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

7.1.6 (QnM)

Quality audits on environment and energy are regularly undertaken by the institution

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BENGALURU

SUMMARY

Our institute aims to analyze environmental practices within and outside of our campus, which will have an impact on the eco-friendly atmosphere. It has created health consciousness and promoted environmental awareness, values and ethics. This process has been made staff and students better understanding of Green impact on our campus. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background, we adopted this system of the Green Campus for our institution which favoured sustainable development and at the same time reduced a sizable amount of atmospheric CO_2 from the environment.

Our JSS campus is located on magnificent Mailar Lingeshwar Hillock with several valuable trees, shrubs and herbs. By the continuous effort and dedicated involvement of management, Principal, IQAC coordinator, authorities of external agencies, entire staff and students of our institution the process of Quality Audit is made successful. In **Green Audit**, varieties of species in the campus related to Flora and Fauna are enlisted. Our campus shows richness in species with rare, endangered and vulnerable plants. The green belt of our campus supported Fauna with the well diversed species of animals. Our institute has attempted to adopt alternate source of energy to save electricity. Solar panels are installed in the campus to supply hot water to hostel students and for campus street lights. **Environment Audit** has been are estimated to check the quality of air, water, soil and noise levels of our campus with the help of auditing agencies. External agency reports revealed that the levels of all parameters are within the permissible limit. **Lichens** on the trees of **our campus** indicate that the environment of the campus is **pollution free**.

Hubli-Dharwad Corporation, Department of Horticulture and Department of Agriculture, Dharwad jointly conduct garden competitions and flower-fruit exhibition every year. Our campus gardens are regularly nominated for the same and received prizes during the consecutive years since 2016-2020 and also before. The green cover within the campus has been promoted by **plantation** activities regularly by NSS, NCC wings and Department of Botany. Environmental promotional activities are also conducted within and beyond the campus. Students of our institution are conscious about the environment. They voluntarily involve and celebrate environment awareness programmes like "Save environment", "Save Earth", "Ozone Day", "Save Water" and "Ban on Plastic".

Acknowledgement

We are very much thankful to our Management, I.C.A.R. Krushi Vigyana Kendra, an external agency, teaching and non teaching staff of our institution who made Quality Audit on Environment and energy process successful.

IQAC Coordinator

IQAC Co-ordinator
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S. K. Gubbi Science College,
Dharwad.

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College
Vidyagiri
DHARWAD-4.

PRINCIPAL

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Shantikumar Gubbi Science College.
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Green Audit

GREEN AUDIT COMMITTEE MEMBERS

SL. No.	NAME	DESIGNATION	External/ Internal
1	Dr. G. Krishnamurthy	Principal, JSS Banashankari Arts, Commerce and Shanti Kumar Gubbi Science College, Vidyagiri, Dharwad.	Internal member
2	Dr. Suraj Jain	Development officer, JSS Institutions, Vidyagiri,Dharwad.	External member
3	Dr. R. Parimala	HOD, Department of Botany	Internal member
3	Dr. V.S. Bheemareddy	Associate Professor, Department of Botany	Internal member
4	Dr. Venkatesh Mutalik	Associate Professor, Department of Chemistry	Internal member
5	Dr. Ratna Airsang	Assistant Professor, Department of Botany	Internal member
6	Prof. R.M. Pattar	Assistant Professor, Department of Zoology	Internal member
7	Prof S.K. Sajjan	NSS Officer, Department of Electronics	Internal member
8	Dr. M.N. Kotyal	NCC Officer, Department of Geography	Internal member
7	Dr. G.S. Mulgund	Professor, PG Department of Botany, KUD	External member
8	Prof. V.K. Bharani	Professor, JSS K H Kabbur Institute of Engineering, Vidyagiri, Dharwad.	External member
9	Shri R. C. Mathpati	Office Superintendent , JSS College, Vidyagiri, Dharwad	Internal member
10	Mr. Rangnath Naik	Chief Accountant, Governing Body office,Vidyagiri, Dharwad	External member
11	Mr. Vaibhav U. S.	University of Agriculture Science, Dharwad. External agency for quality test	External member
12	Pramod Kappali	Student Representative, JSS College, Vidyagiri, Dharwad	Internal member
13	Manjunath Piraji	StudentRepresentative, JSS College, Vidyagiri, Dharwad	Internal member
14	Vijayakumar Savadi	Student Representative JSS College, Vidyagiri, Dharwad	Internal member

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INTRODUCTION

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity ofInstitute. Our institute aims to analyze environmental practices within and outside of our campus, which will have an impact on the eco-friendly atmosphere. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on our campus. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background, we adopted the system of the Green Campus for our institute which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO_2 from the environment.

OBJECTIVES:

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. Our college has been putting efforts to keep campus environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize frame work of Environment sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit:

1. To map the Geographical Location of the college
2. To document the floral and faunal diversity of thecollege
3. To record the meteorological parameter of Dharwad where our college is situated
4. To document the ambient environmental condition of weather – soil, air, water andnoise
5. To document the waste disposalsystem
6. To adopt alternate source of Energy to save electricity
7. To report the expenditure on green initiatives during the last five years

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GREEN AUDITING:

The college has adopted the 'Green Campus' system for environmental conservation and sustainability. The goal is to reduce CO_2 emission, to save energy and water, while creating atmosphere where students can learn, and for healthyland use analysis.

General overview of the concept of landuse

Land use refers to man's activities and the various uses which are carried on and derived from land.Viewing the earth from space, it is now very crucial in man's activities on natural resource. Insinuations of rapid changes in land use, observations of the Earth from space give the information ofhuman activities and utilization of the landscape. Remote sensing and GIS techniques are now providing new tools for advanced land use mappingand planning. The collection of remotely sensed data facilitates the synoptic analyses of earthsystem, functions, patterning, and change in the local, regional as well as at global scales over time.Satellite imagery particularly is a valuable tool for generating land use map.

Methodology

Three types of data being GPS points, field survey data and Google earth data for Georeferencing were used.

Data processing and analysis

Land use map preparation is executed through the following steps:

Acquisition of data (Location:15.4425° N, 75.0182° E), Geo-coding and Geo referencing ofSatellite imageries by extracting the ground control points. Supervised classification was carried outwith the aid of ground truth data collected during field survey. Scanning and digitization of mapsand editing of all the Georeferenced maps were done using GIS. Data manipulation and analysis andlinking the spatial data with the attribute data for creation of topology was carried out using GISsoftware. Creation of GIS output in the form of land use map showing various land use have beenprepared.Therefore, attempt has been made in this study to map land use for JSS Campus, Dharwad with, a view to detect the land consumption in the built-up land area using both remote sensing and GIStechniques (Sources: This data is procured from Estate office, Site engineerand Governing Body office, JSS Institutions, Vidyagiri, Dharwad).

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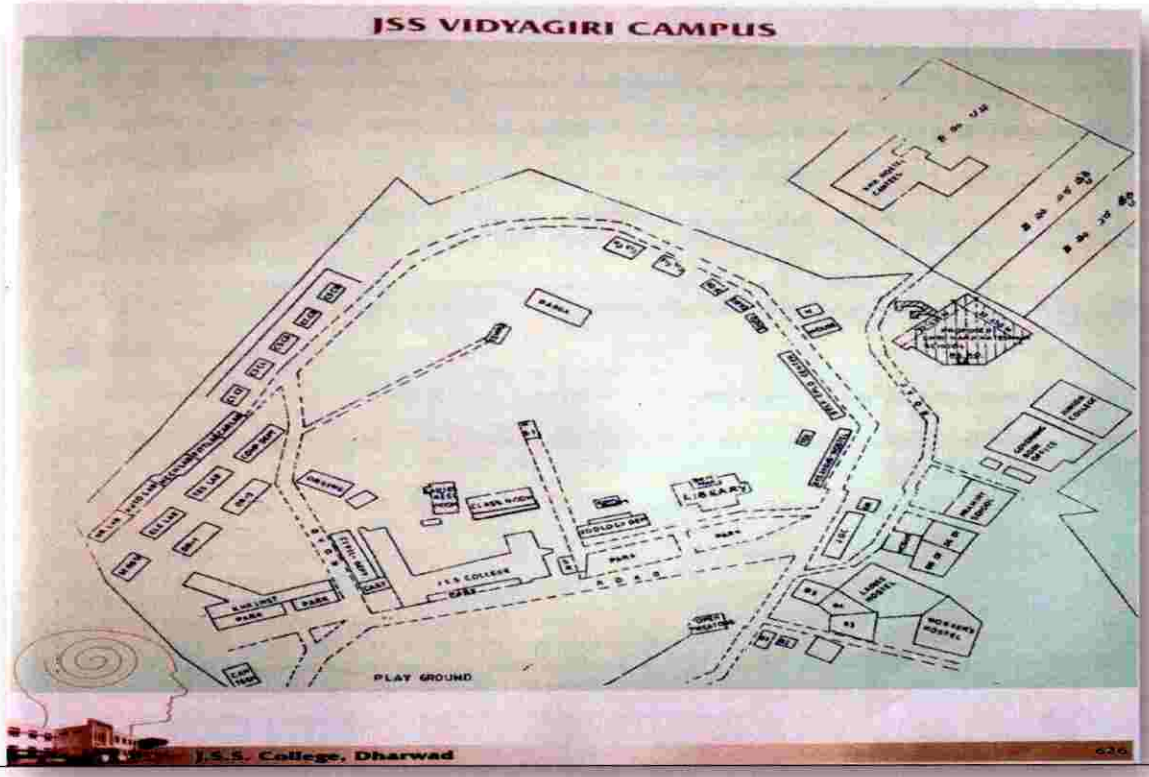
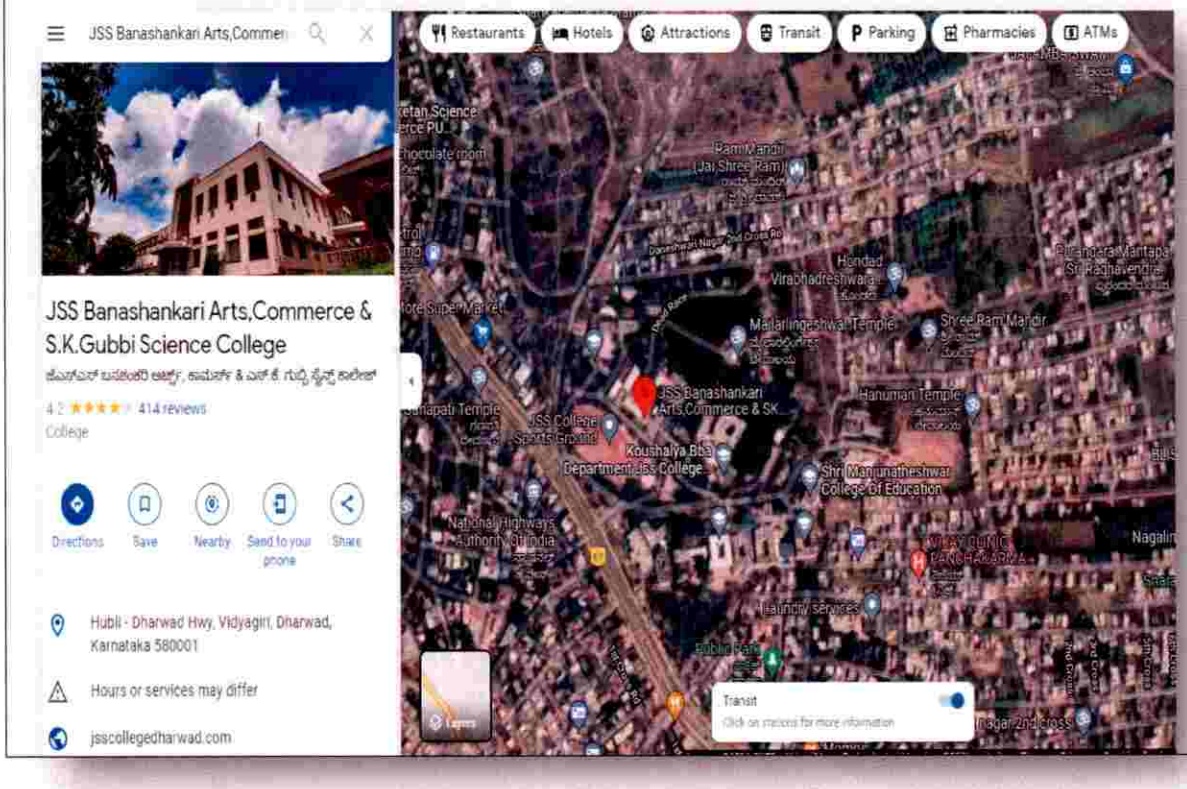
MAP OF JSS CAMPUS AS PER THE REGISTERED DOCUMENT



GOOGLEMAP VIEW OF JSS COLLEGE, VIDYAGIRI CAMPUS, DHARWAD



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GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Our campusis spread over 44 acres 37 guntas 21. 40 anas(as per RTC) of land in the outskirt of Dharwad city, Karnataka, India. Scaled image of college campus is shown in Photo 1. Green color inMap is representing green area. The Google aerial views of JSS Campus with surrounding areas(Photo 1) and marked campus (Photo 2) respectively which are showing different JSS institution buildings, GB office, playgrounds, hostels, canteens, Bank, Post office, SDM primary health centre, MailarLingeshwartemple and residential areas.

Photo 1: Aerial View of JSS Campus with surrounding areas

Photo 2: Aerial View of JSS Campus marked

(Source: GoogleEarth)

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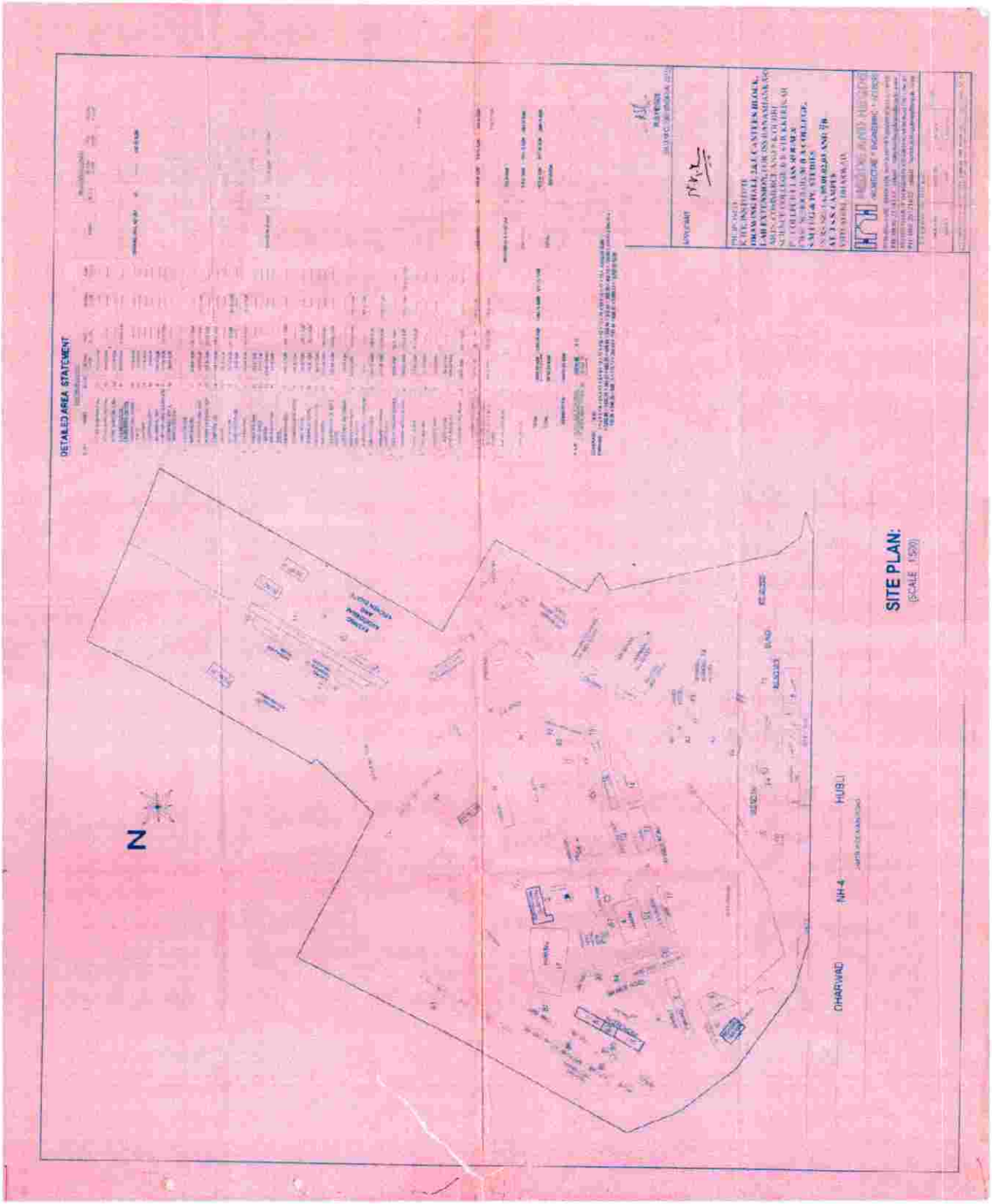

SITE PLAN OF JSS CAMPUS

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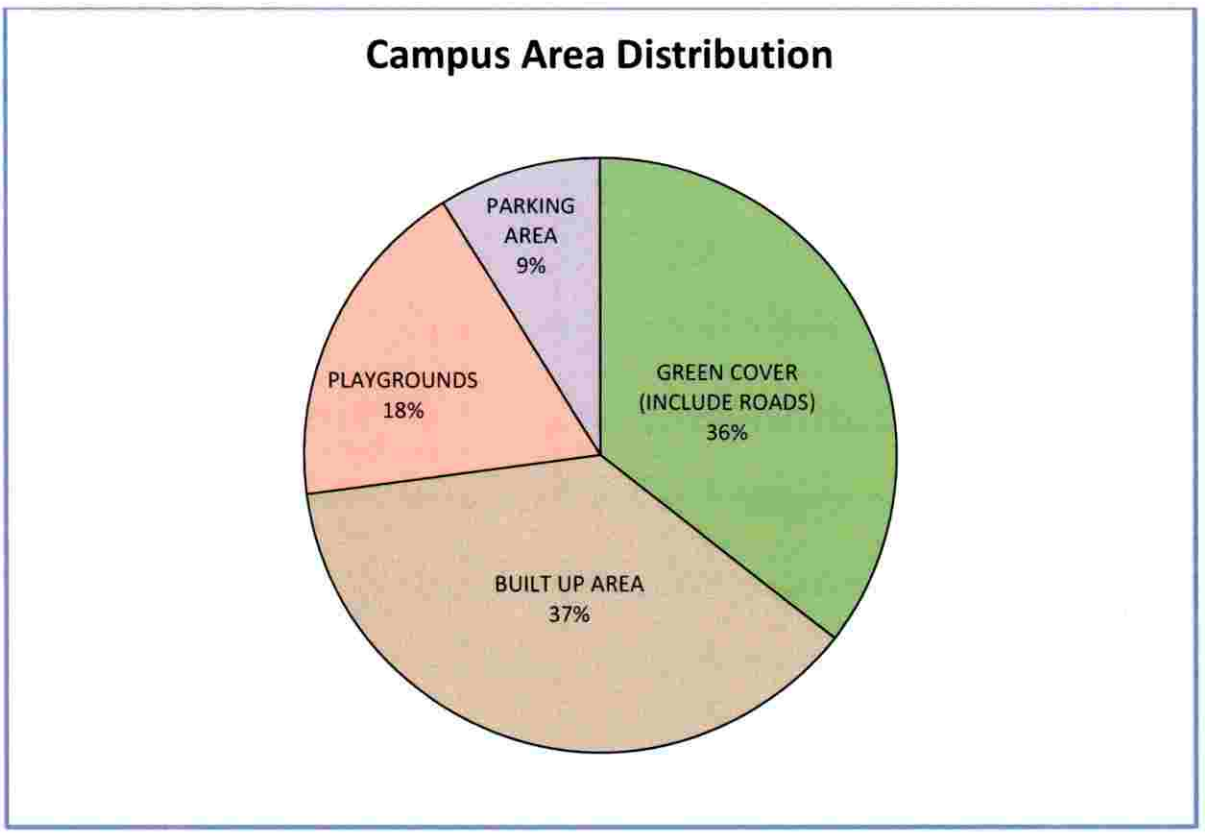
LAND USE DATA OF JSS CAMPUS

CATEGORIES OF LAND	AREA (sqm)
TOTAL GREEN COVER(INCLUDE ROADS)	64,688.32 sqm
TOTAL BUILT UP AREA	68,019.68sqm
PLAYGROUNDS	33,200sqm
PARKING AREA	16,200sqm
TOTAL CAMPUS AREA	1,82,108sqm



The total area of JSS Campus is44 acres 37 guntas 21. 40 anasout of which the built up area is 37% (68,019.68 sqm), green cover is 36% (64,688.32 sqm), Playground is 18% (33,200 sqm) and Parking Area is 09% (16,200 sqm).

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The college Campus is spread over 45 acres of which more than 36% greenery is maintained in the campus. The campus has

- **2622various** trees. These are identified and labeled scientifically.
- **More than 1950**potted plants are maintained.
- The college has well maintained herbarium cabinets (with RET species, western ghat species) Botanical garden, orchids, nursery(attractive leafy varieties) with ornamental plants, artificial tanks with hydrophytes and Greenhouse.
- The botanical garden has medicinal plant section.
- Our Institution participates in competition every year, organized by HDMC – our garden bagged many prizes for – Botany Garden, Lawn and Medicinal Plant garden. During this event, experts of H.D.M.C., AgriculturalUniversity Scientists and Authorities of Horticulture department visit the college garden. Ourcollege has secured high rewards regularly.

Every year, the Institute celebrates World Environment Day (June 5th), World Ozone Day(September 16th) and other such importantevents to create awareness significance of environment among the student and the Department of Botany celebrates 'Vanamahothsava' every year by planting Saplings of forest species, economically valuable plants and RET species.**Following are the few rare species maintained in the campus along with common forest species**.

***Simarouba glauca*(Paradise tree)**

Simaroubaglauca tree – also known as the **paradise tree** – they were told to research its ability to produce **biofuel, edible oil** and to treat**cancer patients** battling the side effects of **chemotherapy.**

(ii) *Coryphautan*:

Coryphautan, the cabbage palm, is a species of palm. It is distributed from the Assam region of India through Indochina, Malaysia, and Indonesia to the Philippines and New Guinea, and south to Australia's Cape York Peninsula. It grows up to 20 meters tall and bears fronds 4 to 6 meters long. Like other palms of genus Corypha, this species flowers at the end of its lifetime, producing a massive inflorescence up to 5 meters tall containing up to one million flowers.

(iii)*Erinocarpusnimmonii* (RET species)

Erinocarpusnimmonii(JangliBhendi)are planted in the campus garden.JangliBhendis a tree, 5-6 m tall, clothed with starry hairs, with big yellow flowers. Large alternate leaves are irregularly lobed. Fruit is eaten, and is an important famine food. It is common in Western Ghats. Plant has medicinal values.

iv) ***Zamia integrifolia***(Sago palm)

It is distributed in Florida, Georgia and Caribbean area. The primary toxins in the Zamia species are the glycosides cycasin and macrozamin, found in all parts of the plant but especially in the seeds. Itconsists of 60 species. They are perennial herbs growing from an underground, branching stem, with 4-10 erect leaves up to 4 feet (1.5 m) in length, with up to 80 dark green, glossy, stiff, linear leaflets.

v)*Adansonia digitata*

Adansonia digitata, the **African baobab**, is the most widespread tree species of the genus *Adansonia*, the baobabs, and is native to the African continent. The long-lived, typically found in dry, hot savannas of sub-Saharan Africa, where they dominate the landscape, and reveal the presence of a watercourse from afar. Their growth rate is determined by ground water or rainfall and their maximum age, which is subject to much conjecture, seems to be in the order of 1,500 years. They have traditionally been valued as sources of food, water, health remedies or places of shelter and are steeped in legend and superstition.

Plantation of *Adansonia digitata* by Dr. N. Vajrakumar, Hon'ble Secretary, JSS Institutions.

Adansonia digitata

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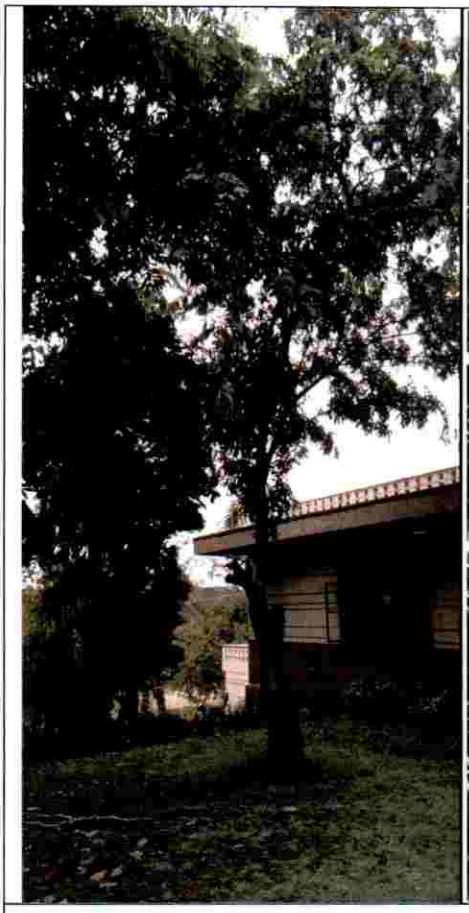

A VULNERABLE PLANT SPECIES IN OUR GARDEN : *Saraca asoca*

A RARE PLANT SPECIES IN OUR GARDEN: *Pinus roxburghii* and *Pimenta dioica* (Allspice)

PHOTOS SHOWING NURSERY WITHIN THE COLLEGE CAMPUS

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MEDICINAL PLANT GARDEN IN OUR CAMPUS

Sauropus androgynus (MULTIVITAMIN PLANT)

Averrhoa carambola (VITAMIN "C" RICH)

Details of some medicinal plants in our medicinal plant garden

***Pimenta dioica* (Allspice)**

It is used for treatment of high blood pressure, obesity and digestion problem in Central America, as well as treatment for menstrual cramps and abdominal pain in Caribbean culture, cardiovascular effects of *Pimenta dioica* were investigated.

Pinus roxburghii

Pinus roxburghii has many medicinal uses; the wood is aromatic, deodrant, haemostatic, stimulant, anthelmintic, digestive liver tonic, diaphoretic and diuretic.

Averrhoa bilimbi

It is principally cultivated for medicinal purposes in many tropical and subtropical countries of the world. Literature survey about this plant shows that *A. bilimbi* is mainly used as a folk medicine in the treatment of diabetes mellitus, hypertension and as an antimicrobial agent.

***Averrhoa carambola* (Star Fruit)**

It has anti-inflammatory ability. The high levels of antioxidants in this fruit make it a good anti-inflammatory that can help ease symptoms of psoriasis and dermatitis. Weight loss promotion, immunity boosting ability, improved respiratory health, improved heart health. The star fruit is a decent source of several nutrients especially fiber and vitamin C.

Nyctanthes arbor-tristis

It is a mythological plant; has high medicinal values in Ayurveda. The popular medicinal use of this plant are anti-helminthic and anti-pyretic besides its use as a laxative, in rheumatism, skin ailments and as a sedative.

***Prunus avium* (wild cherry)**

Wild cherry is used to prevent cancer and diseases of the heart and blood vessels (cardiovascular disease). It is also used to treat osteoarthritis and gout.

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ಮತ್ತು ಶಾಂತಿ ಕುಮಾರ ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು
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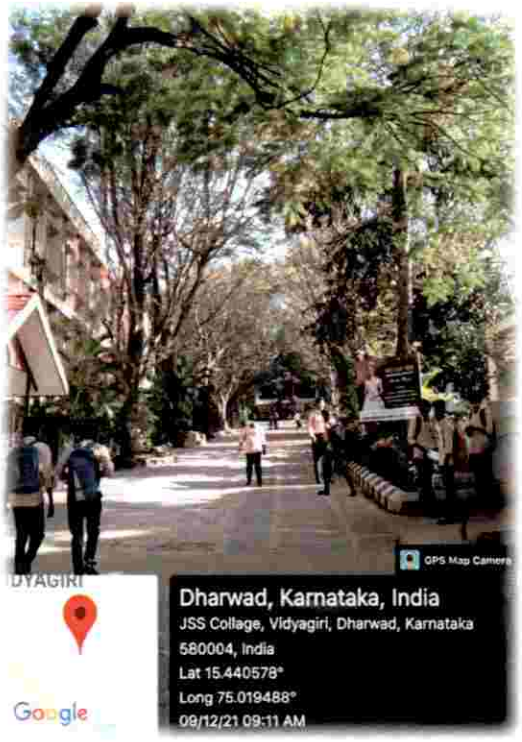
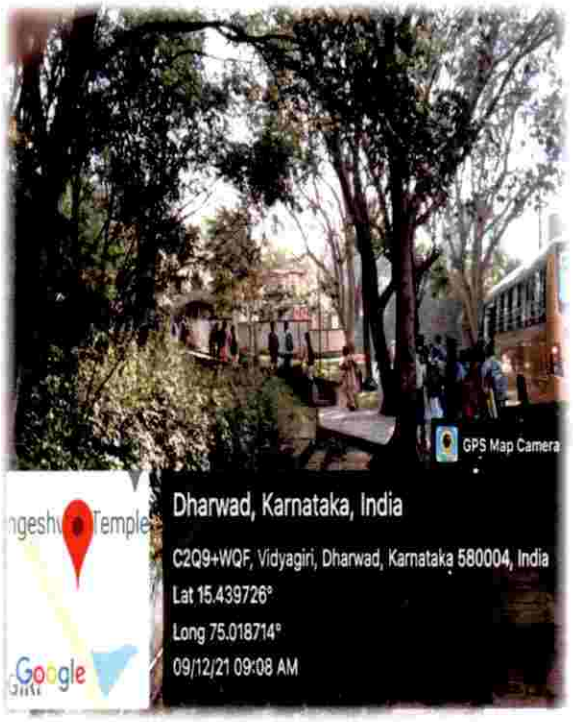
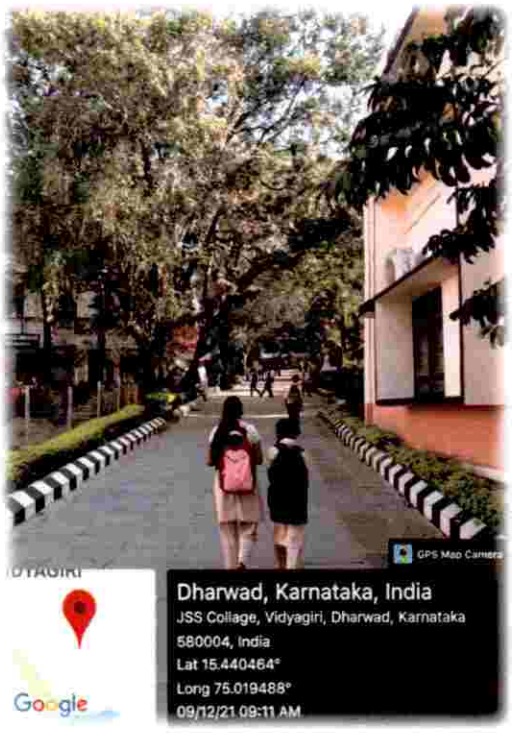
GREEN BELTS WITHIN THE CAMPUS







GREEN CANOPY SPREAD OVER THE CAMPUS

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LAWN OPPOSITE TO BOTANY DEPARTMENT

LAWN BESIDE OUR FOOD COURT

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LAWNS NEAR TO SMI INSTITUE OF UG AND PG STUDIES

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LAWN ADJACENT TO "B" BLOCK

LAWN ADJACENT TO OUR DEPARTMENT OF BOTANY

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LAWNS NEAR TO OUR COLLEGE LIBRARY BUILDING IN THE CAMPUS

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NAMING AND COUNTING OF TREES IN THE CAMPUS

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List of trees in the Campus

Trees	Number	Trees	Number
Acacia auriculiformis A. cunn. Ex Benth	219	*Madhuca longifolia (Koen.) Mac. Bride var. latifolia*	2
Acacia catechu(Roxb.) Willd	2	*Magnolia champaca (L.) Baill. Ex Pierre*	15
Acacia chundru (Rottler) Willd	3	*Magnolia alba (DC.) Figla*	2
Acacia nilotica (L.) Delile	2	*Malphigia glabra L.*	2
Aegle marmelos (L.) Corr.	8	*Mangifera indica L.*	23
Albizia lebbeck (L.) Benth.	5	*Manihot GlazioviiMuell.*	1
Albizia odoratissima (L.f.) Benth.	2	*Manilkara hexandra (Roxb.) Dubard*	2
Albizia saman(Jacq.) Benth.	34	*Manilkara zapota (L.) P. Royen*	5
Alstonia scholaris (L.) R. Br	1	*Markhamia lutea (Benth.) k. Schum*	5
Anacardium occidentale L.	9	*Melia azedarach L.*	53
Annona reticulate L.	2	*Mallingtonia hortensisL.f*	1
Annona squamosa L.	5	*Morus alba L.*	3
Artocarpus heterophyllus Lam.	12	*Moringa oleifera Lam.*	3
Averrhoa bilimbi L.	2	*Mutingia calabura L.*	55
Averrhoa carambola L.	1	*Neolamarkia cadamba (Roxb.) Bosser*	1
Azadirachta indicaJuss	212	*Nyctanthes arbortristis L.*	3
AgathisSp	1	*Peltophorum pterocarpum (DC.) Back. Ex.K.Heyne*	15
Balanites aegyptiaca (L.) Del.	15	*Persea americana Miller*	1
Bauhinia purpurea L.	23	*Phyllanthus acidus (L.) Skeels*	2
Bombax ceiba L.	1	*Phyllanthus emblica l.*	6
Brownea coccineaJacq.	1	*Pimenta dioica (L.) Merr.*	1
Butea monosperma (Lam.) Taub	1	*Pithecellobium dulce (Roxb.) Benth*	103
Callistemon citrinus (curtis). Skeels	4	*Plumeria obtuse L.*	3
Caryota urens L.	1	*Polyalthia longifolia B.& H.*	70
Cascabela thevetia (L.) Lippold	18	*Pongemia pinnata (L.) pierre.*	101
Cassia fistula L.	5	*Prosopis juliflora (Sw.) DC*	15
Cassia javanica L.	5	*Psidium guajaya L.*	37
Cassia spectabilis DC.	25	*Punica granatum L.*	10
Casuarina equisetifolia L.	5	*Ravenala madagascariensis J.F.Gmel*	2
Ceiba pentandra (L.) Gaertn.	1	*Roystonea regia (H.B.K.) O.F. Cook*	1
Citharexylum spinosum L.	7	*Santalum album L.*	456
Citrus aurantifolia (Christm. &Panz.) Swingle	9	*Sapindus laurifoliusVahl.*	4
Cocos nucifera L.	15	*Saraca asoca (Roxb.) Willd.*	9
Crescentia cujete	2	*Sesbania grandiflora (L.)*	2
Dalbergia lanceolaria ssp.	2	*Simarouba glauca DC.*	2

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Paniculata (Roxb.) Thoth			
Dalbergia sissoRoxb.	**5**	*Spathodea campanulata P. Beauv*	**104**
Delonix elata (L.) Gambl.	**5**	*Streblus asper Lour.*	**1**
Dalbergia sissoidesGrah.ex W. & A.	**1**	*Swietenia macrophylla King.*	**5**
Delonix regia (Hook) Raf.	**101**	*Syagrusromanz offianum (Cham.) Glassman*	**1**
Dichrostachys cinerea (L.) W. & A	**2**	*Syzygium cumini (L.) Skeels*	**7**
Erinocarpus nimmoniiGrah. Ex Dalz.	**2**	*Syzygium samarangense (Bl.) Merr. & Perry*	**2**
Erythrina suberosaRoxb.	**2**	*Tabebuia aurea (silvaManso) B. &H.f. ex S. S. Moore.*	**1**
Eucalyptus tereticornis Sm.	**501**	*Tamarindus indica L.*	**33**
Ficus amplissima J. E. Smith	**8**	*Terminalia elliptica*	**1**
Ficus drupaceaThunb.	**1**	*Tabebuia rosaea*	
Gracinia xanthochymus	**1**	*Thuja orientalis*	**6**
Gardenia latifoliaSoland	**1**	*Terminalia paniculata Roth.*	**1**
Glyricidia sepium (Jacq.) Kunth.	**9**	*Thespesia populnea (L.) Soland*	**11**
Gmelina arboreaRoxb.	**1**	*Toona ciliate M. Roem.*	**1**
Grevillea robusta A. Cunn.ex	**2**	*Trema orientalis (L.) Bl.*	**2**
Guazuma ulmifolia Lam.	**1**	*Terminalia bellerica (Gaertn.) Roxb*	**1**
Handroanth simpetiginosus (Mart. ex DC.) Mattos	**1**	*Toona ciliate M. Roem.*	**1**
Holarrhena pubescens (Buch. Ham.) Wall	**1**	*Tectona grandis* *Zamia integrifolia*	**11** **1**
Holoptelia integrifolia (Roxb.) Planch	**5**	*Ficus bengalensis*	**11**
Jacaranda acutifolia Humb. &Bonpl	**2**	*Ficus religiosa*	**12**
		Corypha utan	**2**
Kydia calycinaRoxb.	**5**	*Pinus roxburghii*	**3**
Lagerstromia speciosa (L.) Pers.	**5**	*Podocarpus sp.*	**2**
Limonia acidissima L.	**4**	*Ziziphus mauritiana Lam.*	**15**
Terminalia catapa	**44**	*Ficus krishnae*	**1**
Total number of trees in the campus			**2622**

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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

FAUNAL DIVERSITY IN JSS COLLEGE CAMPUS, VIDYAGIRI DHARWAD

Species/ Class	Examples	Scientific Names
ARTHROPODS	Wasps	*Ropalidiini marginata, Stilbum cyanurum, Ampulex compressa,*
	Ants	*Camponotus pennsylvanicus, Solenopsis invicta, Camponotus americanus, Oecophyllas margdana, Monomorium minimum, Pheidole species, Tapinoma sessile, Solenopsis germinate*
	Scorpions	*Hottentotta rugiscutis, Hottentotta tamulus*
	Cockroach	*Periplaneta americana*
	Honey Bee	*Apismilifera, Apisdorsata, Apis florae, Apis cerena indica*
	Mosquitoes	*Anopheles sinensis, Culex,*
	Beetles	*Cocinellaseptem punctata, Coprisin certus, Chilocorus stigma,*
	Termites	*Cryptotermes dudleyi, Odonto termis*
	Spiders	*Platycryptus undatus, Myrmaplata plataleoides, Phintella vittata, Thomisus lobosus, Xysticus minute, Cyrtarachne Keralayensis, Plexippus paykulli*
	Butterflies	*Atrophaneure hectors, Graphium nomius, Cepora nerissa, Delias eucharis, Euploea core, Melanitis leda, Neptis hylas, Appias albino, Tirumala limniace, Danaus chrysippus*
FISHES	Rohu	*Labeo rohita*
	Common carp	*Cyprinus carpio*
	Tilapia	*Oreochromis mossambicus*
	Guppy	*Poecilia reticulate*
AMPHIBIANS	Frog	*Duttaphrynus melanostictus, Microhyla ornata, Euphlyctis cyanophlyctis, Limnonectes limnocharis, Polypedatus maculates.*
		Ichthyophis sps.
REPTILES	House lizard (Indian Gecko-	*Hemidactylus frenatus*
	Garden lizard	*Calotes versicolor*
	Mabuya	*Eutropis carinata*
	Rat snake	*Pantherophis* sps.
	Cobra	*Naja naja*
	Green wine snake	*Ahaetulla* sps

J.S.S. Banashankari Arts, Comm & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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DHARWAD-580 004

BIRDS	Horn bill	*Ocycerosbirostris*
	Pigeon	*Columba livadomestica*
	House sparrow	*Passer domesticus*
	House Crow	*Corvus splendens*
	Pheasant Crow	*Centropus sinensis*
	Robin	*Turdus migratorius*
	Asian koel	*Eudynamys scolopaceus*
	Parrot	*Psitta carahopochlorus*
	Thick-billed Flowerpecker	*Dicaeum agile*
	Square-tailed Bulbul	*Hypsipetes ganeesa*
	Pied bush chat	*Saxicola caprata*
	Jungle babbler	*Turdoides striata*
	Red-whiskered bulbul	*Pycnonotus jocosus*
	Indian Hornbill	*Ocyceros birostris*
MAMMALS	Mongoose	*Herpestes edwardsii*
	Monkeys	*Macaca mulatta*
	Langur	*Semnopithecus entellus*
	Squirrel	*Funambulus palmarum*
	Civet palm	*Paradoxurus hermaphroditus*
	Rats	*Rattus rattus*
	Domestic dogs	*Canis lupus familiaris*
	Cats	*Felis catus*

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NURSERY PLANTS

The nursery in the college campus, maintained by the department of botany has made efforts to conserve a variety of plant species like Barleria, Anthurium, Peperomia, Spathyphyllum, Dracaena, Begonia, Pentas, Asparagus, Coleus, Ferns, Euphoria, Biophytum, Brugmeria, Datura and many more which are considered to be an ornamental leafy variety of plants.

FAUNAL DIVERSITY IN JSS COLLEGE CAMPUS

Considering the importance of biodiversity in our campus, a variety and variability of living organisms are encouraged to flourish. A wide range of genetic diversity and ecosystems are maintained systematically with the help of teaching and non-teaching staff alike. This present report documents the local fauna which is available in our JSS College campus. The survey carried out so far evidences the following fauna with inclusion of animals in different levels of food chain *viz* insects, fishes, amphibians, reptiles, birds and mammals.

IMPORTANCE OF DOCUMENTATION OF LOCAL FAUNA

1. Preservation and Conservation of the above helps the on ground study for the students of our college.
2. Various projects have been assigned to the students of final year B.Sc with combinations of botany and zoology to investigate their role in the environment without harming them. This evidenced document helps to provide an insight over the biodiversity importance to all the students of our campus.
3. The school students who visit the museums on regular grounds are enlightened about the importance of biodiversity by the staff of our college considering the documented projects.
4. Students are encouraged by our staff to take up the priority of conserving the flora and fauna from their very beginning of the course, helping to build their interest and career in the field of research.

Conclusion: The flora and faunal population and their diversity in our JSS College has been identified as an important zone with species richness. The green environment has a strong impact on the psychology of students and visitors, to take inspiration and involve themselves in activities related to conserving and safe guarding the biodiversity as practiced in our college campus.

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FAUNAL DIVERSITY OBSERVED IN THE JSS COLLEGE CAMPUS

Oxythyrea funesta

Catacanthus incarnatus

Apis dorsata

Tirumala limniace

Duttaphrynus melanostictus

Eutropis macularia

Prinia sps.

Pycnonotus jocosus

Asian Koel

Ocyceros birostris

Herpestes edwardsii

Semnopithecus entellus

EFFORTS FOR CARBON NEUTRALITY:

The Carbon Neutrality, or having a net zero carbon footprint, refers to achieving net zero carbon emissions by balancing carbon released with an equivalent sequestered or offset methods. Basically, Carbon neutral means removing as much carbon dioxide from the atmosphere as we put in. Carbon emission processes on the college campus: There are no direct carbon emission processes or activities in the campus except the limited movement of fuel run vehicles. But the use of electricity, water and stationery are resulting in the carbon emission indirectly.

College Carbon offsetting initiatives:

- Tapping solar energy for electricity to cater to the needs of the office, laboratories, water pumping and cooking food in the hostel mess and for illumination of hostels and campus in a phased manner..
- The college has made adequate arrangements for the parking of vehicles.
- Emission test certificates are mandatory for the vehicles in the campus.
- College has vehicle emission test facility in the campus.
- Use of plastic cups and plates in the campus are prohibited.
- Cigarettes and tobacco products are strictly banned within 500 meters of the campus.
- Majority of the students use city bus facilities instead of using individual transportation.
- Carpooling or share auto system is used by staff for transport and conveyance.
- Initiating the use of computer assisted online system.
- Communication to the faculty through conventional paper circulars has been replaced with theuse of Group SMS alert system and e-mail services.
- Plantation programmes are taking place on the campus during rainy season every year toincrease the number of plants to enhance vegetation on the campus.
- Separate security personnel provided to garden.

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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

PLANTATION PROGRAMMES

WITHIN THE CAMPUS

INAUGURATION OF PROGRAMMES BY WATERING TO PLANT

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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DHARWAD-580 004

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

ECOFRIENDLY CELEBRATION OF FESTIVALS IN THECAMPUS

J.S.S. Banashankari Arts, Commerce and Shantikumar Gubbi Science College Vidyagiri, Dharwad - 580 004

Happy Deepavali -2019-20
27th October 2019

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JANATA SHIKSHAN SAMITI'S

BANASHANKARI ARTS, COMMERCE & SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-04

Tulasi Festival 9th Nov 2019-20

J.S.S. Banashankari Arts, Commerce and Shantikumar Gubbi Science College Vidyagiri, Dharwad - 580 004

Ganesha Festival

22.08.2020 2020-21

Satyanarayana Pooja 22.08.2020

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

JSS

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

ನ್ಯಾಕ್ ಸಂಸ್ಥೆಯಿಂದ 'A' ಗ್ರೇಡ್ ಪುನರ್‌ಮಾನ್ಯತೆ
ಯು.ಜಿ.ಸಿ. ಯಿಂದ 'CPE' ಮಾನ್ಯತೆ

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

Ref. No. JSSCD/

Date : 04.12.2021

Area of JSS Campus

Survey Number	Area
Survey No. 77	1,00.00.00
Survey No 1A	29.34.03.25
Survey No. 2	2.01.00.00
Survey No 3	2.02.00.00
Survey No35	5.15.02.50
Survey No 35	0.01.15.75
Survey No 85	3,11,00.00
Survey No 86	1.13.00.00
total	43.77.21.40

Total area of the campus is 44 acres, 37 Gunta, 21.40 Anas

Total Built up area- 68,019.68 Sqm
Play ground - 33,200 Sqm
Parking area - 16,200 Sqm
Green coverage Area (including roads) - 64,688.32 Sqm
Total area of Campus - 1,82,108 Sqm

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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Shantikumar Gubbi Science College,
DHARWAD-580 004

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

Energy Audit

ENERGY AUDIT

- Minimal consumption of energy is the saving aspect of energy conservation in the campus.
- The notices near the switch boards prevent wastage of energy.
- The use of CFL bulbs and LED lamps (in each departments, museum, Auditoriums, resting rooms and staffrooms) instead of tungsten and fluorescent lamps.
- Use of smart appliances to reduce energy consumption.
- Students are well sensitized so that they switch off lights and fans when not required. Air conditioners are used only at essential places.
- Solar panels are installed on the terrace of hostels to supply hot water for bathing (students) to save electricity.
- The management has appointed an electrical maintenance technician to look after the maintenance of switches, wiring, electrical equipments, lights and fans etc. Periodical checkup of these electrical items are done to avoid loss of energy.
- Use of Renewable energy: The identification of renewable, sustainable and affordable energy sources has led to the installation of solar lights and heaters. Solar energy is one of the sources for lights and heaters used in the hostels and the college.

The Institution has planned to afford to go for renewable energy as follows;

- Installed solar lights on the roads within the campus.
- Steam system installed (for cooking purpose) in hostel kitchen.

Alternate sources of energy andenergy conservation measures:

Sl.No.	Name of natural resources	Total number
1	Solar water heater panels installed	04x 300 = 1200 LPD
2	Solar street lights	05
3	LED Lights	425

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Installation of Solar panels for street lights in the campus

Installation of Solar water heater panels in hostels for hot water supply to students and other staff in hostels

LED lights are used instead of tungsten and fluorescent lamps

- Energy Conservation: Solar panels are installed in the campus to supply hot water to hostel students and for the street road lamps, as alternate source of energy and to save electricity.
- Minimal consumption of energy is the saving aspect of energy conservation in the campus. The notices near the switch boards prevent wastage of energy. The use of CFL bulbs and LED lamps (in each departments, museum, resting rooms, Auditoriums and staffrooms) instead of tungsten and fluorescent lamps.
- Use of smart appliances to reduce energy consumption.
- Students are well sensitized so that they switch off lights and fans when not required. Air conditioners are used only at essential places.
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J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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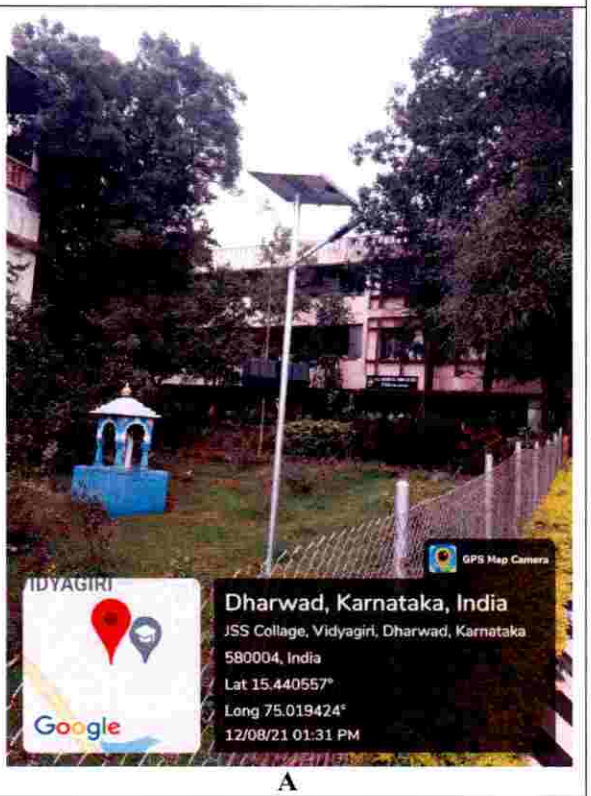
STEAM SYSTEM INSTALLED (FOR COOKING PURPOSE) IN HOSTEL KITCHEN.

SOLAR ENERGY

SOLAR STREET LAMP IN THE CAMPUS



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SOLAR WATER HEATER IN THE GIRLS HOSTEL CAMPUS

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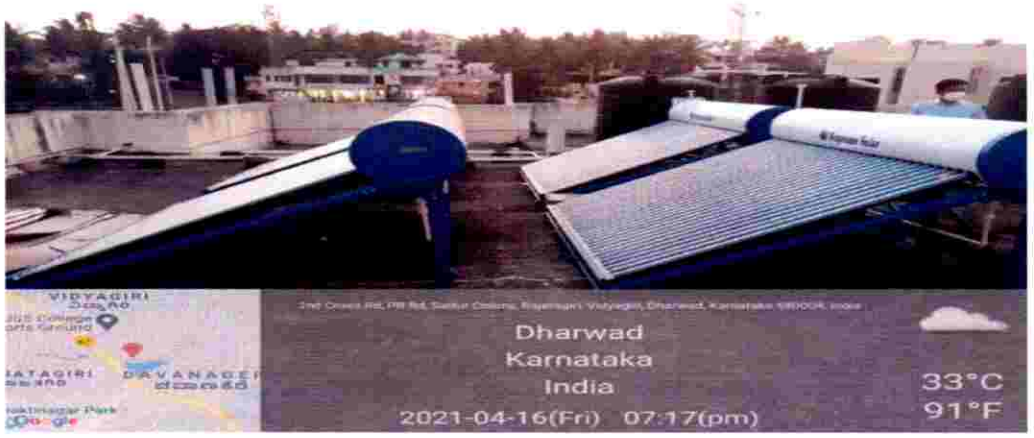
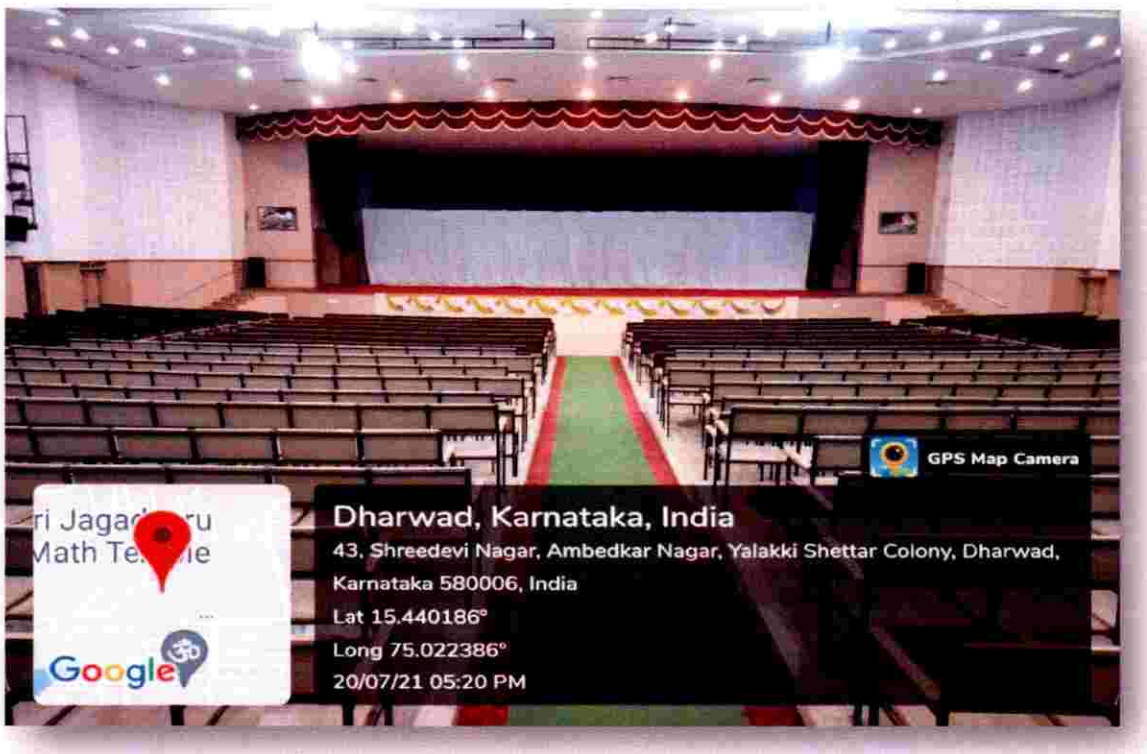
DHARWAD-580 004



USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT

LED LIGHT USED IN SANNIDI AUDITORIUM



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LED LIGHTS IN DRH HALL

AWARENESS ABOUT THE USAGE OF ELECTRIC APPLIANCES BY DISPLAY BOARDS

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College, Vidyagiri DHARWAD-4.

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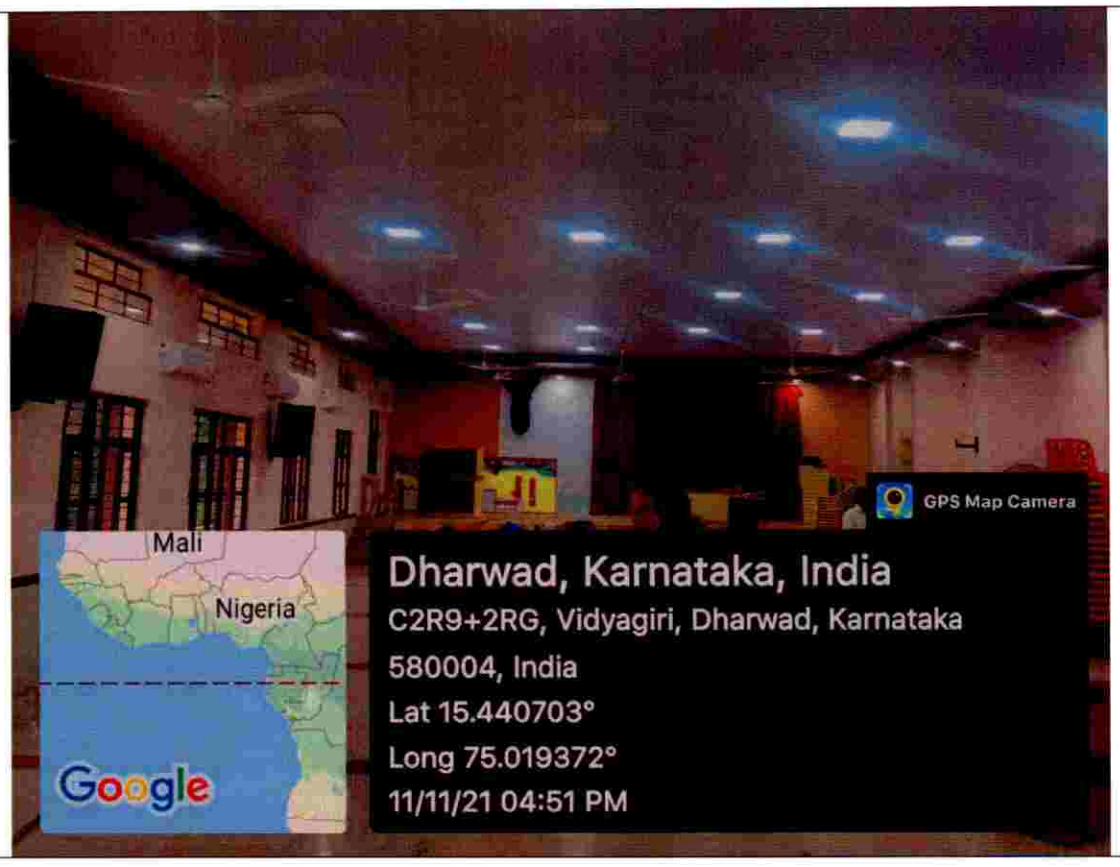

LED LIGHT IN UTSAV HALL AND FOLKLORE MUSEUM

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College
Vidyagiri
DHARWAD-4.

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

SUPREME SOLAR WATER HEATER INSTALLATION CERTIFICATE

Supreme Solar Projects Pvt. Ltd.

(Approved by MNRE Govt. of India)

Plot No. 28C, Sy.No. 92, 93, 94 & 95, Veerapura Village, Kasaba Hobli,
Doddaballapura Industrial Area, Bangalore - 561 203. Ph: 080 2950 1554 E-mail: info@supremesolar.in

Manufacturers of Solar Water Heater

INSTALLATION CERTIFICATE

This is to Certify that Supreme Solar Projects Pvt. Ltd. Approved by MNRE Govt. of India has Installed 1200. LPD Solar Water Heating system on dated 25/3/21

USER NAME AND ADDRESS :

The. Principal
J.S.S. Banashankari Arts, commerce.
& S.K. Gubbi. Science college
Vidyagiri Dharwad

For Supreme Solar Projects Pvt. Ltd.

Place : Dharwad.

Date : 25/3/21

Authorised Signatory

25/3/21

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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

70

SUPREME SOLAR WATER HEATER BILL

rudd Enterprises **INVOICE**

ar vidyaranya high school
Dharwad , karnatak , 580001
9845709478
sadanandsubedar@gmail.com
www.sambruddenterprises.in
29CPGPS2090H1Z1

611

Billing Address
The Principal
J S S Banashankari Arts. commerce andS K
Gubbi Science college vidyagiri
Dharwad

Shipping Address
The Principal

Invoice No.: INV1796
Invoice Date : 25/03/2021
Due Date : 17/04/2021

Name	Quantity	Price	Discount	Amount
supreme Solar water heater 300 Lpd SS	4	Rs 44,200.00	0.00	Rs 176,800.00
			Subtotal	Rs 176,800.00
			CGST (2.5%)	Rs 4,420.00
			SGST (2.5%)	Rs 4,420.00
			Total	Rs 185,640.00
			Paid Amount	Rs 0.00
			Balance Due	**Rs 185,640.00**

Pay Now
with PayPal

Comment / Payment Terms

payment within 15 days after 12% will charge on the total amountwarranty and gurrentee applicable as per company rules

solar heater heater
JSS college
Dhorwad
25/3/21

26/3/21

For SUMMRUDD ENTERPRISES

Proprietor

J.S.S. Banashankari Arts. Comm.
Vidyagiri
DHARWAD-4.
& S.K. Gubbi Science College

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

71

INVOICE

SAMSON SOLAR ENERGY

(H.O):#02, K.E.Board Complex, Navalagund Road, Shivaji Circle Dharwad-580008
(B.O):38th Cross, 22nd Main, Jayanagar 4th T-block, BENGALURU-5600041
Mob: 9916167190

Invoice Number : 167 **Date : 25/03/2021**
GSTIN : 29BCXPP1845E1Z1

Buyer's Name & Address :
M/S. THE PRINCIPLE, JSS BANASHANKARI ARTS & COMMERCE, S. K. Gubbi, science collage.
VIDYAGIRI,
DHARWAD-580001,
KARNATAKA

S.N	PARTICULARS	HSN Number	Qnty	Rate	Taxable Amt	GST %	CGST Amt	SGST Amt	Net Amount
1	SOLAR STREE LIGHTS 30WT WITH POLE	9405	5	27145.00	135725.00	5.00	3393.13	3393.13	142511.25
		Total	**5**		**135725.00**		**3393.13**	**3393.13**	**142511.25**
								Total Amount	**142511.00**

Rupees : ONE LAKHS FOURTY TWO THOUSAND FIVE HUNDRED ELEVEN Only

E & O.E GSTIN :

Customer Signature

Dispatched
Vehicle No:

Authorized Signatory
Samson Solar Energy

SAMSON SOLAR ENERGY FREE FOR LIFETIME

SAMSON SOLAR ENERGY
#02, K. E. Board Complex
Navalgund Road, Shivaji Circle
Dharwad - 580 001
GSTIN - 29BCXPP1845E1Z1

Bank Details:

Name: Samson Solar Energy
Bank Name: Punjab National Bank
Current A/C No: 22481012000431
IFSC Code: PUNB0224810
Branch: Gandhi Nagar Dharwad
PAN No: BCXPP1845E

Terms & Conditions:

1. Goods once sold will not be taken back.
2. The guaranty comes into effect from the date of installation.
3. Payment should be made by cash or cheque/DD,in the name of **SAMSON SOLAR ENERGY**
4. Please return a copy of invoice duly acknowledging receipt of all items with seal.
5. In case of visual damage, please do not accept the consignment from transporter.

J.S.S. Banashankari Arts, Commerce & Shantikumar Gubbi Science College Vidyagiri DHARWAD-4.

JSS Degree college
30/3/21

30/3/21

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.

JSS

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

ನ್ಯಾಕ್ ಸಂಸ್ಥೆಯಿಂದ 'A' ಗ್ರೇಡ್ ಪುನರ್‌ಮಾನ್ಯತೆ
ಯು.ಜಿ.ಸಿ. ಯಿಂದ 'CPE' ಮಾನ್ಯತೆ

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

Ref. No. JSSCD/

Date : 24.11.2021

Self Declaration

Installation of Solar panels and usage of Eco-Friendly LED bulbs in the Campus

Institution has a regular practice of using LED bulbs in place of old tungsten bulbs. Laboratory museums in departments of Botany and Zoology and all the auditoriums are installed with LED bulbs since 2016. They are well maintained and are used whenever necessary. The tungsten bulbs are replaced by eco-friendly LED bulbs to save electricity. Solar street lights and solar water heaters (solar panels) are installed as alternate source of energy to save electricity.

PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
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DHARWAD-580 004.

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DHARWAD-580 004.

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DHARWAD-4.

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

Environment Audit

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

ENVIRONMENTAL AUDIT

AIR QUALITY IN THE CAMPUS

*Values of pollutants in $\mu g/m^3$

AQI (Air Quality Index)	PM 2.5	PM 10	O3	NO2	SO2
27	6.6	24	7.6	17	3.5

NOTE: ALL VALUES ARE BELOW PERMISSIBLE LEVEL [CPCB STANDARDS]

Data provided by Central pollution control board, Karnataka State Pollution Control Board

AQI Category, Pollutants and Health Breakpoints

AQI Category (Range)	PM_{10} (24hr)	$PM_{2.5}$ (24hr)	NO_2 (24hr)	O_3 (8hr)	CO (8hr)	SO_2 (24hr)	NH_3 (24hr)	Pb (24hr)
Good (0-50)	0-50	0-30	0-40	0-50	0-1.0	0-40	0-200	0-0.5
Satisfactory (51-100)	51-100	31-60	41-80	51-100	1.1-2.0	41-80	201-400	0.5-1.0
Moderately polluted (101-200)	101-250	61-90	81-180	101-168	2.1-10	81-380	401-800	1.1-2.0
Poor (201-300)	251-350	91-120	181-280	169-208	10-17	381-800	801-1200	2.1-3.0
Very poor (301-400)	351-430	121-250	281-400	209-748	17-34	801-1600	1200-1800	3.1-3.5
Severe (401-500)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AVERAGE NOISE LEVEL IN THE CAMPUS AT DIFFERENT LOCATIONS

LOCATION	NOISE LEVEL (IN DECIBEL- dB)
Library	30-40
Department	35-45
Parking	55-65
A – Block	40-50
C - Block	35-40
Hostel	45
Main Road in the Campus	50

NOTE :Zone Permissible noise level standards

Area	Daytime (dB)	Night time (dB)
Industrial Zone	75	70
Commercial Zone	65	55
Residential Zone	55	45
Silent Zone	50	40

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

ASSESSMENT OF NOISE LEVEL AT DIFFERENT LOCATIONS IN THE CAMPUS



SOIL QUALITY (PARAMETERS AND CONCENTRATION)

Botany Garden

Sl No	Soil Quality Parameters	Value
01	pH	7.80
02	EC (mS/cm)	0.24
03	Organic carbon %	0.54
04	Nitrogen (kg/ha)	143.00
05	Phosphorus (kg/ha)	40.00
06	Potash (kg/ha)	144.30

Medicinal plant garden

Sl No	Soil Quality Parameters	Value
01	pH	6.70
02	EC (mS/cm)	0.21
03	Organic carbon %	1.92
04	Nitrogen (kg/ha)	165.00
05	Phosphorus (kg/ha)	30.00
06	Potash (kg/ha)	203.90

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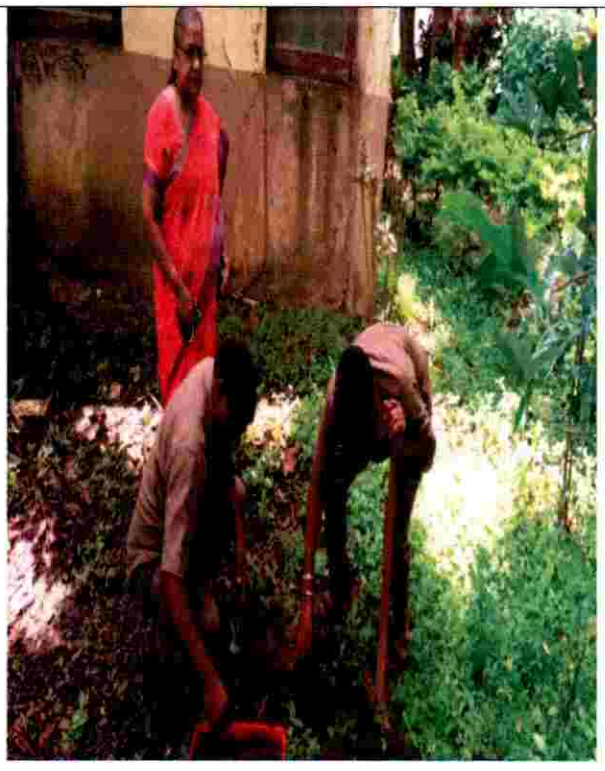
SOIL COLLECTION IN DIFFERENT LOCATION OF THE CAMPUS

JSS campus Play ground

JSS campus Hostel garden



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Play ground

Sl No	Soil Quality Parameters	Value
01	pH	7.20
02	EC(mS/cm)	0.36
03	Organic carbon %	2.91
04	Nitrogen (kg/ha)	132.00
05	Phosphorus (kg/ha)	10.00
06	Potash (kg/ha)	346.10

Ladies Hostel Garden

Sl No	Soil Quality Parameters	Value
01	pH	7.81
02	EC(mS/cm)	0.48
03	Organic carbon %	2.07
04	Nitrogen (kg/ha)	154.00
05	Phosphorus (kg/ha)	20.00
06	Potash (kg/ha)	398.10

Water Quality (PARAMETERS AND CONCENTRATION)

1. **Bore well water Sample**

Sl No	Water Quality Parameters	Normal Range	Value	Remarks
01	pH	6.0-8.0	7.04	Neutral
02	EC	<1.0	1.03	Normal
03	Sodium Residual Sodium Carbonate	<1.25	-5.80	Normal
04	Sodium Specific absorption Rate	<10.0	1.60	Normal
05	Irrigation Quality level			Good water

2. **RO water Sample**

Sl No	Water Quality Parameters	Normal Range	Value	Remarks
01	pH	6.0-8.0	7.05	Neutral
02	EC	<1.0	0.60	Normal
03	Sodium Residual Sodium Carbonate	<1.25	-4.60	Normal
04	Sodium Specific absorption Rate	<10.0	1.55	Normal
05	Irrigation Quality level			Good water

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RAIN WATER-HARVESTING:

Seize the water flow down the hillock in the rainy season is a great challenge to the administration. The rain water from the roof tops of the Chemistry labs is collected in the containers and used for washing the glass ware. The run off rain water is diverted in to the percolation pits in different corners in the campus to prevent soil erosion, to meet the water requirements partially and to increase the ground water level. The rain water is channelized towards bore wells to raise the ground water level. Water analysis of the bore well water shows the reduction of Total Dissolved Solids (TDS) as a proof for the increase in the water level. Frugal use of water has ensured constant supply of water for the stakeholders in the college.

PHOTOSSHOWING RAIN WATER-HARVESTINGFROM ROOF AND BUND

RAIN WATER DRAINAGE SYSTEM

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CONSTRUCTION OF RAIN WATER HARVESTING PIT




RAIN WATER COLLECTION FROM THE ROOF INTO THE TANKS FOR LABORTORY USAGE


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FLOWING OF RAIN WATER FROM ROOF AND QUADRANGLE TO THE RAIN WATER HARVESTING PIT

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49

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RAIN WATER FLOWING FROM SLOPES OF THE CAMPUS

RAIN WATER FLOWS TO GANDHINAGAR LAKE FROM SLOPES OF THE CAMPUS AND ENHANCES THE WATER TABLE.

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Maintenance of artificial Water tanks with hydrophytes in Botany garden

MAINTENANCE OF ARTIFICIAL WATER BODY WITHIN THE NURSERY

MAINTENANCE OF HYDROPHYTES

University of Agricultural Sciences,Dharwad
I.C.A.R Krishi Vigyana Kendra,Dharwad

E-mail : kvkdwd@uasd.in, kvk.Dharwad@icar.gov.in
website : www.kvkdharwad.org Telephone No : (0836) 2444272

भाकृअनुप
ICAR

Soil Test Report

General Information					
Sample No : DWR 15/9/2021	**District :** Dharwad	**Taluk :** Dharwad	**Gram Panchayat :**	**Village :** Dharwad	**Laboratory Sample ID :** 21/09/2021/01
Name :	J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad			**Cell :** 9108729955	
Hobli / RSK :				**Sample No : 1)** Botany Garden	

Sample Details			
Survey No :	**Type of Soil**	:	Red / Black / Others
Cultivation : Rainfed / Irrigated	**Depth of Soil**	:	Shallow/ Medium / Deep
Crop :	**Source of Irrigation**	:	Borewell / Openwell / Canara / River / Tank

Results of Soil Analysis

Soil Parameters	Value	Remarks		
Organic Carbon (%)	0.54	Low ☐	Medium ☑	High ☐
Primary Nutrients				
Availble Nitrogen (Kg/ha)	143.00	Low ☑	Medium ☐	High ☐
Availble Phosphorus (Kg/ha)	40.00	Low ☐	Medium ☐	High ☑
Availble Potash (Kg/ha)	144.30	Low ☐	Medium ☑	High ☐

This report is only for advisory Purpose not for legal purpose

Senior Technical Officer
I.C.A.R. Krishi Vigyan Kendra
U.A.S. Dharwad

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University of Agricultural Sciences,Dharwad

I.C.A.R Krishi Vigyana Kendra,Dharwad

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website : www.kvkdharwad.org Telephone No : (0836) 2444272

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Soil Test Report

General Information					
Sample No : DWR 15/9/2021	**District :** Dharwad	**Taluk :** Dharwad	**Gram Panchayat :**	**Village :** Dharwad	**Laboratory Sample ID :** 21/09/2021/02
Name :	J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad			**Cell :** 9108729955	
Hobli / RSK :				**Sample No : 2)** Medicinal Plant	

Sample Details			
Survey No :	**Type of Soil**	:	Red / Black / Others
Cultivation : Rainfed / Irrigated	**Depth of Soil**	:	Shallow/ Medium / Deep
Crop :	**Source of Irrigation**	:	Borewell / Openwell / Canara / River / Tank

Results of Soil Analysis

Soil Parameters	Value	Remarks		
Organic Carbon (%)	1.92	Low ☐	Medium ☐	High ☑
Primary Nutrients				
Availble Nitrogen (Kg/ha)	165.00	Low ☑	Medium ☐	High ☐
Availble Phosphorus (Kg/ha)	30.00	Low ☐	Medium ☐	High ☑
Availble Potash (Kg/ha)	203.90	Low ☐	Medium ☑	High ☐

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Senior Technical Officer
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65

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website : www.kvkdharwad.org Telephone No : (0836) 2444272

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Soil Test Report

General Information					
Sample No : DWR 15/9/2021	**District :** Dharwad	**Taluk :** Dharwad	**Gram Panchayat :**	**Village :** Dharwad	**Laboratory Sample ID :** 21/09/2021/03
Name :	J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad			**Cell :** 9108729955	
Hobli / RSK :				**Sample No : 3)** Play Ground	

Sample Details			
Survey No :	**Type of Soil**	:	Red / Black / Others
Cultivation : Rainfed / Irrigated	**Depth of Soil**	:	Shallow/ Medium / Deep
Crop :	**Source of Irrigation**	:	Borewell / Openwell / Canara / River / Tank

Results of Soil Analysis

Soil Parameters	Value	Remarks		
Organic Carbon (%)	2.91	Low ☐	Medium ☐	High ☑
Primary Nutrients				
Availble Nitrogen (Kg/ha)	132.00	Low ☑	Medium ☐	High ☐
Availble Phosphorus (Kg/ha)	10.00	Low ☑	Medium ☐	High ☐
Availble Potash (Kg/ha)	346.10	Low ☐	Medium ☐	High ☑

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66

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website : www.kvkdharwad.org Telephone No : (0836) 2444272

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Soil Test Report

General Information					
Sample No : DWR 15/9/2021	**District :** Dharwad	**Taluk :** Dharwad	**Gram Panchayat :**	**Village :** Dharwad	**Laboratory Sample ID :** 21/09/2021/04
Name :	J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad			**Cell :** 9108729955	
Hobli / RSK :				**Sample No: 4)** Ladies Hostel Garden	

Sample Details			
Survey No :	**Type of Soil**	:	Red / Black / Others
Cultivation : Rainfed / Irrigated	**Depth of Soil**	:	Shallow/ Medium / Deep
Crop :	**Source of Irrigation**	:	Borewell / Openwell / Canara / River / Tank

Results of Soil Analysis

Soil Parameters	Value	Remarks		
Organic Carbon (%)	2.07		Medium ☐	High ☑
Primary Nutrients				
Availble Nitrogen (Kg/ha)	154.00	Low ☑	Medium ☐	High ☐
Availble Phosphorus (Kg/ha)	20.00	Low ☐	Medium ☑	High ☐
Availble Potash (Kg/ha)	398.10	Low ☐	Medium ☐	High ☑

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Senior Technical Officer
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67

ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
ಐ.ಸಿ.ಎ.ಆರ್-ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಧಾರವಾಡ

ಮಿಂಚಂಚೆ : kvkdwd@uasd.in, kvk.Dharwad@icar.gov.in ಅಂತರ್ಜಾಲ : www.kvkdharwad.org

ದೂರವಾಣಿ ಸಂಖ್ಯೆ : (0836) 2444272

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ನೀರಾವರಿ ನೀರಿನ ಗುಣಮಟ್ಟದ ಫಲಿತಾಂಶ ವರದಿ

ಸಾಮಾನ್ಯ ಮಾಹಿತಿ :	ಪ್ರಯೋಗಾಲಯದ ಮಾದರಿ ಸಂಖ್ಯೆ : 21/09/2021/02
Name : J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad	ಗ್ರಾಮ : ಧಾರವಾಡ
ಹೋಬಳಿ / ರೈತ ಸಂಪರ್ಕ ಕೇಂದ್ರ :	ತಾಲ್ಲೂಕು : ಧಾರವಾಡ
ಜಮೀನಿನ ಸರ್ವೇ ನಂ. :	
ನೀರಾವರಿ ಮೂಲ : Rivers Osmosis	

ವಿಶ್ಲೇಷಣಾ ವರದಿ

	ಸಾಮಾನ್ಯ	ಪ್ರಮಾಣ	ಶರಾ
ರಸಸಾರ **(pH)**	6.0–8.0	7.05	ತಟಸ್ಥ
ಲವಣಾಂಶ **(EC)** (ಡೆಸಿ ಸೈಮನ್ಸ್ / ಮೀ.)	<1.0	0.60	ಸಾಮಾನ್ಯ
ಉಳಿಕೆಯ ಸೋಡಿಯಂ ಕಾರ್ಬೋನೇಟ್ **(RSC)** (ಮಿ.ಇ./ಲೀ.)	<1.25	–4.60	ಸಾಮಾನ್ಯ
ಸೋಡಿಯಂ ಮಂದಗಟ್ಟುವ ಪರಿಮಾಣ **(SAR)**	<10.0	1.55	ಸಾಮಾನ್ಯ
ನೀರಾವರಿ ಗುಣಮಟ್ಟದ ವರ್ಗ			ಉತ್ತಮ ನೀರು / ಮಧ್ಯಮ-ಸವಳು ನೀರು / ಸವಳು ನೀರು / ಹೆಚ್ಚು ಸವಳು / ಮಧ್ಯಮ ಕ್ಷಾರ ನೀರು / ಕ್ಷಾರ ನೀರು / ಹೆಚ್ಚು ಕ್ಷಾರ ನೀರು

ಸೂಚನೆ : ಈ ಪ್ರಮಾಣಪತ್ರ ಸಂಬಂಧಿಸಿದ ಸಲಹೆಗಾಗಿ ಮಾತ್ರ ಇನ್ನಿತರ ಯಾವುದೇ ಕಚೇರಿ ಹಾಗೂ ಕಾನೂನಾತ್ಮಕ ಕೆಲಸ ಕಾರ್ಯಗಳಿಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲ.

Senior Technical Officer
I.C.A.R. Krishi Vigyan Kendra
U.A.S. Dharwad

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68

ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
ಐ.ಸಿ.ಎ.ಆರ್–ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಧಾರವಾಡ

ಮಿಂಚಂಚೆ : kvkdwd@uasd.in, kvk.Dharwad@icar.gov.in ಅಂತರ್ಜಾಲ : www.kvkdharwad.org
ದೂರವಾಣಿ ಸಂಖ್ಯೆ : (0836) 2444272

ನೀರಾವರಿ ನೀರಿನ ಗುಣಮಟ್ಟದ ಫಲಿತಾಂಶ ವರದಿ

ಸಾಮಾನ್ಯ ಮಾಹಿತಿ :	ಪ್ರಯೋಗಾಲಯದ ಮಾದರಿ ಸಂಖ್ಯೆ : 21/09/2021/01
Name : J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad	ಗ್ರಾಮ : ಧಾರವಾಡ
ಹೋಬಳಿ / ರೈತ ಸಂಪರ್ಕ ಕೇಂದ್ರ :	ತಾಲ್ಲೂಕು : ಧಾರವಾಡ
ಜಮೀನಿನ ಸರ್ವೇ ನಂ. :	
ನೀರಾವರಿ ಮೂಲ : ಬೋರವೆಲ್ ನೀರು	

ವಿಶ್ಲೇಷಣಾ ವರದಿ

	ಸಾಮಾನ್ಯ	ಪ್ರಮಾಣ	ಶರಾ
ರಸಸಾರ **(pH)**	6.0–8.0	7.04	ತಟಸ್ಥ
ಲವಣಾಂಶ **(EC)** (ಡೆಸಿ ಸೈಮನ್ಸ್ / ಮೀ.)	<1.0	1.03	ಸಾಮಾನ್ಯ
ಉಳಿಕೆಯ ಸೋಡಿಯಂ ಕಾರ್ಬೋನೇಟ್ **(RSC)** (ಮಿ.ಇ./ಲೀ.)	<1.25	–5.80	ಸಾಮಾನ್ಯ
ಸೋಡಿಯಂ ಮಂದಗಟ್ಟುವ ಪರಿಮಾಣ **(SAR)**	<10.0	1.60	ಸಾಮಾನ್ಯ
ನೀರಾವರಿ ಗುಣಮಟ್ಟದ ವರ್ಗ			ಉತ್ತಮ ನೀರು / ಮಧ್ಯಮ–ಸವಳು ನೀರು / ಸವಳು ನೀರು / ಹೆಚ್ಚು ಸವಳು / ಮಧ್ಯಮ ಕ್ಷಾರ ನೀರು / ಕ್ಷಾರ ನೀರು / ಹೆಚ್ಚು ಕ್ಷಾರ ನೀರು

ಸೂಚನೆ : ಈ ಪ್ರಮಾಣಪತ್ರ ಸಂಬಂಧಿಸಿದ ಸಲಹೆಗಾಗಿ ಮಾತ್ರ ಇನ್ನಿತರ ಯಾವುದೇ ಕಚೇರಿ ಹಾಗೂ ಕಾನೂನಾತ್ಮಕ ಕೆಲಸ ಕಾರ್ಯಗಳಿಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲ.

Senior Technical Officer
I.C.A.R. Krishi Vigyan Kendra
U.A.S. Dharwad

J.S.S. Banashankari Arts, Comm & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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69

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

Clean and Green Campus Recognitions/Awards

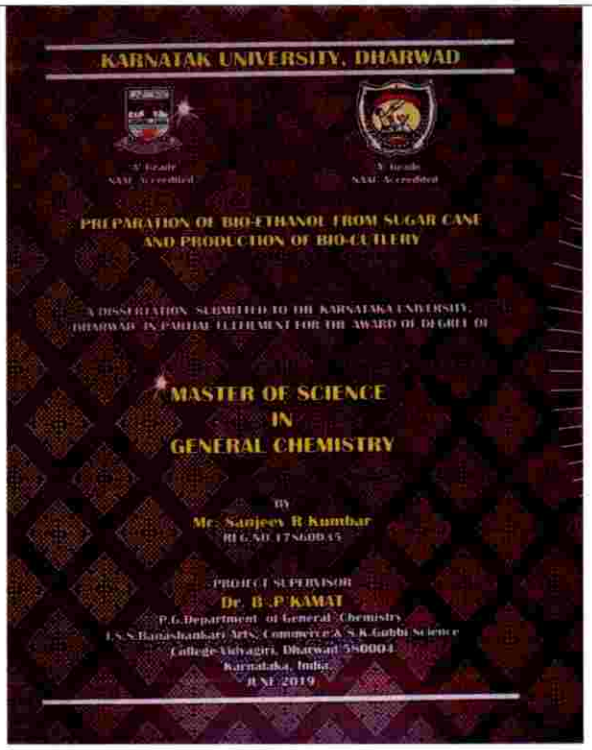
CLEAN AND GREENCAMPUS

The students are given strict instructions to maintain the campus clean and it is reflected in their handbooks. Several Quotes related to the importance of clean and green environment are displayed on the campus. Gardeners and full time adequate support staff are appointed for the maintenance of clean and Green Campus.

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. Students of PG Chemistry have collected, plastic waste found in campus 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 form tobacco buds, Neem products and analysis of milk.

STUDENTS HAVE CONDUCTED RESEARCH PROJECTS ON DIFFERENT TOPICS CONCERNING ENVIRONMENTAL IMPORTANCE AND GREEN CAMPUS INITIATIVE


KARNATAK UNIVERSITY, DHARWAD

PREPARATION OF BIO-ETHANOL FROM SUGAR CANE AND PRODUCTION OF BIO-CUTLERY

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

MASTER OF SCIENCE
IN
GENERAL CHEMISTRY

BY

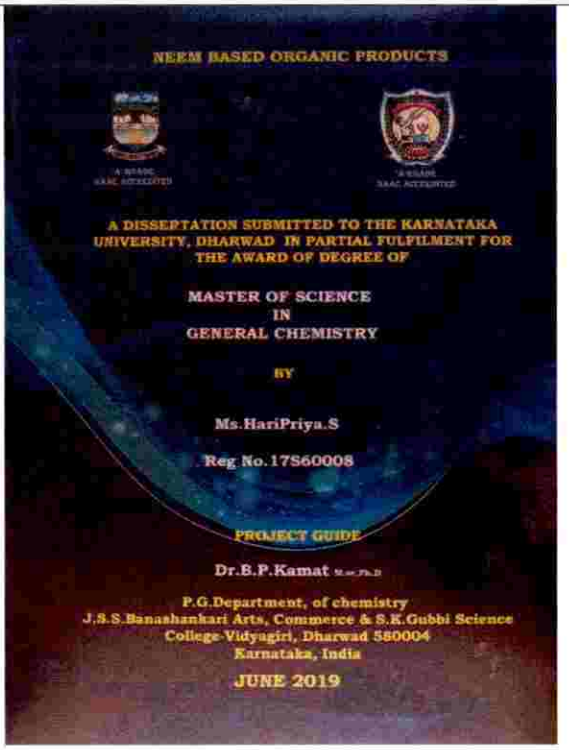
Mr. Sanjeev B Kumbar

PROJECT SUPERVISOR

Dr. B.P.KAMAT

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

JUNE 2019


NEEM BASED ORGANIC PRODUCTS

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

MASTER OF SCIENCE
IN
GENERAL CHEMISTRY

BY

Ms.HariPriya.S

Reg No.17S60008

PROJECT GUIDE

Dr.B.P.Kamat

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

JUNE 2019

J.S.S. Banashankari Arts, Comm. & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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

Preparation of Bioplastics and its Applications & Synthesis of Graphene Oxide

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

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

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

Department of General Chemistry
J.S.S.Banashankari Arts, Commerce and S.K.Gubbi Science College,Vidyariri 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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Waste Management:

'Plastic Free Zone Campaign' conducted has brought down the usage of disposable plastic goods to the minimum. Eradication of Parthenium plant is a regular activity of NSS and NCC to tackle health hazards in and out of the college.

Sources of hazardous waste generation:

- Laboratories of Chemistry, Bio-Technology, Zoology and Botany while doing experiments with glass ware.Categories of hazardous waste:
- Broken glass ware like test tubes, beakers, pipettes.
- Left over chemicals.
- Spilled chemicals.
- Used nutrient media in Bio-Technology lab.
- Semi-micro scale technique for some practical has been implemented in order to minimize the use of hazardous chemicals by the Chemistry department.
- The use of some hazardous chemicals like benzene, carbon tetra chloride, β-Nephthalamine etc. is replaced with safer chemical like ethanol, glycerol etc.

Waste Management System:

The system includes a standing operating procedure in a lab informed to the Lab assistants for management of hazardous materials in their labs. The standing operating procedure includes the precautions to be taken while receiving, storing, issuing, using the hazardous materials and the instructions with regard to waste minimization, labeling, responding to chemical spills and safety measures. The hazardous waste is collected carefully, stored in labeled containers and disposed to the municipal personnel timely.

• The institute prepares organic manure in the compost pits in the backyard of the college.

• The compost is prepared from grass and dry leaves of plants and the same is utilized for

maintenance of college garden.

Solid Waste Management System:

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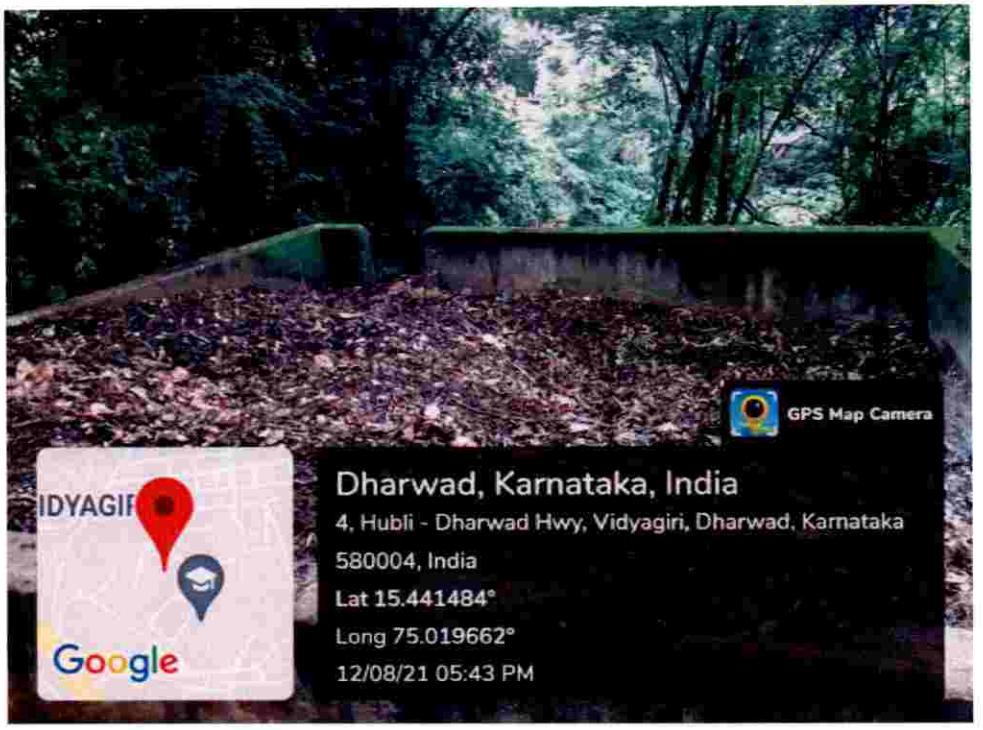

E-waste disposal and management

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 equipment of Printers and Scanners, within college campus.

Activities conducted in connection with E-waste:

- Student presentations
- UPS and batteries are recharged /repaired/exchangedby the suppliers
- Used computer systems and printers in good condition are given to school students, in every year regularly.
- Showing video clippings

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- 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.

E-waste	Donation of used computers to the students
	

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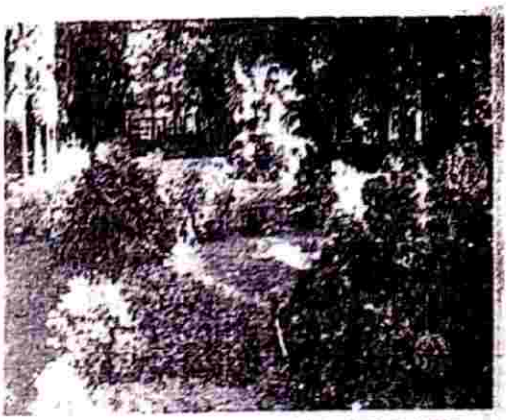
JSS BANASHANKARI ARTS COMMERCE AND SHANTI KUMAR GUBBI SCIENCE COLLEGE, DHARWAD

ಅವಳಿ ನಗರ ಫಲಮಷ್ಟ ಪ್ರದರ್ಶನ

ಉದ್ಯಾನವನಗಳ ಸ್ಪರ್ಧೆ ಫಲಿತಾಂಶ ಪ್ರಕಟ



GREEN CAMPUS AWARDS RECEIVED - 2016 ONWARDS

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College Vidyagiri DHARWAD-4.

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GREEN CAMPUS AWARDS RECEIVED - 2016 ONWARDS

J.S.S. Banashankari Arts, Commerce & Vidyagiri DHARWAD-4. & S.K. Gubbi Science College

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

GREEN CAMPUS AWARDS RECEIVED - 2016 ONWARDS


ಜಿಲ್ಲಾಡಳಿತ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ
ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ಧಾರವಾಡ
ಹುಬ್ಬಳ್ಳಿ-ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ
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ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18
ಪ್ರಶಸ್ತಿ ಪತ್ರ
ಶ್ರೀ / ಶ್ರೀಮತಿ / ಕುಮಾರಿ ಡಾ. ಜೆಜೆಎಮ್ ನರ್ಸಿಂಗ್ ಕಾಲೇಜು ಹುಬ್ಬಳ್ಳಿ ಶಿಕ್ಷಣ ಸಮಿತಿ. ಹಳೆಯ ಕೆಸಿಡಿ
ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ಉದ್ಯಾನ / ~~ಫಲ-ಪುಷ್ಪ~~ ಪ್ರದರ್ಶನ
ಪುಷ್ಪ ಕಾಡಿಸಿ
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ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18

ಪ್ರಶಸ್ತಿ ಪತ್ರ

ಶ್ರೀ / ~~ಶ್ರೀಮತಿ~~ / ~~ಕುಮಾರಿ~~ J.S.S. ಕಾಲೇಜ್ ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ

ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ~~ಉದ್ಯಾನ~~ / ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

ಕತ್ತರಿಸಿದ ಹೂಗಳು

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ~~ಚಾರಿಯನ್~~ / ~~ಪ್ರಥಮ~~ 2 / ~~ದ್ವಿತೀಯ~~ 2 ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ತೋಟಗಾರಿಕೆ ~~ಉಪ~~ ನಿರ್ದೇಶಕರು
ಮತ್ತು ~~ಉಪಾ~~ಧ್ಯಕ್ಷರು
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು
ಮತ್ತು ಅಧ್ಯಕ್ಷರು,
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

Vidyagiri DHARWAD & S.K. Gubbi Science Colle

PRINCIPAL

ಕರ್ನಾಟಕ ಸರಕಾರ

ಉದ್ಯಾನವನ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ

ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ,

ಹುಬ್ಬಳ್ಳಿ - ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕೃಷಿ ಇಲಾಖೆ ಮತ್ತು ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ, ಧಾರವಾಡ

ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

2018-19

ಪ್ರಶಸ್ತಿ ಪತ್ರ

~~ಶ್ರೀಮತಿ / ಶ್ರೀ~~ ಶ್ರೀ. ಶಾಂತಿಕುಮಾರ ಗುಬ್ಬಿ J.S.S. ಧಾರವಾಡ

ದಿನಾಂಕ 2018 ಅಕ್ಟೋಬರ ನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ಉದ್ಯಾನ / ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

ಅನೇಕ ಸಂಸ್ಥೆ ಒಳ್ಳೆ ಉದ್ಯಾನ ನಿರ್ವಹಣೆ

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ಚಾಂಪಿಯನ್ / ಪ್ರಥಮ / ದ್ವಿತೀಯ ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ಹಿರಿಯ ಸಹಾಯಕ ತೋಟಗಾರಿಕೆ ನಿರ್ದೇಶಕರು,
(ರಾಜ್ಯ ಪಲಟನ) ಧಾರವಾಡ.

ತೋಟಗಾರಿಕೆ ಉಪ ನಿರ್ದೇಶಕರು,
(ಜಿಲ್ಲಾ ಪಂಚಾಯತ) ಧಾರವಾಡ.

DHARWAD
& S.K. Gubbi Science College

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

ಜಿಲ್ಲಾಡಳಿತ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ
ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ಧಾರವಾಡ
ಹುಬ್ಬಳ್ಳಿ-ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೃಷಿ ಇಲಾಖೆ ಮತ್ತು ಉದ್ಯಾನ ಹಾಗೂ ಫಲಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ, ಧಾರವಾಡ

ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18

ಪ್ರಶಸ್ತಿ ಪತ್ರ

ಶ್ರೀ / ಶ್ರೀಮತಿ / ಕುಮಾರಿ ಜೆ.ಎಸ್.ಎಸ್. ಕಾಲೇಜು, ಜಿ.ಬಿ. ಕಛೇರಿ ವಿದ್ಯಾಗಿರಿ ಧಾರವಾಡ

ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ಉದ್ಯಾನ / ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

ಹಣ್ಣು ಮತ್ತು ತರಕಾರಿ ವಿಭಾಗ

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ಚಾಂಪಿಯನ್ / ಪ್ರಥಮ / ~~ದ್ವಿತೀಯ~~ 3 ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ತೋಟಗಾರಿಕೆ ಉಪನಿರ್ದೇಶಕರು
ಮತ್ತು ಉಪಾಧ್ಯಕ್ಷರು
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು
ಮತ್ತು ಅಧ್ಯಕ್ಷರು,
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

Vidyagiri
DHARWAD-4
J.S.S. & S.K. Gubbi Science College

PRINCIPAL
J.S.S. Banashankari Arts, Commerce & Shantikumar Gubbi Science College

79

ಜಿಲ್ಲಾಡಳಿತ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ
ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ಧಾರವಾಡ
ಹುಬ್ಬಳ್ಳಿ-ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೃಷಿ ಇಲಾಖೆ ಮತ್ತು ಉದ್ಯಾನ ಹಾಗೂ ಫಲಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ, ಧಾರವಾಡ

ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College Vidyagiri DHARWAD-

ಪ್ರಶಸ್ತಿ ಪತ್ರ

ಶ್ರೀ / ಶ್ರೀಮತಿ / ~~ಕುಮಾರಿ~~ J.S.S. MBA ಕಾಲೇಜ್ ವಿದ್ಯಾಗಿರಿ ಧಾರವಾಡ

ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ~~ಉದ್ಯಾನ~~ / ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

ಕತ್ತರಿಸಿದ ಹೂಗಳು

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ~~ಚಾಂಪಿಯನ್~~ / ಪ್ರಥಮ / ~~ದ್ವಿತೀಯ~~ ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ತೋಟಗಾರಿಕೆ ~~ಸಹಾಯಕ~~ ನಿರ್ದೇಶಕರು
ಮತ್ತು ~~ಉಪಾಧ್ಯಕ್ಷರು~~
ಉದ್ಯಾನ ಹಾಗೂ ~~ಫಲ-ಪುಷ್ಪ~~ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು
ಮತ್ತು ಅಧ್ಯಕ್ಷರು,
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

PRINCIPAL
J.S.S. Banashankari Arts, Commerce & Shantikumar Gubbi Science College

ಜಿಲ್ಲಾಡಳಿತ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ
ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ಧಾರವಾಡ
ಹುಬ್ಬಳ್ಳಿ-ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೃಷಿ ಇಲಾಖೆ ಮತ್ತು ಉದ್ಯಾನ ಹಾಗೂ ಫಲಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ, ಧಾರವಾಡ

ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18

ಪ್ರಶಸ್ತಿ ಪತ್ರ

ಶ್ರೀ / ~~ಶ್ರೀಮತಿ~~ / ಕುಮಾರಿ ಡಾ. ವಜ್ರಕುಮಾರ ಶಾಂತಿಕುಮಾರ ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಶಿಕ್ಷಣ ಸಮಿತಿ. ಬನಶಂಕರಿ ಕಚೇರಿ
ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ಉದ್ಯಾನ / ~~ಫಲ-ಪುಷ್ಪ~~ ಪ್ರದರ್ಶನ

ಪುಷ್ಪ ಪ್ರಾಣಿ

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ~~ಚಾಂಪಿಯನ್~~ / ~~ಪ್ರಥಮ~~ / ~~ದ್ವಿತೀಯ~~ ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ತೋಟಗಾರಿಕೆ ಉಪನಿರ್ದೇಶಕರು
ಮತ್ತು ಉಪಾಧ್ಯಕ್ಷರು
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು
ಮತ್ತು ಅಧ್ಯಕ್ಷರು,
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

Vidyagiri
DHARWAD
S.S.K. Gubbi Science College

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

81

ಜಿಲ್ಲಾಡಳಿತ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ
ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ಧಾರವಾಡ
ಹುಬ್ಬಳ್ಳಿ-ಧಾರವಾಡ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೃಷಿ ಇಲಾಖೆ ಮತ್ತು ಉದ್ಯಾನ ಹಾಗೂ ಫಲಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ, ಧಾರವಾಡ

ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ

ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ
2017-18

J.S.S. Banashankari Arts, Com. Vidyagiri DHARWAD & S.K. Gubbi Science College

ಪ್ರಶಸ್ತಿ ಪತ್ರ

ಶ್ರೀ / ಶ್ರೀಮತಿ / ಕುಮಾರಿ ಜೆ.ಎಸ್.ಎಸ್. ಕಾಲೇಜು, ವಿದ್ಯಾಗಿರಿ ಧಾರವಾಡ
ಎಂ.ಬಿ.ಎ. ಕಾಲೇಜು

ರವರು 2017 ಅಕ್ಟೋಬರನಲ್ಲಿ ಏರ್ಪಡಿಸಿದ ಉದ್ಯಾನ / ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ

ಹಣ್ಣು ಮತ್ತು ತರಕಾರಿ ವಿಭಾಗ

ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಿ ಚಾಂಪಿಯನ್ / ಪ್ರಥಮ (1) / ದ್ವಿತೀಯ (2) ಸ್ಥಾನ ಪಡೆದಿದ್ದಾರೆ.

ತೋಟಗಾರಿಕೆ ಉಪನಿರ್ದೇಶಕರು
ಮತ್ತು ಉಪಾಧ್ಯಕ್ಷರು
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ-ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು
ಮತ್ತು ಅಧ್ಯಕ್ಷರು,
ಉದ್ಯಾನ ಹಾಗೂ ಫಲ - ಪುಷ್ಪ ಪ್ರದರ್ಶನ ಸಮಿತಿ
ಧಾರವಾಡ

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DHARWAD-580 004

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

Environment Audit

Report on Environmental Promotional Activities

Institution has planned and implemented quality audit on environment and energy. The initiative has been opted to save electricity and green campus maintenance. Plantation programmes are regularly conducted by NSS, NCC and Department of Botany to increase green cover within the campus. Installation of Bee box and maintenance of the vermicompost pit including the leaf litter management has been carried out in the college campus as the green campus initiative. Environment and biodiversity awareness programmes are regularly organized by institute wherein students are taken to the high schools and Junior colleges to share the biodiversity knowledge and the present need for its conservation. Students are allotted with the different project programs that are mainly inclusive of survey and evaluation of flora and fauna in the campus which fall under the academic curriculum for the students of Bachelor of Science with the combinations of Botany and Zoology.

Rainwater harvesting pit is under use to minimize the institutional usage of water. Institution received many awards every year during competitions conducted by Horticulture Department in Association with Hubli-Dharwad Corporation for maintenance of green campus and green cover.

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NATIONAL SERVICE SCHEME

PLASTIC FREE PROGRAMMES 2017-20

Our NSS unit organized plastic free area programme in Association with NSS Cell Karnatak University Dharwad, Gram panchayat of Karadigudda, Hebballi, Uppin Betageri, Marewad and Rajeev Gandhi Nagar(Slum Area).

Year	2017-18	2018-19	2019-20	Total
No. Of Programmes organized	05	06	05	16

Organized Plastic Free Jata at Hubli-Dharwad

Organized Plastic Free Jata at Hubli-Dharwad

Organized Plastic Free Jata at Kardigudda Village

Organized Plastic Free Jata at Amminabhavi Village

Organized Plastic Free Jata at Marevad Village

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BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES

Plantation:

Plantation programme is one of the priorities of the college as the green plants promote healthy environment in the campus which in turn is responsible for healthy minds. The greenery of the campus is taken care of by an experienced horticulturist throughout the year. A contingent of 10 gardeners works under his guidance for regular maintenance of all flora and fauna in the institution.

- Preparation of schedule for plantation during rainy season.
- Procurement of saplings from the department of Forest.
- Involvement of volunteers of NSS/ NCC/Eco-club.
- The campus has a large number of trees. Every year a good number of plants/saplings are planted in the campus.
- The institution has a practice of collecting dried leaves and decomposing them in composite pits and then using it as manure for the trees.
- Department of Botany maintains a garden of medicinal plants and nursery.
- Green house to grow endangered plants and rare orchids & shade loving plants
- Botanical garden with exotic and endangered species.
- Formation of plant protection groups.

MAINTENANCE OF GARDEN BY TEAM OF GARDENERS

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

TREE PLANTATION BY NSS

NSS Volunteers and NSS Programme officer Participated in Tree Plantation Programme at College campus and beyond campus (Adopted village Kardigudda)

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College Vidyagiri DHARWAD

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DHARWAD-580 004

Plantation by NSS students

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College
Vidyagiri
DHARWAD-4.

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DHARWAD-580 004

PLANTATION PROGRAMME 2017-2020

NSS Unit of J.S.S. Banashankari Arts, Commerce and Shanti kumar Gubbi Science College, Dharwad organized plantation programme in association with Hubballi– Dharwad Muncipal Corporation , Gram panchayat Karadigudda,Vasundara Foundations Hubli and different of locations of Hubli Dharwad.

Year	2017-18	2018-19	2019-20	Total
No. Of programs organized	10	12	15	37
No. Of Saplings planted	450	500	800	1170

Plants were sapled in the Yalakki shettar colony, Gandhinagar park in association with H-D Municipal Corporation during the year 2017-2018

200 Plants were sapled in the in the college campus 17-18

250 Plants were sapled in the adopted village karadigudda in association with Gram Panchayat during the year2018-19

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DHARWAD-580 004.

NATIONAL SERVICE SCHEME

Inaugurated plantation programme by Dr.Ajit Prasad Finance officer JSS.400 Plants were Planted in the college campus during the year 2018-2019

400 Plants were sapled in the adopted village karadigudda in association with Taluka Panchayat Dharwad and Gram Panchayat karadigudda during the year2019-20


ಸಸಿ ಬೆಳೆಸಿ ಪರಿಸರ ಉಳಿಸಿ


ಗಿಡಗಳನ್ನು ಬೆಳೆಸಿ ಪರಿಸರ ಉಳಿಸಿ

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