S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

This is to Certify that following is the list showing the Collaboration/Linkage for Faculty Exchange, Student Exchange, Internship, Field trip, On-the Job Training, Research, etc., during the year 2021-22

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Ref. No. : ..... Date : .....

3.4.1-Collaborations / linkage for faculty exchange, Student exchange, internship, field trip, on-the-job training, research, etc during the year 2021-22.

Collaboration/Linkage

Sl. No.	Title of the Activity	Department
1	Collaboration for Research Activity	Botany
2	Collaboration for Dairy Farming and Composting	Botany
3	Visit to Bio-Technology Laboratory-Basaveshwara Science College-Bagalkot	Botany
4	Field Visit -Visit to Organic Farm-Parappa Master Savayava Krushi Vidyapeetham,Basarkod-District Vijayapura	Chemistry
5	Field Visit -Visit to APMC-Muddebihal	Economics
6	Field Visit -Study of Monuments etc.,-Kuntoji,Saroor,Kolur-District-Vijayapura	History
7	Field Visit -Visit to Solar Plant,Yaragal-District-Vijayapura	Economics
8	Field Visit -Visit to Neem Oil plant-Muddebihal	Economics
9	Field Visit -Visit to Pomegranate Crop -Muddebihal	Economics
10	Industrial Visit -Visit to Factory-Dal Factory-Muddebihal	Commerce
11	Field Visit -Visit to Horticulture Department-Almatti Damsite-Almatti	Botany
12	Study Tour -Visit to Almatti Damsite	Botany
13	Industrial Visit -Visit to Balaji Sugar Factory-Yargal	Botany
14	Field Visit-Amulya Financial Centre-Muddebihal	Commerce

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Ref. No. : ..... Date : .....

3.4 Collaboration

3.4.1 Number of collaborations/linkages by institutions for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the year 2021-22

Sl. No.	Title of the collaborative Activity	Name of the Collaborating/Linking Agency with Contact Details	Name of the Participant	Year of Collaboration	Duration
1	Collaboration for Research Activity	1. S.V Gurumath Associate Professor, MGVC Arts Commerce & Science College, Muddebihal and 2. Dr.N.M Rolli Associate Professor , BLDEA'S Arts, Commerce & Science College, Jamakhandi, District- Bagalkot, Contact No.9448896839	1. S.V Gurumath Associate Professor, MGVC Arts Commerce & Science College, Muddebihal and 2. Dr.N.M Rolli Associate Professor, BLDEA'S Arts, Commerce & Science College, Jamakhandi, District- Bagalkot	16-01-2020	03 Years
2	Collaboration for Dairy Farming and Composting	1. MGVC Arts Commerce & Science College, Muddebihal, District Vijayapura Department of Botany and 2.Parappa Master Savayava Krushi Vidyapeeth, Basarkod, Taluk Muddebihal, District Vijayapura, Contact No.9449191009	B.Sc. I Semester Botany Students	05-02-2021	03 Years
3	Visit to Bio-Technology Laboratory	Basaveshwara Science College, District Bagalkot	B.Sc.VI Semester Students and Faculty Botany Department	2021-22	1 Day

4	Visit to Organic Farm Field Visit	Parappa Master Savayava Krushi Vidyapeetham, Basarkod District Vijayapura	B.Sc.VI Semester Students and Faculty Chemistry Department	2021-22	1 Day
5	Visit to APMC Field Visit	APMC, Muddebihal District Vijayapura	B.A Students and Faculty Economics Department	2021-22	1 Day
6	Study of Monuments etc., Field Visit	Kuntoji/Saroor/Kolur District Vijayapura	B.A VI Semester Students and Faculty History Department	2021-22	1 Day
7	Visit to Solar Plant Field Visit	Solar Plant Yaragal Taluk-Muddebihal, District Vijayapura	B.A Students and Faculty Economics Department	2021-22	1 Day
8	Visit to Neem Oil Plant Field Visit	Neem Oil Plant, Muddebihal District Vijayapura	B.A Students and Faculty Economics Department	2021-22	1 Day
9	Visit to Pomegranate Crop Field Visit	Pomegranate Crop, Muddebihal, District Vijayapura	B.A Students and Faculty Economics Department	2021-22	1 Day
10	Visit to Factory Industrial Visit	Dal Factory, Muddebihal District Vijayapura	B.Com VI Semester Students and Faculty Commerce Department	2021-22	1 Day
11	Visit to Horticulture Dept., Field Visit	Horticulture Dept. Almatti Dam site, Almatti District Vijayapura	B.Sc. V Semester Students and Faculty Botany Department	2021-22	1 Day
12	Visit to Almatti Dam site Study Tour	Almatti Dam site, Almatti, District Vijayapura	B.Sc. V Semester Students and Faculty Botany Department	2021-22	1 Day
13	Visit to Balaji Sugar Factory Industrial Visit	Shri Balaji Sugars & Chemicals Pvt. Ltd. Yaragal District Vijayapura	B.Sc. V Semester Students and Faculty Botany Department	2021-22	1 Day
14	Visit to Amulya Financial Centre Field Visit	Amulya Financial Centre, Muddebihal, District Vijayapur	B.Com Students and Faculty Commerce Department	2021-22	1 Day

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Ref. No. : .....

Date : 16.1.2020

COLLABORATION

M.G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL DIST BIJAPUR
(DEPT OF BOTANY)

AND

BLDEA's ARTS, COMMERCE AND SCIENCE DEGREE COLLEGE JAMKHANDI

(DEPT OF BOTANY)

M.G.V.C.Arts,Commerce and Science College Muddebihal (Prof: S.V.Gurumath Associate Professor Department of Botany) and BLDEA's Arts,Commerce and Science College Jamkhandi (Dr. N.M.Rolli Associate Professor Department of Botany) wish to initiate collaboration in research and in other disciplines.

The main objective is to foster collaboration, exchange of information on research learning materials and other literature relevant to the educational and research programmes.

Pro f: S.V.Gurumath

Associate Professor

Department of Botany

Dr. N.M.Rolli

Associate Professor

Department of Botany

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

ಬಿ.ಎಲ್.ಡಿ.ಇ. ಸಂಸ್ಥೆಯ
ವಾಣಿಜ್ಯ, ಬಿ. ಎಚ್. ಎಸ್. ಕಲೆ ಮತ್ತು ಟಿ. ಜಿ. ಪಿ. ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ,
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(ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಶಾಶ್ವತ ಸಂಯೋಜನೆ ಹೊಂದಿದೆ)
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B.L.D.E.Association's
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Dist. Bagalkot (Permanently affiliated to Rani Channamma University,Belagavi) Karnataka State
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Collaboration

BLDEA's Arts, Commerce and Science Degree College, Jamakhandi
(Dept of Botany)
And
M.G.V.C Arts, Commerce and Science College, Muddebihal
(Dept of Botany)

BLDEA's Arts, Commerce and Science Degree College, Jamakhandi (Prof. N.M. Rolli Associate Professor Department of Botany) and M.G.V.C Arts, Commerce and Science College, Muddebihal

(Dept of Botany)wish to initiate collaboration in research and in other disciplines.

The main objective is to foster collaboration, exchange of information on research learning materials and other literature relevant to the educational and research programmes.

Principal
PRINCIPAL
B.L.D.E. Association's
Commerce, BHS Arts & TGP Science Colle
JAMKHANDI-587301.

S. G. V. C. Vidya Prasarak Trust's,
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Ref. No. : ..... Date : .....

COLLABORATION

The collaboration is for research activity: Normally at college level, faculty require support of another institution where active research is being carried out. Against this backdrop, our faculty S.V. Gurumath, Department of Botany has formal agreement with Dr N M Rolli, Associate Professor BLDEA'S Arts, Commerce and Science College, Jamakhandi wish to initiate collaboration in research and other disciplines.

The main objective is to foster collaboration, exchange of information on research learning materials and other literature relevant to the educational and research programmes

Sl. No.	Author(s)	Title	Name of the Journal	Volume	Page Year
1	S.V.Gurumath, N.M.Rolli, Chanvan R R, Anantpur A.S. and Taranath.T. C	Heavy Metal Accumulation in Vegetables cultivated in agricultural soil irrigated with sewage and its Impact on Health	International Journal of Recent Scientific Research	Vol.11,Issue,04(C)	pp.38144-38150,April,2020
2	N M Rolli , S V Gurumath, M K Ganachari, B D Patil and S B Gadi	Zinc (Zn) accumulation and its Toxicity effects on Salvinia molesta Mitchell and Spriodela polyrhiza(L.)Schleid	A Web of Science Journal	Vol.2(1)	277-288 (2021)

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web: www.biology-journal.org

ISSN: 0970-2

A web of Science Journal

Special Volume 2(1) : 2021

Indian Journal of Applied & Pure Biology

Academic Key words Impact Factor (2012) 3.0; Rated Journal 1.05

An International Research Journal of Biological Science

Papers based on 2 Day National e-Conference On Biodiversity Building and Natural Resource Management (NC BBNRM - 2021)

Date of Conference : 22nd & 23rd December, 2021

Date of Publication : 31st December, 2021

Abstracted & Indexed by Various National and International Agencies

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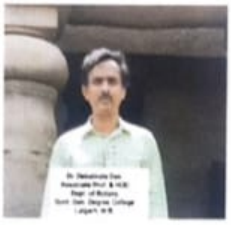

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Indian J. Applied & Pure Bio. Special Vol. 2(1): 277-288 (2021). **ISSN: 0970-2091**
National e-Conference on Biodiversity Building and Natural Resource Management (NC BBNRM) Date: 22nd-23rd, December, 2021 **A web of Science Journal**

Zinc (Zn) accumulation and its Toxicity effect on *Salvinia molesta* Mitchell and *Spirodela polyrhiza* (L.) Schleid

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Abstract

Due to increasing awareness of toxic heavy metals contamination to the environment, studies of metal accumulation from the view point of metal removal from the contaminated water have been performed. The use of biological systems for removing metals from metal solution has the potential to achieve greater performance at lower cost. This is an emerging biological application based on 'Green Liver Concept' and operates on the principles of biogeochemical cycling.

The present study focuses on zinc toxicity on morphology and some biochemical parameters of *Salvinia molesta* Mitchell and *Spirodela polyrhiza* (L.) Schleid. The laboratory experiments were conducted for the assessment of morphological index parameters (MIP), biochemical parameters and metal (Zn) accumulation profile in test plants at various concentrations (viz. 5,10, 20, 30 and 40 ppm *Salvinia* and *Spirodela* at regular interval for 12 days. *Salvinia* and *Spirodela* shows visible symptoms like withering of roots, chlorosis and necrosis at higher concentration. With respect to *Spirodela* at higher concentration the lower surface of leaf turns pink to whitish. However, the test plants showed normal growth at lower concentration (5.0 ppm). The estimation of biochemical parameters *i.e* total chlorophyll, protein and carbohydrate of test plants showed a significant increase at lower concentration (5

ppm) of zinc and showed significant decrease with increase in exposure concentration and duration. Metal accumulation by test plants was maximum at 4 days exposure duration and marginal at subsequent concentrations and exposure duration. With respect to biochemical parameters the concentrations are significant. However, metal accumulation is significant at different concentrations and exposure duration.

Heavy metal pollution is a major environmental problem facing the modern world[8,36]. The global heavy metal pollution is increasing in the environment due to increase of human activities. However, it is gaining importance day by day due to its obvious effect on human health through the food chain[18]. Due to the increasing awareness of toxic heavy metals contamination to the environment, studies of metal accumulation from the view point of metal removal from the contaminated water have been performed[4,6]. Conventional methods including precipitation, oxidation, reduction, ion exchange, filtration, electrochemical treatment, membrane technologies and evaporation recovery are expensive or ineffective[33]. The use of biological systems for removing metals from low metal solution (1 to 100 mg/g) has the potential to achieve greater performance at lower cost.

Aquatic plants and / or algae are known to accumulate metals and other toxic elements from contaminated water[34]. The bio-removal process using aquatic plants often exhibits two staged uptake process: on initial fast, reversible, metal binding process (biosorption) followed by a slow, irreversible, ion sequestration step (bioaccumulation). The initial metal biosorption by different parts of cells can occur via complexation coordination, chelation of metals, ion exchange, adsorption and micro precipitation. The bioaccumulation process is an active mode of metal accumulation by living cells[4,22]. This process is dependent on the metabolic activities of the cell, which inturn can be affected by the presence of metallic ions[33]. The accumulation of metals at higher concentration causes retardation of growth, biochemical activities and also generation of –SH groups containing enzymes.

The main goal of this study was to determine the performance of the test plants i.e *Salvinia molesta* and *Spirodela polyrhiza* to the different concentrations of Zinc (Zn) on morphology, biochemical constituents and accumulation of metal profile from the experimental pond under laboratory conditions.

Salvinia and *Spirodela*, free floating aquatic plants for unpolluted water bodies is maintained in a cement pots (1 meter diameter) under conditions at a temperature 28-30°C. About 20 g of young healthy *Salvinia* and *Spirodela* were acclimatized for two weeks in Arnon and Hoagland nutrient solution maintaining pH between 7.1-7.4. The concentrations of Zinc in the polluted water are in the range of 5, 10, 20, 30 and 40.0 mg/l and tap water as a control. Morphological Index Parameters (MIP) viz, root length, leaf length and breadth were observed for 12 days at interval of 4 days. Photographs of *Salvinia* and *Spirodela* which were taken by using

Canon's Power Shot G_2 digital camera were treated with different concentrations of zinc. For the further study the plants were harvested at the end of 4, 8 and 12 days exposure and are thoroughly washed with distilled water and used for the estimation of total chlorophyll, protein and carbohydrate and also for morphological observations. Plants harvested after 48 hrs were dried at 80^0C for 2 days for metal extraction.

The fresh test plant samples of 1 g is macerated in 100 ml of 80% (v/v) chilled acetone by using pestle and mortar. The centrifuged and supernatant was used for the estimation of total chlorophyll by standard Arnon method using 652 nm against the solvent (80% acetone as a blank)[12]. The protein was estimated by Lowry's method[7] using Bovine Serum Albumin (BSA) as a standard, using 660 nm and carbohydrates by phenol sulphuric acid method (Dubois) using glucose as standard at 490 nm[1]. Morphological characters were identified with the help of photographs, using Canon's Power Shot G_2 digital camera.

The estimation of metal Zn in the test plant was carried out by using standard method[23]. The dried and powdered 1 g plant material was digested by using mixed acid digestion method in Gerhardt digestion unit. The digested samples were diluted with double distilled water and filtered through Whatman filter paper No. 44. The estimation of Zn was done by atomic absorption spectrophotometer (AAS) (GBC 932 Plus Austrelia) with air acetylene oxidizing flame and metal hollow cathode lamp at 217.00 nm wavelength. Working standards (SISCOP-CHEM-Bombay Lab) were used for the calibration of instrument.

Statistical Analysis :

Data are presented as mean values ± SE from two independent experiments with three replicates each. Data were subjected to Two – way ANOVA to know significance between concentrations and between exposure duration for the accumulation of heavy metal, (Zn). Further, Dunet's test is also applied for multiple comparisons between control and other concentrations. Two – way ANOVA test also extended to know the significance between concentration and duration for biochemical parameters.

Toxic effect of Zinc on morphology :

The test plant showed luxuriant growth, shows increase in the lamina and breadth at low concentration (5.0ppm) in both test plants. In *Salvinia* at (5.0 ppm) of zinc was found to promote the laminal length by 1.48 ± 0.020 cm, 1.5 ± 0.04 cm, 1.666 ± 0.14cm and breadth by 1.6 ± 0.169cm, 1.666 ± 0.14cm and 1.7 ± 0.027cm at 4, 8 and 12 days exposure duration. Similarly root length by 2.61 ± 0.216 cm, 2.2 ± 0.205 cm and 2.4 ± 0.216 cm. In *Spirodela* at the lower concentration (5.0 ppm) showed increase in laminal length by 0.866 ± 0.027 cm, 1.0 ± 0.01cm and 1.1 ± 0.072cm and breadth by 0.633 ± 0.072 cm, 0.666 ± 0.054 cm and 0.766 ± 0.054 cm at 4, 8 and 12 days exposure duration respectively. Similarly the root length by 2.766 ± 0.144cm, 2.866 ± 0.165cm and 3.0 ± 0.216cm at 4, 8 and 12 days exposure duration respectively.

Morphometric assay is one of the quantitative tool for the assessment of toxicants measured by using Morphological Index Parameter (MIP). The rate of inhibition in the root and leaf (Fronds) is directly proportional to the concentration of zinc and in both test plants. Two way ANOVA test states that the concentrations are significantly toxic at 5% level but duration is not significant. MCA test also represents maximum deviation is at higher concentration compared to control. Both the test plants showed normal growth at their respective lower concentration (5.0 ppm).

However, in *Salvinia* at 40 ppm concentration shows severe inhibition of laminal length by 1.1 ± 0.081 cm, 1.033 ± 0.072cm and 0.933 ± 0.081cm and laminal breadth by 1.0 ± 0.08 cm, 0.966 ± 0.072 cm and 0.911 ± 0.081 cm at 4, 8 and 12 days exposure duration. Similarly the root length inhibition was noticed to 0.933 ± 0.222 cm, 0.9 ± 0.047 cm and 0.8 ± 0.216 cm at 4, 8 and 12 days exposure duration respectively. Similarly, in *Spirodela* also at 40 ppm concentration shows severe inhibition of laminal length by 0.600 ± 0.047 cm, 0.533 ± 0.027 cm and 0.366 ± 0.027 cm and laminal breadth by 0.60 ± 0.047 cm, 0.466 ± 0.027 cm and 0.311 ± 0.027 cm at 4, 8 and 12 days exposure duration. Similarly the test plant (*Spirodela*) also exhibited root inhibition by 1.566 ± 0.098 cm, 1.10 ± 0.047 cm and 0.80 ± 0.216 cm at 4, 8 and 12 days exposure duration (Tables-1 and 2).

The higher concentration of Zn (10 ppm to 40 ppm) exhibited toxicity symptoms like chlorosis, fall of leaves were observed about particularly after 8 days to 12 days exposure brownish marks were observed in *Salvinia*, however, in *Spirodela* the plants have lost their roots, leaves turned green to yellow on the upper surface, lower pink colour tends to creamy white in colour. Our results of toxicity symptoms of Zn at higher concentrations observed and were similar to Saygideger[20]. Sobero confirmed elongation of root in some members of Lemnaceae at different concentration of Zn[14].

Toxicity effect of Zn on Biochemical parameters :

The chlorophyll content was very sensitive to heavy metal toxicity. The results found that at 5 ppm of Zn is found to augment chlorophyll synthesis and was directly proportional to the concentration and exposure duration in both test plants. The chlorophyll of *Salvinia* increased by 3.08% (0.701 mg/g), 4.62% (0.724 mg/g) and 5.22% (0.725 mg/g) respectively at 4, 8 and 12 days exposure duration to 5 ppm Zn in comparison to control. The chlorophyll content in *Spirodela* increased with increase in the exposure duration at an exposure concentration of 5 ppm Zn to 0.721 mg/g, 0.752 mg/g and 0.806 mg/g respectively at 4, 8 and 12 days exposure duration (Tables 3 and 4).

A number of heavy metals are required by the plants as micronutrients[20] and they act as a cofactors of enzymes as part of prosthetic groups and involved in a wide variety of metabolic pathways, but higher concentration of heavy metals are toxic to plants[2]. Heavy metals in ecosystem induces physiological and genetical changes in plants[5]. The zinc is one of the important nutrient for various metabolic processes and required in minute quantities[24].

It is evident from the data that the lower concentration of 5 ppm stimulates chlorophyll synthesis. Pandey reported the stimulation of chlorophyll synthesis at lower concentration of Nickel in *Spirodela*[26]. The 5.0 ppm of Zn promotes the chlorophyll synthesis from 0.701 mg/g to 0.745 mg/g in *Salvinia* and 0.721 mg/g to 0.806 mg/g in *Spirodela* during 4 and 12 days. The enhancement percentage of chlorophyll at 12 days exposure is 5.22% in *Salvinia*, 15.14% in *Spirodela* when compared to its respective controls. Choudhary and Ramachandra observed stimulatory effect of 1.5 mg/lt Zn on *Nostoc muscorum* including chlorophyll, carbohydrate and protein content[15]. Plant possess unique ability to evolve tolerance by the induction of phytochelatin (PC)[5,16].

However, the higher concentration of Zn found to inhibit the chlorophyll synthesis in both test plants. The present inhibition is 12.5% (0.595 mg/g), 23.26% (0.529 mg/g) and 42.1% (0.410 mg/g) at 40 ppm concentration respectively at 4, 8 and 12 days exposure duration respectively in comparison to control in *Salvinia*. Similarly *Spirodela* also shows inhibitory effect at 40 ppm of zinc towards chlorophyll synthesis by 1.57% (0.628mg/g), 19.18% (0.590 mg/g) and 41.88% (0.465 mg/g) respectively at 4, 8 and 12 days exposure duration. The severity of chlorophyll inhibition increases with increase in the duration of exposure. The percent inhibition of chlorophyll at 12 days exposure is 12.1% in *Salvinia* and 41.88% in *Spirodela* when compared to their respective control. Van Asche and Clijsters reported the chlorophyll biosynthesis is attributed to the interaction of metals with –SH group involved in catalytic activity[2]. Algal cultures exposure to higher concentrations of Zn exhibited chlorosis and cell lysis. The degradation of light harvesting pigments might be attributed to the disruption of thylakoid membranes within the cell[3]. The inhibition of photosynthesis is mainly because of proteolytic PC halide reductase complex and the synthesis of δ amino levulinic acid (ALA)[30].

Two way ANOVA represents biochemical toxicity to the test plants, concentrations were significant at $P>0.01$ level but duration is not significant. (Tables 3 and 4).

The increase in carbohydrate content at 5 ppm, Zinc promotes the carbohydrate content by 52mg/m (18.3%), 66.0mg/m (24.52%) and 76.0mg/m (28.8%) respectively at 4,8 and 12 days exposure. In *Spirodela*, the carbohydrate synthesis is increased at 5 ppm exposure to 32.0 mg/m (6.66%), 38.0mg/m (11.76%) and 44.0mg/m (18.91%) respectively at 4,8 and 12 days in comparison.

The carbohydrates form an important organic constituent of the plant tissues. Our investigation showed that at lower concentrations of Zn (5ppm) enhances the carbohydrate synthesis from 52mg/m to 76mg/m in *Salvinia* and 32mg/m to 44mg/g in *Spirodela* from 4 to 12 days exposure respectively. The enhancements of carbohydrates at 12 days exposure is 28.8% in *Salvinia* and 18.91% in *Spirodela* when compared to their respective controls. Increased carbohydrate content in *Nostoc muscorum* at lower concentrations of Nickel and Magnesium observed[23]. Lower concentration of Zn activates the enzyme or is incorporated into metalloenzymes in electron transport system (ETS)[31].

Table-1. Effect of Zinc on morphology of *Salvinia molesta*

Conc-entr-ation (ppm)	Exposure Duration (in days)								
	4	8	12	4		8		12	
	Root length			Leaf size					
				Length	Breadth	Length	Breadth	Length	Breadth
Control 0	1.966±0.19	1.9±0.216	1.91±0.216	1.4±0.080	1.366±0.788	1.4±0.080	1.433±0.027	1.511±0.027	1.501 ± 0.027
5	2.61±0.216	2.2±0.205	2.4±0.216	1.43±0.027	1.6±0.169	1.5±0.047	1.666±0.144	1.666±0.144	1.7±0.027
10	1.866±0.144	1.73±0.205	1.712±0.216	1.4±0.080	1.466±0.144	1.366±0.027	1.433±0.027	3.966±0.196	1.366±0.788
20	1.366±0.284	1.33±0.284	1.116±0.216	1.3±0.788	1.4±0.080	1.233±0.072	1.333±0.151	1.111±0.196	1.3±0.708
30	1.066±0.222	1.03±0.098	1.0±0.284	1.16±0.072	1.066±0.072	1.033±0.072	1.033±0.072	1.0±0.047	0.966±0.557
40	0.933±0.222	0.9±0.047	0.8±0.216	1.1±0.081	1.0±0.08	1.033±0.072	0.966±0.072	0.933±0.081	0.911±0.081

Values are expressed in cms

Mean values ± Standard Error

Table-2 . Effect of Zinc on morphology of *Spirodela polyrhiza*

Conc-entr-ation (ppm)	Exposure Duration (in days)								
	4	8	12	4		8		12	
	Root length			Leaf size					
				Length	Breadth	Length	Breadth	Length	Breadth
Control 0	2.000±0.047	2.0±0.047	2.2±0.216	0.666±0.054	0.566 ± 0.054	0.733 ± 0.072	0.600 ± 0.0	0.733 ± 0.072	0.610 ± 0.272
5	2.766±0.144	2.866±0.165	3.0±0.216	0.866±0.027	0.633±0.072	1.0±0.0	0.666±0.054	±0.072	0.766±0.054
10	2.333±0.054	2.3±0.816	2.1±0.04	0.766±0.047	0.666±0.072	0.733±0.072	0.633±0.054	0.666±0.054	0.533±0.027
20	1.900±0.216	1.633±0.047	1.333±0.816	0.7±0.047	0.566±0.027	0.7±0.047	0.566±0.027	0.4±0.027	0.300±0.027
30	1.666±0.216	1.566±0.098	1.116±0.216	0.666±0.054	0.533±0.027	0.6±0.047	0.511±0.027	0.5±0.0	0.400±0.47
40	1.566±0.098	1.100±0.047	0.800±0.216	0.600±0.047	0.600±0.047	0.533±0.027	0.466±0.027	0.366±0.027	0.311±0.027

Values are expressed in cms

Mean values ± Standard Error

Table-3. Two way ANOVA for biochemical effects of Zn on *Salvinia molesta*

	Total chlorophyll	Protein	Carbohydrate
F-Value (between concentration)	10.027**	10.56**	6.787**
F-Value (between duration)	2.66	1.24	0.013

**Significant at P < 0.01 level

Table-4. Two way ANOVA for biochemical effects of Zn on *Spirodela polyrhiza*

	Total chlorophyll	Protein	Carbohydrate
F-Value (between concentration)	5.808**	23.84**	15.468**
F-Value (between duration)	0.488	0.249	0.045

**Significant at P < 0.01 level

Table-5 . Two way ANOVA with Dunet's test for multiple comparison for accumulation of Zn by aquatic macrophytes

	Salvinia	*Spirodela*
F-Value (between concentration)	5621.50**	2247.42
F-Value (between duration)	13.90**	6.723
Dunet's value	265.164	386.60
Control V/s 5.0 ppm	2690.41	2880.33
Control V/s 10.0 ppm	5202.50	5446.00
Control V/s 20.0 ppm	10768.08	11573.66
Control V/s 30.0 ppm	15645.00	13784.33
Control V/s 40.0 ppm	17804.50	16866.00

** Significant at P < 0.01 level

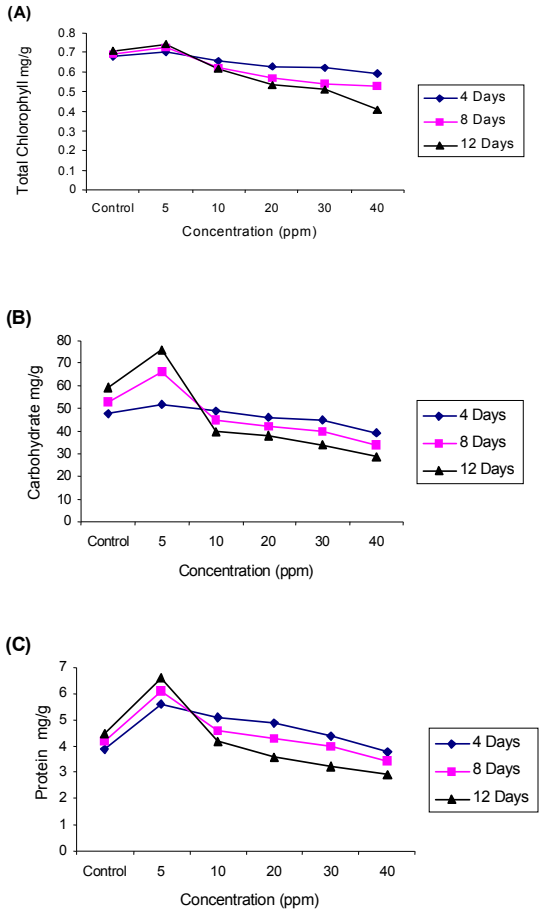

Fig: 1. Biochemical effects of Zinc on *Salvinia molesta*
(A) Total Chlorophyll (B) Carbohydrate
(C) Protein

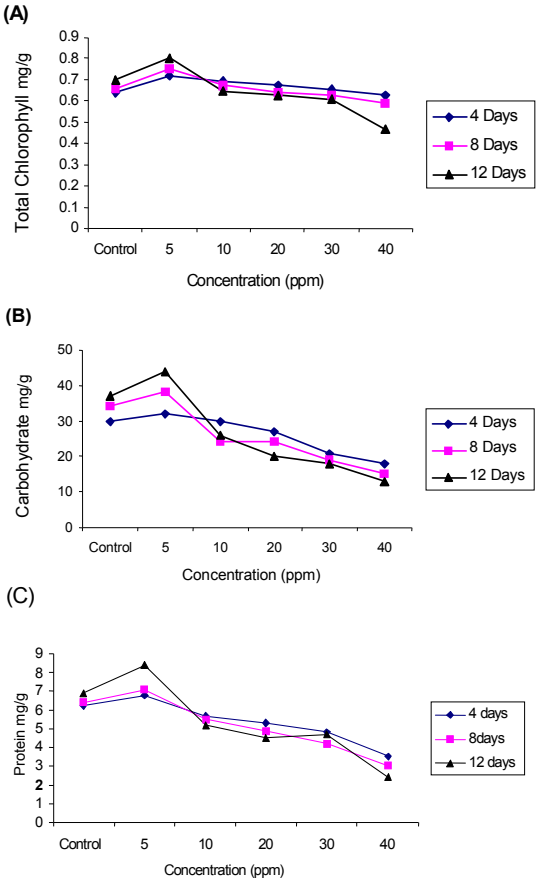

Fig: 2 . Biochemical effects of Zinc on *Spirodela polyrhiza*
(A) Total Chlorophyll (B) Carbohydrate
(C) Protein

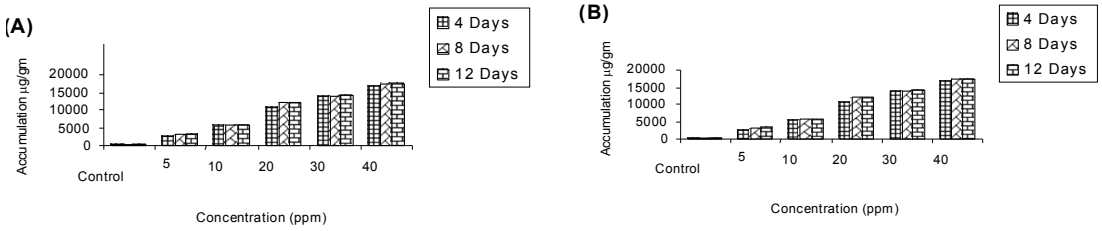

Fig: 3. Accumulation profile of Zinc by aquatic macrophytes
(A) *Salvinia* (B) *Spirodela*

However, the higher concentration of Zn 10, 20, 30 and 40 ppm of Zn, *Salvinia* was found to exhibit inhibition of carbohydrate synthesis. The 40 ppm Zn inhibited the synthesis of carbohydrate to 39.0mg/g, 34.0 mg/g and 29.0 mg/g respectively at 4, 8 and 12 days of exposure duration in comparison to control. In *Spirodela* at 40 ppm of Zn the inhibition of carbohydrate synthesis is 16.0 mg/g (46 %), 15 mg/g (55.88%) and 13.0 mg/g (64.87%) respectively at 4, 8 and 12 days exposure duration, the reduction in carbohydrate content can be attributed to the reduced rates of photochemical activities[17] and also Succinic Dehydrogenase (SDH) of all in cells indicate oxygen stress and energy crisis and mitochondria disturbances[9]. Our experimental results shows that 40 ppm Zn inhibit the carbohydrate synthesis from 39 mg/g to 29 mg/g in *Salvinia* and 18 mg/g to 13 mg/g in *Spirodela* from 4 to 12 days exposure duration respectively. The percent inhibition of carbohydrate during 12 days exposure is 50.85% in *Salvinia* and 64.87% in *Spirodela* in comparison to its respective control.

The 5 ppm of Zn in *Spirodela* promotes the protein synthesis and is directly proportional to exposure duration. The rate of increase is 6.8mg/g (9.67%), 7.1 mg/g (10.93%) and 48.4mg/g (21.73%) respectively at 4, 8 and 12 days exposure duration. In *Salvinia* also at 5 ppm of Zn promotes the protein synthesis by 47.8% (5.6mg/g), 45.58% (6.1mg/g) and 46.6% (6.6 mg/g) respectively at 4, 8 and 12 days exposure in comparison to control. The proteins are one of the most important group of biomolecules, includes maintenance of osmotic balance, storage of some particular elements, enzymes to catalyse biochemical reactions. Our investigation revealed the stimulation percentage of protein during 12 day exposure is 46.66 % in *Salvinia*, 21.73% in *Spirodela* compare to control. Similar observations were in *Potamogeton pectinatus* at lower concentration of Zn[27]. Phytochelatin (PC) produces enzymes like Glutathione reductase and PC synthetase bind and sequesters metal toxicity in the plant cell and increases the protein content at lower concentration[21,35].

However, the higher concentration of 40ppm in *Salvinia* was decreased by 2.57% (3.8mg/g), 19.05% (3.4mg/g) and 40.82% (2.9mg/g). Similarly in *Spirodela* at 40ppm of Zn, the percent inhibition was 43.54% (3.5mg/g), 53.12% (3.0mg/g) and 65.2% (2.4mg/g) at 4,8 and 12 days exposure in comparison to respective control (Fig. 1 and 2). Further 40ppm of Zn found to inhibit the protein synthesis from 3.8mg/g to 2.9mg/g in *Salvinia* and 3.5mg/g to 2.4mg/g in *Spirodela* from 4 and 12 days exposure respectively. The percent inhibition of protein is 40.82% in *Salvinia* and 65.82% in *Spirodela* during 12 days exposure duration, compared to control. The decline in protein content at high metal concentration may be due to the oxidation of protein[33] and also due to increased activate of protease or other catabolic enzymes which are activated and destroy the proteins. The high concentration of Zn metal ions binds with –SH functional groups resulting in the disruption of protein synthesis pathway.

Profile of Metal accumulation :

Fig. (3) shows the concentration of Zn accumulation in *Salvinia* and *Spirodela* was directly proportional to its concentration and exposure duration. The accumulation of

metal in test plants at 4 days duration is more pronounced irrespective of exposure duration. However, at remaining duration of exposure it remains marginal.

The *Salvinia* exposed to 5ppm found to accumulate 2675.25 µg/g, 2998.25 µg/g and 3121.75 µg/g during 4, 8 and 12 days exposure duration respectively. However, at subsequent exposure duration, it shows marginal increase in their accumulation. *Salvinia* grown in experimental ponds containing 40ppm of Zn found to accumulate 17525.00 µg/g, 18130.75 µg/g and 18481.75 µg/g respectively at 4, 8 and 12 days exposure (Fig. 3). The *Spirodela,* test plant exposed to 5ppm of concentration accumulated 2802.0 µg/g, 3088.0 µg/g and 3403.0 µg/g respectively at 4, 8 and 12 days exposure. Similar to *Salvinia*, *Spirodela* at 40ppm concentration, Zn accumulation was 16925.0 µg/g. 17125.0 µg/g and 17200.0 µg/g respectively at 4, 8 and 12 days exposure. (Fig. 3).

Application of Two way ANOVA, it is found that both concentration and exposure duration are significant at $P < 0.01$ level in *Salvinia*. Further Dunet's test is applied for multiple comparison between control and different concentration, it is clear that all treatment means significantly differ with control. However, in case of *Spirodela*, by applying Two way ANOVA it is found that both concentration and exposure duration are not statistically significant (Table-5).

The Zinc is an essential micronutrient required for several metabolic activities of the plants and has a long biological half life[19]. Heavy metal pollution of water is a major environmental concern, is increasing at alarming rate due to anthropogenic activities. In the present investigation aquatic macrophytes viz, *Salvinia* and *Spirodela* are used to measure accumulation status.

It was found that *Spirodela* to accumulated maximum content of Zn (3403.0 µg/g) from the experimental pond containing 5.0 ppm zinc followed by *Salvinia* (3121.75 µg/g) during an exposure duration of 12 days. The accumulation of Zn in the plants exposed to 40ppm are as follows: *Salvinia* (1848.75 µg/g) following *Spirodela* (17200 µg/g) during 12 days exposure. The accumulation of Zn in plants exposed to 40 ppm of Zn are as : *Salvinia* (18481.75 µg/g) followed by *Spirodela* (17200 µg/g) during 12 days exposure. Our findings confirms observation of Jain and they found that Pb anf Zn content in *Azolla pinnata* and *Lemna minor* increased at initial concentration[25]. The rate of accumulation of Zn in *Potamogeton pectinatus* increases with increase in the exposure duration[37]. There are two phases in metal absorption by the plants. The first phase is rapid while 2nd phase is slow and extended. Our results are in total agreement with the above statement. The increase in the accumulation might be due to increased number of binding sites for the complexation of heavy metal ions, leading to the increased absorption, however, slow accumulation may be attributed to binding ions to the plants and establishment of equilibrium status between adsorbant and adsorbate.

It is concluded from the findings that the morphological, biochemical responses and metal accumulation profile by *Salvinia* and *Spirodela* were directly proportional to

concentration of metal and maximum metal uptake was recorded at 4 days exposure and later it was marginal at subsequent concentrations and exposure duration, *Spirodela polyrhiza* is found to be suitable candidate for toxicity evaluation. However, the *Salvinia molesta* is the tolerant species and can be used for remediation of heavy metals from the aquatic ecosystem and environmental monitoring.

The authors are thankful to the Principal, B.L.D.E.A's Degree College, Jamkhandi (587301) India, Basaveshwar Science College Bagalkot, Shri Jagadambha Degree College Hittinahalli (L.T). and also JSS College Dharwad for providing necessary facilities to carry out research work.

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Date : 05-02-2021

COLLABORATION

PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH BASARKOD

DISTRICT -VIJAYAPURA

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL,

DISTRICT-VIJAYAPURA

DEPARTMENT OF BOTANY

Parappa Master Savayava Krushi Vidyapeeth, Basarkod, Muddebihal and M.G.V.C Arts, Commerce and Science College, Department of Botany Muddebihal wish to initiate collaboration in Dairy and Composting and in other disciplines.

The main objective is to foster collaboration, exchange of information on Dairy and Composting. This ascertained Inter-institutional programme helped to quality education, these programs are mutual arrangements through the proficiency and services.

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt. Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

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PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH
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ತಾ॥ ಮುದ್ದೇಬಿಹಾಳ ಜಿ॥ ವಿಜಯಪುರ (ಕರ್ನಾಟಕ) Tq. Muddebihal - Dist. Vijayapur (Karnataka)
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COLLABORATION

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL,

DIST-VIJAYAPUR

DEPARTMENT OF BOTANY

AND

PARAPPA MASTER SAVYAVA KRUSHI VIDYAPEETH BASARKOD

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Date: 05.02.2021

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ಪರಪ್ಪ ಮಾಸ್ತರ
ಸಾವಯವ ಕೃಷಿ ವಿದ್ಯಾಪೀಠ,
ಬಸರಕೋಡ-586116.

S.G.V.C VIDYA PRASARK TRUST'S

M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT: COMPOSTING AND DAIRY FARM

AT

PARAPPA MASTER KRUSHI PITHA BASARKOD

DATE: 15.12.2021 **TIME: 10.30 AM**

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL

M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL -586212 Dt: Vijayapur.

To

The Principal

M.G.V.C.College

Muddebihal

Subject: Requesting to give permission to visit to Basarkod for Composting/Dairy and Farms to understand role of microbes in day today life Rani Channamma University is recommended in syllabus for B.Sc I sem, Botany staff members along with B.Sc First Semester students on 15.12.2021 at 10 am.

Students List

Sr.No	Name of the Students
1	Khwajabandenawaz Mulawad
2	Tasneem.Soudagar
3	Tanveer Attar
4	Manjula.Lakkanavar
5	Pratiba.Dodamani
6	Muskan.Mujawar
7	Vidyashree.Sasnur
8	Sangeeta
9	Sohail.Desai

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

10	Sachin
11	Vinuta
12	Pragati.Malagatti
13	Muskan
14	Rajiyabegum.Rudrawadi
15	Malappa.Kashinakunti
16	Gurusiddamma.M.K
BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 14-12-2021

Head of the Department of **Botany**
M.G.V.C. College, MUDDEBIHAL-586212
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Ref. No. : ..... Date : .....

To

Arvind.Koppa

Basarkod

Tq-Muddebihal

Subject: Requesting to give permission to visit to Basarkod for Composting/Dairy Farms to understand role of microbes in day today life Rani Channamma University is recommended in syllabus for B.Sc I sem, Botany staff members along with B.Sc First Semester students on 15.12.2021 at 10 am.

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7	Vidyashree.Sasnur
8	Sangeeta
9	Sohail.Desai
10	Sachin
11	Vinuta
12	Bhagyashree.K
13	Muskan
14	Rajiyabegum.Rudrawadi
15	Malappa.Kashinakunti
16	Gurusiddamma.M.K
BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal **Date: 14-12-2021**

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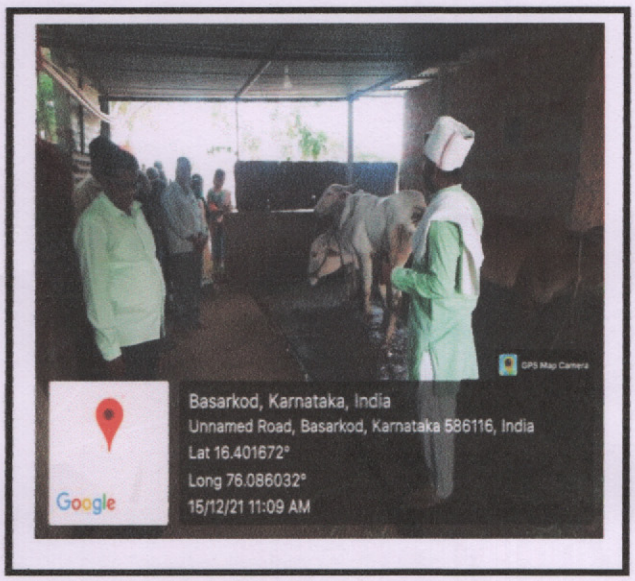
M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL

DEPARTMENT OF BOTANY
VISIT: COMPOSTING AND DAIRY FARM
AT
PARAPPA MASTER KRUSHI PITHA BASARKOD



Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S.G.V.C VIDYA PRASARK TRUST'S

M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL

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DEPARTMENT OF BOTANY
VISIT: COMPOSTING AND DAIRY FARM
AT
PARAPPA MASTER KRUSHI PITHA BASARKOD

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

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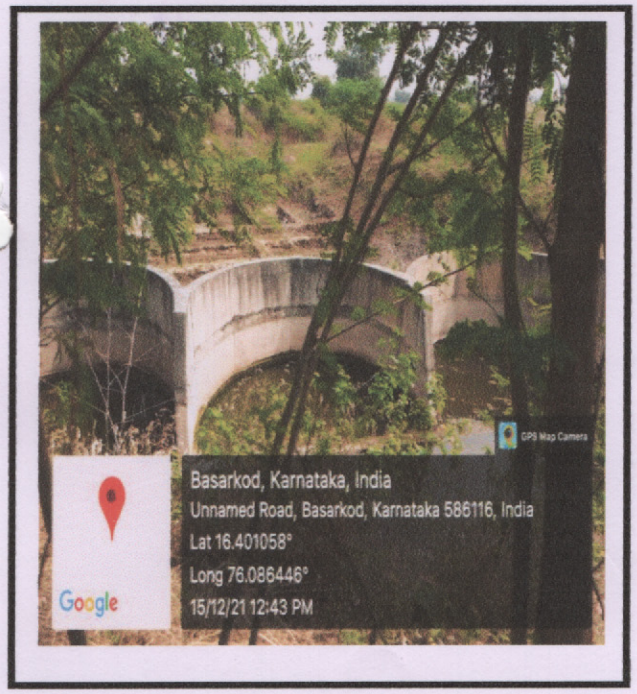
DEPARTMENT OF BOTANY

VISIT: COMPOSTING AND DAIRY FARM
AT
PARAPPA MASTER KRUSHI PITHA BASARKOD



PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
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MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT: COMPOSTING AND DAIRY FARM
AT
PARAPPA MASTER KRUSHI PITHA BASARKOD

The Important Benefits of Composting

Can Save Money. Composting it is a natural and organic process. ...

Good for the Soil. It can be quite helpful for the overall health of the soil. ...

Reduces Garden Pests. ...

Improves Soil Structure. ...

Ideal Exercise. ...

Recycles Home Waste. ...

Good for the Environment. ...

Conserves Water.

Soil Benefits of Using Compost

- Compost Feeds the Soil Food Web.
- Reduces the Need for Chemical Fertilizers.
- Compost Increases Soil Moisture.
- It Prevents Soil Erosion.
- It Aids Plant Growth.
- Composting Improves Plant Nutrition.
- It Can Reduce Plant Mortality Rates.
- Composting Reduces Waste.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL 586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

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MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT: COMPOSTING AND DAIRY FARM
AT
PARAPPA MASTER KRUSHI PITHA BASARKOD

Advantages of dairy farming business

The initial investment in dairy farming business is low in comparison to other Industry.

It is environment-friendly. ...

The demand for milk product is increasing rapidly.

Cow dung is good organic manure it increases soil fertility.

Cow dung can be used for the production of biogas.

Apart from being an important sector globally, dairying is equally important in developing economies like India, for providing nutrition support, reducing rural poverty, inequity, ensuring food security for millions of rural households, and enhancing economic growth, particularly in rural areas.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com *

Ref. No. : ..... Date : .....

REPORT

Visit to Parappa Master Krushi Peetha Basarkod for Composting and Dairy Farm to understand role of microbes in day today life, Rani Channamma University is recommended in syllabus for B.Sc I sem, Botany staff members along with B.Sc First Semester students on 15.12.2021at10am.Prof:S.V.Gurumath,Prof.B.N.ChawadapurProf.Sudharani.Chiraladinni Sri.M.D.Pattar and B.Sc Ist semester students.

HOD of Botany
Head of the Department of Botany
M.G.V.C. College, MUDDEBIHAL-586212
Dist: Bijapur.

Principal
PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S.G.V.C.VIDYA PRSARAK TRUST'S

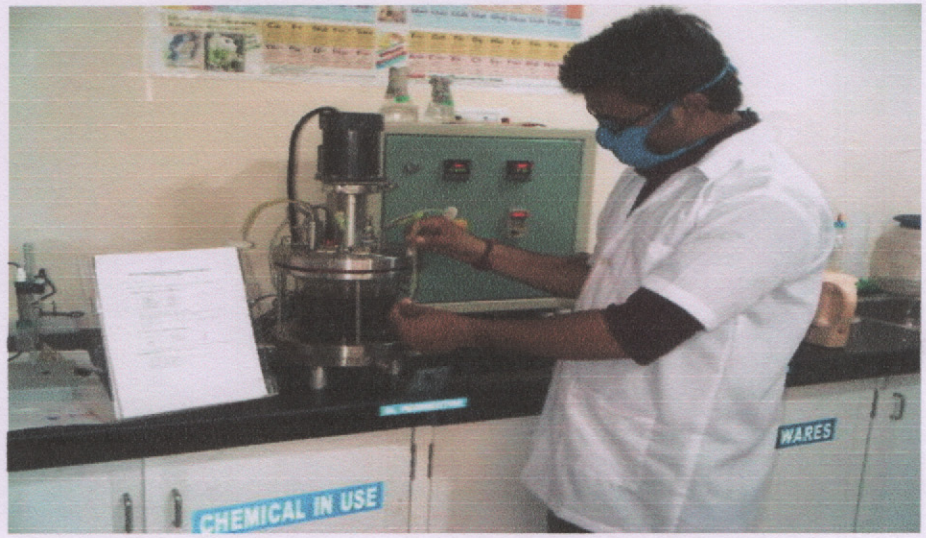
M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOARY

AT

BASAVESHWAR SCIENCE COLLEGE BAGALKOT



BY

B.Sc SIXTH SEMESTER BOTANY STUDENTS

YEAR 2020-21

PRINCIPAL,
M. G. V. C Arts, Com. & Science College
MUDDEBIHAL 586212

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

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Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : .....

Date : .....

To

The Principal

M.G.V.C.College

Muddebihal

Subject: Requesting to give permission to visit Biotechnology Laboratory at Basaveshwar science College Bagalkot, Botany staff members along with B.Sc Sixth Semester students.

Kindly give permission to visit Biotechnology Laboratory.

Students List

Sr.No	Name of the Students
1	**Abishek.Biradar**
2	**Aishwarya.Patil**
3	**Aishwarya.Sajjan**
4	**Aishwarya.Yalawar**
5	**Akshata**
6	**Akshata.Hubbali**
7	**Allabhaksh.K**
8	**Anil**
9	**Arun.Pawar**

PRINCIPAL
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10	Asha.Lamani
11	Ashok.Vaggar
12	Aishwini.Lamani
13	Basavraj.K
14	Bhagya.B
15	Bhagyashree.B
16	Bharat.B
17	Chaitra.P.S
18	Devaraj.H
19	Doddabsayya
20	Gourmuhiyuddin
21	Ijazhamad.M
22	Imran.Wanti
23	Jagadeesh.J
24	Jypti.Goudar
25	Jyoti.Hiremath
26	Kashinath.s
27	Kavita.Hiremath
28	Kavita.T
29	Khayabuddin.P
30	Kiran.N
31	Laxman.H
32	Mahajabeen.B
33	Mohammad.Tousif.A
34	Muskan.Kuntoji
35	Neelambika.H
36	Ninganagouda.B

Co-ordinator,
Internal Quality Assurance Cell
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MUDDEBIHAL-586212, Dist: Vijayapur.

PRINCIPAL.
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MUDDEBIHAL - 586212

37	Nisha.Rathod
38	Pallavi.G
39	Pavankumar.K
40	Pooja.Siddaraddi
41	Poornima.H
42	Pradeep.Biradar
43	Prashant.Athani
44	Praveenkumar.L
45	Praveenkumar.P
46	Pushpa.Dodamani
47	Rajesh.Hadapad
48	Ramangouda
49	Renuka.S
50	Sabtasmiya.S
51	Sampatkumar.N
52	Santosh.Manguli
53	Saraswati.M
54	Sarvesh.Sondur
55	Shahid.Bagwan
56	Shankargouda.B
57	Sharanabasaveshwari
58	Sharankumar.h
59	Shivakumar.M
60	Shivaraj.Agni
61	Shridhar.Biradar
62	Soubhagyalaxmi.Meti
63	Soujanya.Budihal

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Dt: Vijayapur

64	Spoorti.Sajjan
65	Sudharani
66	Suman.Shastri
67	SumayaKousar.Maniyar
68	Sunanda.Hokarani
69	Sunil.Dharamagiri
70	Surekha.Bandawadagi
71	Susilabai.Chiniwar
72	Swati.Rathod
73	Tejeswini.Talikoti
74	Vidyashree.Patil
75	Vijayalaxmi.Sidaraddi
76	Vilas.Jadhav
77	Vinayak.Daddi
78	Vishal.Hiremath
79	Yaseen.Makandar
80	Yashodha.Biradar
81	Zebmuskan.Saudagar
82	Basavraj.Tegginamni
83	Bhavya.
BOTANY STAFF MEMBERS	
1	Prof: B.N.Chawadapur
2	Prof: D.S.Talikoti
3	Sri: M.D.Pattar

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

Place: Muddebihal

Date:14.08.2021

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

To

The Principal

Basaveshwar science

College Bagalkot

Subject: Requesting to give permission to visit Biotechnology Laboratory

Sir

With reference to the above subject we are visiting to your Biotechnology Laboratory with sixth semester student's knowledge about Biotechnology Laboratory because it is recommended by Rani Channamma University Belgavi

Kindly give permission to visit Biotechnology Laboratory.

Thanking you

Place: Muddebihal

Date: 10.8.2021

Your's faithfully

PRINCIPAL,
M. G. V. C Arts, Com & Science College
MUDDEBIHAL

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur

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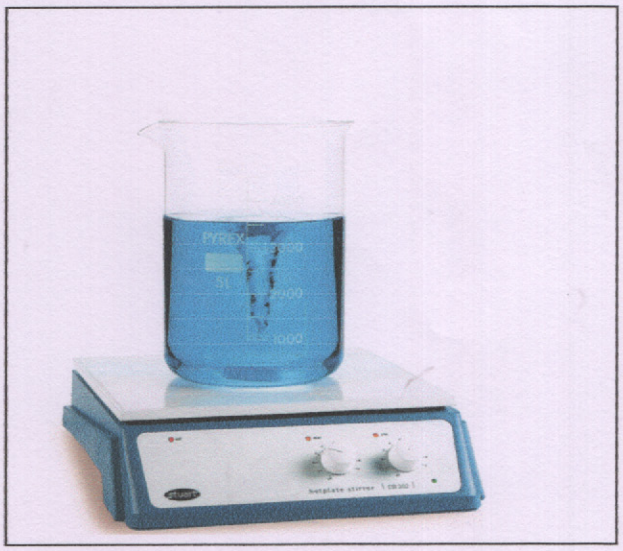
M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOARY

AT

BASAVESHWAR SCIENCE COLLEGE BAGALKOT



S.G.V.C.VIDYA PRSARAK TRUST'S

Coordinator,
Internal Quality Assurance Cell
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MUDDEBIHAL-586212. Dist: Vijayapur

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Ref. No. : ..... Date : .....

DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOARY

AT

BASAVESHWAR SCIENCE COLLEGE BAGALKOT

REPORT

The department of Botany conducted one day visit to Biotechnology Laboratory at Basaveshwar Science college Bagalkot on 14.08.2021 B.Sc Sixth semester students along with Botany staff members visit to Biotechnology Laboratory. Ranni Channamma University Belgavi recommended in sxith semester syllabus in Botany paper- I Visit to Biotechnology Research Laboratory.

Prof:S.N.Poleshi
Principal
M.G.V.C.CollegeMuddebihal

Prof:S.V.Gurumath
HOD Department of Botany
M.G.V.C.CollegeMuddebihal

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL- 586212

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
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✆ : 08356220329
FAX : 08356220329

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

* email : princmgvc@gmail.com * www.mgvcmbl.in *

Ref. No. : Ref.No:MGVC/Chem/MoU/FV/2020-21

Date : 16.08.2021

To,

The President

Parappa Master Savayava Krushi Vidyapeeth

Basarakod-586116

Dist:Vijayapur

Karnataka

Sub: Request for permission to visit Krushi Vidyapeeth regarding.

Dear Sir,

We are very happy to know that your Krushi Vidyapeeth is providing the practical knowledge about Organic Farming, Soil, Soil Composition, Soil Conservation and Soil Analysis with the modern instruments to farmers. The activities of vidyapeeth are really helpful to our B.Sc-VI Semester Chemistry optional students as the University introduced the 'Soil Analysis' as a syllabus. The chapter covering about Soil, Soil Composition, Soil fertility, Soil nutrients and determination of soil nutrients. Hence as a part of Curriculum the students and staff are planned to arrange a Field Visit to your Krushi Vidyapeeth. The Field visit will help our students to learn about Soil at the spot practically with interaction and hence made clear the theorotical aspects of the chapter what they have learnt in the class room. Above all the visit helps in developing field concepts, fosters a sense of team work. Hence we are kindly requesting you to grant permission for our students and staff to visit your vidyapeeth on 28.08.2021

Hoping for your early and positive response.

Thanking you.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

ಪರಪ್ಪ ಮಾಸ್ತರ ಸಾವಯವ ಕೃಷಿ ವಿದ್ಯಾಪೀಠ
PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH
ಬಸರಕೋಡ-586116. BASARAKOD-586116.
ತಾ॥ ಮುದ್ದೇಬಿಹಾಳ ಜಿ॥ ವಿಜಯಪುರ (ಕರ್ನಾಟಕ) Tq. Muddebihal - Dist. Vijayapur (Karnataka)
Cell : 9449191009 email : parappamaster.vidyapeeth@gmail.com

RefNo:PMSKV/FV/2020-21 Date:22.08.2021

To,

The Principal,

MGVC Arts, Commerce and Science College,

Muddebihal-586212

Dist:Vijayapur

Dear sir,

With Reference to your letter (No. MGVC/Chem/FV/2020-21 dated 16.08.2021), we are pleased to inform you that your B.Sc VI Semester Chemistry optional Students and Staff are permitted to visit our Krushi Vidyapeeth on 28.08.2021 at 11:00 am, for sharing of academic knowledge.

Thanking You .

ಅಧ್ಯಕ್ಷರು.
ಪರಪ್ಪ ಮಾಸ್ತರ
ಸಾವಯವ ಕೃಷಿ ವಿದ್ಯಾಪೀಠ,
ಬಸರಕೋಡ-586116.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329
FAX : 08356220329

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

* email : princmgvc@gmail.com * www.mgvcmbl.in *

Ref. No. : Ref No:MGVC/Chem/FV/2020-21

Date : 27.08.2021

To,

The President

Parappa Master Savayava Krushi Vidyapeeth

Basarakod-586116

Dist:Vijayapur

Dear Sir,

With Reference to your letter (No:PMSKV/FV/2020-21 dated 23.08.2021), I am thankful to you for your immediate and positive response to our letter regarding the Field visit permission. The Field Visit team consisting of 23 students(Male- 08 and Female-15) and 3 Faculty members of the Department and are leaving the college on 28-08-2021 at 10:30 AM and will be at the vidyapeeth by 11:00 AM. The list of students and staff is enclosed along with this letter.

We hope you will extend your co-operation further during the visit.

Thanking you.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

SGVCVP Trust's

M.G.V.C.ARTS,COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL

DEPARTMENT OF CHEMISTRY

FIELD VISIT TO PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH,BASARAKOD

B.Sc-VI Semester (Practical Batch-3) Students

Sl No	Name of the Student	Gender	Signature
1	S.H.Nadaf	F	
2	S.~~T.Mulimani~~ Bagwan	F	S.A.Bagwan
3	S.T.Mulimani	M	
4	S.B.Bagawan	F	S.B.Bagawan
5	S.L.Gurikar	F	
6	S.S.Belagal	F	S.S.Belagall
7	S.S.Koti	F	
8	S.A.Ghatage	F	
9	S.R.Badiger	M	
10	S.H.Mulla	M	
11	S.M.Itagi	M	
12	S.B.Hiremath	F	
13	S.V.Khan	F	
14	S.N.Patil	F	S.N.Patil
15	S.S.Doranahalli	F	
16	S.S.Alvi	F	
17	V.G.Hiremath	M	
18	V.Y.Talawar	M	
19	V.S.Saraganachari	F	
20	V.N.Bullanavar	F	V.N.B
21	V.M.Dhavalagi	F	V.m dhavalg
22	V.S.Hiremath	M	V.S.Hiremath
23	V.G.Nagaral	M	
	Name of the Staff		
1	Prof.A.S.Bagawan	M	
2	Prof.I.V.Roodagi (Visit In-charge)	M	
3	Prof.U.A.Halyal	M	

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

ಪರಪ್ಪ ಮಾಸ್ತರ ಸಾವಯವ ಕೃಷಿ ವಿದ್ಯಾಪೀಠ
PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH
ಬಸರಕೋಡ-586116.
ತಾ॥ ಮುದ್ದೇಬಿಹಾಳ ಜಿ॥ ವಿಜಯಪುರ (ಕರ್ನಾಟಕ)
BASARAKOD-586116.
Tq. Muddebihal - Dist. Vijayapur (Karnataka)
Cell : 9449191009
email : parappamaster.vidyapeeth@gmail.com

Ref No: **PMSKV/FV/2020-21**

Date: **28.08.2021**

To,

The Principal,

MGVC Arts,Commerce and Science college,

Muddebihal-586212

Dist:Vijayapur

Dear Sir,

We are pleased to inform you that your college Field visit team of 23 students and 3 Faculty members visited our Krushi Vidyapeeth today 28-08-2021. The team entered the vidyapeeth at 11:15 am. The president, members of the vidyapeeth and soil analysts shared the knowledge and practical aspects of soil and soil analysis.The students involved actively with great interest in all the activities and interacted. The Team of Field visit left the Vidyapeeth at 4:15 pm.

Thanking You.

ಅಧ್ಯಕ್ಷರು.

ಪರಪ್ಪ ಮಾಸ್ತರ
ಸಾವಯವ ಕೃಷಿ ವಿದ್ಯಾಪೀಠ,
ಬಸರಕೋಡ-586116.

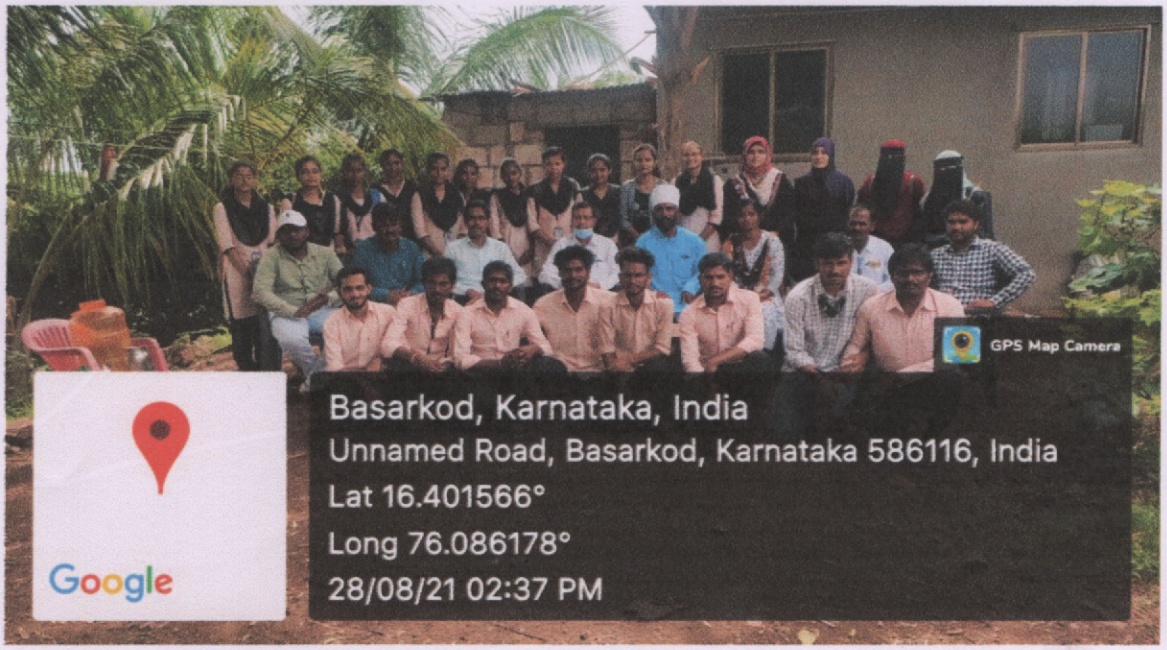
Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.G.V.C. ARTS,COMMERCE AND SCIENCE COLLEGE,MUDDEBIHAL
DEPARTMENT OF CHEMISTRY
FIELD VISIT
PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH,BASARAKOD
(DEPT ACTIVITY 2020-21)
(28-08-2021)

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

B.Sc-VI Semester Chemistry (optional) Students and Faculty at College Cammpus for Field Visit



Field Visit Team with Smt and Shri Aravind Koppa,President &Youth Awardee at the PMSK Vidyapeeth

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212

M.G.V.C. ARTS,COMMERCE AND SCIENCE COLLEGE,MUDDEBIHAL

DEPARTMENT OF CHEMISTRY

FIELD VISIT

PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH,BASARAKOD

(DEPT ACTIVITY 2020-21)

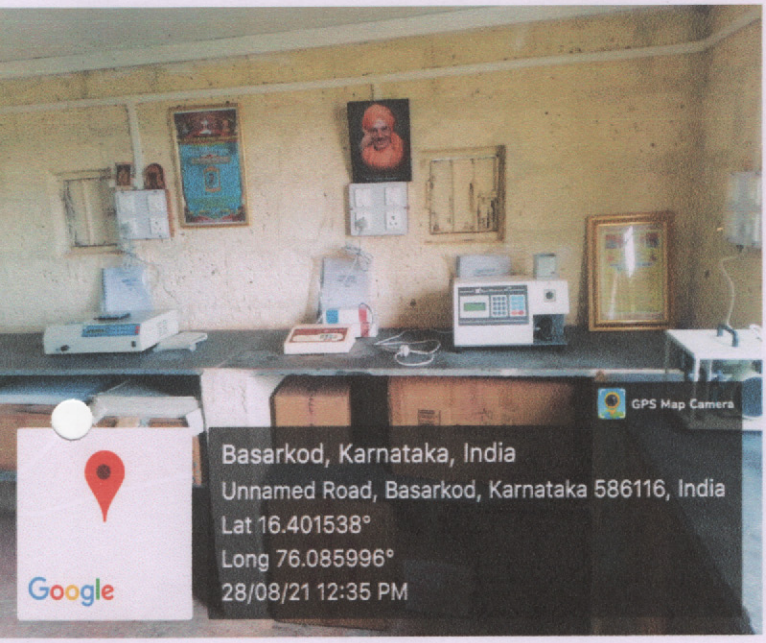
(28-08-2021)

Sri.Aravind.Koppa. President PMSK Vidyapeeth &Youth Awardee guiding about Soil Nutrients & Organic Farming

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212

M.G.V.C. ARTS,COMMERCE AND SCIENCE COLLEGE,MUDDEBIHAL
DEPARTMENT OF CHEMISTRY
FIELD VISIT
PAAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH,BASARAKOD
(DEPT ACTIVITY 2020-21)
(28-08-2021)



B.Sc-VI Semester Chemistry(optional) Students, Faculty with Soil Analysts/Experts at Laboratories of Krushi Vidyapeeth

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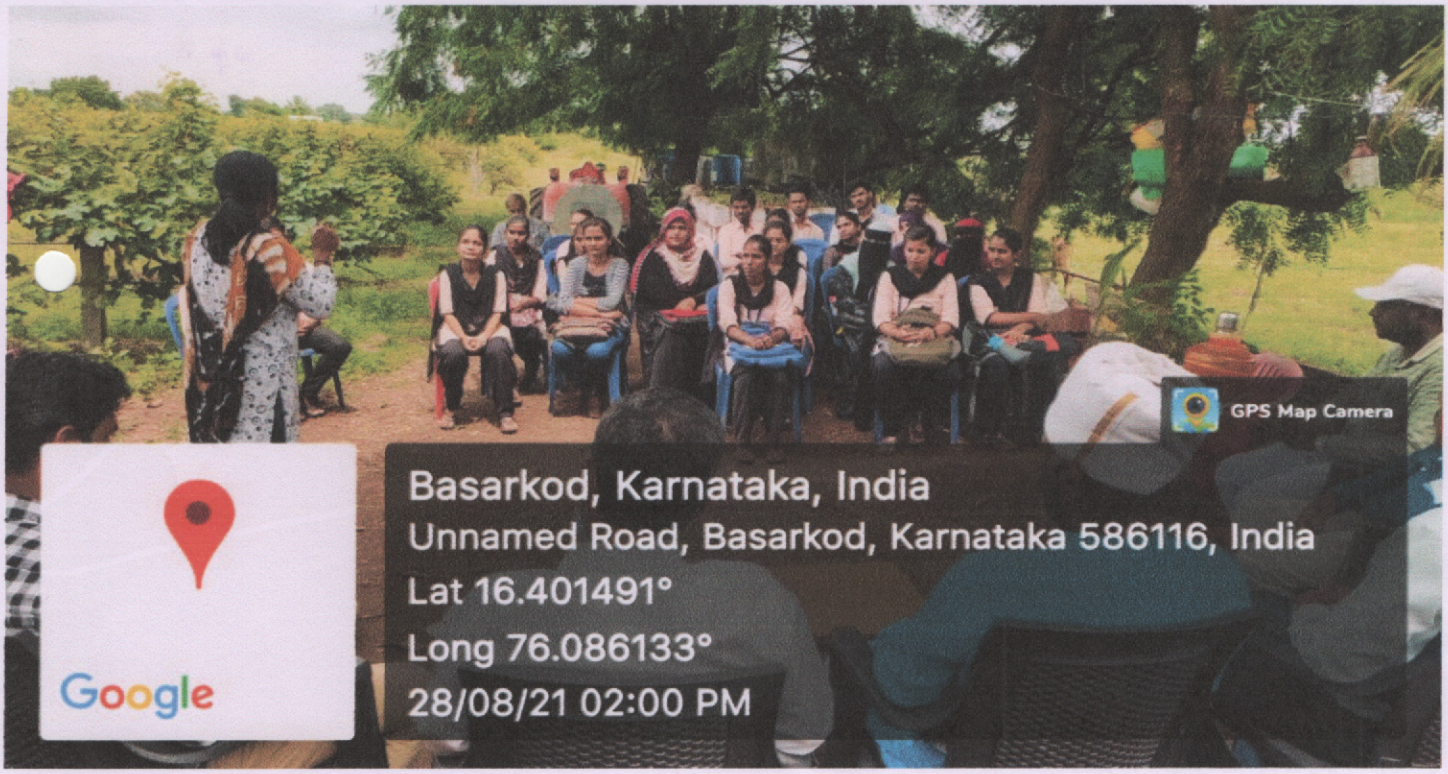
M.G.V.C. ARTS,COMMERCE AND SCIENCE COLLEGE,MUDDEBIHAL
DEPARTMENT OF CHEMISTRY
FIELD VISIT
PARAPPA MASTER SAVAYAVA KRUSHI VIDYAPEETH,BASARKOD
(28-08-2021)

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

B.Sc-VI Semeser Chemistry(optional) Students with Smt and Shri.Aravind.Koppa at Krushi Vidypeeth



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Internal Quality Assurance Cell
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MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

DEPARTMENT OF CHEMISTRY

REPORT OF FIELD VISIT

(DEPT ACTIVITY 2020-21)

Visit to a field is an effective method of learning through participation.The visit experience goes beyond reading about a concept; students are able to see it at the spot,manipulate it,record the details of observations,interact physically.Visiting a farm and milking a real cow is much more effective than reading about milking cow.There are plenty of opportunities to incorporate the field visit/trip experience back into classroom steady.

Department of Chemistry organised a field visit to Parappa Master Savayava Krushi Vidyapeeth,Basarakod for B.Sc-VI Semester Chemistry optional(Practical Batch-3) students on 28.08.2021.The vidyapeeth is 11 km away from the Muddebihal city.The purpose of the field visit is to know about soil.soil composition,soil fertility,soil nutrients,determination of soil nutrients and organic farming.The 'Soil Analysis' chapter introduced as a syllabus for B.Sc-VI Semester students in the chemistry optional subject is covering all the above said concepts/contents.This unit studied theoretically in the classroom can be studied practically during the visit.

With the prior permission of principal and the president of Krushi Vidyapeeth,the Team of 23 students and 3 faculty members started the journey from college campus at 11 AM through a private vehicle and reached the vidyapeeth around 11:15 AM.At the very beginning of the visit,the Team met the vidyapeeth president,youth awardee and leader of pogressive farmers shri.Aravind.Koppa.The president welcomed the Team and interacted for a few minutes.Then took the team in and around vidyapeeth and explained in detail about soil,soil composition,soil fertility,soil conservation,soil nutrients and organic farming.He also highlighted the problems of farmers who visiting the vidyapeeth and strongly suggested not to use more chemical fertilizers for greater crop productivity and to avoid the soil pollution.Also showed the various methods adopted for increasing the soil nutrients.Later the soil analysts shri.Santosh.R.Naik and shri.Mahantesh.P.Naregal from Hitnalli farm took the team to laboratory and gave the information about different equipments used for soil analysis.Then explained the determination of soil nutrients using the instruements.These practical aspects made clear the topic of soil analysis which the students have learnt in the classroom.Students interacted with soil analysts and president.All the quaries raised by students were satisfactorily solved.After the interaction and discussion a function was arranged in which the president shared the thoughts of organic farming and students expressed their opinpons and benefits of this visit.Later Smt and shri.Aravind .Koppa, of vidyapeeth provided the meals to all the students and faculty.Thus a good hospitality by the vidyapeeth right from beginning to end of our programme.Lastly the faculty proposed vote of thanks to the president,members of vidyapeeth,experts who helped during the visit.The team left vidyapeeth at 4 pm and reached the Muddebihal around 4:30 pm.

The visit/event helps in developing field concepts and processes through direct personal experiences,also in understanding correlation between mankind and environment.The event also fosters a sense of teamwork and community among the students as they experience a field visit together.Field visit to organic farming is 'seeing is believing' The visit was more informative,innovative and was also a memorable to students.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212, Dist. Vijayapur

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212

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(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

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M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt. Vijayapur.

Ref. No. : ..... Date : .....

From,

HOD of Economics
MGVC College, Muddebihal

To,
The Principal
MGVC Arts, Commerce & Science College,
Muddebihal

Respected Sir,

Sub: Seeking permission to visit APMC, Muddebihal

The department of economics intents to take students to Agriculture Produce Market, (APMC) Muddebihal for study purpose on 31st August, 2021. Hence your permission is sought in this regard.

Thanking you.

List of Staff:

1. Dr. B.A.Guli
2. Prof. R.D.Nandeppanavar

List of students

1. Gyanesh Yarazari
2. Hanamantagouda S. Biradar
3. Manjunath Navadagi
4. Mutturaj Hiremath
5. Sadasiva Yadavannavar
6. Shilpa Sanni
7. Shilpa Nayak
8. Yallalinga Hayyali
9. Zeeya Mudnal
10. Anil Kolakar
11. Viajayalaxmi Badiger
12. Gangappa Kunchikoravar
13. Shagupta Risaldar
14. Shruti Pawar
15. Pradeep Ingaleshwar
16. Manjunath Mulawad
17. Anveerappa Surapur
18. Dyavappagouda Patil
19. Kiran Hatarkihal

Yours Faithfully

HEAD, DEPT. OF ECONOMICS
M. G. V. C. COLLEGE, MUDDEBIHAL

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com *

Ref. No. : .....

Date : 29-8-2021

To,

The HOD of Economics
MGVC Arts, Commerce & Science College
Muddebihal.

Dear sir,

Subject : Granting permission to visit APMC, Muddebihal

Ref : Your letter dt: 28-08-2021

With reference to above mentioned subject and your letter Dt: 28-08-2021 you are permitted to make visit to APMC, Muddebihal along with your students per your schedule.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
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MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

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FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

Notice

The Department of Economics scheduled a visit to Agriculture Produce Market (APMC), Muddebihal on 31st August, 2020. Hence all students of Economics are hereby informed to gather in the college premise at 07.30 am.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Department of Economics -2020-21

Visit to APMC Yard, Muddebihal

Date: 31-08-2020

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

Front view of APMC office

Students Interaction with APMC Staff

Interaction with traders

Photo session with APMC member

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL
M. G. V. C. Arts, Com. & Science College
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M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

Ref. No. : ..... Date : .....

Report

Majority students of our college are drawn from agricultural background families. The study of APMC is part of Economics Syllabi. Hence, students are expected to understand the functioning of Agricultural Produce Marketing Committee (APMC) which is known as Regulated Market. Accordingly the Department of Economics arranged one day visit to APMC, Muddebihal on 31st August, 2021. A total of two faculty members and 18 students made visit to APMC and Commission Agent Trading Companies in the market yard.

The students interacted with officials of the APMC, Trading Agents and understood the mechanism of agricultural marketing, special schemes and facilities etc, available for farmers. Information gathered during the field visit enabled students prepare field visit report. This participatory learning made them understand proper functioning of APMC.

Co-ordinator,
Internal Quality Assurance Cell
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MUDDEBIHAL-586212. Dist: Vijayapur.

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Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,
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email : princmgvc@gmail.com

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

Ref. No. Date :

Department of History and Archaeology
BA VI th Semester
2021-22
"FIELD VISIT TO KUNTOJI, SAROOR, AND KOLUR"
Report on Field Visit Date: 01-09-2021
Faculty: Dr. R. H. Sajjan

Permission Letter

To,
Principal
MGVC Arts, Commerce
and Science College
Muddebihal

Sub:- Requesting Permission for filed Visit regarding.

****

Sir,

With reference to subjected cited above B.A. 6th Semester History optional students are planned for filed visit. At Kuntoji, Saroor and Kolur. The filed visit upgrade the knowledge of the students. Hence i requesting you to give Permission for the filed visit.

Co-ordinator, IQAC
M.G.V.C. College, Muddebihal.

Thanking You,

PRINCIPAL
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Yours Faithfully

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Field Work Visit
Sasur - Gram & Kuntoji

Co-ordinator,
Heritage Club
M.G.V.C. College, Muddebihal.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

Sasur, Kuthuji

Co-ordinator,
Heritage Club
M.G.V.C. College, Muddebihal.

PRINCIPAL.
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

Department of History and Archaeology.

Block No. ..... Room No : .....

S. G. V. C. Vidya Prasarak Trust's,

MATOSHRI GANGAMMA VEERAPPA CHINIWAR ARTS, COMMERCE & SCIENCE COLLEGE, MUDDEBIHAL.

Subject : History - Field visit Date : 01-09-2021 Time : 10-00 to 2-30 pm

Class : VI th Semester **ATTENDANCE REPORT** Jr. Supervisor : Dr R.H. Sajjan

DEGREE BA SEMESTER EXAMINATION 2020 - 2021

Roll No.	University Seat No.	Name of the Candidate	Signature
01	A1854609	Akshata. B. Sindagi	A.B. Sindagi
02	A1854680	Manjula. C. Kumbar	M.C. Kumbar
03	A1854644	Gangamma Y. Chalawadi	G. Y. Chalawadi
04	A1854671	Lakshmi. Y. Turadagi	[illegible]
05	A1854711	Priyanka. S. Tamadaddi	[illegible]
06	A1854733	Savita. M. Gudihal.	[illegible]
07	A1854786	Zeeya. M. Mudhal	Z.M. Mudhal.
08	A1854742	Shilpa. M. Nayak	S.M. Nayak.
09	A1854631	Bhagyashree. S. Biradar	B.S. Biradar
10	A1854608	Akshata A. Rathod	A.A. Rathod
11	A1854731	Saroja. P. Sagar	[illegible]
12	A1854678	Malashree B Waddar	[illegible]
13	A1854766	Sumitra. S. Biradar	S.S. Biradar
14	A1854720	Sabamma. B. Patil	S.B. Patil.
15	A1854687	Manoj. R. Sajjan	[illegible]
16	A1854746	SHIVAKumar Rathod	S. S. Rathod
17	A1854674	Mahammad Rafiq	[illegible]
18	A1854688	Mantagouda. S. Biradar	M.S. Biradar.
19	A1854668	Keshav. K. Bhajantri	[illegible]
20	A1854762	SOMAPPA. S. MADAR	[illegible]
21	A1854701	Roosumaseen. M. Dodamani	[illegible]
22	A1854654	Hulagappa Handral	[illegible]
23	A1854610	Alabhakish. K. Pinzar	[illegible]
24	A1854686	Manjunath Nawalli	M.S. Nawalli
25	A1854645	Gangappa. N. K	[illegible]
26	A1854679	Mallikarjuna A. Byalad	[illegible]
27	A1854795	Sangamma H. Bhoyar	[illegible]
28	A1854768	Sunil. R. Chalawadi	S.R. Chalawadi
29	A1854697	Ningemmath Jagadaki	[illegible]
30	A1854659	Jayabai R. Balawad	[illegible]
31	A1854606	Akshata S. Jamadar	[illegible]
32	A1854779	Vijalaxmi Badiger	[illegible]

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Ref. No. : ..... Date : .....

Department of History and Archaeology
BA VI th Semester
2021-22
"FIELD VISIT TO KUNTOJI, SAROOR, AND KOLUR"
Report on Field Visit Date: 01-09-2021
Faculty: Dr. R. H. Sajjan

Report

Deportment of History conducted Field visit for 32 B.A 6th sem students on 01/09/2021. Explained to students Arts and Architecture importance era. Architecture style, importance of various statue of Shree Sangameshwar Temple at Kuntoji. Later explained about development seven border of Saroor . Historical importance persons of Panchkoot temple and Shree Mallikarjun Temple. Students understood Ramalingeshwar Temple at Kolur. And Talikot battle in 1565 A.D. students watched statue of Ramaray who died in battle.

Students understood of all matter and enjoyed.

Co-ordinator,
Heritage Club
M.G.V.C. College, Muddebihal.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
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Co-ordinator,
Internal Quality Assurance Cell
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* email : princmgvc@gmail.com * www.mgvcmbl.org *

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt. Vijayapur.

Ref. No. : ..... Date : .....

From,
HOD of Economics
MGVC College, Muddebihal

To,
The Manager
Human Resource Division
K.N. Muddebihal Solar Energy Pvt. Ltd. Yaragal

Respected Sir,

Sub: Seeking permission to visit K.N. Muddebihal Solar Energy Pvt. Ltd. Yaragal

The visit to solar power plant is part of the Economics Syllabi for B.A. students. Accordingly we seek your permission to visit solar power plant on 2nd September, 2021. The list of students and staff members intending to visit the plant is as follows.

List of Staff:

1. Dr. B.A.Guli
2. Prof. R.D.Nandeppanavar

List of students

1. Gyanesh Yarazari
2. Hanamantagouda S. Biradar
3. Manjunath Navadagi
4. Basanagoud Nelagaddi
5. Sadasiva Yadavannavar
6. Parushuram Chalawadi
7. Shilpa Nayak
8. Yallalinga Hayyali
9. Zeeya Mudnal
10. Anil Kolakar
11. Viajayalaxmi Badiger
12. Gangappa Kunchikoravar
13. Shushil Nayak
14. Pradeep Ingaleshwar
15. Manjunath Dodamani
16. Habbob Nadaf
17. Sravankumar Bannatti
18. Basavaraj Bavikatti
19. Manjunath Upanal
20. Hanamanta Madar
21. Anand Devoor
22. Venkatesh Rathod
23. Parushuram Chalawadi
24. Pravin Biradar
25. Sangamesh Dalawai
26. Abhishek Hunashyal
27. Anand Kamanakeri
28. Mahantesh Biradar

Yours Faithfully

PRINCIPAL
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

st Approved , Please make sure everyone should wear shoes while on plant

e Slot – 11 AM

Thanks & Regards
Shiva Kumar
K N Muddebihal solar Energy Pvt Ltd
Yatnal Cluster, 9741285834

From: MGVC Arts,Commerce and Science College Muddebihal <princmgvc@gmail.com>
Sent: Wednesday, September 1, 2021 2:05 PM
To: Shiva Kumar <Shiva.Kumar@adani.com>
Subject: Seeking Permission to visit Solar Power Plant

***CAUTION**: This mail has originated from outside Adani. Please exercise caution with links and attachments.*

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MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
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MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
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FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

Notice

The Department of Economics organizes one day Field/Industrial Visit on 2nd September, 2020. Hence all students of Economics are hereby informed to contact Prof. R.D. Nandeppanavar and get your name enrolled and assemble in the college premise at 07.30 am on the above mentioned date.

Date: 30-08-2020

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M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212.

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MUDDEBIHAL
-586212
Dt: Vijayapur

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science Co
MUDDEBIHAL-586212. Dist: Vijayapur

Visit to Solar Power Plant, Yaragal on 2nd September, 2021

HOD of Economics with power plant staff

Students and staff with plant Engineers

Observing the Solar Power Plant premise

Discussion with Solar Power plant Engineers

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
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Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
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FAX : 08356220329 / 221121

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Ref. No. : ..... Date : .....

Report

The Department of Economics under Planning Forum arranged one day field visit/plant visit & picnic on 2nd September, 2021. Dr. B.A. Guli, Prof. R.D. Nandeppanavar along with 28 students of the department visited Solar Energy Plant, Yaragal, Neem Oil Plant, Pomegranate Farm, Muddebihal and enjoyed beautiful greenery picnic spot at Mahakoota which is an important historical place of Karnataka.

Students of the department who visited different places collected relevant information, classified, analyzed and prepared the reports. This enabled participatory learning and enhanced knowledge horizon of the students.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Department of Economics & Planning Forum - 2020-21

Visit to Neem Oil Plant (SSI) at Alamatti Road, Muddebihal

Staff and students at the Neem Oil Plant premise

Date: 02-09-2021

Staff & sttudents with owner of the neem oil plant Sri. Rahul R. Bhosale, Muddebihal

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

MGVC ARTS COMMERCE & SCIENCE COLLEGE

MUDDEBIHAL

DEPT OF ECONOMICS

VISIT TO

NEEM OIL PLANT- MUDDEBIHAL

FIELD VISIT REPORT

2020-21

NAME : MANJUNATH CHALAWADI

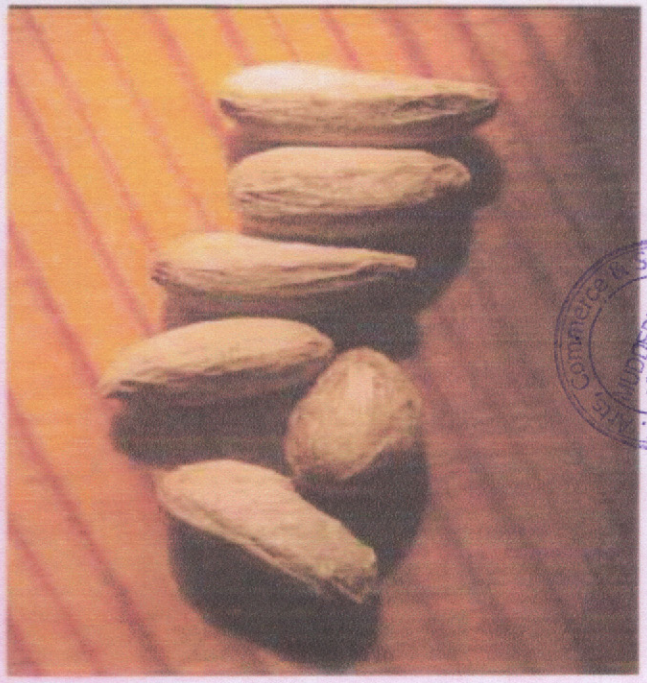
CLASS : B.A 4TH SEM

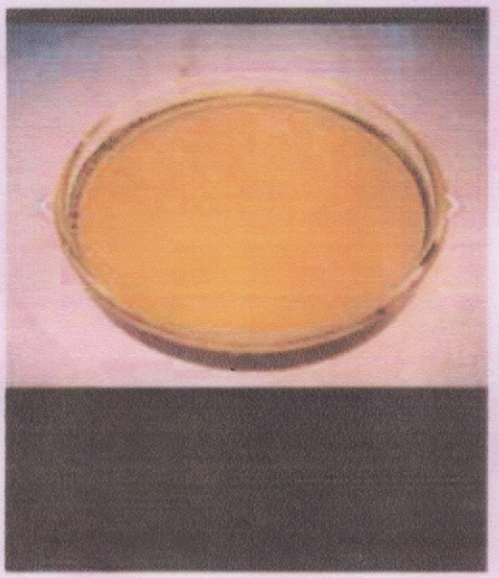
REGISTER NO : A1950500

SUBMITTING TO : B.A.GULI Sir

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.





ಚೆಲಿನ ಎಣ್ಣೆಯ ಉಪಯೋಗಗಳು

ಚೆಲಿನ ಎಣ್ಣೆಗೆ ಇರುವ ವಿಶಿಷ್ಟ ಗುಣಗಳ ಕಾರಣದಿಂದ ಇದನ್ನು ಸಾಬೂನುಗಳ ತಯಾರಿಕೆಯಲ್ಲಿ ಹೆಚ್ಚಿನ ಬಳಕೆಮಾಡುತ್ತಾರೆ. ಇದರ ಎಣ್ಣೆಯಿಂದ ಮಾಡಿದ ಸಾಬೂನು ಬುರುಗು / ನೊರೆ ಚೆನ್ನಾಗಿ ಕೊಡುತ್ತದೆ.

ಚೆಲಿನ ಎಣ್ಣೆ ಸಾಬೂನು ಉಪಯೋಗದ ಜೊತೆ ಬೇರೆನ್ನು ಬಗೆಗಿನ ಮಾಡಿ ಸಸ್ಯಗಳ ಮೇಲೆ ಹಂಚಿದರೆ ಸಸ್ಯಗಳಿಗೆ ಬೇಕಿ, ಕೀಟಗಳಿಂದ ಬರುವ ರೋಗಗಳಿಂದ ರಕ್ಷಣೆ ಕೊಡುತ್ತದೆ. ರಾಸಾಯನಿಕ ಮದ್ದುಗಳನ್ನು ಹೆಚ್ಚಿನ ಬಳಸುವುದಂತೆ ಪರಿಸರಕ್ಕೆ ಹೆಚ್ಚಿನ ಹಾನಿಯಾಗುತ್ತದೆ, ಚೆಲಿನ ಎಣ್ಣೆ ಸಾಬೂನು ಬಳಕೆಯಿಂದ ಪರಿಸರ ಮಾಡುವುದಂತೆ ತೊಂದರೆ / ಹಾನಿ ಇರುವುದಿಲ್ಲ.

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Dt: Vijayapur.

ಬೇವಿನ ಬೀಜದಿಂದ ಎಣ್ಣೆ ತೆಗೆಯುವ ವಿಧಾನ

ಪೇಖರಣೆ ಮಾಡಿದ ಬೇವಿನ ಹಣ್ಣುಗಳನ್ನು ಬೆಳಗಲು ಚೆನ್ನಾಗಿ ಒಣಗಿಸಬೇಕು, ಹಣ್ಣುಗಳ ಜೊತೆ ಇದ್ದ ಹಣ್ಣನ್ನು ತೆಗೆದು ಹಾಕಬೇಕು, ಒಣಗಿದ ಬೇವಿನ ಬೀಜವನ್ನು ಕೈಪಿಡಿಕೆ ಮೆಷಿನ್ ಅಥವಾ ಎಣ್ಣೆಕಲ್ಲು ಯಂತ್ರಗಳಲ್ಲಿ ನಡೆಸಿ ಎಣ್ಣೆಯನ್ನು ತೆಗೆಯುವರು. ಕೆಲವೊಂದು ಸಂದರ್ಭಗಳಲ್ಲಿ ಹಣ್ಣುಗಳ ಮೇಲೆ ಇರುವ ಹೊಗಲು ಮತ್ತು ನೆಪ್ಪೆಯನ್ನು ತೆಗೆದು ಆಮೇಲೆ ಎಣ್ಣೆಯನ್ನು ತೆಗೆಯುತ್ತಾರೆ. ಎಣ್ಣೆಯನ್ನು ತೆಗೆದ ಮೇಲೆ ಅಂಬಿ / ಪೆಂಡಿಯಲ್ಲಿ ಇನ್ನು ಎಣ್ಣೆ ಉಳಿಯುತ್ತದೆ ಅದನ್ನು ಸಾಬೂನು ಮತ್ತು ಕ್ರೂಡೆನು ಕ್ಲಾಂಬ್ಯಲ್ಲಿ ನಡೆಸಿ ತೆಗೆಯುತ್ತಾರೆ.

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Internal Quality Assurance Cell
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S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

Report

The Department of Economics under Planning Forum arranged one day field visit/plant visit & picnic on 2nd September, 2021. Dr. B.A. Guli, Prof. R.D. Nandeppanavar along with 28 students of the department visited Solar Energy Plant, Yaragal, Neem Oil Plant, Pomegranate Farm, Muddebihal and enjoyed beautiful greenery picnic spot at Mahakoota which is an important historical place of Karnataka.

Students of the department who visited different places collected relevant information, classified, analyzed and prepared the reports. This enabled participatory learning and enhanced knowledge horizon of the students.

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MUDDEBIHAL - 586212

DEPARTMENT OF ECONOMICS

And

PLANNING FORUM

Visit to Pomegranate Farm on 2nd September, 2021

Students and staff with pomegranate farm owner Sri. Rajendra Bhosale

Students Interaction with pomegranate farm owner

Co-ordinator,
Internal Quality Assurance Cell
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M.G.V.C ARTS COMMERCE & SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF ECONOMICS

FIELD VISIT REPORT

PROMEGRANATE CROP: AN ECONOMICS ANALYSIS

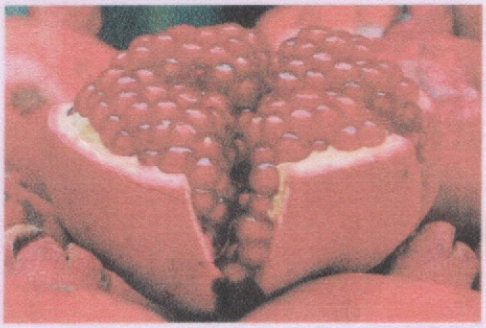
BY: MANJUNATH T UPANAL

CLASS: BA 2SEM

REG: A2056798

YEAR: 2021

GUIDE:DR B.A GULI HOD OF ECONOMICS



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Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.E.S. M.C. Arts, Com. & Sci. College Maddebihal

ತೋಟದ ವ್ಯಾಪಾರಿಗಳ ಹೆಸರು : ರಾಜೇಂದ್ರ ಬೋಣ್ಣಿ ಮತ್ತು ರವೀಂದ್ರ ಬೋಣ್ಣಿ

Cell NO : 9448130686

ತೋಟದ ಸ್ಥಳ. ಕ್ಷೇತ್ರ : ಮುದ್ದೆಬಿಹಾಳ

ಕ್ಷೇತ್ರ : 6 ಎಕರೆ

ಸಸಿಗಳ ಸಂಖ್ಯೆ : 2000

ನೆಟ್ಟ ದಿನಾಂಕ : 2/09/21

ದ್ಯಾಂಬೆಯಿಂದಾಗುವ ಉಪಯೋಗಗಳು

G.V.C. Arts, Com. & Sc. College Moodabidri

* ಹೃದಯ ಮತ್ತು ಬಿಗುಳಿನ ತಡೆಯ ರಕ್ತಛೇದಿಗೆ ಒಳ್ಳೆಯದು.
* ಬೇರಿನ ಚರ್ಮದ ತಡೆಯದಿಂದ ಗುದ ಕುಳುವಿನ ಸಮಸ್ಯೆ ನಿವಾರಣೆ ಆಗುತ್ತದೆ
* ಬೇರನ್ನು ಅರೆದು ಹಾಲಿಗೆ ಬೆರೆಸಿದರೆ ಬಟ್ಟೆದ ತೆಳೆಹೋಗಿ ಬಾಯಿ ಆಗುತ್ತದೆ
* ಮೇಸ್ಸಿನ್ನು ಬಿಗಿದಿ ದಿನಕ್ಕೆ ಎರಡು ಹೊತ್ತು ಸುಲಸಂಡೆಯನ್ನು ಸೇವಿಸುವುದರಿಂದ ಕೆಮ್ಮು ಗುಣವಾಗುವುದಕ್ಕೆ ಸಹಾಯಕಾರಿ
* ಬಿಗುಳಿನ ಬೆಳೆದ ತಡೆಯದ ನಿಯಂತ್ರಣೆಯನ್ನು ಬೈಕ್ಕಿ ಹಾಲು ಹೆಚ್ಚಾಯನ್ನು ಸೇವಿಸುವುದರಿಂದ ಗ್ಯಾಸ್ಟ್ರಿಕ್ ಟ್ರಬಲ್ ನಿವಾರಣೆ ಆಗುತ್ತದೆ
* ಬಿಗುಳು ಬೆಳೆಯ ತಡೆಯದಿಂದ ಮುರ್ಕ್ಯಸುವುದರಿಂದ ಬಾಯಿ ದುರ್ವಾಸನೆ ಗುಣವಾಗುವುದು

S. G. V. C. Vidya Prasarak Trust's,
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M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

M.G.V.C. Arts Commerce and Science College
Muddebihal

Department of Commerce

A REPORT ON VISIT TO SAI DAL INDUSTRY MUDDEBIHAL

2020-21

SUBMITTED BY :B.COM FINAL YEAR STUDENTS

SUBMITTED TO :DEPARTMENT OF COMMERCE

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

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✆ : 08356220329 / 222175
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* email : princmgvc@gmail.com *

Ref. No. : ..... Date : .....

To,
Manager Sai
Dal Industry
Muddebihal

Sub: Seeking Permission to Visit Sri Sai Dal Industry Muddebihal

Dear Sir/Madam

Visit to Sri sai Dal. Industry is part of the Commerce Syllaby for B.com Students. Accordingly we seek your permission to visit Sri Sai Dal. industry on 04-09-2021. The list of Students and Staff members intending to visit Sri Sai Dal is as follows:

Staff :
List attached with this letter

Students:
List attached with this letter.

We appreciate your response in this regard

Thanking You

Head,
Department of Commerce,
M.G.V.C. College, Muddebihal

PRINCIPAL
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212

M.G.V.C. ARTS,COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL
DEPARTMENT OF COMMERCE

The department of commerce as a part of study ,Visited to "SRI SAI DAL INDUSTRY MUDDEBIHAL" held on 04/09/2021 at 11.00 oclock . There are Four faculty member and Fifty students Lists.

The faculty member .

01. Prof. A.D.Talugeri
02. Prof. M.I.Biradar
03. Prof.S.R.Hatti
04. Prof. S.H.Natekar

The students List

SL.No	Name of the students
01.	Suvarana .meti
02.	Pooja petakar
03.	Bibiayesha kolur
04.	Bhagyashree. Jayawadagi
05.	Shaila Binijalabavi
06.	Sunita Pyatishettar
07.	Rakshita .pattar
08.	Vijayalaxami. Talikoti
09.	Nivedita. Tondihal
10.	Yamuna .chalawadi
11.	Sneha.Karadi
12.	Pooja. Doddamani
13.	Padama .Doddamani
14.	Shanta.goudar

Head,
Department of Commerce,
M.G.V.C. College, Muddebihal

Co-ordinator,
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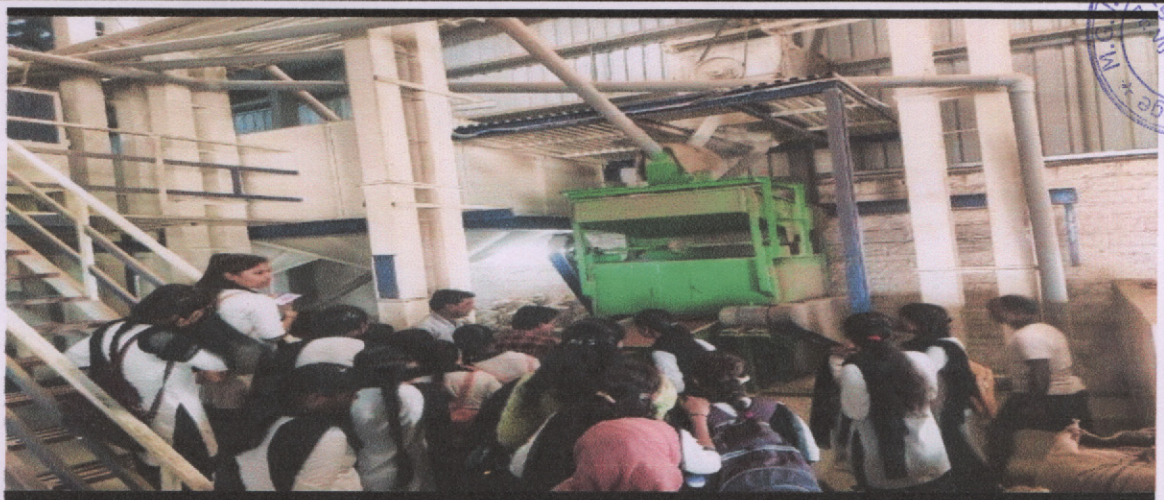
15. Aishwarya.Kolur
16. Aishwarya.Hokarani
17. Preeti. Janevekar
18. Shivamma.biradar
19. Sushmita. Shettar
20. Gurudevi.Deshmukh
21. Vaishanvi.biradar
22. Jyoti.Anegundi
23. Bharat
24. Anil.Pyati
25. Akash.kalyani
26. Akash.kankal
27. Anand. Daddi
28. Arun
29. Devendara. Badiger
30. Dharmasing
31. Iliyas . Chimmalgi
32. Iranna.badiger
33. Kiran .Ingalagi
34. Kirankumar.hebbal
35. Kirankumar.Biradar
36. Laalsaab.Nadagundi
37. Mahesh. Lamani
38. Mahesh
39. Mallikarjun .Hiremath
40. Ravi.kolur
41. Rahul.Ratnakar
42. Sharifsaheb.Chabanur
43. Siddappa.Bangaragunda
44. Somappa.madar
45. Vinod.Tadasad
46. Umesh.patil
47. Sayabanna.biradar
48. Laxmee.biradar
49. Priyanka.rampur
50. Renuka .Natekar



Muddebihal - Talikoti Rd, Kuntoji,
Karnataka 586212, India
04 Sep 2021 12:03 pm

Muddebihal - Talikoti Rd, Kuntoji,
Karnataka 586212, India
04 Sep 2021 12:03 pm

Coordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Muddebihal - Talikoti Rd, Muddebihal,
Karnataka 586212, India
04 Sep 2021 12:42 pm

Muddebihal - Talikoti Rd, Kuntoji,
Karnataka 586212, India
04 Sep 2021 12:03 pm

Co-ordinator,
Internal Quality Assurance Cell
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PRINCIPAL,
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Introduction to Toor dal Mill Project

Toor dal Milling is a profitable business in India. you can plan the business set up based on the production output. Dal Milling is a the third largest food processing industry in India next to rice & wheat.

Techuical aspects of toor dal Mill project

1) The Production capacity of toor dal Mill 250 kg/hr
2) The number of shifts are two
3) The daily production capacity for the Mill should be 3.53 tons.
4) The Number of Working days per annum of the mill should be 300 days
5) The annual production of the Mill should be 6%
6) Loss during de-husking should be 6% and it should not exceed this percentage.
7) The net production per annum should be 500 tons.

Fixed capital Requirements

1) The cost involved in for site development ₹ 40,000
2) cost Involved in the construction of work shed is ₹ 5,00,000

3) cost involved in setting up toor dal Mill plant & Machinery is ₹ 2,00,000

4) The Miscellaneous charges & fixed assets is ₹ 50,000

5) The pre-operative expenses involved in setting up the Mill project is ₹ 35,000

The total fixed capital investments include Rs 8,25,000

B.L.D.E.A's V.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

Working capital Requirements

1) Raw materials and consumables for 1 Month is Rs 9,00,000

2) cost involved for finished goods for 1 week is Rs 3,00,000

3) Expenses for workers for 1 Month is Rs 50,000

4) Receivables for 1 week is Rs 3,00,000

The total Working capital costs for toor dal mill is ₹ 15,50,000

Working capital to be financed as

Marginal Money is Rs. 4,00,000

Bank finance provided is Rs 12,00,000

Term loan is 75% in Rs 6,00,000

Promoter's equity is 25% in Rs 2,00,000

Total cost involved Rs 8,00,000

Cost of the Product & Profit Percentage

M.G.V.C. Arts, Commerce & Science College
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Capacity utilization is 70% - set A

output in million tons is 500MT/annum - set B

Annual revenue Rs 12,50,000

The cost of toor dal is Rs 25,000 per tonn and the annual sales for 500 MT is Rs 12,50,000

Hence the profit can be expected more than 40%.

Process of Toor dal Milling

1] Raw Toor Grains
2] Grain cleaning process
3] pitting into Roller Dehusker
4] oil smearing process
5] Water treatment process
6] polishing process
7] Drying & cooling process
8] Dehusking process
9] splitting process
10] Final split Toor Dal

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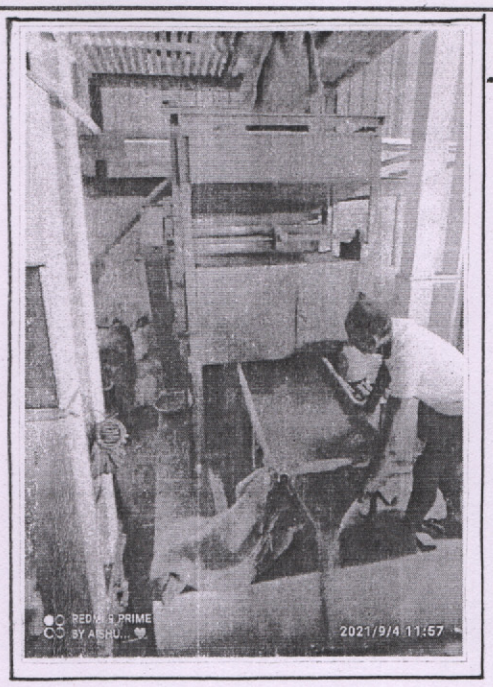
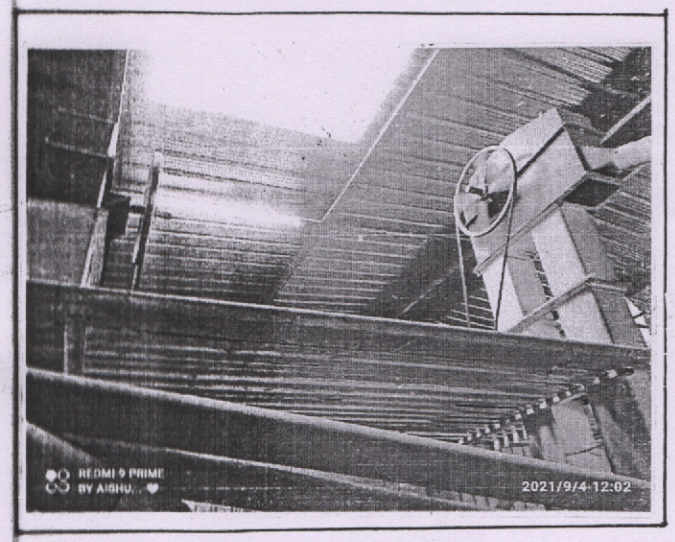
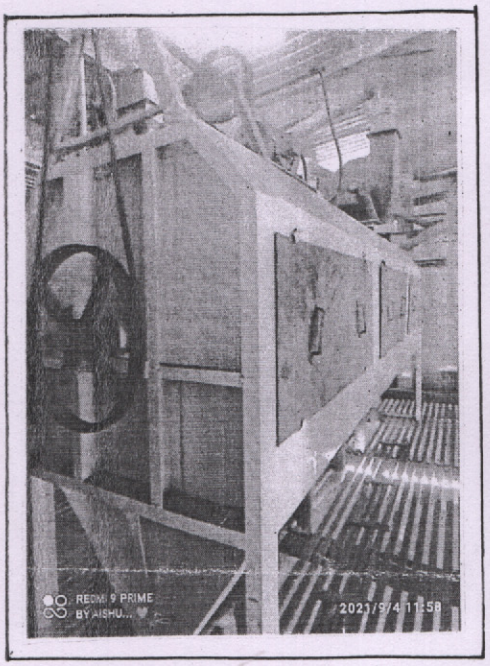
Raw Toor Grains



Grain cleaning Process



Pitting into Roller Dehusker



oil smearing process

splited Grains

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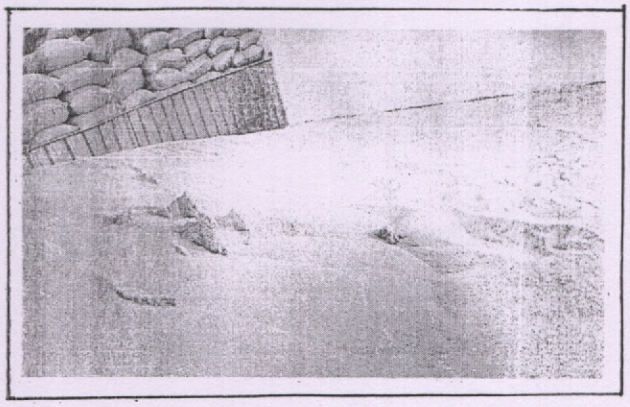
Spliting Process



Final split Toor dal

Taking Guidance by Factory owner Respected C.P. Sajjan Sir. Thanks To C.P. Sajjan Sir for giving us a such informative knowledge. And Thanks To Anil Sir and S.R. Hatti Sir for taking us to the factory and explaining us from start to the end of the Process. We all are very very Thank full to you both Sir.

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Ref. No. : ..... Date : .....

DEPARTMENT OF COMMERCE

REPORT ON INDUSTRIAL VISIT

The department of commerce as a part of study, organized a Industrial visit to" "SRI SAI DAL INDUSTRY MUDDEBIHAL". on 04/09/2021 at 11.00 AM. Team of fifty students and four faculty members are participated in the industrial visit. The students are interactive to the owner of dal industry.

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PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

FIELD VISIT

DURING THE YEAR 2021-22

HORTICULTURE DEPARTMENT AT ALMATTI DAMSITE

B.Sc FIFTH SEMESTER STUDENTS

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

FIELD VISIT

DURING THE YEAR 2021-22

HORTICULTURE DEPARTMENT AT ALMATTI DAMSITE

Staff Meeting

All Botany staff members assembled in Botany lab to discuss Visit to Nursery, Industrial visit and study tour and finalize the date fixed on 23.11.2021. Rani Chanamma University Belgavi Botany syllabus recomended, visit to nursery - poly house / Green house & tissue culture lab and visit to effluent treatment plant to study recycling of waste water near by Industry & study the effect of industrial pollution near by water bodies (Biomagnifiration & Eutrophication). Study tour of minimum 2 days to study forest types and ecological groups.

1. Prof: S.V. Gurumath
2. Prof: B.N. Chawadapur
3. Prof. S.S. Chiraladinni

place: Muddebihal
Date: 19.11.2021

Head of the Department of Botany
M.G.V.C. College. MUDDEBIHAL-586212
Dist; Bijapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

M.G.V.C Arts, Commerce & Science College MUDDEBIHAL -586212 Dt. Vijayapur.

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M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

FIELD VISIT

DURING THE YEAR 2021-22

HORTICULTURE DEPARTMENT AT ALMATTI DAMSITE

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

M.G.V.C Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

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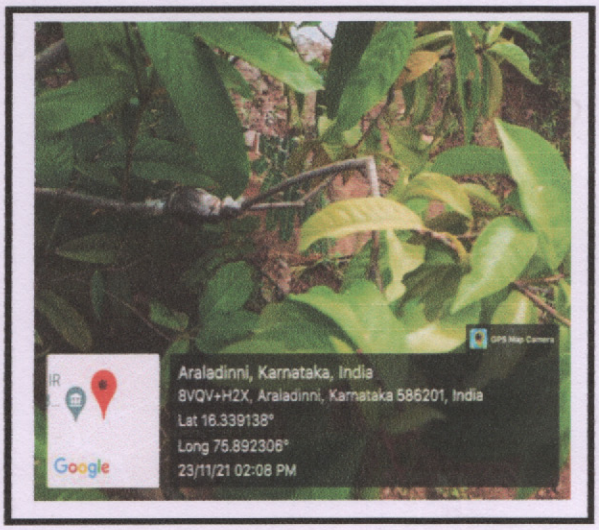
M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

FIELD VISIT

DURING THE YEAR 2021-22

HORTICULTURE DEPARTMENT AT ALMATTI DAMSITE



Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

To

The Principal

M.G.V.C.College

Muddebihal

Subject: Requesting to give permission to visit to Horticulture Department at Alamatti Damsite, Botany staff members along with B.Sc Fifth Semester students on 23.11.2021. Rani Channamma University is recommended in syllabus visit to nursery-poly house/Green house and tissue culture lab.

Students List

Sr.No	Name of the Students
1	**Shrikant.Naik**
2	**Anasultana Mulla**
3	**Kavya. N.Bijjur**
4	**Veena.Desai**
5	**Veena.Gubachi**
6	**Mounesh Pattar**
7	**Ashok.Ammapur**
8	**Ramu.Ganjihal**
9	**Sudeep.Tiganibidari**
10	**Madhusudhan.Lokare**
11	**Rajeshekhar.**

12	Nagangouda.Policepatil
13	Ramesh.Dodamani
14	Praveen. Odi
15	Shankar.Deshmukh
16	Akash.Jadhav
17	Waseem.Bagawan
18	Musktumsab.Mamdapure
19	Shreedhar.Huagar
20	Amaresh.Kolur
21	Husenbasha.Havargi
22	Pruthvi.G.Boodi
23	Gurudevi.Policepatil
24	Sunanada.M.Hadapad
25	Sangeeta.S.Ullagadi
26	Kruthi.S.Nalatawad
27	Malanbegum.K.Nadaf
28	Amrutha.Hiremath
29	Tejeshwini.R.Hosamani
30	Supriya.S.Hugar
BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 23-11-2021

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Coordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

B.Sc. V Semester (w.e.f. 2019 – 20)

Botany Paper - I

50

Paper-I: Plant Breeding, Tissue Culture and Horticultural Practices.

Hrs

Unit I: Plant Breeding: History and objectives. Introduction, Selection (Pure line, Mass Selection). Hybridization- inter specific and inter generic. Mutational & Polyploidy breeding. Germ plasm and its maintenance. Pollen Bank, Quarantine method.

10 Hrs.

Unit II: Plant Tissue Culture: Scope and Significance. Basic Aspects and Cellular totipotency (Shoot tip, Embryo and Haploid culture techniques). Differentiation and morphogenesis.

10 Hrs.

Unit III: Introduction to Horticulture, Nursery management and importance.

Methods of propagation – vegetative – rhizome, bulb, corm and sucker (natural). Artificial: Cuttings, layering, grafting and budding. Bonsai – methods and importance. Nursery management: Introduction, types of nurseries and cultural practices. Seed (propagule) collection, storage and treatment. Manures, fertilizers and pesticides. Methods of irrigation – drip, sprinkler and flood.

12 Hrs.

Unit IV: Green House Technology – Introduction, advantages and limitations. Types of Green Houses- Green House structure, principle Greenhouse technology as applied to ornamental, vegetable and fruit plants. **08 Hrs.**

Unit V: Harvest Technology and Weed Management: Harvest Technology: Flower and fruit plants management. Artificial ripening, maturity indices, methods of picking. Post-harvest technology and management of fruits: grading, processing, storage and packing. Weed Management: Introduction and significance. Invasive weeds – concept and causes of their dominance. Weed control – physical, chemical and biological methods. **10 Hrs.**

Practicals:

1. Study of methods of propagation with help of tubers, bulbs, rhizomes, corms, suckers, runner and offset.
2. Study of propagation by cutting, layering, grafting and budding.
3. Methods of emasculation and bagging for cross-pollination.
4. Morphology and anatomy of dry and wet stigma.
5. Morphology and anatomy of solid and hollow styles.
6. Study of pollination types.
7. Demonstration of tissue culture techniques.
8. Visit to nursery - poly house /Green house and tissue culture lab.
9. Preparation of MS media for culture. 10. Bonsai techniques.

Co-ordinator,
Internal Quality Assurance Cell
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PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com *

Ref. No. : ..... Date : .....

To

The Horticulture Officer

Department of Horticulture

Almatti Damsite

Subject: Requesting to give permission to visit to Horticulture Department at Alamatti Damsite, Botany staff members along with B.Sc Fifth Semester students on 23.11.2021. Rani Channamma University is recommended in syllabus visit to nursery-poly house/Green house and tissue culture lab.

Kindly give permission to visit Nursery

Students List

Sr.No	Name of the Students
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2	**Anasultana Mulla**
3	**Kavya. N.Bijjur**
4	**Veena.Desai**
5	**Veena.Gubachi**
6	**Mounesh Pattar**
7	**Ashok.Ammapur**
8	**Ramu.Ganjihal**
9	**Sudeep.Tiganibidari**

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12	Nagangouda.Policepatil
13	Ramesh.Dodamani
14	Praveen. Odi
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19	Shreedhar.Huagar
20	Amaresh.Kolur
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25	Sangeeta.S.Ullagadi
26	Kruthi.S.Nalatawad
27	Malanbegum.K.Nadaf
28	Amrutha.Hiremath
29	Tejeshwini.R.Hosamani
30	Supriya.S.Hugar
BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 23-11-2021

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

M.G.V.C. Arts, Commerce & Science College ★ MUDDEBIHAL -586212 Dt: Vijayapur.

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

FIELD VISIT

DURING THE YEAR 2021-22

HORTICULTURE DEPARTMENT AT ALMATTI DAMSITE

OBJECTIVES

To Study artificial methods of Propagation by Cutting, Layering, Grafting and Budding in Ornamental plants and Fruit yielding plants.

OUT COME OF NURSERY VISIT

***Gaining knowledge of cutting, Layering, Grafting and Budding technique in different plants.**

***Knowledge of cutting, Layering, Grafting and Budding in Ornamental plants and Fruit yielding plants in their own land.**

S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B+' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com * www.mgvcmbl.org *

Ref. No. : ..... Date : .....

REPORT

Department of Botany organizes Field visit to Horticulture Department at Alamatti Dam site for B.Sc Fifth semester students on 23.11.2021.Rani Channamma University is recommended in syllabus visit to nursery-poly house/Green house and tissue culture lab. Study the Nursery techniques, types of Graftings by the experts.

HOD of Department of Botany
Head of the Department of Botany
M.G.V.C. College, MUDDEBIHAL-586212
Dist; Bijapur.

Principal
PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE

MUDDEBIHAL

STUDY TOUR FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: ALAMATTI DAMSITE

DATE: 23.11.2021

B.Sc FIFTH SEMESTER STUDENTS

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212.

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

To

The Principal

M.G.V.C.College

Muddebihal

Subject: Requesting to give permission to visit Balaji Sugar Factory at Yaragal and Alamatti Damsite, Botany staff members along with B.Sc Fifth Semester students on 23.11.2021. Rani Channamma University is recommended in syllabus to visit to effluent treatment plant to "study recycling of waste water nearby industry to study the effect of industrial pollution nearby water bodies", visit to nursery-poly house/Green house and tissue culture lab and **study tour to study forest types and ecological groups.**

Students List

Sr.No	Name of the Students
1	**Shrikant.Naik**
2	**Anasultana Mulla**
3	**Kavya. N.Bijjur**
4	**Veena.Desai**
5	**Veena.Gubachi**
6	**Mounesh Pattar**
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10	**Madhusudhan.Lokare**
11	**Rajeshekhar.**
12	**Nagangouda.Policepatil**
13	**Ramesh.Dodamani**
14	**Praveen. Odi**
15	**Shankar.Deshmukh**
16	**Akash.Jadhav**
17	**Waseem.Bagawan**

18	Musktumsab.Mamdapure
19	Shreedhar.Huagar
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23	Gurudevi.Policepatil
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25	Sangeeta.S.Ullagadi
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27	Malanbegum.K.Nadaf
28	Amrutha.Hiremath
29	Tejeshwini.R.Hosamani
30	Supriya.S.Hugar
BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 23-11-2021

PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

S.G.V.C Vidya Prasarak Trust's

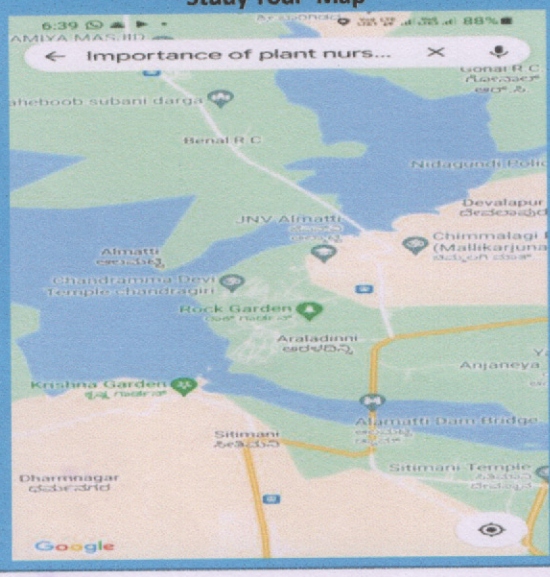
M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

STUDY TOUR FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: ALAMATTI DAMSITE

Study Tour Map



Study tour B.Sc V th Sem students at Almatti

B.Sc V th Sem students & Staff members at Almatti

B.Sc V th Sem students & Staff members at Almatti

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

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S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

STUDY TOUR FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: ALAMATTI DAMSITE

Study tour B.Sc V th Sem students at Almatti

Study tour B.Sc V th Sem students at Almatti

Study tour B.Sc V th Sem students at Yaragal

Study tour B.Sc V th Sem students at Yaragal

S. G. V. C. Vidya Prasarak Trust's,
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MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
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✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com *

Ref. No. : .....

Date : .....

M.G.V.C. Arts, Commerce & Science College * MUDDEBIHAL-586212 Dt: Vijayapur

REPORT

Department of Botany organizes study Tour for B.Sc Fifth semester students on 23.11.2021 at Alamatti Damsite. Rani Chanamma University Belagavi recommended study tour in B.Sc Vth semester.Botany staff members along with students went to study tour.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212.

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Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE

MUDDEBIHAL

INDUSTRIAL VIST FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: BALAJI SUGAR FACTORY AT YARAGAL

Front view of Balaji Sugar Factory at Yaragal

DATE: 23.11.2021

B.Sc FIFTH SEMESTER STUDENTS

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212.

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

To

The Principal

M.G.V.C.College

Muddebihal

Subject: Requesting to give permission to **visit Balaji Sugar Factory at Yaragal** and Alamatti Damsite, Botany staff members along with B.Sc Fifth Semester students on 23.11.2021. Rani Channamma University is recommended in syllabus to **visit to effluent treatment plant to "study recycling of waste water nearby industry to study the effect of industrial pollution nearby water bodies"**, visit to nursery-poly house/Green house and tissue culture lab and study tour to study forest types and ecological groups.

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10	**Madhusudhan.Lokare**
11	**Rajeshekhar.**
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13	**Ramesh.Dodamani**

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BOTANY STAFF MEMBERS	
1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 23-11-2021

Head of the Department of Botany
M.G.V.C. College, MUDDEBIHAL-586212
Dist: Bijapur.

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

S. G. V. C. Vidya Prasarak Trust's,
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Ref. No. : .....

Date : .....

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

To

The M D

Balaji Sugar Factory

Yaragal Tq.Muddebihal

Subject: Requesting to give permission to **visit Balaji Sugar Factory at Yaragal** and Alamatti Damsite, Botany staff members along with B.Sc Fifth Semester students on 23.11.2021. Rani Channamma University is recommended in syllabus to **visit to effluent treatment plant to "study recycling of waste water nearby industry to study the effect of industrial pollution nearby water bodies",** visit to nursery-poly house/Green house and tissue culture lab and study tour to study forest types and ecological groups.

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10	**Madhusudhan.Lokare**

Coordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212.

11	Rajeshekhar.
12	Nagangouda.Policepatil
13	Ramesh.Dodamani
14	Praveen. Odi
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1.	Prof: S.V.Gurumath
1	Prof: B.N.Chawadapur
2	Prof: S.S.Cheeraladinni
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 23-11-2021

PRINCIPAL,
M. G. V. C. Arts, Com & Science College
MUDDEBIHAL - 586212

Co-ordinator,
Internal Quality Assurance Cell
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

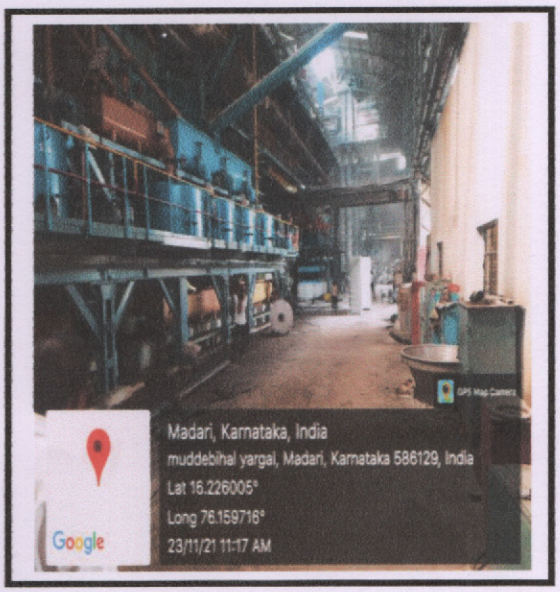
S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

INDUSTRIAL VISIT FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: BALAJI SUGAR FACTORY AT YARAGAL



Co-ordinator,
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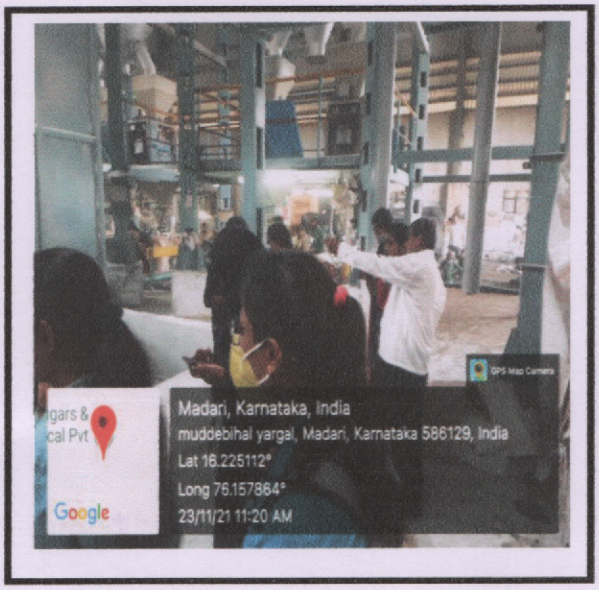
M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

INDUSTRIAL VISIT FOR B.Sc FIFTH SEMESTER STUDENTS

PLACE: BALAJI SUGAR FACTORY AT YARAGAL



S. G. V. C. Vidya Prasarak Trust's,
Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,
MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 2.58 on seven point scale at 'B' Grade)

✆ : 08356220329 / 222175
FAX : 08356220329 / 221121

* email : princmgvc@gmail.com *

Ref. No. : .....

Date : .....

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur.

REPORT

Department of Botany organizes Industrial Visit, B.Sc Fifth semester students on 23.11.2021 Visit to Balaji Sugar Factory at Yaragal. Rani Channamma University is recommended in syllabus in B.Sc Vth Semester, **visit to effluent treatment plant to "study recycling of waste water nearby industry to study the effect of industrial pollution nearby water bodies".** 30 B.Sc 5th Semester students and four staff members visit to sugar factory.

Co-ordinator,
Internal Quality Assurance Cell
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Principal

S.G.V.C Vidya Prasarak Trust's

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL

DEPARTMENT OF COMMERCE

FIELD VISIT TO

"AMUYA FINANCIAL CENTRE MUDDEBIHAL"

Date: 29-06-2022 **Time: 12.00 pm**

Welcome to All

Co-ordinator,
Internal Quality Assurance Cell
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Ref. No. : .....

Date : 28/6/2022

To,

Manager

Amulya financial literacy centre

Muddebihal

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL -586212 Dt: Vijayapur

Subject : Seeking Permission to visit Amulya financial literacy centre Muddebihal .

Dear ,Sir / Madam

Visit to Amulya financial literacy centre Muddebihal is part of the study of commerce syllabus for B.com students . Accordingly we seek your permission to visit visit Amulya financial literacy centre Muddebihal On 29/06/2022. The list of Students and Staff members intending to visit visit Amulya financial literacy centre Muddebihal is as follows.

Staff : Prof .S.R.Hatti

Prof .A.D.Talugeri

Students : List attached with this letter

We appreciate your response in this regard

Thanking you

Head,
Department of Commerce,
M.G.V.C. College, Muddebihal

For, AMULYA FINANCIAL LITERACY CENTRE
29-6-2022
MUDDEBIHAL, COUNSELOR.

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M.G.V.C. Arts, Commerce And Science College
Muddebihal

Department of Commerce

The department of commerce as a part of study , Visited to Amulya financial literacy centre muddebihal held on 29/06/2022 at 12.00 O'clock . There are Two faculty members and 18 Students lists.

The Students list :

Sl.No	Name of the Students
01	Shivaraj.S.hatti
02	Sagar.Mudhol
03	Abhishek
04	Ramesh.M.Masti
05	Sudeep.Patil
06	Praveen.P.Hiremath
07	Veena.S.Goudar
08	Nivedita.S.Ambiger
09	Prema.S.Nerabenchi
10	Akshata.B.Hiremath
11	Vijayalaxami.S.Hunashyal
12	Ashwini.M.Nidagundi
13	Bhoomika.Pattar
14	Sahana.M.Badiger
15	Deepa.S.Chalawadi
16	Shivanagouda.Patil
17	Moulasab.Hunagund
18	Aspak.I.Yalagi
19	Mounesh.Badigera
20	Moulali.Chapparband

Co-ordinator,
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Financial literacy

Financial literacy is the possession of the set of skills and knowledge that allows an individual to make informed and effective decisions with all of their financial resources. Raising interest in personal finance is now a focus of state-run programs in countries including Australia, Canada, Japan, the United States, and the United Kingdom.[1][2] Understanding basic financial concepts allows people to know how to navigate in the financial system. People with appropriate financial literacy training make better financial decisions and manage money better than those without such training.[3]

The Organization for Economic Co-operation and Development (OECD) started an inter-governmental project in 2003 with the objective of providing ways to improve financial education and literacy standards through the development of common financial literacy principles. In March 2008, the OECD launched the International Gateway for Financial Education, which aims to serve as a clearinghouse for financial education programs, information and research worldwide.[4] In the UK, the alternative term "financial capability" is used by the state and its agencies: the Financial Services Authority

Importance

Learning financial literacy has the following benefits:

1 – Personal Financial Planning and Management

Individuals who gain financial knowledge develop various sources of income. They prepare a monthly budget and borrow carefully. Financial knowledge ensures diligent financial management—enough savings for a rainy day.

2 – Identify Fake Schemes

Contemporarily, financial fraud is on the rise—chit funds, **pyramid schemes**, **Ponzi schemes**, **carding**, etc. A financially literate person will evade shady schemes. It is the perfect antidote to get-rich-quick schemes.

3 – Spread Investment Awareness

Financial education does not occur in a vacuum. It is not an isolated incident. Educating one individual creates a chain reaction. Such an individual would make efforts to educate family, friends, students, colleagues, etc. A financially literate individual may conduct seminars, teach in colleges, write articles and books, mentor students, etc.

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Everyone is interested in finance; everyone is a stakeholder. Therefore, financial literacy is a movement; "**FIRE**" is a good example.

4 – Succession Planning

It is often said that the poor plan for Saturday night whereas the rich plan for three generations. By being financially prudent, individuals impart valuable knowledge to their children. Moreover, they plan their succession and leave sufficient money for their successors.

5 – Refrains from Herd Mentality

The financially literate don't follow random public opinion. They get to the bottom of every financial trend. They are more immune to incorrect market speculation. They make cautious investors, but in the long run, the profits add up.

6 – Financial Planning and Decision Making

It is very important to set up an **emergency fund** and a retirement plan—the earlier, the better.

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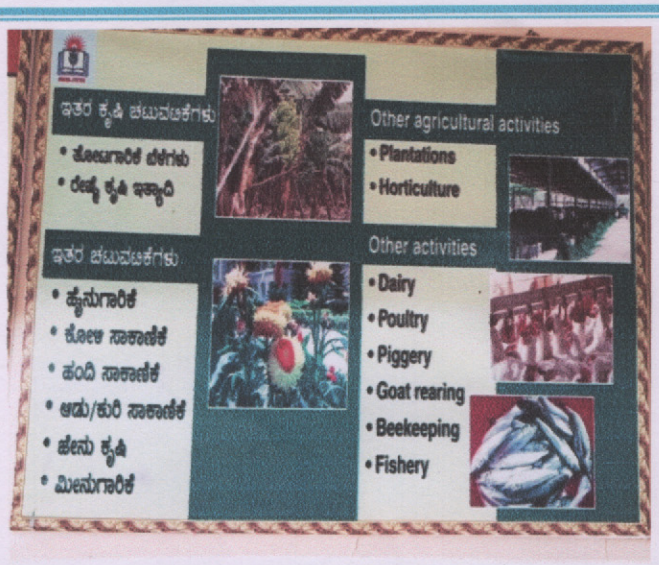
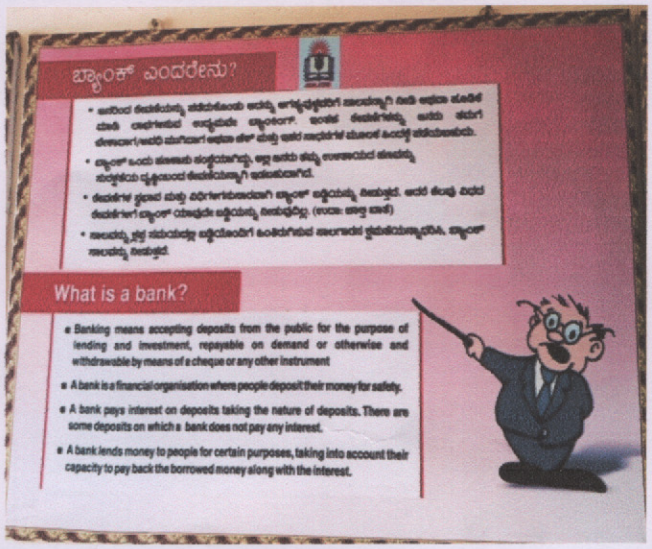
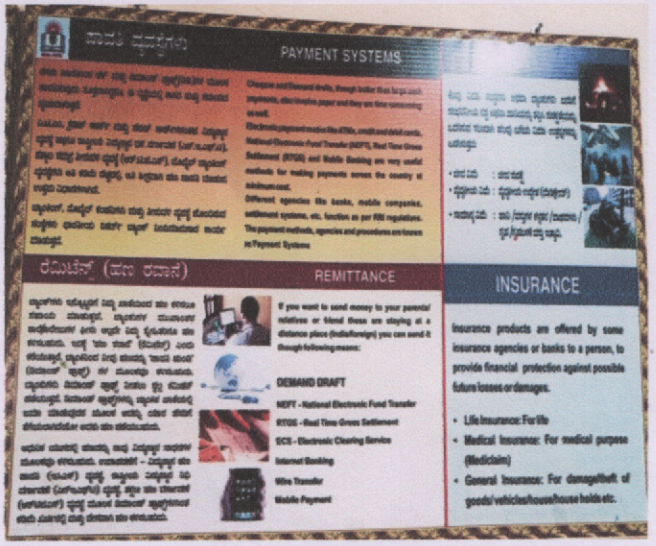
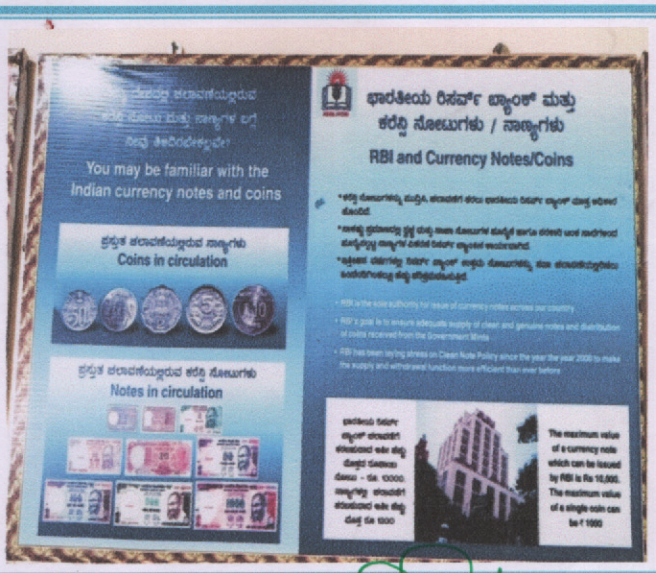
PHOTO GALLERY









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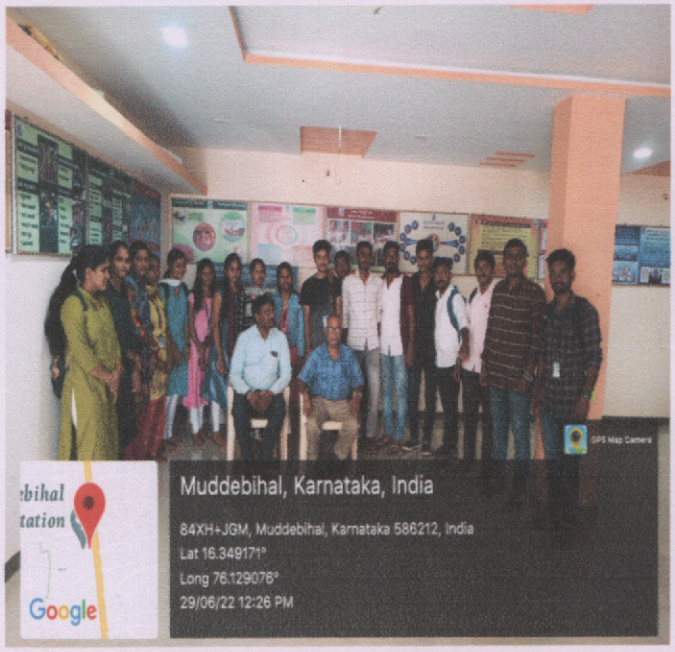

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Department of Commerce

Field Visit Report on Financial Literacy

Students Attendance report

Sl.No	University Reg.no	Name of the students	Signature
01	C2059656	Shivaraj.S.hatti	Shatti
02	C2059647	Sagar.Mudhol	Sagar
03	C2059601	Abhishek	Abhishek.
04	C2059642	Ramesh.M.Masti	Masti Ramesh
05	C2059660	Sudeep.Patil	Spatil
06	C2059640	Praveen.P.Hiremath	Praveen. Hiremath.
07	C2059664	Veena.S.Goudar	Goudar.
08	C2059633	Nivedita.S.Ambiger	N.S. Ambiger.
09	C2059641	Prema.S.Nerabenchi	prema. S.
10	C2059602	Akshata.B.Hiremath	Akshata
11	C2059665	Vijayalaxami.S.Hunashyal	V.S. Hunasayal.
12	C2059612	Ashwini.M.Nidagundi	Ashwini
13	C2059615	Bhoomika.Pattar	B.S. pattar
14	C2059648	Sahana.M.Badiger	Sahana
15	C2059619	Deepa.S.Chalawadi	Deepa Chalawadi.
16	C2059654	Shivanagouda.Patil	Spatil
17	C2059629	Moulasab.Hunagund	Moulasab
18	C2059613	Aspak.I.Yalagi	Aspak.
19	C2059630	Mounesh.Badigera	Mbadiger.
20	C2059628	Moulali.Chapparband	M.

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Department of Commerce

Field Visit Report on Financial Literacy

The department of commerce Organized visit to Amulya financial literacy centre muddebihal as a Part of study On 29/06/2022 at 12.00 pm. Team of two faculty members and 20 Students are participated in the field visit. The students got various information about the schemes of banking and also interacted with the manager of amulya financial literacy centre.

Head,
Department of Commerce,
M.G.V.C. College, Muddebihal

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