

# J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

Affiliated to Karnatak University, Dharwad

Accredited with 'A' Grade in last three cycles



## Fourth Cycle NAAC Accreditation SELF STUDY REPORT (SSR)

### CRITERION - VII

#### 7.1.3 (QIM)

Describe the facilities in the Institution  
for the management of the following types of  
degradable and non-degradable waste



Submitted to  
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BENGALURU



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## Solid waste management

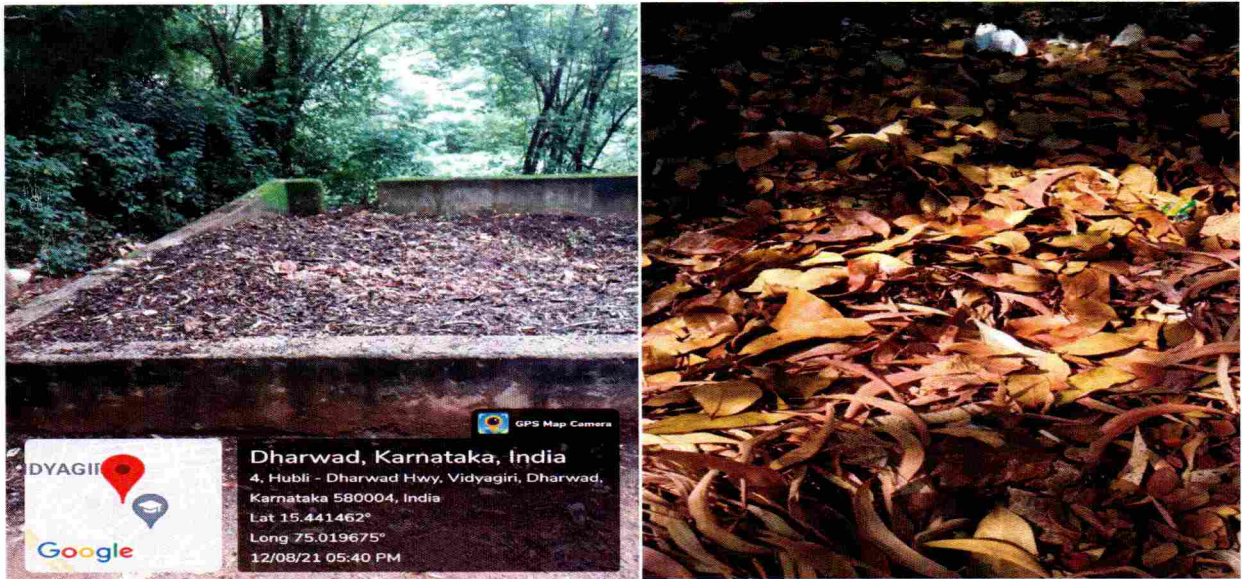


### Solid Waste Management System:

- In our institution the system includes a standing operating procedure in a laboratory informed to the laboratory assistants for the management of solid waste materials in their laboratories.
- The institute has compost pits in the backyard of the college.
- The compost is prepared from grass and dry leaves of plants and the same is utilized formaintenance of college garden.

### Waste Management System:

#### Litter waste management- dumping of leaf litter in separate pit for biodegradation



### Paper Waste Management



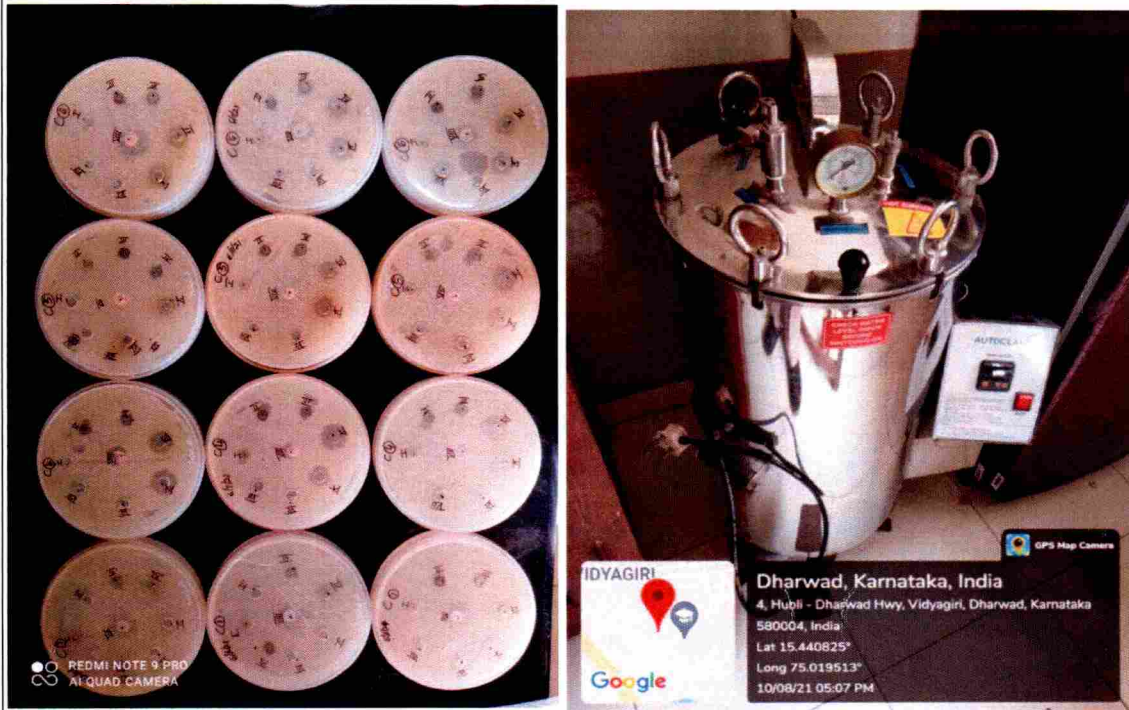
*M. S. D. S.*  
PRINCIPAL  
J.S.S. Banashankari Arts, Commerce &  
Shantikumar Gubbi Science College,  
DHARWAD-580 004



**PHOTOS SHOWING THE DUSTBINS INSTALLED IN THE JSS CAMPUS**



**Cultures are autoclaved and disposed in Biotech Laboratory**



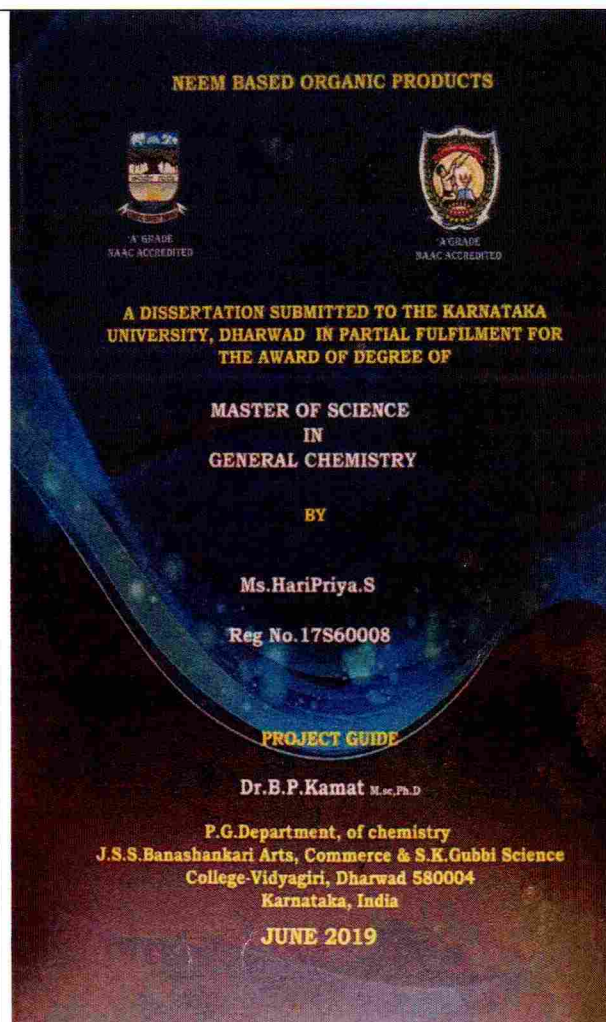
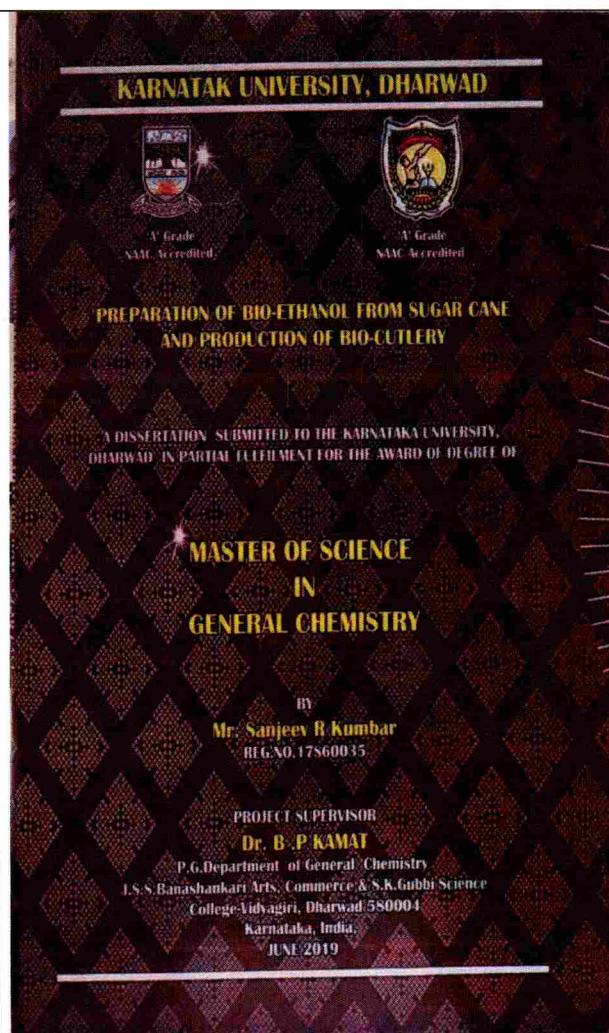
*Mandit*  
PRINCIPAL  
J.S.S. Banashankari Arts, Commerce &  
Shantikumar Gubbi Science College.  
DHARWAD-580 094.



### Management of non biodegradable waste

PG Department of Chemistry has taken a step to care of non biodegradable waste like plastic, cigarette buds which are environment hazardous. So plastic waste found in the campus have been collected by the Students of PG Chemistry and made best use of it by recycling process. PG students also did projects on Synthesis of Petrol, Synthesis of Bio cutlery and bio ethanol, Synthesis of insecticide from tobacco buds, Neem products and analysis of milk.

### PROJECTS ON SYNTHESIS OF PETROL, SYNTHESIS OF BIO CUTLERY AND BIO ETHANOL FROM SUGAR CANE, NEEM BASED ORGANIC PRODUCTS.




*M. Mandit*  
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**PROJECTS ON BIOPLASTICS AND ITS APPLICATIONS & SYNTHESIS OF GRAPHENE OXIDE AND FUELS FROM WASTE PLASTICS BY PYROLYSIS METHOD.**

**Preparation of Bioplastics and its Applications & Synthesis of Graphene Oxide**



A GRADUATE  
NAAC ACCREDITED

A GRADUATE  
NAAC ACCREDITED

A DISSERTATION SUBMITTED TO THE KARNATAK UNIVERSITY, DHARWAD IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF


**MASTER OF SCIENCE  
IN  
GENERAL CHEMISTRY**  
BY  
**Ms. SUSHMA.N.K.**  
Reg.No:17S60041

**PROJECT SUPERVISOR**  
**Dr. B. P. KAMATH** M.Sc., Ph.D.

P.G. Department of General Chemistry  
J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science  
College- Vidyagiri, Dharwad 580004  
Karnataka, India

**JUNE 2019**

**FUELS FROM WASTE PLASTICS BY PYROLYSIS METHOD: AN ALTERNATE FOR FOSSIL FUELS**



Re-accredited by NAAC 'A' Grade  
University with Research for Leadership

NAAC Accredited 'A' Grade

A DISSERTATION SUBMITTED TO THE KARNATAK UNIVERSITY, DHARWAD IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF


**Master of Science  
in  
General Chemistry**

**SUBMITTED BY**  
**Ms. Rashmi G. Shirol**  
Reg.No.16S60071

**Project Supervisor**  
**Dr. B. P. Kamat** M.Sc., Ph.D.

**Department of General Chemistry**  
J.S.S. Banashankari Arts, Commerce and S.K. Gubbi Science  
College, Vidyagiri Dharwad-580 004  
Karnataka, India  
**JUNE-2018**

**A BRIEF STUDY ON ANALYSIS OF DIFFERENT SAMPLES OF MILK**



A DISSERTATION SUBMITTED TO THE KARNATAK UNIVERSITY, DHARWAD IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

**Master of Science  
In  
General Chemistry**

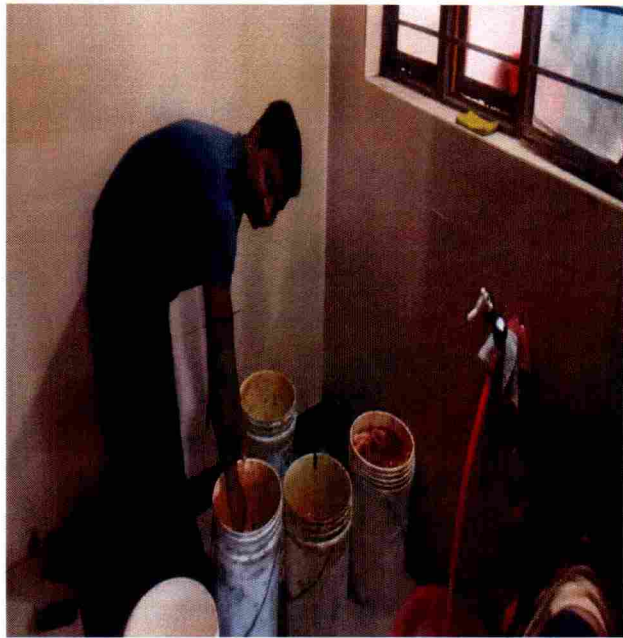
Submitted by  
**Ms. Madhumati C Kusugal**  
REG NO: 15S60020

Submitted through  
**Dr. Ajith Prasad**  
Principal  
P. G. Department of Chemistry  
J.S.S. Banashankari Arts, Commerce & S. K. Gubbi Science  
College Vidyagiri, Dharwad 580004 Karnataka, India.

**JUNE-2017**



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**EXCESS FOOD BEING DELIVERED TO THE NEEDY PEOPLE AROUND THE CAMPUS AREA.**

**SPILLAGE AND PLATE WASTE BEING DONATED TO DAIRY FARMERS.**



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## Liquid waste management

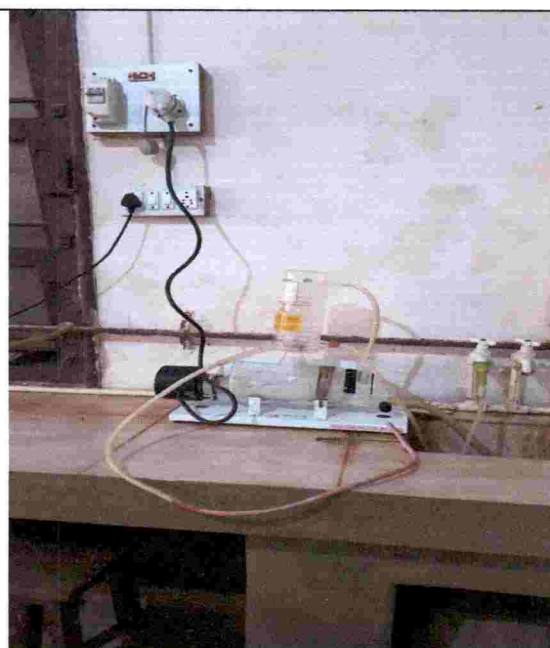
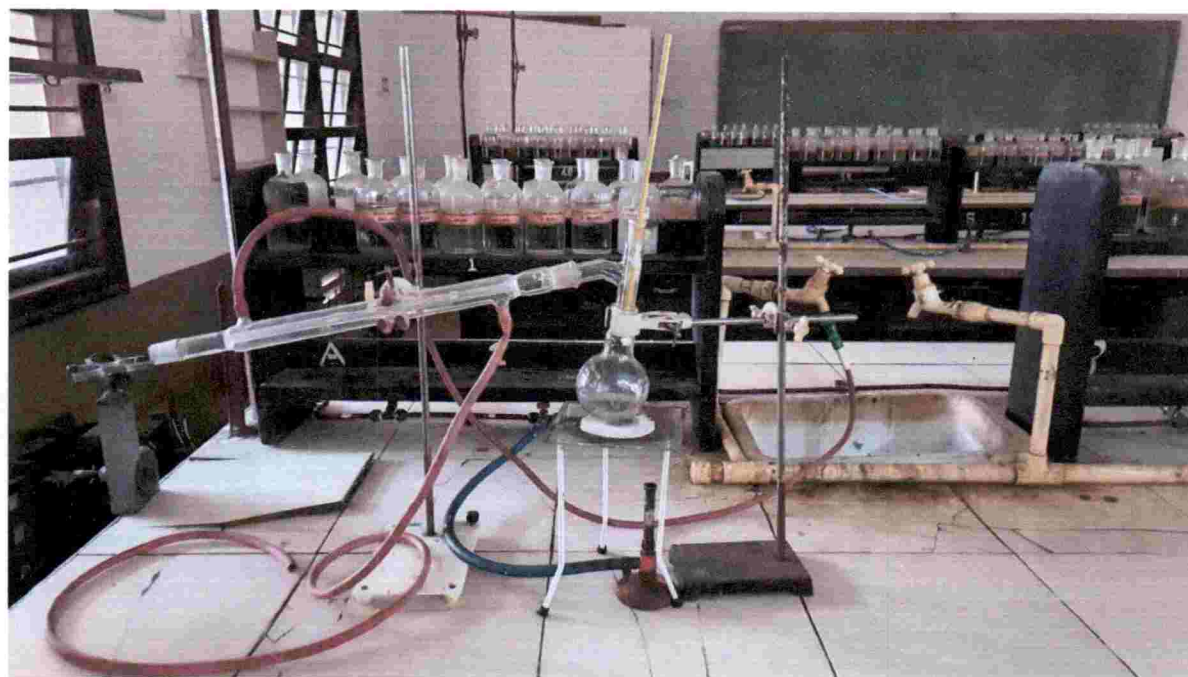




- **LIQUID WASTE MANAGEMENT**

Organic solvents are reused in the chemistry laboratory by the purification through distillation method. Derivatives such as nitro compounds, phthalimide, acetanilides are purified by re-crystallization and are used in qualitative analysis. Rain water is directly harvested in water tanks and stored. It is used in laboratories of the institution.

**DISTILLERIES IN THE CHEMISTRY DEPARTMENT**



*JMdit*  
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## Biomedical waste management

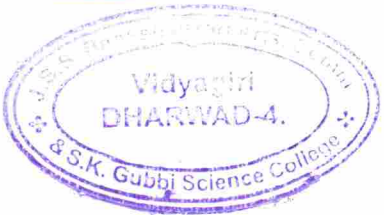


### DUSTBINS FOR COLLECTION OF THE BIOMEDICAL WASTE IN SDM HEALTH CENTRE



| HOSPITAL WASTE MANAGEMENT   |  |  |  |
|---|--|--|--|
| <b>Highly infectious waste</b><br>Human tissues,<br>Organs, Body parts,<br>Cuties containing blood<br>and body fluids,<br>Solid dressing,<br>Bandages, Discarded<br>medicines and drugs,<br>Giant swabs, blood<br>soaked, Used gloves,<br>cotton swabs, gauze,<br>sponges, including the<br>dry remains |  |  | <b>Infectious waste</b><br>Gloves, I.V. Sets,<br>Syringes, catheter tubes,<br>Glove bags, Blood bags,<br>CPR tubes, canisters,<br>Saline bottles, Infected<br>Plastic Waste,<br>Drapes, etc. etc.<br>Discarded syringes,<br>catheter tubing,<br>etc. etc. etc.<br>etc. etc. etc.<br>etc. etc. etc.<br>etc. etc. etc. |
| <b>General waste</b><br>Non-infectious plastic<br>material (papers),<br>Injections,<br>Catheters,<br>Metal containers,<br>Food waste, Waste<br>generated from offices,<br>discarded paper, plastic,<br>discarded plastic, metal<br>discarded metal, etc. etc.   |  |  | <b>Glass waste</b><br>Used Ampoules,<br>Vials,<br>Broken glass,<br>Glass bottles,<br>discarded needles,<br>etc. etc. etc.<br>etc. etc. etc.  |

2021-11-19 (Fri) 11:57 (am)  
Dharwad  
Karnataka  
India  
23°C  
73°F



*J. Mandit*  
PRINCIPAL  
J.S.S. Banashankari Arts, Commerce &  
Shantikumar Gubbi Science College,  
DHARWAD-580 004



ಜನತಾ ಶಿಕ್ಷಣ ಸಮಿತಿಯ  
ಬನಶಂಕರಿ ಕಲಾ, ವಾಣಿಜ್ಯ ಮತ್ತು  
ಶಾಂತಿಕುಮಾರ ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ  
ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ-೫೮೦ ೦೦೪.



Janata Shikshana Samiti's  
**BANASHANKARI ARTS, COMMERCE AND  
SHANTIKUMAR GUBBI SCIENCE COLLEGE,**  
Vidyagiri, Dharwad-580 004.  
Ph.: (0836) 2468478, Fax : (0836) 2462200  
E-mail : principaljsscollegedwd@gmail.com

ಬ್ಯಾಚ್ ಸಂಖ್ಯೆಯಿಂದ 'A' ಗ್ರೇಡ್ ಪುನರ್‌ಮಾನ್ಯತೆ  
ಯು.ಪಿ.ಸಿ. ಯಿಂದ 'CPE' ಮಾನ್ಯತೆ

Reaccredited at the 'A' level by NAAC  
"College with Potential for Excellence" recognition by UGC

Ref. No. JSSCD/ ೨೫ / ೨೧-೨೨

Date: 20/11/2021

To,

Head of the Department,  
Community Medicine  
S.D.M. Helth Center.  
Vidyagiri, Dharwad

Respected Sir/Madam,

Sub; Regarding Maintenance and Disposal of Bio Medical Waste.

With reference to subject cited above I would like to bring few words for your kind consideration, Our Institution undergoing for NAAC 4<sup>th</sup> Cycle accreditation, for this we need information regarding maintenance and disposal of Bio- Medical waste. Hence, I request you kindly provide the required information

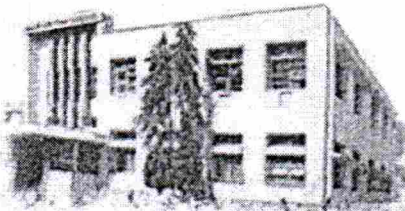
Thanking you,

Yours faithfully,

PRINCIPAL

PRINCIPAL

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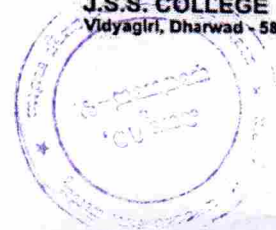


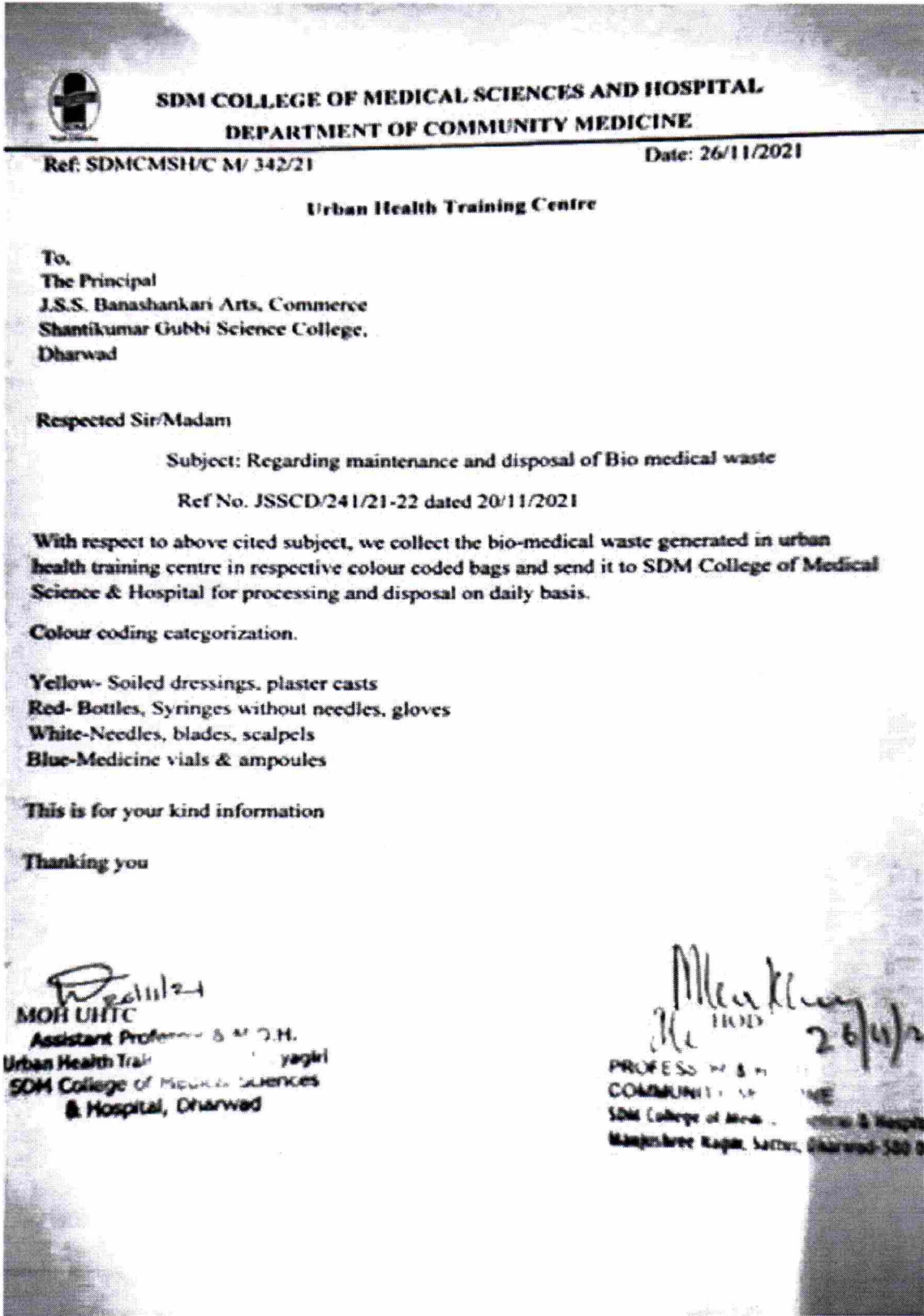
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ವಿದ್ಯಾಗರಿ, ಧಾರವಾಡ-580 004

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J.S.S. COLLEGE  
Vidyagiri, Dharwad - 580 004





**SDM COLLEGE OF MEDICAL SCIENCES AND HOSPITAL  
DEPARTMENT OF COMMUNITY MEDICINE**

Ref: SDMCMSH/C M/ 342/21

Date: 26/11/2021

**Urban Health Training Centre**

To,  
The Principal  
J.S.S. Banashankari Arts, Commerce  
Shantikumar Gubbi Science College,  
Dharwad

Respected Sir/Madam

Subject: Regarding maintenance and disposal of Bio medical waste

Ref No. JSSCD/241/21-22 dated 20/11/2021

With respect to above cited subject, we collect the bio-medical waste generated in urban health training centre in respective colour coded bags and send it to SDM College of Medical Science & Hospital for processing and disposal on daily basis.

**Colour coding categorization.**

- Yellow- Soiled dressings, plaster casts
- Red- Bottles, Syringes without needles, gloves
- White-Needles, blades, scalpels
- Blue-Medicine vials & ampoules

This is for your kind information

Thanking you

*Mohan UHTC*  
**MOHAN UHTC**  
 Assistant Professor & M.D.H.  
 Urban Health Training Centre  
 SDM College of Medical Sciences  
 & Hospital, Dharwad

*Manoj Kumar*  
 HOD  
 26/11/21  
**PROFESSOR & HOD**  
**COMMUNITY MEDICINE**  
 SDM College of Medical Sciences & Hospital  
 Mangeshree Nagar, Sattur, Dharwad-580 008

*J.S.S. Banashankari*  
**PRINCIPAL**  
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## E-waste management



### **E-waste disposal and management:**

Majority of e-waste is produced by department of computer science. The e-wastes are calculators, CPU, monitors, projector, motherboard, keyboard, mouse etc. Similarly the e-waste generated by all the department in UG and PG centre are collected at one site and disposed to the vendors for the exchange of money. Some of them, which are in good condition, donated to poor students and schools for basic study purpose.


### **E-waste Management:**

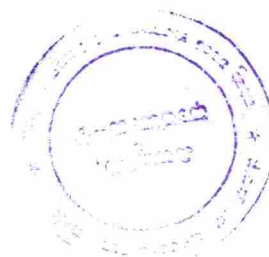
Sources of e-waste generation:

Unserviceable CPUs, Monitors, Key boards, Storage devices(DVDs, CDs, Pen drives), mouse, irreparable electronic equipments of Printers and Scanners, within college campus.

Activities conducted in connection with E-waste:

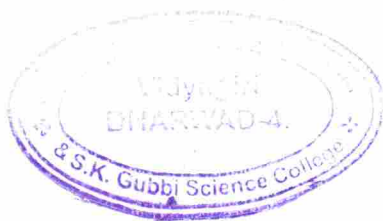
- Student presentations
- UPS and batteries are recharged /repaired/exchanged by the suppliers
- Used computer systems and printers in good condition are given to school students, in every year regularly.
- Showing video clippings
- Conducting competitions among the students.
- Display of wall posters / slogans.
- E-waste is sold as scrap to private agency which recycles it.
- To reduce e-waste generation, on line transfer of data which considerably reduces the usage of CD/DVD, Pen drives and other storage devices.
- Auction or buy back scheme to dispose the old/unused/damaged Electronic gadgets such as Computers, TV, DVD Players, Music Systems and speakers.
- To reduce e-waste generation, proposal has been initiated to install “Cloud Computing Technology and VM-Ware Technology” to create virtualized image of CPU and storage devices.

  
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| E-waste   | Donation of used computers to the students   |
|---|--|
|    |    |
|   |   |
|  |  |

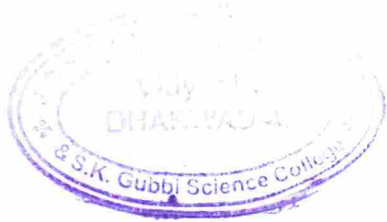


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**JSS BANASHANKARI ARTS COMMERCE AND SHANTI KUMAR GUBBI SCIENCE COLLEGE, DHARWAD**



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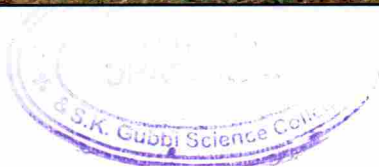
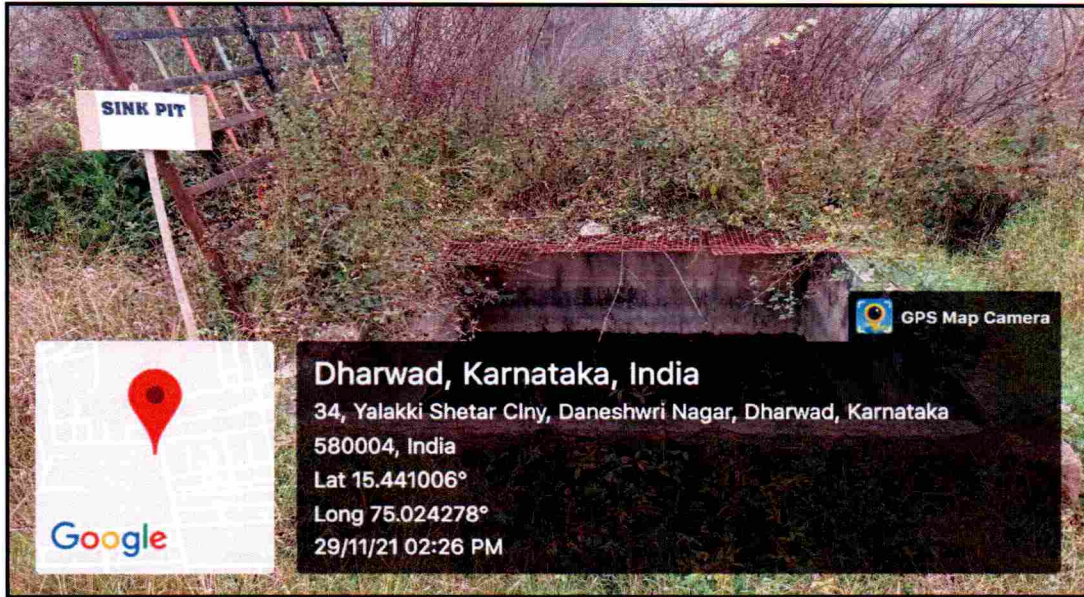


## Waste recycling system



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## SEWAGE SINK PIT IN THE CAMPUS FOR SEWAGE TREATMENT



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