahatti (Member)

The initiatives taken by the college to make the campus Eco-friendly-

- Energy Conservation
- Rain water harvesting
- Efforts for Carbon neutrality
- Plantation
- E-waste Management
- Protecting plant wealth
- Caring of Rare plants.

CRITERIA – VII

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Eco-Club of the College

1. Dr. G. R. Junnaykar - Principal/President
2. Dr. B.B.Bavache - Retd Prof of Physics, KLE's R.L
Science Institute, Belagavi.
3. Dr. M.N. Bennur - IQAC Co-ordinator
4. Shri. Shri Suresh Teli - Assistant Conservator,
Forests Department of Forest
Jamkhandi
5. Dr. M.N. Shirahatti - N.S.S. Officer
6. Shri. S C Changri - SRA PU College
Banahatti
7. Dr. R. S. Gajakosh - Female Scouts and Guides Officer.
8. Shri V. Y. Patil - Male Scouts and Guides Officer.

GREEN AUDIT REPORT

Observations:

1. C.C. TV surveillance
2. Computer Lab is provided with Server unit.
3. Spacious and well equipped Labs
4. Separate Store Room for Office, NSS, NCC, Sports, etc.
5. Pigeon holes in the staff room

Best Practices

1. NSS Office is built out of Voluntary Contributions made by NSS Volunteers.
2. Vehicle Parking Shed for staff.
3. Vehicle Parking Shed for Students is built out of contributions made by NSS volunteers.
4. The open area meant for common prayer has teak and almond trees.

Suggestions/Recommendations

1. Number of rare plants and sacred plants may be increased.
2. Rain water harvesting methods may be installed.
3. Green manicured lawns may be extended.
4. Exhaust fans to be installed in sanitary rooms.
5. Arrangements for anti-chamber in ladies' room.
6. 24x7 Ladies' Counselor post be appointed
7. Mobile jammers to be installed
8. Noise arrestors in Indoor Sports complex to be installed.

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Janata Shikshan Sangha's
SHREE TAMMANNAPPA CHIKKODI
ARTS, COMMERCE, BBA, BCA, BSC & PG COLLEGE, BANHATTI.
ಶ್ರೀ ತಮ್ಮಣ್ಣ ಚಿಕ್ಕೋಡಿ ಶಾಲಾ, ವಾಣಿಜ್ಯ, ಬಿಬಿಎ, ಬಿಬಿಎ, ಬಿಬಿಎ, ಮತ್ತು ಸ್ನಾತಕೋತ್ತರ ಪದವಿ ಪುಸ್ತಕಾಲಯ, ಬೆಂಗಳೂರು
(Affiliated to Rani Channamma University, Belagavi)
Tal: Rabakavi-Banahatti Karnataka Dist: Bagalkot
Re-Accredited by NAAC at "B++" CGPA 2.81

Ref: STC/2020-21/

Date:

Green Audit Team

S.I No	Name of the Member	Position	Sign
01	Dr. B. B. Bavache Rtd Prof in Physic RL Science institute Belagum	Advisor Green Audit Team	
02	Shri Suresh Teli Assistant Conservator of Forests Department of Forest Jamkhandi	Member	 Assistant Conservator of Forests Jamkhandi Sub-Div. Jamkhandi
03	Shri S C Changleri Lecturer, Department of Botany SRA PU College Banahatti	Member	



PRINCIPAL
STC Arts & Commerce College
BANHATTI-587 311

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**GREEN AUDIT
QUESTIONERY**

Section – I
General Information

- Name and Address of the College with contact numbers

**Janata Shikshan Sangha's
SHREE
TAMMANNAPPA
CHIKKODI
ARTS, COMMERCE,
BBA, BCA, BSC College
& PG and Research
Center, BANHATTI.**

- Area of the Campus (acres)

6 Acres
(24281.1 Sq. mtrs.)

- Building area (in Sq.m)

4112 Sq. mtrs.

- Area already under Green covers (in Sq.m)

2579.12 Sq. mtrs.

- Area of Gardens (in Sq. mtrs.)

1440.16 Sq. mtrs.

- Number of trees in the campus

126

- Number of fruit bearing trees in the campus

5

- Number of medicinal plants

10

- Number of sacred plants

4

- Number of rare/endangered plants

03

- Number of shade houses 01
- Number of vermin compost units 01
- Is there any Eco-club/Green club? Yes
- Are there any plant nurseries? If yes, what is the number of units NO

Section- II

1. Energy Conservation :

What are the steps taken by the college to conserve energy?

- * Use of CFL bulbs Yes No
- * Use of LED bulbs Yes No
- * Use of energy efficient tube lights Yes No
- * Use of energy efficient fans Yes No

- * Is there Thin Client Technology in the computer lab. to save electricity? Yes No

2. Use of diesel :

- * Number of generators and capacity 15 KWH
Yes No
- * Is maintenance and service of generator regular? Yes No
- * Who maintains generator?
By a technician appointed by College Yes No
- * Is there a technician to do the job of maintenance? Yes No

* Steps to minimize dependence upon Generators

1. Manual observation

* Cost of diesel consumption per year during

Year	Cost of diesel
2020-21	Rs. 3000/-

3. L.P.G. in Canteen :

* What steps are taken to minimize the wastage of gas due to short term leakage?

Yes No

Use of Gas Safety Device

Installation of Net Burner to stoves

* Use of Gas lighter

Yes No

• L.P.G. in Laboratory :

• What steps are taken to minimize the use of L.P.G?

• Use of Gas Safety Device

* Is there any fire extinguishing arrangement made in laboratories?

Yes No

5. Water harvesting :

• Sources of water needed in the campus

1. Bore wells

2. Public water supply

• Are there any water saving techniques followed in the Manual ?

• Is there any water harvesting facility?

Yes No

• If yes, what are the methods of rain water harvesting?

1. Rain water is channelized properly near the bore well

• List the ways that could reduce the amount of water used in the campus

1. Spring action taps

2. Use of sprinklers for Lawn.

6. Efforts for Carbon neutrality :

- Steps taken to reduce emission of CO₂

- * Minimum use of generators Yes No
- * Minimization of parking vehicles in the campus Yes No
- * Mandatory Carbon emission test for vehicles of staff/students Yes No
- * Using Common transport facility by the staff and students Yes No
- * Regular plantation Yes No

7. Plantations :

- * Give a list of trees/plants using their botanical names. (scientific names) A Separate list is enclosed (annexure) (126 Plants)*
- * What are the efforts made to go organic? By using vermin compost Yes No
- * What is the quantity of compost used in the garden Whatever vermin compost produced is used in the garden

8. Waste Management :

9. Hazardous waste management

- * Do you use hazardous chemicals for Academic Purpose? No
If yes, Name them

Hazardous chemicals are not used.

- * How do you dispose of the used hazardous chemicals for academic purposes?

NA

- * Do you reuse hazardous chemicals for academic purposes?

NA

- * What are the precautions taken while using hazardous chemicals for academic purposes?

NA

- * What are the precautions taken in storage of the hazardous chemicals?

NA

Is there any bath room with shower in Chemistry Department.

Yes

- * What are the precautions taken in storage of the hazardous chemicals?

NA

Do you have any non usable chemicals? If yes, what do you

- * intend to do with them?

1. Chemicals are purchased as per the needs only.

- * What are the steps taken to prevent chemical accidents?

1. Students use aprons

2. Hand gloves are used while opening of new chemical bottles

Provision for bath room (with a shower) is made very nearby chemistry Department

- * Is there any first aid facility?

First aid boxes are provided in critical locations

- * Is there any fire extinguishing arrangement in the labs?

Fire extinguishers are provided in critical locations.

- * If yes, give details?

1. Library

2. Chemistry lab

3. Physics lab

- 4. Administration Office
- 5. Computer lab
- 6. Canteen
- 7. staff Room

e-waste management :

* What are the measures taken for the scientific disposal of e-waste or Reutilization of e-waste?

- 1. Agreements are made with venders during the purchase of new computers to buy-back out dated irreparable computers

Effluent management :

* Domestic effluent management

Is it treated

Let off directly

Reused for gardening

Discharged into drains

*
√

Plastic waste management :

* Have you banned the use of plastic bags in the campus? Yes No
 Plastic bags less than 40 micron are banned.

Solid waste disposal or Management :

How solid waste is disposed?

Solid waste is handed over to Panchayat waste collectors

10. Pollution :

* **Noise pollution**

* What are the steps taken to reduce noise pollution to tolerance limits?

- 1. Sound Level tests(decibel measurement) are done in the campus at prime locations in the campus
- 2. By plantation along the compound border

* Is there ban on the use of Dolby sound system? Yes No

* Is there any silence zone in your campus?

Yes No

* **Air Pollution :**

* What are the efforts made to minimize air pollution ?

1. By Planting more number of trees every year
2. Quality of air is tested All the parameters are within the safe limits

10. Are there drinking water purifying plants?

Yes No

If yes, purifiers are RO or simple systems

RO Non RO



CRITERIA – VII

**GREEN STRETCH –
LAWN OF THE
CAMPUS**

SMAT's
SHIVANAND COLLEGE, BANAHATTI
NUMBER OF TREES IN COLLEGE CAMPUS

Sl. No	Common Name	Botanical Name	No. of Trees
1	Ashoka Tree	Saraca-indica	10
2	Teak Trees	Tectona-grandis	41
3	Coconut Trees	Cocus-nucifera	22
4	Almond Trees	Terminalia-catappa	09
5	Gowri Plants	Impatiens- balsameva	07
6	Atti Gida	Ficus -racemosa	03
7	Tamrinda Tree	Tamrindus -Indica	02
8	Kadulimb Tree	Murraya -Koenigii	04
9	Niligiri Tree	Eucalyptus-globulus- Labill	01
10	Kavate Tree	Zanthoxylum-rhesta	01
11	Peru Tree	Psidium-guajava	03
12	Pipari Tree	Long-Peppar	01
13	Jambos Trees	Syzygium-jambos	01
14	Lemon tree	Cituslimon -Burn	04
15	Mango plant	Margifero-indica	02
16	Awla or Amla	Phyllanthus-Emblica	02
17	Sacred Plants	Flowering Plants	15
		Leaf-using plants	06
18	Ber	Zizipers-mauritiana	01
Total Number of Trees			237

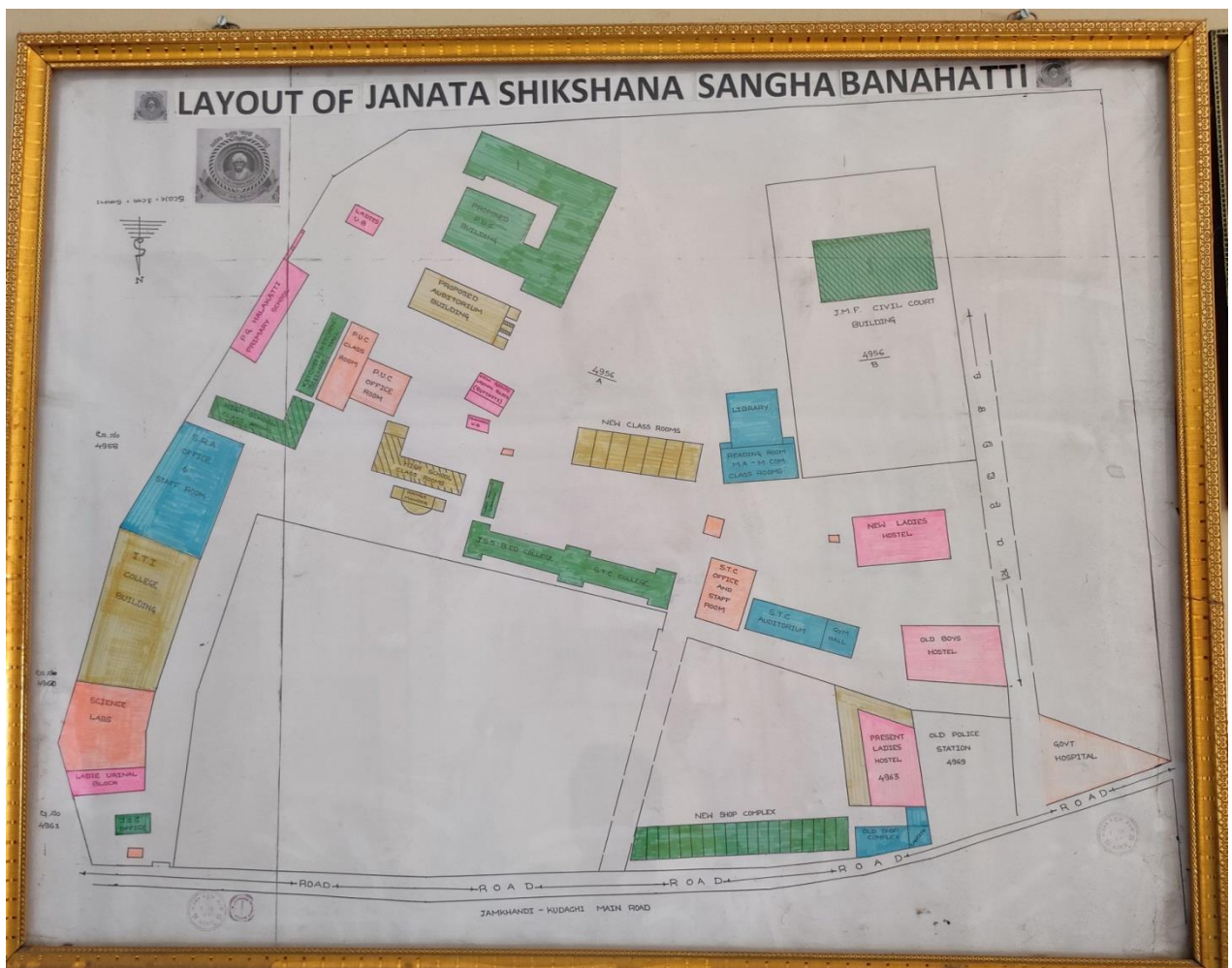
RARE PLANTS IN IN COLLEGE CAMPUS

Sl.No.	Common Name	Botanical Name	Picture
1	Guggal	Commiphora wightii Bhan	
2	Sweet Leaf	Stevia rebaudiana Bertoni	

3	Malabar nut	Justicia adathoda	
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CRITERIA - VII

COLLEGE MAP



Air Quality Index (AQI)



The AQI is divided into six categories:

Air Quality Index (AQI) Values	Levels of Health Concern	Colors	Meaning
0 to 50	Good	Green	Air quality is considered satisfactory, and air pollution poses little or no risk.
51 to 100	Moderate	Yellow	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
101 to 150	Unhealthy for Sensitive Groups	Orange	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
151 to 200	Unhealthy	Red	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
201 to 300	Very Unhealthy	Purple	Health alert: everyone may experience more serious health effects.

WHAT THE COLOR OF YOUR URINE SAYS ABOUT YOUR HEALTH:



TRANSPARENT

Sign of overhydration. A person has been drinking a little too much water.



BROWNISH ORANGE

Sign of dehydration or a possible sign of liver disease.



PALE YELLOW

Means a person is healthy and hydrated.



PINKISH RED

Possibly a sign of kidney disease, UTI or tumor.



TRANSPARENT YELLOW

Normal.



BLUE OR GREEN

Sign of a rare genetic disease.



DARK YELLOW

Normal but needs to drink more water.



FOAMY

Sign of kidney disease.

Source: Salamat Dok

[f](#) ABSCBNNews [t](#) ABSCBNNews [i](#) abscbnnews

PHOTOS

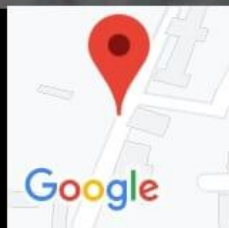


Unnamed Road, Rabkavi
Banhatti, Karnataka 587311,
India

10 Mar 2022 12:00 pm

scattered
clouds

33.0 °C

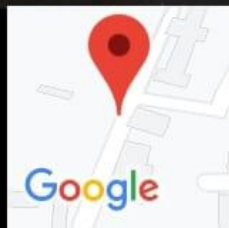


F4GF+VPH, Rabkavi Banhatti,
Karnataka 587311, India

10 Mar 2022 12:14 pm

scattered
clouds

33.0 °C



F4GF+VPH, Rabkavi Banhatti,
Karnataka 587311, India

10 Mar 2022 12:14 pm


scattered
clouds

33.0 °C

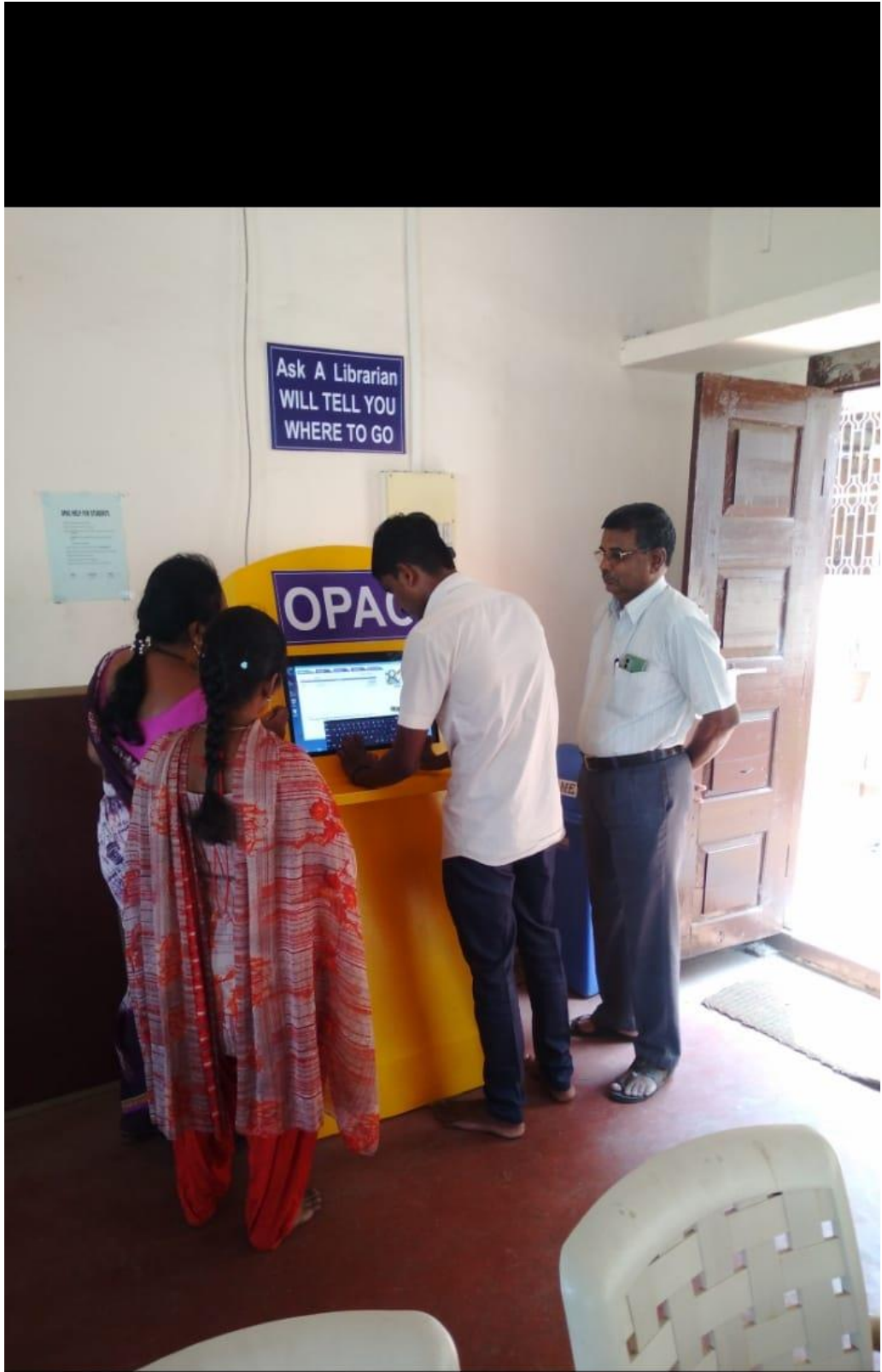


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Banhatti, Karnataka 587311,
India

scattered
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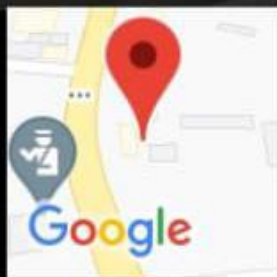
Unnamed Road, Rabkavi
Banhatti, Karnataka 587311,
India

10 Mar 2022 12:00 pm

scattered
clouds

33.0 °C

LED Bulbs



F4HF+6HF, Rabkavi Banhatti,
Karnataka 587311, India

09 Dec 2021 09:26 am

 broken
clouds
24.0 °C

Solar Water heaters in Hostels



F4HF+6HF, Rabkavi Banhatti,
Karnataka 587311, India

09 Dec 2021 08:55 am

broken
clouds
23.0 °C

Solid Waste Management



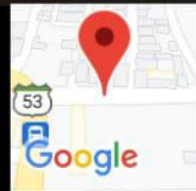
Bore well



Rain water harvesting Pit



Ban on use of plastic

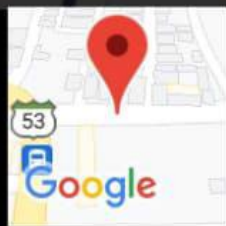


F4HJ+98X, Rabkavi Banhatti,
Karnataka 587311, India

02 Dec 2021 11:41 am

broken
clouds

25.0 °C



F4HJ+98X, Rabkavi Banhatti,
Karnataka 587311, India

02 Dec 2021 11:41 am

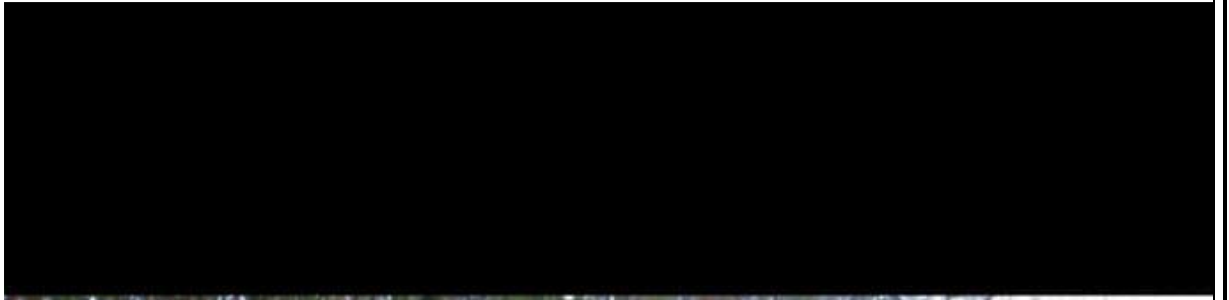
broken
clouds

25.0 °C

Pedestrian-friendly pathways




 F4HJ+98X, Rabkavi Banhatti, Karnataka 587311, India
02 Dec 2021 11:41 am
broken clouds
25.0 °C



Landscaping






F4HG+82V, Rabkavi Banhatti,
Karnataka 587311, India
29 Dec 2021 07:35 am
clear sky
18.0 °C





F4HF+74G, Rabkavi Banhatti,
Karnataka 587311, India
13 Jan 2022 10:13 am
overcast
clouds
22.0 °C