

#### SHRAMIK VIDYARTHI DNYANSEVA SANSTHA'S

#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE

( AFFILIATED TO UNIVERSITY OF MUMBAI )
DODAMARG, DIST. – SINDHUDURG 416 512 ( M. S.)

EMAIL - dkscsci@gmail.com ESTD. - 2012 TEL. NO. – 02363 256755 COLLEGE CODE – 166

## Criteria 1

# **Curricular Aspects**

**Key Indicator – 1.3 Curriculum Enrichment** 





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## Criteria 2 - Curricular Aspects

#### **Key Indicator – 1.3 Curriculum Enrichment**

# Metric No. 1.3.2. Percentage of students undertaking project work/field work/internships

(Data for the latest completed academic year)

Sr. No.	Documents
1	Syllabus having project work and Field work
2	Percentage of students undertaking project work/field work
3	Program wise list of students undertaking the project work/field work
4	Certificate of Completion
5	Field Visit Reports & sample copy of Project work







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## Criteria 1

# **Curricular Aspects**

**Key Indicator – 1.3 Curriculum Enrichment** 

# Syllabus having project work and Field work





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#### Courses having project work/Field work/Internships

Sr. No.	Programme Name	Course Name	Semester	Course Code	project work/ Field work/ Internships
1	F.Y.B.Sc	Zoology	Semester I	USZOP1	Field Work
2	F.Y.B.Sc	Zoology	Semester II	USZOP2	Field Work
4	F.Y.B.SC.	Foundation Course	Semester II	USFC2C1	Project
5	S.Y.B.Sc	Zoology	Semester IV	USZOE2P4	Field Work
6	S.Y.B.SC.	Chemistry	Semester IV	USCHP4	Industrial Visit
7	T.Y.B.Sc	Chemistry (Drug & Dyes)	Semester VI	USACDD6P2	Project
8	T.Y.B.Sc	Zoology	Semester V	USZO504	Field Work
9	T.Y.B.Sc	Zoology	Semester VI	USZO604	Field Work
10	T.Y.B.Sc	Zoology	Semester VI	USACFBIO6P1	Field Work
11	T.Y.B.Sc	Zoology	Semester VI	USACFBIO6P1	Project



Principal

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#### **SEMESTER I**

#### Practical USZOP1 (Course I)

- 1. Mounting of foraminiferan shells from sand (any 3)
- 2. Study of types of Corals Brain, Organ pipe, Stag Horn, Mushroom coral Study of

3Study of the following;

- a. Symbiosis (Termite and Trychonympha, hermit crab and sea anemone)
- b. Camouflage (leaf insect, chameleon)
- c. Cannibalistic mate-eating animals (Spider and Praying Mantis)
- d. Animal architects: Termites, Harvester ant and Baya weaver bird
- e. Study of bioluminescent organisms Noctiluca, glow worm, fire fly, angler fish.
- 4. Breeding and parental care in Amphibia- Rhacophorus, Midwife toad, Darwin's frog, Caecilian.
- 5. Mounting of scales of fish (placoid, cycloid and ctenoid)
- 6 a) Study of Adaptive radiation in Reptiles Turtle, Tortoise, Phrynosoma, Draco)
  - b) Identification and differentiation of venomous and non-venomous snakes (Scales, Fangs, Bite marks, etc.)
- 7. Study of Types of feathers(contour, filoplume, down), beaks(Nectar feeding, Insect catching, Fruit eating, Scavenging, Filter feeding), claws (perching, wading, swimming, hopping) in birds
- 8 a. Identification of birds Coppersmith Barbet, Bulbul, Rose ringed Parakeet, Magpie Robin, two local birds.
  - b. Field Report To be done in a group of ten students (submission of written / typed report preferably along with photographs/ tables/ graphs.

#### Other Suggested topics for field observation/survey:

- Butterflies/ Fishes/ Migratory birds of local area.
- Variations in Human like Attached vs. Free Earlobes, Blood Groups, Eye colour, etc. using statistical method.
- 9. Observations of fauna in the field (with reference to theory syllabus).
  - \*Note The practicals may be conducted by using specimens authorised by the wild such other regulating authorities though it is strongly recommended that the same sh taught by using photographs/audio-visual aids/ simulations / models, etc. as recomme the UGC and as envisaged in the regulations of the relevant monitoring bodies. specimens, however, shall be procured for the purpose of conducting practicals m here-in-above.

#There shall be at least one excursion/field trip

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#### SEMESTER II

#### Practical USZOP2 (Course III)

- 1. Interpretation of the given graphs/ tables and comment on pattern of population nature :
  - i. Survivorship curve
  - ii. Life tables
  - iii. Fecundity tables
  - iv. Age structure
  - v. Sex ratio
- 2. a) Calculation of Natality, Mortality, Population density from given data
  - b) Estimation of population density by capture recapture method
- 3. Interpretation of Growth curves (Sigmoid and J shaped)
- 4. Estimation of hardness from given water sample (tap water v/s well water)
- 5. Estimation of Free carbon dioxide (Free CO<sub>2</sub>) from two different samplesaerated drinks(diluted) v/s tap water

Identification and interpretation of aquatic and terrestrial (Grassland) food chains and food 6.

webs

- 7. Construction of food chain/food web using given information/data.
- 8. a) Identification and interpretation of ecological pyramids of energy, biomass and number
  - b) Construction of different types of pyramid from given data.

9. Study of the following:

- a) Endangered (Great Indian Bustard, Asiatic lion, Blackbuck, Olive Ridley sea turtle) and critically endangered species (Slender-billed vulture, Gharial, Malabar civet) of Indian wildlife and state reasons for their decline
- b) Study Biodiversity hotspots using world map (Western Ghats and Indo-Burma) Study of sanctuaries, national parks, biosphere reserves in India with respect to its brand fauna as listed in theory)
- \*Note The practicals may be conducted by using specimens authorised by the wildlife and such other regulating authorities though it is strongly recommended that the same should be taught by using photographs/audio-visual aids/ simulations / models, etc. as recommended by the UGC and as envisaged in the regulations of the relevant monitoring bodies. No new specimens, however, shall be procured for the purpose of conducting practicals mentioned here-in-above.

#There shall be at least one excursion/field trip

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Managing Stress and Conflict in Contemporary Society:

Types of conflicts and use of coping mechanisms for managing individual stress;

Maslow's theory of self-actualisation;

Different methods of responding to conflicts in society;

Conflict-resolution and efforts towards building peace and harmony in society.

(8 lectures)

Unit 6

Contemporary Societal Challenges:

- a) Increasing urbanization, problems of housing, health and sanitation;
- b) Changing lifestyles and impact on culture in a globalised world.
- c) Farmers' suicides and agrarian distress.
- d) Debate regarding Genetically Modified Crops.
- e) Development projects and Human Rights violations.
- f) Increasing crime/suicides among youth.

(15 lectures)

15 lectures will be allotted for project guidance Note: Unit Number 6 will not be assessed for the Semester End Exam

#### Internal Assessment and Question Paper Pattern for FC-Semester I & II Cours At the FYBA Examinations

The student will be assessed on the basis of Internal Assessment of 40 marks and a Semester End Exam of 60 marks. The student will have to secure a minimum of 40% marks in aggregate and a minimum of 40% in each component of assessment i.e. 16 out of 40 in Internal Assessment and 24 out of 60 in Semester End Exam.

#### Internal Assessment:

There will be one mid-semester test of 10 marks on Units 1 and 2. The test will, as far as possible, comprise of objective questions and/or short

The student will have to submit an assignment/project for 20 marks before notes. appearing for the Semester End Exam. This assignment/project will be entirely based on Unit 6 and can take the form of street-plays/exhibition/power-point presentations or similar other modes suitable to the topic selected; students can work in groups of not more than 8 for the purpose of this assignment. Students will have to submit a hard copy of the assignment before appearing for the Semester End Exam. The assignment will be assessed for 20 marks of which 10 marks may be allotted for a viva, to assess the level of engagement of the student with the topic assigned.

Unit 6 will not be included in the Semester End Exam.

10 marks will be assigned to the participation of the student in class discussions and the projects undertaken along with the leadership skills and presentation skills exhibited during the class sessions.

Semester End Exam:

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	SEMESTER IV
	Practical USZOE2P4 (Course - XB) - Elective 2
1	Estimation and comparison of protein content in Cow and Buffalo milk sample
2	Estimation and comparison of fat content in Cow and Buffalo milk sample
3	Preparation of falooda
4	Preparation of caramel custard
5	Restraining devices used in cattle farming- Halters, gags, bull-rings, muzzles, cradle, crush and ropes.
6	Study of life cycle of Bombyx mori
7	Study of commercially important fishery. (Catla, Rohu, Catfish, Mackeral, Pomfret, Bombay duck, Prawn/Shrimp, Crab, Lobster, Edible oyster)
8	Study of Crustacean fishery – common characters and sexual dimorphism in lobster (Panulirus spp.), prawn (Penaeus spp.), crab (Scylla spp.)
9	Visit to dairy farm /aquaculture/ fish landing centre/fishery institute and submit report of the same

For Additional and Latest Information on the topics, various Web Sites can be visited.

**Note:** The practicals may be conducted by using specimens authorised by the wildlife and such other regulating authorities though it is strongly recommended that the same should be taught by using photographs/audio-visual aids/ simulations / models, etc. as recommended by the UGC and as envisaged in the regulations of the relevant monitoring bodies. No new specimens, however, shall be procured for conducting practicals mentioned here in above.

# There shall be at least one excursion / field trip.

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# Semester IV Chemistry Practicals:

#### Unit I: Physical Chemistry

- 1. To determine standard EMF and the standard free energy change of Daniel cell potentiometrically.
- 2. To determine the amount of HCl in the given sample potentiometrically.
- 3. Compare the strengths of HCl and H<sub>2</sub>SO<sub>4</sub> by studying kinetics of acid hydrolysis of methyl acetate.
- 6. Industrial visit report.

#### Unit II: Inorganic Chemistry

- 1. Inorganic preparation Nickel dimethyl glyoxime using microscale method.
- 2. Complex cation Tris (ethylene diamine) nickel (II) thiosulphate.
- Complex anion Sodium Hexanitrocobaltate (III) The aim of this experiment is to understand the preparation of a soluble cation (sodium)and a large anion hexanitrocobaltate (III) and its use to precipitate a large cation (potassium)
- 4. Inorganic salt Calcium or magnesium oxalate using PFHS technique

#### Unit III: Organic Chemistry

Qualitative Analysis of bi-functional organic compounds on the basis of

- 1. Prelimenary examination
- 2. Solubility profile
- 3. Detection of elements C, H, (O), N, S, X.
- 4. Detection of functional groups
- 5. Determination of physical constants (M.P/B.P)

Solid or liquid Compounds containing not more than two functional groups from among the following classes may be given for analysisto be given: Carboxylic acids, phenol, carbohydrates, aldehydes, ketones, ester, amides, nitro, anilides, amines, alkyl and aryl halides.

Students are expected to write balanced chemical reactions wherever necessary. (Minimum 6 compounds to be analyzed)

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#### University of Mumbai T. Y. B. Sc. Chemistry

The Regional Case-Study Project
COURSE CODE: USACDD6P2/ USACPET6P2/ USACHFC6P2
CREDITS: 02
SEMESTER VI

#### Introduction:

As per the guidelines from UGC, HEIs are expected to introduce a compulsory course to provide community engagement to all undergraduate students so that their appreciation of social realities is holistic, respectful and inspiring. Such course will enable students to learn about rural/urban challenges and develop understanding of social wisdom and life-style in a respectful manner.

#### Objectives:

- To develop an appreciation of rural/urban culture, life style and wisdom amongst students.
- To understand a real life situation about a problem.
- To apply classroom knowledge of Chemistry courses to field realities and thereby improve quality of learning.
- To interact with key stakeholders such as government officials, people representatives, common people etc.
- To communicate key findings of the study to stakeholders.

#### **Learning Outcomes:**

After completing course, students will be able to

- · Gain an understanding of rural/urban life, culture and social realities
- Gain an understanding real-life problems
- · Develop a sense of empathy and bonds of mutuality with local community
- · Learn to value the local knowledge and wisdom of the community
- · Identify opportunities for contributing to community's socio-economic improvement

Credits: 2 credits, 30 hours

Amdar. Deepakbhai Kesarkar Science Colle Dodamarg, Tal.Dodamarg, Dist.Sindhudru 15. Tissue culture media preparation, aseptic transfer & inoculation of culture

16. Streaking of butt, slant and plate (continuous and discontinuous methods) with E.coli (Demonstration only)

> T. Y. B. Sc. Zoology Semester V (Practical)

#### Course 14 Course Code: USZO504

- 1. To study T.S. of integument: amphibian, reptilian, avian, mammalian
- 2. To study horns, antlers
- 3. To study different types of scales: dermal, epidermal
- 4. To study epidermal glands: mucous, sebaceous, sweat, poison, uropygial
- 5. To study special integumentary derivatives
- 6. To study the histology of glands: T.S. of pituitary, thyroid, pancreas, adrenal, ovary, testis
- 7. To study human skeleton: study of axial skeleton
  - 1. Skull bone
  - 2. Ossicles of middle ear
  - 3. Hvoid bone
  - 4. Rib cage
  - 5. Sternum
  - 6. Vertebral column -
    - I. Cervical vertebrae
      - a. Typical cervical vertebrae (3-6)

      - b. Atlas or 1<sup>st</sup> cervical vertebra c. Axis or 2<sup>nd</sup> cervical vertebra
      - d. 7<sup>th</sup> cervical vertebra
    - II. Thoracic vertebrae (8-19)
    - III. Typical lumbar vertebra (20-24)
    - IV. Sacral vertebrae and coccyx (synsacrum)

Sacrum (25-29)

Coccyx (30-33)

- 8. Observation of developing chick embryo -18 hours, 24 hours, 36 hours, 48 hours, 72 hours
- 9. To prepare temporary mounting of chick embryo up to 72 hours
- 10. To study the effect of temperature in the development of chick embryo upto 48 hours/72 hours

Note: short and long excursions / study tours / field visits / industrial visits in every semester, at least one of which shall be financially affordable to every student in the class; and that assessment and marks of field trips shall be solely based upon such where no student was restrained for financial limitations

> T. Y. B.Sc. Zoology Semester based Credit and Grading System (To be implemented from Academic Year 2017-18)

> > 25

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#### T. Y. B. Sc. Zoology Semester VI (Practical)

# Course 18 Course Code: USZO604

1. To estimate phosphate phosphorus from sample water

2. To estimate COD, BOD from sample water

3. To estimate Nitrite Nitrogen and Nitrate Nitrogen from sample water

4. To study the intensity of sound by Decibel meter

- 5. To study acidity and alkalinity of sample water by methyl orange and phenolphthalein
- 6. To observe the animals in the chart and place them in endangered, vulnerable category
- 7. To study different types of mouth parts: cutting, chewing, lapping, sucking, sponging
- 8. To study metamorphosis in insects: ametabolic lepisma, hemimetabolic cicada, holometabolic butterfly, mosquito
- 9. To study mechanism of bioluminescence in insects (Need to design practical)
- 10. Insect pests and control: rice weevil, flour moth, aphids, tribolium

Note: short and long excursions / study tours / field visits / industrial visits in every semester, at least one of which shall be financially affordable to every student in the class; and that assessment and marks of field trips shall be solely based upon such where no student was restrained for financial limitations

#### Semester VI Practicals Course code: USACFBIO6P1

Credits 2

- 1) Identification of marine fishes.
  - Stromateus cinereus (Silver pomfret)
  - Stromateus niger (Black pomfret)
  - Polynemus tetradactylus (Threadfin)
  - Pseudosciaena diacanthus (Two-spinned jewfish or Ghol)
  - Trichiurus haumela (Ribbon fish)
  - Synagris japonicus (Blackmouth splitfin)
  - Scomber microlepeidotus (Mackerel)
  - Cybium guttatum (Seerfish or Surmai)
  - Sardinella longiceps (Indian Oil Sardine)
  - Thunnus alalunga (Longfin tuna)
- 2) Identification of Crustaceans and Molluscs.
  - Penaeus monodon (Giant Tiger Prawn)
  - Metapenaeus affinis (Jinga shrimp)
  - Parapenaeopsis stylifera (Kiddi shrimp)
  - Acetes indicus (Jawala paste shrimp)
  - Panulirus polyphagus (Mud spiny lobster)
  - Scylla serrata (Giant mud crab)
  - Crassostrea spp. (Oyster)
  - Sepia pharaonis (Pharaoh cuttlefish)
  - Loligo duvaucelii (Indian squid)
- 3) Preparation of formulated feed for fish and prawn.
- 4) Identification of parasitic infections in aquatic organisms.
  - Fungal Dermatomycosis
  - Bacterial Fin/Tail rot and Dropsy
  - Protozoan Costiasisand White Spot
  - Crustacean Argulosis
- 5) Fish dressing, filleting, prawn peeling PUD, DV and grading.
- 6) Fish morphometry Length weight relationship of a suitable fish.
- 7) Preparation of Surimi, Fish protein concentrate.
- 8) Preparations of fish burger, fish fingers, fish/prawn pickle, fish chutney, fish curry.

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- 9) Preparation of Chitin Chitosan, Pearl essence.
- 10)Identification of various farm equipment such as:
  - Feeding cups / Trays
  - Paddle wheel aerator
  - Fountains
  - Sluice gate models
  - Elbow pipe outlets
- 11)Study of models of raft, pen, cage culture and materials used in rope culture.
- 12) Project Feasibility / Scientific.
- 13) Field Visit Report.

Please refer the Annexure II for the suggested field visits and Annexure – III for suggested topics for projects for Course code USACFBIO6P1.

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#### N.B:

I) It is pertinent to note that we have to adhere strictly to the directions as given in the ÚGC Circular F14-4/2006 (CPP-II).

II) Apart from the Institutional Animal Ethics Committee (IAEC) and any other Committee appointed by a Competent Authority / Body from time to time, every college should constitute the following Committees:

1) A Committee for the Purpose of Care and Supervision of Experimental Animals

2) A Dissection Monitoring Committee (DMC) to ensure that no dissections or mountings are done using animals.

# Composition of DMC shall be as follows:

- Head of the Concerned Department (Convener / Chairperson)
- ii) Two Senior Faculty Members of the concerned Department
- iii) One Faculty of related department from the same College
- iv) One or two members of related department from neighbouring colleges.

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#### Criteria 1

# **Curricular Aspects**

Key Indicator - 1.3 Curriculum Enrichment

# Percentage of students undertaking project work/field work







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#### Criteria 2 - Curricular Aspects

**Key Indicator – 1.3 Curriculum Enrichment** 

Metric No. 1.3.2. Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

1. 3. 2. l. Number of students undertaking project work/field work / Internships

Percentage = 
$$\frac{111}{118}$$
 X 100 = 94.07%





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# Percentage of students undertaking project work /Field Work/Internship

(Data for the latest completed academic Year)

Sr. No.	Class	Total number of students during the latest completed academic year	Total Number of Students undertaking in Project & Field Work	Percentage
1	F.Y.B.Sc.	51	46	90.20
2	S.Y.B.Sc.	32	29	90.63
3	T.Y.B.Sc.	36	36	100.00
	Total	118	111	94.07

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ESTD. - 2012

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#### Criteria 1

# **Curricular Aspects**

Key Indicator – 1.3 Curriculum Enrichment

# Program wise list of Students Undertaking the Project Work/ Field Work







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# <u>List of students undertaking project work / Field Work/</u> <u>Internship</u>

Programme Name	Sr. No.	Name of Students	Field Work 19/08/2023	
	01	Gawade Neha Narayan	Field Work	
T.Y.B.Sc	02	Gawas Shailaja Dnyaneshwar	Field Work	
Zoology	03.	Gawas Vedant Rukmangat	Field Work	
USZOP05	04.	Naik Aishwarya Sanjay	Field Work	
	05.	Sutar Ninad Nandkumar	Field Work	
	01	Gawas Rutik Arun	Field Work	
	02	Jangle Tushar Shamu	Field Work	
	03	Gawade Vthoba Umesh	Field Work	
	04	Naik Yogita Anand	Field Work	
	05	Naik Nutan Sanjay	Field Work	
F.Y.B.Sc	06	Bandekar Yogesh Nandkishor	Field Work	
Zoology USZOP1	07	Malik Vedant Sanjay	Field Work	
	08	Desai Dilip Sanjay	Field Work	
	09	Desai Vidyadhar Gurudas	Field Work	
	10	Ghogale Sakshi Baburao	Field Work	
	11	Jadhav Shailesh Chandrakant	Field Work	
	12	Jadhav Asmita Ganpat	Field Work	

Programme Name	Sr. No.	Name of Student	Field Work 20/12/2023
S.Y.B.Sc.	1	Gaichor Shubham Vasudev	Indutrial Visit
Chemistry	2	Gawade Shivram Prakash	Indutrial Visit
USCHP4	3	Gawas Diksha Digamber	Indutrial Visit



4	Gawas Kameshwari Pandurang	Indutrial Visit
5	Gawas Lavkesh Vasudev	Indutrial Visit
6	Gawas Prathamesh Prabhakar	Indutrial Visit
7	Gawas Roshan Gopi	Indutrial Visit
8	Gawas Shubham Pandurang	Indutrial Visit
9	Jeshtnaik Shraddha Bhanudas	Indutrial Visit
10	Kharvat Janavi Janu	Indutrial Visit
11	Khedekar Roshani A.	Indutrial Visit
12	Patil Ganesh Gopal	Indutrial Visit
13	Patil Navnath Dhondiram	Indutrial Visit
14	Pedanekar Madhusudan Rajaram	Indutrial Visit
15	Raul Sushant Santosh	Indutrial Visit
16	Sarvane Rushikesh Tanaji	Indutrial Visit
17	Sawant Sanket Baburao	Indutrial Visit
18	Sawant Sushmita Eknath	Indutrial Visit
19	Shivngekar Kishori Jotiba	Indutrial Visit
20	Sutar Ganga Balkrishna	Indutrial Visit
21	Thakar Adhikesh Vilas	Indutrial Visit
22	Gawas Roshani Ramesh	Indutrial Visit
23	Kotekar Pranali Parshuram	Indutrial Visit
24	Naik Sanchit Dayanand	Indutrial Visit
25	Paryekar Pankaj Nanda	Indutrial Visit

Programme Name	Sr. No.	Name of Student	Programme Name
	1	Betkekar Vaishnavi Sanjay	
	2	Desai Dhanashri Sabaji	Preparation of
	3	Chavan Naresh Nandu	BiVO4
T.Y.B.Sc.	4	Desai Yogesh Dilip	Photocatalyst By Solvothermal Method
Chemistry	5	Desai Aniket Manohar	
USACDD6P2	6	Dhuri Sham Shivram	
	7	Lobo Lawrence Bavtis	Preparation of
	8	Jadhav Pooja Nhanu	Cashew Apple
	9	Gurav Suraj Sambhaji	Fenni



10	Kadam Prasanna Rajaram	
11	Gawas Sejal Sunil	
12	Varak Ravindra Dhondu	Studies On Effect
13	Sadekar Omkar Namdev	of Cow Dung Ash,
14	Pawar Shivani Shankar	Groundnut Shell
15	Rane Vaishnavi Vishwanath	Ash, Wood Ash in aqueous medium
16	Parmekar Hrutuja Sudhir	as Follar Spray on
17	Patil Avinash Ashok	Zea mays
18	Parab Akash Arjun	
19	Niralagi Gauri Vijay	Study on
20	Naik Dattaprasad Pandurang	Hypertension
21	Morajkar Sameer Uday	Patient, Side Effect & How to
22	Mayekar saloni Byaneshwar	Control
23	Gawas Pratik Prakash	
24	Gawde Pooja eepak	
25	Gawas Ramchandra Narayan	Preparation of
26	Gawas Mahesh Gopal	Cold Cream
27	Gawas Gurunath Amol	

Programme Name	Sr. No.	Name of Student	Field Work 22/02/2024	
	1	Gawas Rutik Arun	Field Work	
	2	Gawas Bhikaji Khemraj	Field Work	
	3	Jangle Tushar Shamu	Field Work	
	4	Gawade Vthoba Umesh	Field Work	
	5	Sawant Divya Laxman	Field Work	
F.Y.B.Sc.	6	Mestry Sudarshan Dattaram	Field Work	
Zoology USZOP2	7	Naik Yogita Anand	Field Work	
002012	8	Naik Dipti Dilip	Field Work	
	9	Naik Nutan Sanjay	Field Work	
	10	Bandekar Yogesh Nandkishor	Field Work	
	11	Malik Vedant Sanjay	Field Work	
	12	Desai Dilip Sanjay	Field Work	

Esta. 15/6/2012

	13	Desai Vidyadhar Gurudas	Field Work
	14	Desai Samiksha Chandrashekhar	Field Work
	15	Ghogale Sakshi Baburao	Field Work
	16	Patil Akshay Anandrao	Field Work
	17	Jadhav Shailesh Chandrakant	Field Work
	18	Naik Prachi Prakash	Field Work
	19	Jadhav Asmita Ganpat	Field Work
	20	Gawas Mayur Mohan	Field Work
	21	Gawas Gaurish Mahadev	Field Work
	22	Gawade Reshma Laxman	Field Work
	23	Desai Viraj Sitaram	Field Work
	24	Sinari Chinmay Sandip	Field Work
	25	Warang Priya Prakash	Field Work
	01	Gawas Roshani Ramesh	Field Work
	02	Naik Simanthini Prashant	Field Work
S.Y.B.Sc	03.	Kubal Ujjayani uttam	Field Work
Zoology	04.	Kotekar Pranali Parshuram	Field Work
USZOE2P4	05.	Kharwat janavi Jawoo	Field Work
	06	Paryekar Pankaj Nanda	Field Work
	07	Sawant Loukik Subhash	Field Work
	01	Chavan Gauri Shyamsundar	Field Work
	02	Gawade Neha Narayan	Field Work
T.Y.B.Sc	03.	Gawas Shailaja Dnyaneshwar	Field Work
Zoology	04.	Gawas Vedant Rukmangat	Field Work
USACFBIO6P1	05.	Kubal Manali laxman	Field Work
	06	Naik Aishwarya Sanjay	Field Work
	07	Sutar Ninad Nandkumar	Field Work



Programme Name	Sr. No.	Name of Students	Name of Project
	01	Gawade Neha Narayan	Probability report of maintenance of culture of chaetopteros & artemia by the fish farmers
	02	Gawas Shailaja Dnyaneshwar	Probability report of maintenance of culture of chaetopteros & artemia by the fish farmers
T.Y.B.Sc	03.	Naik Aishwarya Sanjay	Cultivation of commercially important nutritive algae
Zoology USACFBIO6P1	04.	Sutar Ninad Nandkumar	Cultivation of commercially important nutritive algae
	05.	Chavan Gauri Shamsunder	Cultivation of commercially important nutritive algae
	06	Kubal Pooja Bhanudas	Shrimp Farming
	07	Gawas Vedant Rukmangat	Shrimp Farming

Programme Name	Sr. No	Name of the student	Name of the project
	1	Shirodkar Arya Abhay	उच्च शिक्षण आणि भारत
	2	Gawas Bhikaji Khemraj	
	3	Gawas Rutik Arun	
	4	Gawas Bhakti Bhagawan	
	5	Kamble Pallavi Prakash	
	6	Jangale Tushar Shamu	
	7	Gawade Vithoba Umesh	
	8	Sawant Divya Laxman	पिण्याचे स्वच्छ पाणी व स्वच्छता सुविधा सार्वजनिक शिक्षणाधिकार
F.Y.B.Sc. Foundation	9	Panvelkar Amit Arun	
Course	10	Mestri Sudarshan Dattaram	
USFC2C1	11	Desai Saisha Sadanand	
	12	Gawade Neha Yalappa	
	13	Naik Yogita Anand	
	14	Mayekar Shivram Suryakant	
	15	Naik Nutan Sanjay	
	16	Bandekar Yogesh Nandkishor	
	17	Malik Vedant Sanjay	
	18	Desai Dilip Sanjay	
	18	Desair Dilip Sanjay	

19	Desai Vidhyadhar Gurudas	लैंगिक विषमता आणि	
20	Bagadi Prathamesh Pandurang	भारत	
21	Desai Samiksha Chandrashakar		
22	Ghogale Sakshi Baburao		
23	Uphalkar Sharan Parasharam	   शहरातील आरोग्य सुविधा	
24	Patil Akashay Anadrao	300000000000000000000000000000000000000	
25	Shetkar Rohan Hari		
26	Jadhav Shailesh Chandrakant	- जैतापूरचा अणुऊर्जा प्रकल्प	
27	Karol Sakib Suleman		
28	Jadhav Asmita Ganpat		
29	Chobe Rahul Rajendra		
30	Gawas Gaurish Mahadev	शहरीकरण आणि त्यांच्या	
31	Gawade Reshma Laxman	समस्या	
32	Desai Viraj Sitaram		
33	Sinari Chinmay Sandip		
34	Kavthankar Damodar Arjun		
35	Warang Priya Prakash	तिलारी धरण	
36	Prasadi Vaishanvi Rajesh		
37	Patil Sucheta Vasant		



Principal Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug





( AFFILIATED TO UNIVERSITY OF MUMBAI )
DODAMARG, DIST. - SINDHUDURG 416 512 ( M. S.)

EMAIL - dkscsci@gmail.com ESTD. - 2012 TEL. NO. - 02363 256755

COLLEGE CODE - 166

## Criteria 1

# **Curricular Aspects**

Key Indicator – 1.3 Curriculum Enrichment

# **Certificate of Completion**



#### STUDIES ON EFFECT OF COW DUNG ASH, WOOD ASH, GROUNDNUT SHELL ASH IN AQUEOUS MEDIUM AS FOLIAR SPRAY ON ZEA MAYS

Submitted to the Mumbai University Mumbai Amdar Deepkbhai Kesarkar Science college, Dodamarg For degree of bachelor of science In Chemistry

Under the facilities of
Student name:Omkar N. Sadekar
Vaishnavi V. Rane
Shivani S. Pawar
Hrutuja S. Parmekar
Avinash Patil
Ravindra D. Varak

. Under the guidance of guide name - PROF. A. B. DHENGE

Department of chemistry
Amdar Deepkbhai Kesarkar Science college Dodamarg
April 2024

#### Certificate

	This is to certify that Ms/Mr Reunalty Ohondu Varak
	has worked and duly completed her/his Project Work for the degree of Bachelor under
	the Faculty of Science in the subject of Drugs & dyes and
	her/his project is entitled, STUDIES ON EFFECT OF COW DA DUNG ASH,
CHO DI	MNUT SHELL ASH IN " under my symposision
AQ	VEOUS MEDIUM AS FOLLAR SPRAY ON Zea may

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and

investigations.



College

Name and Signature of

Guiding Teacher

Date of submission: 27/04/2024

Amdar. Deepakbhai Kesarkar Science College Dodarnarg, Tal. Dodarnarg, Dist. Sindhudrug

#### Certificate

	This is to certify that Ms/Mr Omkar N. Sodelsa
	has worked and duly completed her/his Project Work for the degree of Bachelor under
	the Faculty of Science in the subject of
	her/his project is entitled, " STUDIES ON EFFECT OF COW DUNG BSM , GROWNINGT
SHE	ALL ASH AQUEOUS MEDIUM "under my supervision.  AL 'FOLLAR SPRAY ON zea mays

I further certify that the entire work has been done by the learner under my guidance. It is her his own work and facts reported by her/ his personal findings and investigations.



Name and Signature of

Saphense

**Guiding Teacher** 

Date of submission: 2704/2024

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

#### Certificate

This is to certify that Ms/Mr. Shivani S. Pawas
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of duys and dyes and
her/his project is entitled, STUDIES ON EFFECT OF COW DUNG ASH, GROUNDNO
FOLLASH IN AQUEOUS MEDIUM AS  FOLLAR SPRAY ON Zea Mays
I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.



Name and Signature of

Guiding Teacher

Date of submission: 27/04/2024

Principal

Amdar. Deepakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Certificate

This is to certify that Ms Mar Vaishnavi Vishwanalh Rane	
has worked and duly completed her/his Project Work for the degree of Bachelor und	er
the Faculty of Science in the subject of Dang & Dyos ar	
her/his project is entitled, STUDIES ON EFFECT OF COW DUNG AS	H)
GROUNDNUT SHELL ASH "under my supervision.  IN AQUEOUS MEDIUM AS FOLIAR SPRAY ON Zea mass	

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.



Name and Signature of

Copherse

Guiding Teacher

Date of submission: 27/04/2024

Principal

Amdar. Deepakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Certificate

This is to certify that Ms/Mr Hrutiya S. Parmekar
Time is to certary than the same of
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of dugs and dyes
her/his project is entitled, STUDIES ON EFFECT OF COW DUNG ASH, GROWING
ASH IN AQUEOUS MEDIUM under my supervision.

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.



SHEIL

College

Name and Signature of

Guiding Teacher

Date of submission: 27/04/2024

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Certificate

This is to certify that Ms/Mr Axinash Ashok Patil
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of
her/his project is entitled, . Study on effect of cow dung ASH, ground no
Follow spray on zea nuss

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.



Name and Signature of Guiding Teacher

Amder. Deepakhhai Kesarkar Science College

Date of submission: 27/04/2024 Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

# PREPARATION OF CASHEW APPLE FENI Submitted to the Mumbai University Mumbai Amdar Deepakbhai Kesarkar Science College, Dodamarg

For the Degree of Bachelor of Science in Chemistry

Under the facilities of

Student name:

Lawrence Lobo

Prasanna Kadam

Sejal Gawas

Pooja Jadhav

Suraj Gurav

Under the guidance of

PROF. A. B. DHENGE sir

Department of chemistry

Amdar Deepakbhai Kesarkar Science college Dodamarg April-2024

## Amdar Deepakbhai Kesarkar Science College Dodamarg

At/Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg 416512

#### Certificate

This is to certify that Ms/Mr Lawrence B . Lobo
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Dung and Dyes and
the Faculty of Science in the subject of
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.

Dist Sindhudrug

Seal of the

College

Name and Signature of

Guiding Teacher

Amdar, Deepakhhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 27/04/1024

#### Certificate

This is to certify that Ms/Mr. POOTA NHANU JADHAV
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Dungs and Dies and
her/his project is entitled, Paeparo Hon of cashew apple Feni
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.
the state of the s

Seal of the

College

Name and Signature of
Guiding Teacher

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 2/04/104

# Amdar Deepakbhai Kesarkar Science College Dodamarg

At/Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg 416512

## Certificate

This is to certify that Ms/Mr Suraj Sambhaji Guecel
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject, of Dung and Dyes
her/his project is entitled, Pacepayation ob cashed apple Feni
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.
Seal brine Seal Signature of
College Guiding Teacher

Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 27/09/1024

#### Certificate

This is to certify that Ms/Mr Prasanna Rajaram Kadam
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Daugs and Dyes and
her/his project is entitled, Preparation of cashew apple
Fenni "under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.
Money and Signature of
Seal of the  College  Name and Signature of  Guiding Teacher
Armder. Deepakbhai Kesarkar Science College  Armder. Deepakbhai Kesarkar Science College

Date of submission: 27/04/2024

### Certificate

This is to certify that Ms/Mr Sejal Sunil Gadas
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Drug and Dies and
her/his project is entitled, Pareparation of Cashew apple Feni
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.
Seal of the Name and Signature of
College Amder. Deepakbhai Kesarkar Science College Guiding Teacher

Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

Date of submission: 2710 4 /2014

### Project Name

# TO STUDY THE PREPARATION OF BiVO<sub>4</sub> PHOTOCATALYST BY SOLVOTHERMAL METHOD.

Project work
Submitted to the
Mumbai University, Mumbai

For the Degree of

Batchelor of Science in Chemistry

Under the Faculty of Science

By

Vaishnavi Betkekar

Dhanashri S. Desai Naresh Chavan Yogesh Desai Aniket Desai Shyam Dhuri

Under the Guidance of Prof. Mr. N.M. Chaugule Department of Chemistry

#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLAGE DODAMARG

**APRIL - 2024** 

### Certificate

This is to certify that Ms/Mr Vaishnavi Sanjay Betkekan
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Drugs and dyes and
her/his project is entitled, Preparation of BiVO4 photocatalyst by
Salvathermal method" under my supervision.

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.

Esta. 15/6/2012 Dist.Sindhudrug Seal of the

College

Name and Signature of

Guiding Teacher

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 27/04/2014

#### Certificate

	This is to certify that Ms/Mr. Dhanashai. Sabaji Desai.
	has worked and duly completed her/his Project Work for the degree of Bachelor under
	the Faculty of Science in the subject of Drugs and Dyes and
	her/his project is entitled, he paration of Bivou photocatalyst by
2	oluathermal method." under my supervision.

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.

Dist Singham To See 1 | 102/8/2012

College

Amdar, Deepakbhai Kesarkar Science College Dodarnarg, Tal.Dodarnarg, Dist.Sindhudrug Name and Signature of Guiding Teacher

Date of submission: 7/64/2014

#### Certificate

	This is to certify that Ms/Mr . Naresh . Nandu Chavan
	has worked and duly completed her/his Project Work for the degree of Bachelor under
	the Faculty of Science in the subject of
	her/his project is entitled, Preparation of BiVO4 photocatalyst by
S	oluothermal method." under my supervision.

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.

Seal of the

Name and Signature of

Guiding Teacher

Amdat, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 27/04/2024

#### Certificate

	This is to certify that Ms/Mr Yogesh Dilip Desai
	has worked and duly completed her/his Project Work for the degree of Bachelor under
	the Faculty of Science in the subject of Drugs and Dyes and
	her/his project is entitled, Preparation of BiVO4 photocatalyst by
C	oluothermal method" under my supervision.

I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.

Esta. 15/0/2012 Dist. Sindrudrus

College

Name and Signature of

Guiding Teacher

Amdar, Deepakbhar Resarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of submission: 27/04/2025

### Certificate

This is to certify that Ms/Mr DESAI. ANIKEL PHANOLIPA
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of D. Mys. and Dye
her/his project is entitled, Proposation of Bivon Photocatalyst By
Tolvothermal Method" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.

Seal of the

College

Name and Signature of

**Guiding Teacher** 

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tel Dodamarg, Dist Sindhudrug

Date of submission: 2/09/1024

#### Certificate

This is to certify that Ms/Mr. SHAM SHIYRAM DHURI.
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Drys & Dys and
her/his project is entitled, preparation of Bivog Photocetatyst By Solvo-
Thermal Method " under my supervision.
I further certify that the entire work has been done by the learner under my guidance.

It is her his own work and facts reported by her/ his personal findings and investigations.

Esta.
15/6/2012
Dist. Sindhudrug
College

Name and Signature of

Guiding Teacher

Amdar. Deepakbhai Kesarkar Science College Dodarmarg, Tal. Dodarmarg, Dist. Sindhudrug

Date of submission: 27/04/2024

#### Project name -: Preparation of cold cream

**Project Work** 

Submitted to the:

Mumbai university, Mumbai

For the degree of

#### BACHELOR OF SCIENCE

In chemistry

Under the faculty of science by:

PRATIK PRAKASH GAWAS

POOJA DEEPAK GAWDE

RAMCHANDRA NARAYAN GAWAS

MAHESH GOPAL GAWAS

**GURUNATH AMOL GAWAS** 

Under the guidance of :prof. m.s. patil sir

### DEPARTMENT OF CHEMISTRY

Amdar Deepakbhai Kesarkar Science Collage Dodamarg

April -2024

### **Gertificate**

This is to certify that Ms/Mr Powlik. Prakush Gawas.

Has worked and duly completed her/his project work for the degree of bachelor under the faculty of science in the subject of Drug and Dges and

her/his project is entitled," Preparettion of Cold Cream
" under my supervision.

I further certify that the entire work has been done by the learner under may guidance. it is her/his own work and facts reported by her/his personal findings and investigations.

Seals of this collage

Name and signature of
Guiding Teacher

Quend

Date of Submission: -27 104/2029

### **Gertificate**

This is to certify that Ms/Mr Poota Deepak Gawde

Has worked and duly completed her/his project work for the degree of bachelor under the faculty of science in the subject of Drug and Dres.

her/his project is entitled," Preparetion of Cold Cream

" under my supervision.

I further certify that the entire work has been done by the learner under may guidance. it is her/his own work and facts reported by her/his personal findings and investigations.

Seal De the Eindhudrug

Name and signature of

Poof. M. S. Patil

Amdat, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of Submission :- 27/09/2029

### **Gertificate**

This is to certify that Ms/Mr Mahesh Gopal Grawus.

Has worked and duly completed her/his project work for the degree of bachelor under the faculty of science in the subject of Drug and Djes and

her/his project is entitled," Preparation of Cold Cream

" under my supervision.

I further certify that the entire work has been done by the learner under may guidance. it is her/his own work and facts reported by her/his personal findings and investigations.

Nar

Name and signature of

O COR

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of Submission: - 27/04/20 24

### **Gertificate**

This is to certify that Ms/Mr Ramchandra Nanayan Gawas

Has worked and duly completed her/his project work for the degree of bachelor under the faculty of science in the subject of Doug and Dyes and

her/his project is entitled," preparation of Cold Cocam

" under my supervision.

I further certify that the entire work has been done by the learner under may guidance. it is her/his own work and facts reported by her/his personal findings and investigations.

Name and signature of

Amdar. Deepakbhai Kesarkar Science Collega Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of Submission: - 271041 wry

age

### **Gertificate**

This is to certify that Ms/Mr Guranath Amol Gawas.

Has worked and duly completed her/his project work for the degree of bachelor under the faculty of science in the subject of Drug and Dres and

her/his project is entitled," proposetion of Cold Greyn

" under my supervision.

I further certify that the entire work has been done by the learner under may guidance. it is her/his own work and facts reported by her/his personal findings and investigations.

Name and signature of

Tanada a Caratas

Arndar Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Date of Submission :- 27 log hory

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### **CERTIFICATE**

This is to certify that the following stud-	ents have
satisfactory caried out the project work	titled as
City's and health facilities.	for the
F.Y. BSc. Sem Ind.	class in
Foundation Course & this report represe	
Bonafide work during the Academic Year 202	

#### Submitted By

Sr. No.	Students Name	Signature
01	Mr. Uphalkar Sharam p.	Spupalur
02.	Mr. Patil Akshay Anandrao	Arest .

Mr. S. V. More Project Guide



Mr. M. Principal Lase
Amdar. Deepakhnai Kesarkar Science College
Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### CERTIFICATE

This is to certify that the following	ng students have
satisfactory caried out the project	work titled as
Gender disparity and India	for the
Fix BSc. Sem IInd.	class in
Foundation Course & this report	
Bonafide work during the Academic Y	Year 2023-24.

#### Submitted By

Sr. No.	Students Name	Signature
01	Mr. Malik Vedant Sonjay	male
02.	Mr. Desai Dilip Sanjay	Div
03.	Mr. Desai Vidyadhar Gurudas.	Opesui
04.	Mr. Bagadi Prodhmesh Pandurang.	Badipp.

Mr. S. V. More Project Guide Esta.
15/6/2012
Dist.Sindhudrug

Amdar Beepakhasi Kesarkar Science College Dodamary, Tal Dodamary, Dist Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### CERTIFICATE

This is to certify that the following students have satisfactory caried out the project work titled as Higher Education and India for the Friends Sen III. class in Foundation Course & this report represent there Bonafide work during the Academic Year 2023-24.

#### Submitted By

Sr. No.	Students Name	Signature
01.	Ms Shirodkar Arya Abhay.	Anye
02	Mr. Grawau Bhikayi Khemray	Gave Bhui
03.	Mr. Gawas Rutik Argun.	Torawas .
04.	Ms. Gawas Bhakti Bhagwan.	(B. Baul

Mr. S. V. More Project Guide Esta.
15/6/2012
Dist.Sindhudrug

Amdat Deepakbhai Kesarkar Science College Dodamarg, Tar.Dodamarg Dist.Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### **CERTIFICATE**

#### Submitted By

Sr. No.	Students Name	Signature
05.	Ms Kamble Pallavi Brakash.	P.p. Keinle.
06.	Mr. Jangle Tushar Shamu.	(Filmi.
07	Mr. Gawade Vithoba Umesh.	

Mr. S. V. More Project Guide 15/8/2012 Dist. Sindhudrug

Amion. Despekbhai kesarkai Science Ullege Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### **CERTIFICATE**

#### Submitted By

Sr. No.	Students Name	Signature
01.	Ms. Naik Yogita Amend.	Hail
02	Mr. Mayekor Shirram sunyakant.	Meyelon83
03.	Ms. Haik Mwan Sampay.	DNaik.
04.	Mr. Bandekar Yogesh Houndkuman	NO.

Mr. S. V. More Project Guide Esta.
15/6/2012
Dist. Sindhudrug

Amdar, Deepakbhai Kesarkar Science College
Dodamarg, Tal. Dodamarg, Dist. Sindhudru

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### CERTIFICATE

This is to certify that the following students have satisfactory caried out the project work titled as Gender departy 4 India for the Fry Bsc. Sem II class in Foundation Course & this report represent there Bonafide work during the Academic Year 2023-24.

#### Submitted By

Sr. No.	Students Nam	e	Signature
05.	Ms Desai Samiksha	Chandraslebr.	SanDeen
06,	Ms. Ghogale Sakshi	Babyrao.	Geberbe

Mr. S. V. More Project Guide Esta.
15/6/2012
Dist.Sindhudrug

Mr. M. Proicipal lase
Amdar. Daepakhhai Kesarkar Science College
Dodamarg, Tal. Dodamarg, Ust. Sindhudruc

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### CERTIFICATE

#### Submitted By

Sr. No.	Students Name	Signature
01	Mr. Karthankar Damodar Asjun.	Kendlink DA
02	Ms. Hanang Priya Prakash.	p. puery
03.	Ms. Prasadi Vaishavi Rajesh.	Poras adi
04-	Ms. Patil sucheta Vasant.	Suerekuh

Mr. S. V. More Project Guide Esta.
15/6/2012
Dist.Sindhudrug

Amdar. Deepakhhai Kesarkar Science College Dodarnary, Tal. Dodarnary, Bist/Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### CERTIFICATE

This is to certify that the following students have satisfactory caried out the project work titled as ... Clean drinking water and health facilities for the ... FY BSC. Sem II class in Foundation Course & this report represent there Bonafide work during the Academic Year 2023-24.

#### Submitted By

Sr. No.	Students Name	Signature
01-	Ms. Sawant Divya Laxman.	Disaunt
02.	Mr. Panxelkar Amit Arun.	Rivellentint
03.	Mr. Mestry Sudarshan Datlarame	Somesty.
04-	Ms Desai Saisha Sadanand.	desai

Mr. S. V. More Project Guide



Mr. Maripal olase
Amdar. Daepakbhai Kesarkar Science College
Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

### **CERTIFICATE**

This is to certify that the following students have satisfactory caried out the project work titled as Jaclapur adomic energy project. for the Fry 185c Sem II<sup>nd</sup> class in Foundation Course & this report represent there Bonafide work during the Academic Year 2023-24.

#### Submitted By

Sr. No.	Students Name	Signature
01-	Mr. Shetkar Roham Hani	Thetkar.
02.	Mr. Jackar shoulesh c.	Blocker
03	Mr. Karol Sakib Suleman.	satisfer.
04.	Ms. Jadhav Asmita Gampat-	Apolhar

Mr. S. V. More Project Guide Esta.
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Amdat Deepakbhai Kesarkar Science College Dodamarg, Tal Dodamarg, Dist Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

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### CERTIFICATE

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Foundation Bonafide wo	Course	&	this	report	repres	ent th	iere

#### Submitted By

Sr. No.	Students Name	Signature
05.	Mr. Sinoni Chimay Sandip.	Stock

Mr. S. V. More Project Guide



Amdar, Deepakbhai Kesarka Science College Dodamarg, Tal. Podemarg, Dist. Sindhudrug

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### CERTIFICATE

This is t	to certify	that	the	followin	ng stud	ents h	ave
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	F.Y. 185						
Foundation	Course	&	this	report	represe	ent th	ere
Bonafide wo	ork durin	g the	Aca	demic Y	ear 20	23-24.	

#### Submitted By

Sr. No.	Students Name	Signature
01-	Mr. Chobe Rahul Rayendra.	Khope
02.	Mr. Gawas Gornish Mahadev.	Gmer
03;	Ms Gawade Reshma Caxman.	Relpull
04.	Mr. Desai Viraj Sitarram.	8pec

Mr. S. V. More Project Guide



Amder. Deepakbhai Kesarkar Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

### Amdar Deepakbhai Kesarkar Science College Dodamarg

At/ Post - Dodamarg, Tal. Dodamarg, Dist. Sindhudurg

(Affiliated to Mumbai University)

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#### Submitted By

Sr. No.	Students Name	Signature Mehay
05	Ms. Gawade Heha Yallappa.	
		-63

Mr. S. V. More
Project Guide



Mr. M. Principal lase

Amdar. Deepakhhai Kesarkar Science College

Dodarnarg, Tal. Dodarnarg, Dist. Sindhudrug



Saramik Vidyarthi Dnyanseva Sanstha's

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Department of Zoology

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Class: - T. Y. Bsc

Year :- 2023

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of the year 2023 -2024 in the college laboratory. Hawgun

Teacher-In-Charge

Defeator Department D.K.Sc. College Dodamary

Examiner: Desidor

Date:

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Shamsunder Chawan who has worked for the Sem V

of the year 2023 -2024 in the college laboratory.

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Sanjay Naik who has worked for the Sem .....

of the year 2023 -2024 in the college laboratory.

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Date: 25/10/23





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Year :- 23 - 24

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Handkuman Sulorwho has worked for the Sem X

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Teacher-In-Charge

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Examiner:

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Shramik Vidyarthi Dnyanseva Sanstha's

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journal is the work of Shri/S	no has worked for the Sem
of the year 2023 -2024 in	the college laboratory.
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Date :-





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Year :- 2023 -24

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Head of Department
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Shramik Vidyarthi Dnyanseva Sanstha's

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Head Panariment of Zoology D.K.Sc. College Dodamaic

Date:- 1 8 APR 2024



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Teacher-In-Charge

D K.Sc. College Dodamarg

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Date :-

Principal

Amdar, Deepakbhai Kesarker Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug



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Date:-11 8 APR 2024

Head Headrofehopartpient D.K.Sc. College Dodamarg

Amder, Deepakbhai Kesarker Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug



Shramik Vidyarthi Dnyanseva Sanstha's

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Department of Zoology

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Date:-

Principal

Amdar, Despakthai Kesarkar Science College

Dodernarg, Tal Dodernarg, Dist Sindhudrun



Shramik Vidyarthi Dnyanseva Sanstha's

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Department of Zoology

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Year: 2023-24

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> 15/6/2012 Dist.Sindhudrug

Teacher-In-Charge

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Head of Department

Examiner:

Department of Zeology D K.Sc. College Dodamarg

Date :- 1 8 APR 2004



#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST.: SINDHUDURG

DEPARTMENT OF ZOOLOGY

## CERTIFICATE

/ / 2024 DATE:

This is to certify that,

Mr.Miss. Manali Lamman kubal

Exam no.

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

Head, Dept. of Zoology

A.D.K.S.C. Dodamarg

Head Department of Zoology D K.Sc. College Dodamarg

Examiner's Sign.



## Centificate

This is to certify that Mr. Vedant Rukmangat Gawas, BSCIII, sem II , whose Roll no- 315 had duly Participated in necessary study tour at 'ksr Global Aquarium kesari Maharashtra, conducted by department of zoology Amdar Deepartmen kesarkar science college, dodamarg. 21/feb/2024 in Partof complation of semister Examination as Per syllabus of BSCIII's III's semister, mumbai university. Mr Vedant Rukmangat Gawas is student of this college Completed the all field work satisfactordity.

Teacher in charge.
Or more S. V. (HOD)
Ms Sudar S. B. (Asst Prof)
Mr Sinari A. S (Asst Prof)
Ms Shethar A. E (Asst Prof).

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Principal

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dedamarg, Dist.Sindhudrug

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15/6/2012
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Saramik Vidyarthi Dnyanseva Sanstha's

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Department of Zoology

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Year: 2023-24,

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Teacher-In-Charge

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Date:-



Shramik Vidyarthi Dnyanseva Sanstha's

#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG

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Department of Zoology

## CERTIFICATE

Class: - T. T. BSC

Year :- 2023

Teacher-In-Charge

Head of Department

Examiner:

Date:

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Shramik Vidyarthi Dnyanseva Sanstha's

## AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG

Tal. - Dodamarg, Dist. -Sindhudurg - 416 512.

Department of Zoology

## CERTIFICATE

Class: - T. Y. B. SC.

Year :- T.Y 2023-24

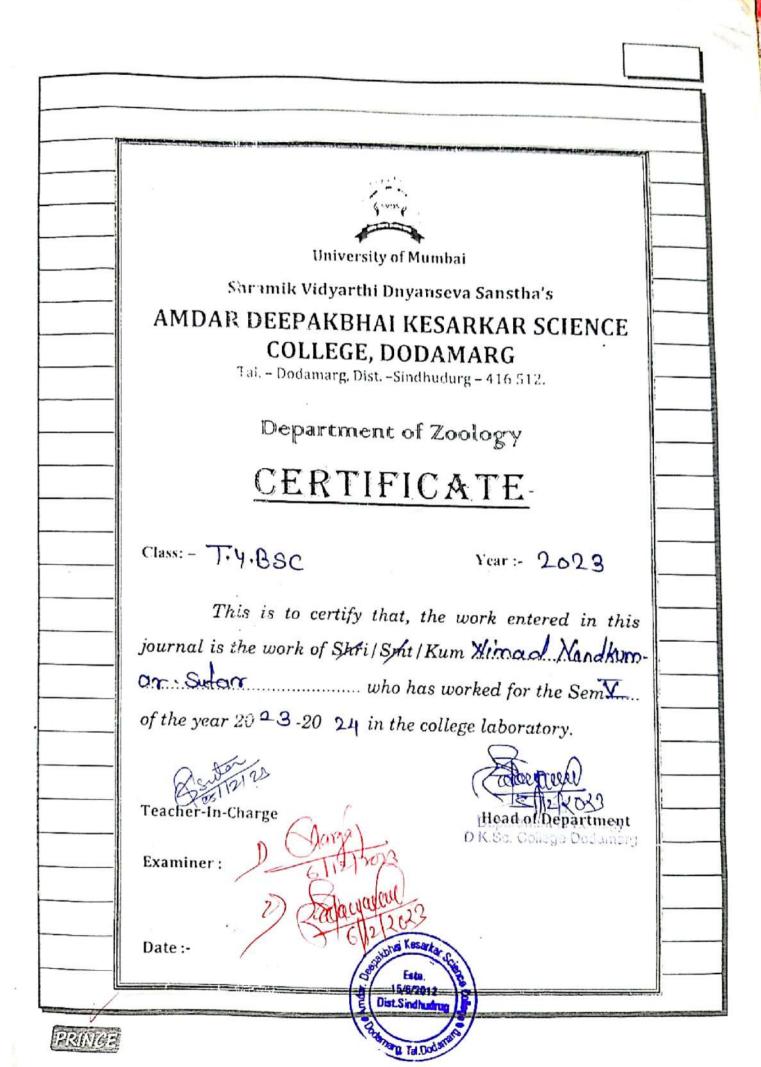
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Head of Department

Examiner:

Date:-







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Department of Zoology

## CERTIFICATE

Class: - T.Y. BBC

Year :- 23 - 24

Teacher-In-Charge

Examiner:

Date:-

Head of Department Department D.K.Sc. College D. James

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Shramik Vidyarthi Dnyanseva Sanstha's

## AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG

Tal. - Dodamarg, Dist. -Sindhudurg - 416.512.

Department of Zoology

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Class: - T.Y. BSC

Year: - 2023 - 2024

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15/8/2012 Dist Sindhudrug

Teacher in-Charge

Examiner:

Date :-

Head of Department

Department of Zoology D.K.Sc. College Dodarnarg



Saramik Vidyarthi Dnyanseva Sanstha's

#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG

Tal. - Dodamarg, Dist. -Sindhudurg - 416 512.

Department of Zoology

## CERTIFICATE

Class: -T.Y. BSC

Year :- 2023-24

of the year 2023 -2024 in the college laboratory.

Teacher-In-Charge

Examiner:

Date: 26/10/2023

Head of Department

D.K.Sc. College Declaration





Saramik Vidyarthi Dnyanseva Sanstha's

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Department of Zoology

## CERTIFICATE

Class: - T.Y. Bsc

Year: - 23 - 24

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Teacher-In-Charge

Examiner:

Date: 28 10/23

Head of Department
Department of Zook
D K.Sc. College Dodamars

Esta, 15/6/2012 Dist.Sindhudrug

#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST.: SINDHUDURG

#### DEPARTMENT OF ZOOLOGY

DATE: 19/04/ 2024

This is to certify that,

Mr./Miss. Kubal Manali Laxman

Exam no.

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Dept. of Zoology

A.D.K.S.C. Dodamarg Department of Zoology D K.Sc. College Dodamarg

Examiner's Sign.

Principal Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST. : SINDHUDURG

#### DEPARTMENT OF ZOOLOGY

## CERTIFICATE

DATE: 18 /4/2024

This is to certify that,

Mr. Miss. Neha. Narayar. Gawade

Exam no. 1014 250

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

,

Dept. of Zoology

A.D.K.S.C. Dodamarg

Head
Department of Zoology
D.K.Sc. College Dodamarg

Examiner's Sign

11 8 APR 2024



Principal Amdar, Deepakbhai Kesarkar Science College Dodamary, Tal.Dodamarg, Dist.Sindhudrug

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## CERTIFICATE

DATE: 19 /4 / 2024

This is to certify that,

Mr./Miss. Chausan Gaun' Shamsunder

Exam no.

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Teacher in charge

Dept. of Zoology

A.D.K.S.C. Dodamarg

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SHRAMIK VIDY ARTHUDNY AND WA VANSTHA'S

#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

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## CERTIFICATE

DATE: 19 04 2024

This is to certify that,

MEMINI KUBAL POOTA BHANUDAS Exam no. 320

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

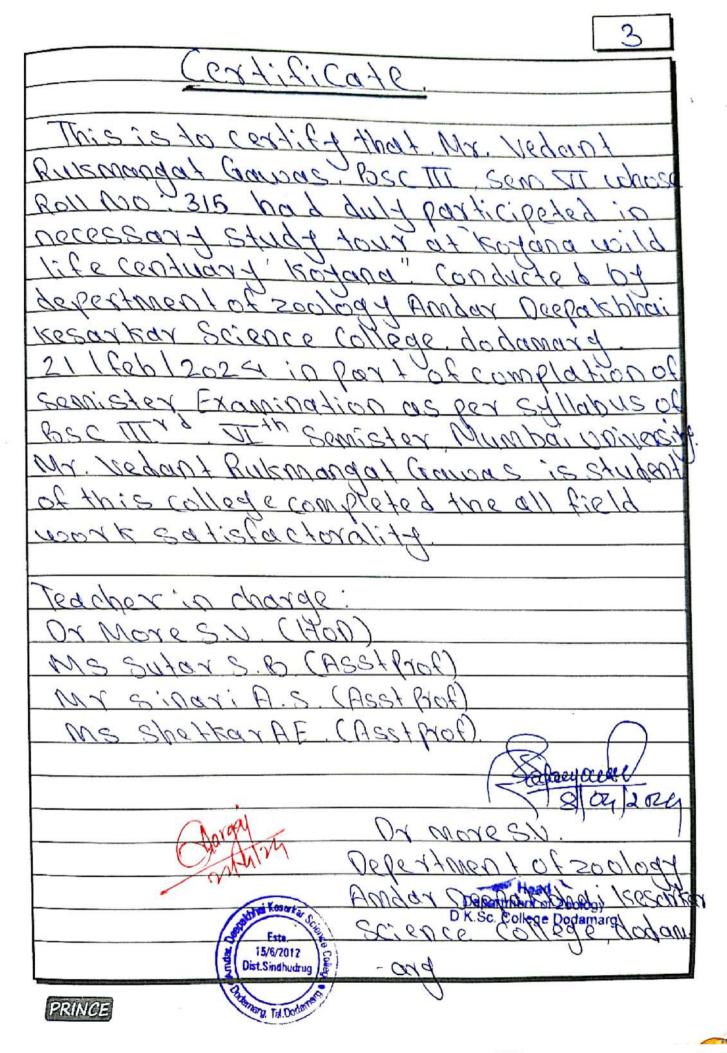
Dept. of Zoology

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Department of Zoology
D.K.Sc. College Dodamarg

Examiner's Sign. 274774



# This is to certify that Mr. ved emister akmanda f college completed the all rista Hoyalit in charge 15/8/2012



#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST.: SINDHUDURG

#### DEPARTMENT OF ZOOLOGY

## CERTIFICATE

DATE: 19 /04/ 2024

This is to certify that,

Mr.Miss. Kubal Manali Laxman

Exam no.

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

Head,

Dept. of Zoology

A.D.K.S.C. Dodamarg

Examiner's Sign.

(194 2024)

Department of Zoology D.K.Sc. College Dodamarg

1 8 APR 2024



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DATE: 18 / 04/ 2024

This is to certify that,

Mr./Miss. Gawas Shailoya Dnyaneshwar

Exam no. 1014251

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

Head, lead Department of Zoology D.K.Sc. College Dodamarg Dept. of Zoology

A.D.K.S.C. Dodamarg

Examiner's Sign.

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DIST. : SINDHUDURG

## DEPARTMENT OF ZOOLOGY

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DATE: 18/4/2024

This is to certify that,

Mr./Miss. Chawan Gauri Shamsunder

Exam no.

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Dept. of Zoology

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## AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST.: SINDHUDURG

#### DEPARTMENT OF ZOOLOGY

## CERTIFICATE

DATE: 19 /04/ 2024

This is to certify that,

MILMISS KUBAL POOJA BHANUDAS

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for .T.Y.B.Sc. Semester VI during the year 2023-2024.

Dept. of Zoology

A.D.K.S:C. Dodamarg Department of Zoology D.K.Sc. College Dodamarg



#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

DIST. : SINDHUDURG

#### DEPARTMENT OF ZOOLOGY

## CERTIFICATE

DATE: 18 /04/ 2024

This is to certify that,

Mr./Miss. Sutar Hinad Handkamar Exam no. 1014256

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024.

Teacher in charge

Dept. of Zoology

A.D.K.S.C. Dodamarg

Examiner's Sign.



**Principal** Amder, Deepakbhai Kesarkar Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug





#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE

( AFFILIATED TO UNIVERSITY OF MUMBAI )
DODAMARG, DIST. - SINDHUDURG 416 512 ( M. S.)

EMAIL - dkscsci@gmail.com ESTD. - 2012 TEL. NO. - 02363 256755 COLLEGE CODE - 166

## Criteria 1

## **Curricular Aspects**

Key Indicator - 1.3 Curriculum Enrichment

## Field Visit Reports & Sample copy of Project Work







#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE

( AFFILIATED TO UNIVERSITY OF MUMBAI )
DODAMARG, DIST. - SINDHUDURG 416 512 ( M. S.)

EMAIL - dkscsci@gmail.com ESTD. - 2012 TEL. NO. - 02363 256755 COLLEGE CODE - 166

# Report On One-Day Monsoon Trip at Tilari Nagar - Tilari Ghat, Western Ghats

Date: 19/08/2023

Location: Tilari Nagar - Tilari Ghat, Western Ghats

Participants: 17 students from the Department of Zoology at Amdar Deepakbhai Kesarkar Science College, along with the Head of Department and other teaching and non-teaching staff.

Introduction: The one-day monsoon trip to Tilari Nagar - Tilari Ghat in the Western Ghats organized by the Department of Zoology and Nature Club committee at Amdar Deepakbhai Kesarkar Science College was an educational and enriching experience. The primary focus of this trip was to observe and study the diverse flora and fauna of this region.

#### Activities and Highlights:

15/8/2012 Dist.Sindhudnig

- 1. Flora and Fauna Observation: The day began with an early morning nature walk through the dense rainforest of Tilari Ghat. Students and faculty members had the opportunity to observe and document the various plant and animal species present in their natural habitat. The lush greenery and vibrant biodiversity of the Western Ghats were truly mesmerizing.
- 2. Photography and Identification: The participants were encouraged to capture photographs of the wildlife and plant species they encountered. These photographs were later used for species

Amdar, Deepakbhai Kesarkar Science College Dodamaro, Tal.Dodamarg, Dist.Sindhudrug identification and documentation. The trip allowed students to develop their skills in wildlife photography and research.

- 3. Interactive Sessions: Throughout the day, there were interactive sessions conducted by faculty members, offering insights into the behaviour and ecology of the species encountered. These sessions enhanced the participants' understanding of the Western Ghats' unique ecosystems.
- 4. Swapanawel Waterfall: One of the trip's highlights was the visit to the stunning Swapanawel Waterfall in Tilari Nagar. The participants enjoyed the breathtaking scenery and had the opportunity to cool off in the refreshing waters of the waterfall.
- 5. Group Discussions and Knowledge Sharing: The trip fostered an atmosphere of learning and knowledge sharing. Group discussions were held at various locations to share observations and insights. These discussions proved invaluable in broadening the participants' understanding of the region's biodiversity.

#### Conclusions:

The one-day monsoon trip to Tilari Nagar - Tilari Ghat provided a unique opportunity for students and staff to connect with nature and gain practical knowledge in the field of zoology. The Western Ghats, known for its rich biodiversity, did not disappoint, as participants had the privilege of witnessing various species of animals and plants in their natural habitat.

This trip not only facilitated academic learning but also instilled a sense of environmental conservation and a deep appreciation for the beauty of the Western Ghats. The experience at Swapanawel Waterfall added an element of fun and relaxation to the educational journey.

The event was a resounding success, and the Department of Zoology at Amdar Deepakbhai Kesarkar Science College looks forward to organizing more such excursions in the future to promote ecological awareness and research in this ecologically significant region.







Principal

Amdar. Despakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Amdar Deepakbhai Kesarkar Science College, Dodamarg

#### **Department of Chemistry**

#### **Activity Report**

Industrial Visit				
20 <sup>th</sup> December 2023				
Department of Chemistry				
S.Y.B.Sc. Students				
25				
-Provide an exposure to students about practical working environmentOpportunity to interact with big businesses - To appreciate industry best practices in chemical safety, handling, and disposal, and to understand the importance of adherence to chemical regulations and standards in environmental protection.				
-Students appreciated the interactive nature of the visit, which allowed for active participation and learningStudents expressed gratitude for the valuable insights gained during the visit, especially regarding the practical applications of chemistry in environmental pollution				





Coordinator



Principal
Amdar. Deepakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Am. Deepakbhai Kesarkar Science College, Dodamarg

#### Department Of Chemistry

Notice

Date16/12/2023

All the S.Y.B.Sc students hereby inform you that, their industrial visit is organize on Wednesday, 20th Dec.2023 at Sadekar Envio.Engeeniring Goa.

Note. Request to all the students gather at college campus sharply on 8:30 am

Department of Chemistic D.K.Sc. College Dodamers

> Amder. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

To,

Prof. M. V. Golase I/C Principal, Amdar Deepakbhai Kesarkar Science College, Dodamarg.

#### Subject-Seeking Permission for Industrial visit

#### Respected Sir,

1.

Department of Chemistry has organised Industrial Visit on 20/12/2023 to Sadekar Enviro.Pvt.Ltd Goa.

This visit might help the students in attaining good knowledge in desired fields making it easy for them to understand the practical working in industry. I ensure all students will definitely maintain the decorum at the place. I eagerly await your positive response.

Thank you,

Yours Faithfully,

Department of Chemistron D.K.Sc. College Dodama

Principal

Amdar, Deepakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug



## SHRAMIK VIDYARTHI DNYANSEVA SANSTHA'S AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE

(AFFILLATED TO UNIVERSITY OF MUMBAI)

DODAMARG, DIST - SINDHUDURG - 416 512 (M.S)

E-mail - dkscsci@gmail.com ESTD. - 2012

Tel. No. - 02363-256755

**COLLEGE CODE - 166** 

Ref. No. DKSC /2023-24/105

Date: 19/12/2023

Τo,

CEO, Sadekar Enviro. Engineering Pvt. Ltd. Bardez, Porvorim, Goa.

#### Subject- Visitor list

#### Respected Sir,

As per our discussion, following Students & Teachers are will come for Industrial Visit on 20/12/2023.

Sr. No.	Name	Designation	Sr. No.	Name	Designation
1	Gaichor Shubham Vasudev	Student	15	Patil Ganesh Gopal	Student
2	Gawade Shivram Prakash	Student	16	Patil Navnath Dhondiram	Student
3,	Gawas Diksha Digamber	Student	17	Pedanekar Madhusudan Rajaram	Student
4	Gawas Kameshwari Pandurang	Student	18	Raul Sushant Santosh	Student
5	Gawas Lavkesh Vasudev	Student	19	Sarvane Rushikesh Tanaji	Student
6	Gawas Prathamesh Prabhakar	Student	20	Sawant Sanket Baburao	Student
7	Gawas Roshan Gopi	Student	21	Sawant Sushmita Eknath	Student
8	Gawas Shubham Pandurang	Student	22	Shivngekar Kishori Jotiba	Teacher
9	Jeshtnaik Shraddha Bhanudas	Student	23	Sutar Ganga Balkrishna	Student
10	Kharvat Janavi Janu	Student	24	Thakar Adhikesh Vilas	Student
11	Khedekar Roshani A.	Student	25	Gawas Roshani Ramesh	Student
12	Kotekar Pranali Parshuram	Student	26	Mr. N. M. Chougale	Teacher
13	Naik Sanchit Dayanand	Student	27	Mrs. S. B. Malik	Teacher
14	Paryekar Pankaj Nanda	Student	28	Mr. Amol Jadhay	Non-Teach

Thank you,

Yours Faithfully,

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15/6/2012
Dist.Sindhudrug

And The state of t

Amdur. Despathhai Kesartur Science College Dodernary, Yal.Dodernary, Dist.Sindhudrug

# STUDY ON HYPERTENSION PATIENT, SIDE EFFECTS & HOW TO CONTROL





# HYPERTENSION SURVEY

#### TO STUDY CAUSE OF HYPERTENSION

SUBMITTED TO THE MUMBAI UNIVERSITY MUMBAI

FOR THE DEGREE OF

BACHELOR OF SCIENCE

IN

**CHEMISTRY** 

UNDER THE FACULTY OF SCIENCE

BY

SALONI DNYANESHWAR MAYEKAR

GAURI VIJAY NIRALAGI

AAKASH ARJUN PARAB

SAMEER UDAY MORAJKAR

DATTAPRASAD PANDURANG NAIK

UNDER THE GUIDANCE OF

MRS. S.B. MALIK MADAM

DEPARTMENT OF CHEMISTRY

AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLAGE

**DODAMARG** 

APRIL 2024

Department of Chemistry

D.K.Sc. College Dodamsry

Esta.

Dist.Sindhudrug

Amder, Despakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

## Certificate

This is to certify that Ms/Mr Saloni Dnyaneshwar Mayekar
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Drugs and Dyes and
her/his project is entitled, Hypertension survey
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.



Department of Chemistry D.K.Sc. College Dodsmars

Date of submission:

25/04/2029



Principal

Amdar. Deepakbhai Kesarkar Science College

Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

Amalik (Mu. S. B. Malik)

Name and Signature of

## Certificate

This is to certify that Ms/Mr Sameer Uday Moralkar
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Danys and Dyes and
her/his project is entitled, Hyperstension Survey
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.

Esta.
15/6/2012
Dist. Sindhudrug

Name and Signature

Amalik Mes. S. B. Malik

Department of Chemistry D.K.Sc. College Dodarnary

Date of submission:

29/04/2024

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

## Certificate

This is to certify that Ms/Mr. Dattaprasad Pandurang Naik
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Dungs and Dyes and
her/his project is entitled, Lypentensian Survey
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.

Esta.
15/6/2012
Dist.Sindhudrug

Name and Signature of

Amalike (Mes. S. B. Malik)

Department of Chemistry
D.K.Sc. Callege Dodamary

Date of submission:

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

## Certificate

This is to certify that Ms/Mr Crawei Vijay Nevalorgi
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Dungs and Oyes and
her/his project is entitled, Hypertenicon Survey
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and

15/8/2012

Mes. S. B. Malik

Name and Signature of

Department of Chemistry
D.K.Sc. College Dodamary

16/04/2014

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Certificate

This is to certify that Ms/Mr Aakouh Asijun Powab
has worked and duly completed her/his Project Work for the degree of Bachelor under
the Faculty of Science in the subject of Decega and Dyes and
her/his project is entitled, Hypertension Survey
" under my supervision.
I further certify that the entire work has been done by the learner under my guidance.
It is her his own work and facts reported by her/ his personal findings and
investigations.

Esta.
15/8/2012
Dist.Sindhudrug

Mel. S. B. Malik)

Name and Signature of

Department of Chemistry D.K.Sc. College Dodarnarg

Date of submission: 25/04/2014

Amdar, Deepakbhai Kesarkar Science College Dodarnarg, Tal.Dodamarg, Dist.Sindhudrug

# Acknowledgment

I would like to acknowledge the following as being idealistic channels and fresh
dimensions in the completion of this project.
I take this opportunity to thank the University of Mumbai for giving me chance to do
this project.
I would like to thank my Principal, Mr. M. V. Crolane
for providing the necessary facilities required for completion of this project.
I would also like to express my sincere gratitude towards my project guide
Mus. Suchita Malik whose guidance and
care made the project successful.

Principal

Amdar. Deepakbhai Kesarkar Science College

Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

# **INDEX**

Sr.No.	Title	Page No		
1.	Introduction	1		
2.	Topic Information	2		
3.	Common Tablets	3		
4.	Data (List of Patients)	7		
5.	Graph	9		
6.	Precautions	13		
7.	Conclusion	14		
8.	Acknowledgement	· ·		



# Introduction

High Blood Pressure also known as Hypertension, is a widespread health issue affecting millions of indivisuals world wide. It is significant risk factor for caediovascular disease, stroke and other complications. Making its management crusial for overall health and well-being.

This project aims to search into various aspects of Blood Pressure management and it's implication's for patient care. The objective of the project is to comprehensively understand the factor contributing to high BP and to find effective strategies for this prevention and management.

Through a multidisciplinary approach we aim to investigate the rate of lifestyle modificationns, medication, and other interventions in achieving optimal BP control. We seek to evaluate the impact of socioeconomics factorr, genetic prediposition and BP management strategies with the ultimate goal of improving patient outcome and reduce burden of hypertension complication. Through the systematic analysis of available data and case studies we aim to identify the gap in current practice. Ultimately this project aims to study and enhance our understanding of high blood pressure and the way for more personalized and effective approaches to it's prevention and treatment.

# **HYPERTENSION**

Blood Pressure is the pressure of circulating blood against the wall of blood vessels. Most of this pressure results from the heart pumping blood through the circulatory system.

In simple hypertension is a common condition where the force of blood against our artery wall is consistently too high. it leads to the serious diseases like heart disease, stroke and kidney problems if not managed.

Hypertension usually does not cause symptoms itself. It is however a major risk factor for stroke, caronary artery disease, heart faliure, vision loss and chronic kidney disease. Hypertenison is a major cause of premature death worldwide.



# **INCREASING HYPERTENSION**

In most cases its not clear exactly what causes high blood pressure but there are something that can increase high blood pressure.

- Over Weight
- Eating Too much Salt & not taking enough of fruits and vegetables
- Drink too much alcohol and coffee
- Smoke
- Have lot of stress
- Have a relative with high blood pressure



#### 4

# **Different types of Tablets available for Hypertension**

			The second second second
sr.no.	Tablet Name	Active Pharmaceutical Ingredient	price
1.	Amlosev-5	Amlodipine	rs.
2.	Amlip-5	Amlodipine	rs.27
3.	Amlokind-5	Amlodipine	rs.34
4.	Amlodep-5	Amlodipine	rs.24
5.	Aztor-20	Atorvastatin	rs.
6.	Losakind-25	Losartan	rs.29
7.	Losar-25	Losartan	rs.38
8.	Macsart-40	Telmisartan	rs.
9.	Telmikind-40	Telmisartan	rs.
10.	Aten-50	Atenolol	rs.















# **Hypertension Survey Form**

Age :-	Sex :
Weight :-	
Weight	
1.Are you currently taking any medic name of medicine.	cation for your high blood pressure? If yes please list the
2. What is the dose?	
3. Which active pharmaceutical ingre	
Brand name and company name of  Ans:	f the medicine
5. What is the price of the one strip of	f tablet?
6. What are the Side effect of tablet?	
Do you have any family history of	this?
8. From how many years you are con	
	ges to help manage your high blood pressure?
O. Are you involved in regular physicans:	cal activity or exercise ?

omerg. Tal.Doub

11. Do you fill any symptoms if you miss your tablet for one day	
Ans:	
12. Have you experienced any complications related to your High blood pressure  Ans:	
13. On average how often do you check your blood pressure	
Ans:	
14. Do you Smoke or Consume alcohol?	
Ans:	

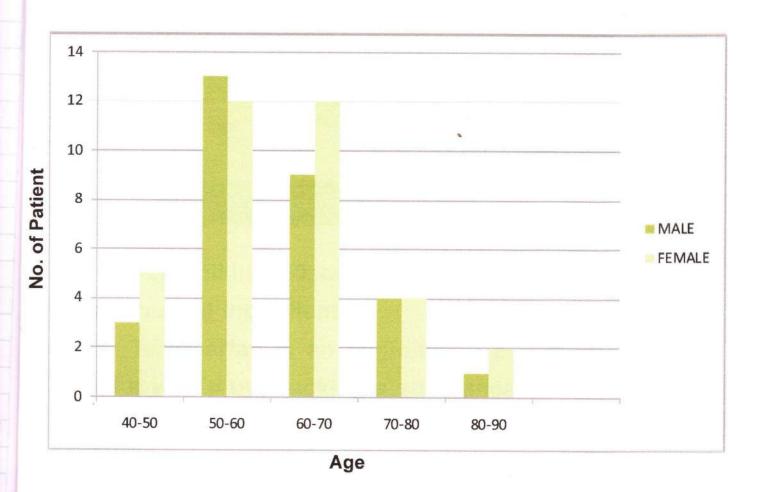
# LIST OF BLOOD PRESSURE PATIENTS

Sr. No.	Name of Patient	Age	Weight	Sex	<b>Medicine Name</b>
1.	Sonu Gopal Kubal	55	70	М	M tech – 40
2.	Shrikant Shantaram Gawas	63	42	М	Amlosev - 5
3.	Vidyadhar Vasant Salkar	63	55	M	Losar – 25
4.	Subhash Arjun Naik	62	52	М	Amlosev – 5
5.	Sakharam Bhikaji Naik	78	55	М	Amlosev – 5
6.	Shantabai Lakhappa Niralagi	86	28	F	Amlosev – 5
7.	Vitthal Krishna Gawas	55	62	М	Amlip – 5
8.	Jaywanti Jayram Paryekar	60	28	F	Amlosev – 5
9.	Bharti Santosh Fatak	50	65	F	M-Tech – 40
10.	Ladu Vithu Jadhav	55	78	M	Telmikind – 40
11.	Milind Keshav Manerikar	57	80	М	M-Tech-40
12.	Vidya Vilas Sutar	42	61	F	Verifia-50
13.	Shrimati Ramdas Gawas	55	65	F	Losar – 25
14.	Eknath Pandurang Sawant	46	66	М	M-Tech – 40
15.	Sulochana Tukaram Malik	65	50	F	Amlosev- 5
16.	Ramdas Vasudev Parab	72	65	M	Amlokind-5
17.	Gangaram Rama Ghogale	68	55	M	Losar – 25
18.	Vijay Baburao Dalvi	52	50	M	Mascart – 40
19.	Manisha Mahadev Dhauskar	62	49	F	Losakind-25
20.	Kavita Krishna Dhauskar	57	48	F	Losakind-25
21.	Kavita Govind Dhauskar	56	45	F	Losar – 25
22.	Dattaram Narayan Dhauskar	70	60	M	Amlip-5
23.	Anil Kakul Parab	43	55	M	Telmikind-40
24.	Babu Rajaram Chavan	68	70	M	Losar-25
25.	Shrimati Narayan Bordekar	72	48	F	Amlokind- 5
26.	Vinita Uttam Parab	69	52	F	Amlosev – 5
27.	Shubhangi Pandurang Bhujbal	68	56	F	Amlip – 5
28.	Gajanan Narayan Naik	67	64	М	Amlokind-5
29.	Deepali Dayanand Dhauskar	55	70	F	Amlokind-5
30.	Dayanand Uttam Dhauskar	69	65	M	Losar-25

8



# Graph from the collected data





#### **Telmikind 40**



Telmikind 40 contains "Telmisartan" as active pharmacutical ingredient.

Telmisartan is an angiotensin II receptor blocker (ABR) It works by blocking a substance in the body that causes blood vessels to tighten. In result it relaxes the blood vessel. This lowers blood pressure and increases the supply of blood and oxygen to the heart

Common Side Effects :- Difficulty or Painful Urination, Increased Heartbeat, Diarrhoea, Back Pain, Weakness, Muscle Pain, Fever

Similar Tablet :-



#### Losakind 25

Losakind 25 contains "Losartan" as active pharmacutical ingredient.

Losartan is used to treat high blood pressure and help to protect the kidneys from damage due to diabetes. It is an angiotensin receptor blocker (ARB). Its widely used to treat high blood pressure and heart failure. It also used to protect diabetic kidney disease.

Common Side Effects :- Dizziness, Diarrhoea, Tiredness





#### COMMON WAYS TO PREVENT HYPERTENSION

We can prevent high blood pressure by changing our lifestyle.

#### Like:

- 1) **Eating Healthy Diet** To help Manage our Blood Pressure we should limit the amount of Sodium that we eat and increase the amount of Potassium in our life. it also important to eat foods that are lowering fats.
- Getting Regular Exercise Exercise can help us maintain a healthy weight and lower our pressure.
- 3) Being at Healthy Weight Being over weight or having obesity increases our risk for High Blood Pressure and also reduces risk of other health Problems.
- 4) **Limiting Alcohol** Drinking Too Much alcohol can raise our Blood Pressure. It add extra Calories which may results in weight gain. Which would initially increase the risk of BP and other diseases.
- 5) **No Smoking -** Cigarettee smoking raises our Blood Pressure and put us at higher risk of Heart Attack and Stroke.
- 6) **Managing Stress** We should learn how to relax and manage stress which can help to improve our emotional and mental or physical health and which will result in lowering our Blood Pressure. Some stress managing technics like exercise, listening to music and meditation Etc.

If you already have High Blood Pressure it is important to prevent from getting worse which can cause other complications. We should get regular medical care and a great plan including healthy lifestyle habbit and active life and a great plan including

#### **Amlosev 5**



Amlosev 5 contains "Amlodipine Besylate" as active ingredient

Amlosev tablet works by relaxing blood vessel so that the bloos can flow more easily around your body. This lowers blood pressure and reduce your risk of having a stroke, a heart attack or kidney problem in future. Do not usually feel any direct benifit from taking this medicine but it works in the long term to keep you well. It is a calcium channel blocker. In high blood pressure it normalises the blood pressure by relaxing the blood vessel to reduce the pressure on them. Thereby improving the blood flow in the body.

Common Side effect :- Headache, Fatigue, Nausea, Abdominal pain, Sleepiness.

similar Tablet:



#### CONCLUSION

From the whole project/ Survey which we have done we came to a conclusion that hypertention does not have any symptoms most of the times. But over a time if it is untreated it can cause major health issues like heart diseases.

There is no cure for high blood pressure. But treatment can lower blood pressure that is too high. If it is mild, high blood pressure may sometimes be brought under control by making changes to a healthier lifestyle.

From the survey we came to know that people above 60 years take amlose, amlip ect tablets which contains "Amlodipine" as active pharmaceutical ingredient.

"Amlodipine" is a calcium Chanel blocker. In case of hypertension it normalises the blood pressure by relaxing the blood vessels to reduce the pressure on them

According to our survey we conclude that Hypertension problem starts from the age of 35 only due to changing lifestyle.

So it must to take precautions and to control Blood Pressure from the Age of 35 – 40 before it get worse.

Theirs no medicine from which you can get rid of hypertension. Medication and yoga only controls the High blood pressure, but no changing our lifestyle we can control it and can lead to a healthy life.

Esta.
15/6/2012
Dist.Sindhudrug

mdar. Deepakbhai Kesarkar Science College Dodarnarg, Tal.Dodamarg, Dist.Sindhudrug

#### REFERENCE:

III.

https://www.who.int/news-room/fact-sheets/detail/hypertension/?gad\_source=1&gclid=CjwKCAjwoa2xBhACEiwA1sb1BOu2ysZTfBZ0ZuOhY32hf0FAHqx-BV3jtipgVtJomnmPTJq35wSJ3Ro

https://www.cdc.gov/bloodpressure/about.htm#:~:text=Blood%2 Opressure%20is%20measured%20using,your%20heart%20rests %20between%20beats.



I the undersigned Miss / Mr. Saloni Dnyaneshwar Mayekar here by,
declare that the work embodied in this project work titled " Hypertension
Survey ",
forms my own contribution to the research work carried out under the guidance of
Mrs Suchita Malik is a result of my own research
work.
I, here by further declare that all information of this document has been obtained and
presented in accordance with academic rules and ethical conduct.

Saloni Dnyanesharar Mayelear Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

smalik.

My. S. B. Malik

Amdar. Deepakbhai Kesarkar Science College Dodarnarg, Tal.Dodamarg, Dist.Sindhudrug

I the undersigned Miss / Mr. Sameer Uday Moralkas here by,				
declare that the work embodied in this project work titled "Hyperatension				
Sarvey ",				
forms my own contribution to the research work carried out under the guidance of				
Mr. Suchita Malik is a result of my own research				
work.				
I, here by further declare that all information of this document has been obtained and				
presented in accordance with academic rules and ethical conduct.				

Someer U Moroskar Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

mu. S. B. malik

Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

I the undersigned Miss / Mr. Douttaprovad Pandurang Naik here by,
declare that the work embodied in this project work titled " Hy bento sion
Survey ",
forms my own contribution to the research work carried out under the guidance of
Mus Suchita Malik is a result of my own research
work.
I, here by further declare that all information of this document has been obtained and
presented in accordance with academic rules and ethical conduct.

Dataprough pandurang Naik
Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

& Malik

Mes. S. B. malik

Arndar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

I the undersigned Miss / Mr. Granvi Vijay Nivalorgi here by,				
declare that the work embodied in this project work titled "Hypertension				
Survey ",				
forms my own contribution to the research work carried out under the guidance of				
Mr. Suchita Malik is a result of my own research				
work.				
I, here by further declare that all information of this document has been obtained and				
presented in accordance with academic rules and ethical conduct.				
game.				

Certified by

Name and signature of the Guiding Teacher

- Bmalik

Mes. S. B. Malik

Principal

Amdar. Deepakbhai Kesarkar Science College
Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Gravei V. Nivalagi
Name and Signature of the learner

I the undersigned Miss / Mr. Ackarh Defun parab here by,				
declare that the work embodied in this project work titled "Hyperfervion				
Survey ",				
forms my own contribution to the research work carried out under the guidance of				
Mrs. Suchita Malik is a result of my own research				
work.				
I, here by further declare that all information of this document has been obtained and				
presented in accordance with academic rules and ethical conduct.				

Ackach Anjun Parab Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

( mes. S.B. malik)

Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug





#### AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE

( AFFILIATED TO UNIVERSITY OF MUMBAI )

DODAMARG, DIST. - SINDHUDURG 416 512 ( M. S.)

EMAIL - dkscsci@gmail.com ESTD. - 2012 TEL. NO. - 02363 256755 COLLEGE CODE - 166

#### Report On Study Tour 2023-2024

#### Introduction:

Amdar Deepakbhai Kesarkar College, Dodamarg, organized an enriching study tour to Mahabaleshwar and Koyna Wildlife Sanctuary from February 22, 2024, to February 23, 2024. The tour was designed to offer 45 students, accompanied by 4 teachers and 2 non-teaching staff, practical exposure to the fields of flora and fauna as well as wildlife conservation.

#### Tour Overview:

#### 1. Mahabaleshwar:

The first leg of the journey took the group to Mahabaleshwar, a scenic hill station renowned for its natural beauty and biodiversity.

#### Activities and Learning:

Exploration of Flora: Students engaged in a detailed study of the diverse plant species in the area, including medicinal herbs and endemic plants. This provided them with insights into plant diversity and the ecological significance of various species.

Observation of Fauna: During the visit, students observed the region's wildlife, including common species and their habitats. This hands-on experience helped them understand animal behaviour and the challenges they face in their natural environment.

#### 2. Koyna Wildlife Sanctuary:

The tour continued to the Koyna Wildlife Sanctuary, a crucial protected area known for its rich biodiversity and conservation efforts.

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#### Activities and Learning:

Wildlife Observation: Students participated in guided safaris and wildlife observation sessions. They had the opportunity to view a range of species, including tigers, leopards, and various types of deer. This experience provided practical insights into wildlife conservation and habitat management.

Conservation Practices: The group interacted with forest rangers and conservationists, gaining knowledge about the sanctuary's conservation strategies, anti-poaching measures, and efforts to preserve endangered species.

#### **Educational Outcomes:**

The study tour achieved its objectives by offering valuable practical experience and insights into flora, fauna, and wildlife conservation. The key outcomes included:

Enhanced Knowledge: Students developed a deeper understanding of plant and animal species, their ecological roles, and the importance of conservation efforts.

Real-World Experience: The tour bridged the gap between classroom learning and real-world application, providing students with hands-on experience in environmental science.

Increased Awareness: Participants gained awareness of conservation challenges and the significance of protecting natural habitats.

#### Conclusion:

The study tour to Mahabaleshwar and Koyna Wildlife Sanctuary was a highly successful educational initiative by Amdar Deepakbhai Kesarkar College. It provided students with invaluable practical knowledge and a greater appreciation for flora and fauna. The experiences and insights gained during this tour will significantly enhance their academic understanding and contribute to their personal growth.

#### **Acknowledgments:**

The college extends its sincere thanks to the tour organizers, guides, and conservation experts who facilitated this enriching experience. Their support was essential in making the study tour a memorable and educational journey.





Principal /
Amder. Deepakbhai Kesarkar Science College
Dodamarg, Tal. Dodamarg, Dist. Sindhudrug

SHRAMIK VIDYARTHI DNYANSEWA SANSTHA'S

#### AAM. DEEPAKBHAI KESARKAR SCIENCE COLLEGE, DODAMARG.

**DIST.: SINDHUDURG** 

#### DEPARTMENT OF ZOOLOGY

# **CERTIFICATE**

DATE: 18/04 2024

This is to certify that,

Mr./Miss. GAWAS SHAILAJA DNYANESHWAR Exam no. 10/4251

Has satisfactorily completed visit to 'Tour Report' in subject "ZOOLOGY" prescribed by Mumbai University, for T.Y.B.Sc. Semester VI during the year 2023-2024. US ZO604

Teacher in charge

Dept. of Zoology

A.D.K.S.C. Dodamarg

Examiner's Sign.

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Amdar. Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

Index			
5r. No	Name of Chapter	Page No.	
1.	A field tour report on zoology.		
2.	Certificate	2	
3.	Acknoledgement	3	
4.	Value of Reld Study	4	
5.	Objective	5	
6.	Intro duction	G	
7.	Accessories for species observation.	7	
8.	Zoological excursion and species information	8-12	
9.	Amdar. Deepakhhai Kesa Disk Sindhudrus  Onclusion.	al kar Science College g. Dist.Sihdhudrug	

# A Field Tour Report On Zoology

Duted on 22/02/2024 at

MAHABALESHWAR & KOYNA

Submitted to,

The dept. of . 200 logy, Aamdar

Deepakbhai Kesarkar Science College Dodamarg

for the T.Y. BSc - Sem VI to in zoology paper

IV 1- Examination 2028-24,

University of Mumbai.

Submitted by -

Name - Gawas Shailaja Dryaneshwar.

Roll No. - 314

Regd. No -

Year - 2023-2024 T. K. BSc

Dept of zoology

Aamdar Deepalchhai Kesarkar

science College, Dodgraun

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### Acknowledgement

I'am highly previlaged to submit my report on the topic " Visit to sanctury"

This field report is successfully completed due to the efforts of the many people, who gave their valuable time & advise. I sincerely appreciate inspiration, support and guidance of all those people who have been instamental in making this report q Success.

I am very greatful to out dept of 200 logy of 200logy of Aqmodar Deepalebhai Kesarkar Science college. I would like to exprese my sincere thank to my field work guiders - Dr. S. V. More

Asst. prof. Mr. A.S sindri

Asst. prof Ms. A. E. Shetkar

Asst. prof Ms. S.B. Sutar.

and all the team and staff, for helping me in observation & Identification of species.

I would like to thank our HOD Dr. More S.V.

For the field trip.

Last but not the least I place a deep sense

of gratitude to my classmate & my friends who have been

constant source of Inspiration during the propagation

ris report work.

Deepakbhai Kesarkar Science College

15/6/2012

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### Yalue of field Study

The value of a field study visit to a wildlife canctury is immense. It offers firsthand experience and observation opportunities for us to learn
about biodiversity, ecosystems, conservation efforts
and the importance of preserving natural habitat.

Additionally, such visits can instill a sense
of responsibility towards the environment, fostering

of responsibility towards the environment, fostering a deeper understanding and appreciation for wildlife and their habitat.

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Objective
3
· To study the diversity of animals found in
Koyna Wildlife Sanctuary.
· To investigate habit and habitat, environmental
conditions of the species found in an area.
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· V castle
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#### Introduction

Shramik Vichyarthi Dnyanseva Sanstha's Hamdar Deepakbhai Kesarkar Science, College have conducted field visit for the student of T.Y. BSC Semester VIth for the academic year 2023-2024 under the Subject " Environmental Management and zoogeography" on the topic " Visit to Sanctury" to observe diversity of animals and prepare a report.

We have visited 'Koyna Wildlife sanctuary' at Satara, Maharashtra.

The Koyna wildlife Sunctuary stands as a testament to the majestic wonders of nature, nestled in the heart of the Western Ghals of India. This haven of biodiversity spans across approximately 423 sq km in the satural districts of Maharashhad. Catablished in 1985.

This place has variety of variability of flora and fauna for observation and study, so we have selected this place to get most benefit out of this visit.



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# Accessories for Species Observation

- · Smartphone Camera.
- · Notepad
- · Pen
- · Guidebook
- · first aid kit
- · Sunscreen
- · Water Bottle
- · Backpack
- · Comfortable footwear.
- · Hat and sunglasses.
- · Compas.



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# Accessories for Species Observation





### Zoological Excursion

	<u> </u>
Koyna	Wildlife Sanctuary.
,	anctuary is/a wildlife sanctuary &
natural World Heritage	2 site, which is located in satura
dishold of the Indian	state of Maharashtra. The sanctuary
is nested in the Wester	ern Ghats.
Location	- Satara, Maharashtra India
Negrest city	- Icolhapur and Pune
Lattitude	- 17°82′56"N
Longitude	- 73° 45'11" E
Area	- 423.55 Sq Km (163.53 sqmi)
Established	- 1985
Governing body	- Maharashbra State Forest Department
Forest type	- Tropical evergreen & semi evergreen
Soil type	- lateritic soil, red & black, allyvial
qverage altitude	- 897 m (2,943 Ft)
annual rainfall	- 5,500 mm (220 is).
This wildlif	e sanctuary is designated as an
Important Bird dreg.	The sanctuary includes estern
and Western catchin	ents or the koynadam. The
sanctuary is Well pro	ltected by the large extent or
	and steep slopes of the Western
Ghats on spatimenthes &	
Dist.Sindhudrun	Principal > Amaar. Deepakbhai Kesarkar Science College
Tal Dale	Dodamarg, Tal.Dodamarg, Dist.Sindhudrug

#### Indian Gaur



Kingdom: Animalia

Phylum : Chordala

Class : Mammalia

Order: Artiodactyla

family: Boxidae

Genus : Bos

Species: gournil

- · The gaur is the largest extant bovid.
- · It is a strong and massively build boxine with a strong high convex ridge on the Forehead between the horns, which protrudes anteriorly.
- · In Central India, they are most active at night and are rarely seen in the open after 8'0 clock in the morning.
- The gaur grazes and browses mostly the upper portion of plants, such as leaf blade stems, seeds and flowers of gaur species.



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#### Malabar Pied hornbill



Kingdom - Animalia Phylum - Chordata

Class - Aves

Order - Bucerotiformes

Family - Bucerotidae

Genus - Anthracoceros

Species - Coronatus

- · The Malabar pied hornbill is a large hornbill, at 65 cm in length.
- · It has mainly black plumage apart from its white belly, throat patch, tevil sides and trailing edge to the wings
- · The Weigh around Ikg.
- · The Malabar pied hornbill is a common resident breeder in India.

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### Grey Langoor



Kingdom - Animalia
Phylum - Chordata
Class - Mammalia
Order - Primates
Family - Cercopithecidae
Genus - Semnopithecus
Species: entellus

- · The langoor are largely gray with a black face and ears.
- Externally, the various species mainly differ in the darkness of the hands, feet the overall colour and the presence or absence of a crist.
- · They sleep during the night in tree, when resting in trees they prefer highest branches.
- · Grey langoor are primarally herbivorous.

#### Sambar deer



Kingdom - Animalia
Phylum - Chordata
Class - mammalia
Order - Artiodactyla
Family - cervidae
Grenus - Rusa
Species - unicolor

- . The appearance and size of the sambar vary widely across its range, which has lead to considerable taxonomic confusion in the part.
- · Height is 102 to 160 cm.
- · Head and body length varies from 1.62 to 2.7 m with tail.
- · They often congregate near water and are good swimmers, sambar are generally queit.
- · Sambar feeds on wide variety of vegetation, including grasses, browse, fruit and water plants.



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### Conclusion

field visit is an effective method for education promotion, where we learn through diverse experience in vial life situation.

We have successfully placed a field visit to Koyna Wildlife sanctuary. Through it is very difficult to study habit, habitat of each and every species and comment on them, but our team-work and co-operation and guidance between teachers made it possible.

During the survey we found variety of animal and plant species, which were new to us. Lastly we have enjoyed the field trip & learned a lot on this aspect.

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## Index...

Sr. No	T.itle.	Pg. No
<u>.</u>		
1	Interoduction	5
2.	Species characteristics	5
3	Cultural Requisement.	9
		10
Lą.	Feasibility Analysis	13
5	Tarana and gunb	10
	Toldwing and suppost	17
6	Risk Assessment	20
	VOSA NOSESSII (CO)	
7	Market Demand	25
8	Government Policies & Incentiver	27
9	Conclusion-	28
•		
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# Probability Report aintenance Mense Chaetoptero rtemia rmeys Amdar. Deepakbhai Kesarkar Science Col Tal Dodamarg, Dist. Sindhudrug

### Introduction

The cutivation of engetopterios and guterial holds immense patential for enhanching nutritional value of aquaculture feed and consequently improving the over all health and growth of farmed fishes fish farming continious to be a Vital comp. onents of global food production, the integration of these live organisms in to aquaculture Systems presents an oppositurity to elevate the quality of fish nutrition This probability supposed delves the teasibility and benefits of incorporating chaetopteros and devernia in to the maintatrance practices of flesh farmers arming to Shed light on the potential advantages challenges, and probabilities associated this innovative approach Though a compreshensive examination of the curvent aquaculture landscape and the characteristics of chaetopterios and Antemia is report seeks to provede valuable Equimens contemplating thoughten Esta.

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Dodamarg, Tal Dodamarg, Tal. Dodamarg, Dist. Sindhudrup

## Species Characteristic

#### Chactoptenos

#### 1) chasacteristics:

· chaetopteros à a genus of marine especies motor privilegma, nothentated

· Diatoms are unicellular algae with a unique cen war made of silica, forming intricate and beautiful Patterns.

· They are essential components of the marine food

chain, providing neutrition for various marine

organisms



#### 2) Nutritional Value:

Contrate de la latte acide de la proteins.

Contrate de la latte de la latte acide de la latte de la latte acide de la latte acide de latte acid

Manager Deepekhal Kesarker Stehe tollege Amder Deepekhal Kesarker Stehe Deepekhal

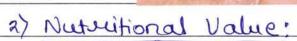
3) Benefets:
· Serve as a primary food source for many
marine organisms, including copepods.
Small fish larvae and bivalues
· Play a cousial side in Supporting the early
Stages of marine food cooks.
· Their abundance influences the health of
larger marine species, making them an
bur sent us agua culture and
maine ecosystem.
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Principal Principal
Amdar. Deepakbhai Kesarkar Science College 15/6/2012 Dodamarg, Tal. Dodamarg, Dist. Sindhudrug
2 Dist. Silving
Tel. Ooder

#### Artemia

#### is characteristics.

· Alteria, commonly known as maine showing are small, aquatic counteceans

They what hypersaline envisionments ouch as soit pans, and their eggs can writtend desication, allowing took easy storage and transportation.



- · High protein content, making them an excellent Source of nutrition for aquatic organisms.
- · Rich is essencial amino acids, Vitamins

especially Vitario A & Vitarion C and minerale

· The nutritional profiles of determin makes

them a Valuable live goed for sigh larvae

and 8h strop - post laguae.

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Amdar, Deepakbhai Kesarkar Science College Dodamarg, Tal.Dodamarg, Dist.Sindhudrug 3) Benefits:

- pose lasval slages of marine and fresh unater fish, as well as invertebrates.
  - · Artemia nauplii (lanvae) are casily digesteble and stimulate the feeding response in fish and shrimp.
  - · Sed in the aquacium trade as a nutrition food Source for Ornamental fishes.

Both chaetopteros and autemia contribute
Significantly to the aquaculture industry by
providing essential nutrition during crafical
development stages of Various aquatic organisms
Incorporating these organisms is to aquaculture practices supports the growth and
health of fish and invertebrates.

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## Cultural Requirement

for culturing chaetopterias (massine warm) and Artemia (braine shringi), Specific environ. -mental conditions are crucial, Here's detailed information on the required parameters.

#### chaet opteros

- · Temperature:
  - · Optimal temp : 18-22°C (64-72°F)
  - · Ensure Stability to avoid Stress on chaetopterios.
- · Salinity:
  - · Marine Christonment with salinity rangering form 30 to 35 ppt ( Pour per thousands)
  - · Consistent Salvity revels are coulded for chaetopteros health.
- · Water Quality!
  - · Mountain high water quality with minimal
    - Regularistance changes and Filthern Amder, Deepakhhai Kesartan Saisan

Dodamarg, Tal. Dodamarg, Dist. Sindhudru

- · substitute!
  - · Provide a sandy substante as Chartopteros constructs tubes in the sediment.
- · feeding.
  - · feed couth small particulate organic matter such as microalgae and detocitus.
  - particles to chartopterios.
- · Lighting:
  - · chaetopterios is generally noctornal. 36 provide low-intensity lighting.
- · Oxygen levels:
  - · Maintain well-aerated water to ensure Jufficient oxygen.

#### Autemia

- · Temperature.
  - · Ideal temperature range: 25-30°C (77-86°D)
  - but require increased oxygen levels.
- · Salinity:
  - · Builable Salinety range: 25:35 ppt.
  - · Adjust satinity based on the developmental stage of Artemia.

#### Notes Quality. · Use dechlorinated wester with a pH level between 8 and 85. · Regularly manitor ammonea, nitrite and resulte levels. · Actation: · Provide continious abatton to ensure proper Oxygeration. · Artemia layvae are sensitive to low oxygen levels. · feeding: · feed Autemia micsipalgae or a suitable commercial diet · Adjust jeeding rates based on the development al stages. · Lighting: · Use low-intensity lightering for hatching artemiacysts. · Continuous light during the first or has Stimulates hatching · Hasvesting: · Hayrest nauplii at the desired Potentelopment Stage Strows Leeding to othe Sode Marg, Stademary, Dist. Sindhudrug

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Remember to monitor and adjust those
conditions based on the specific life. Stages
of chaetopterios & doctemia as their requir-
-emets may vary during different develop-
-mental phases, Regular testing and
observation are essential for decentul
Culture.
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Dist Sinchudrug Amder. Deepakbhei Kesarkar Science College
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## reasibility Analysis

Let's delve in to the jeasibility of maintaining chaetopterios (maxine worm) and Axternia (brine shrimp) cultures in the content of local fish farming pratices:

1) Purpose and Importance:

- · Desermine the Specific goals for incorporating chaetopterios and Autemia is test farming Such as providing live jeed par fish larvac · Understand the nutritional benefits these ordange of rotto warred
- 2) Cultural Requisement:
  - · Investigate the environmental conditions requ-- Ired jose chaetopterios and asternia cultures eluding temperature, Salnity and PH levels. · Asses the availability and cost effectiveness of maintaining these conditions locality

3) Injudstructures:

Evaluate the space and equipment needed eminapres that principling 15/8/2012 Dist Sindhudrug

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· consider the feasibility of constructing or adapting facilities for optimal Culture condition 4) Sourcing and Quality Control: · Identify reliable Suppliers for initial cultures on charteptenes and Anteinia · Implement quality control measures to ensure the health and nutritional Value of the live feed. 5) Integration with fish-farming Practices. · Gramine the compatibility of chaetopteros and setemia worth local jish species · Develop feeding protocols to integrate live feed in to existing fish jaining routing (> cost - Benefits Braysis: · Calculate the overall coasts associated with mountaining chaetopteries and artemia culture, including initial setup, angoing. operational expenses and labour. · Evaluate the economic benefits such as eroproved fish growth rates and survival 7) Training and Education Amdar. Deepakbhai Kesarkar Science College the proper handling and Utilization of

challopterios and Autemia cultures, including unitial Setup, ongoing operational expenses and labor

· Evaluate the economic benefits, such as iroproved pish growth rates and survival.

7) Training and Education:

- · Provide training for fish farmers on the proper handling and Utilization of chaetopheros and Artemia.
- · Ensure that faremens are educated on the nutritional requirements of their bish and the benefits of live feeds.

8) Sustainability and Environmental Impact:

- · Asses the Sustainability of chaetopters and Autemia culture in the local environment
  - . consider potential envisonmental impacts and implement practices to munimize any negetive effects.

#### 9) Market Patential:

- · Explore the market demand for tesh ked couth chaetopterios and autemia.
- Determine is there is a premium market fish produced with live teles

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10). Meanitourng and record keeping:
· Establish a System for monitoring the health
and productively of chaetopteros and
arrenia cultures.
· keep detailed records to track performance
and identify areas for improvement.
11). Regulatory compliance;
· Ensure compliance with local regulations
related to the use of live teed in fish
Lauming.
· obtain any necessary permits or approvals.
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Tal. Dodania

# Training and Bupport

Evaluating the availability of training programs and Supposed for fish jasureses in maintaining chaetoptessos and assemus culture unvolves assessing vasious aspects. Here's breakdown

1) Training programs!

Identification of programs:

Programs focused on chaetopterios & autemia

cultures.

· Cuoviculum:

Assess the content of these program, ensuring the cover circulat aspects like Cultivation techniques, water quality management and disease prevention.

· Accessability:

Evaluate the accessibility of training Programs, consider factors Such a location

Cost and language.

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2) Support Mechanisms:
· Technickal Assistance:
Determine the availability
Of technical support jor fish jaumens, including
expens who an provide guidance on chaeto
- Pteros & Asternia Culture.
· Online Resources:
Explore the existence of online
HELOURCES, MOBILIAN, OR forums where farmers
Can acrees information and Support remotely.
· Networking opportunities:
Asses wheather there
are networks or associations connecting fish
jarmers engaged in chaetopterios and artemia
culture to facilities knowledge exchange.
3) Government initiatives:
· Government Sponsored Programs:
Investigate is
there are any government-sponsored institutive
armal at supporting aquaculture, specifically
focusing on chaetopteros and astremia
Culture Kasarta Co
· Dubsides and Jacon Kups:
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The state of the s

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guards or incentives that fish journeys can
avail them selves of for unplementing and
maintaining these culture.
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Janua In D.

## Risk Assessment

and Autemia (brine shring) cultures, commonly used as live feeds in aquaculture, presents various challenges and risks

#### 1) Water Quality.

· Risks :

Poor water quality can lead to the accessmulation of toxins and pathogens.

negatively impacting the health of both chaetopters and asternia.

· challenges:

Maintaining optimal water parameter including temperature, PH 9 Salinity, is could too their growth and surreival.

2) Contamination:

· Risks:

Contamination with unwanted microorganisms, such as bacteria, tungi or
compenting microalgae, can affect the
nursitional quality of the culture

challenge: Implementing Struct hygiene practices and siegular mointoring to prevent conta-- mination is essentional. 2) Nutsitional Quality: · Risks: limited Inadequate nutrition can compromise the nutrutional value of chaetopterios and artemia cu feed for lasual organisms · Challenge: Formulating and providing a balanced dies that meets the nutritional requirements of the sagget species is crucial for successful aguaculture. 4) Genetic Diversity: · Risks! timited genetic diversity with in chaeto-- pterios and arternia populations can lead to susceptibility to disease and reduce adaptability · challange: Regularly introducing new genetic material and mointoring genetic diversity helps maintain robus 3 healthy cultures,

5) Temperature fluctuations: · Risks: Sudden temperature changes can stress and negatively impact the reproduction rates of rotifests and asternia · challenge! Implementing temperature control measure and gradually adjusting conditions to prevent Sudden fluctuations is necessary 6) Handling and Harvesting. · Risks: Improper handling during harvesting can lead to physical damage and storess, affecting the viability of the live feeds · challenge: Regular health monitoring, Developing gentle haswesting techniques & efficient protocols to minimize stress during collection is important. T) Disease Management: · Risks: Disease outbreak within chaetopteros and arteria cultures antire capop. desravate

populations if not properly addressed. · challenge: Regular health monituring, aguaran--thre protocols, and the we of apropriate medicerions are crucial components of disease management. 8) Supply chain issues: · RISKS: Dependance on external 30 mices 200 culture inputs like nicroalgae can pose a risk there are disruption in the supply chain challenges: Developing contingency plans and establishing so- house production of essential Components can muligate supply chain vulnerabilies. 9) Environmental Sustainability. · Risles : Overexploitation of natural resources for culturing can have environmental consequences, impacting ecosystem.

- challenge:
Implementing Sustainable Practices
Such as efficient resource uthization and
recycling help minimize, the ecological joot-
- balut
•
Succesfully revigating these challenger
abudives a combination of Scientific expense,
Careful management practices, and
continuous monitoring to ensure the
Consistent production of high quality
chaetopterios und autemia jos aquaculture
puerpose,

## Market Demand

Analysing the market demand for fish feed with chaetopterios and artemia involves a comprensive understanding of various factors including consumer preferences for high quality and nutritions products.

- 1) Nutritional Benefits.
- · Highlight the nutritional advantages of chaetopterios and autemia.
- 2) Health benefits for consumers.
  - · Emphasize how fish ted with chaetopteros and autemia offer health benefits to consumer.
- 3) <u>sustainability</u> of <u>Envisormental consideration</u>. Address the <u>Sustainability</u> aspects of using chaetopterios and artemia as jub jed.
- 4) consistication and Quality Assurance
  - · Discuss any cirtifications or quality

assurance measures in place for the production of chaetopteros q autemia.

- Market Trends and Consumer Preference.

   Identify and Understand the target

  demographics and targeted consumer groups

  which intrested in high. Suality and

  nutritious fish ted.
- · Develope effective communication Strategies
- · collaboration with Retailers and Distributors, collaborate wouth retailers and dutributors and establish partnership
- 8) Research and Development.
  - one essential to improve the efficiency
- 9) Price point and value Proposition:
  - · Determine an appropriate price point for the fish products based on the production Cost, market competition, and perceived Value.

# Government Policies & Incentive

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- ) Government Grants and Subsidies:
- 2) Loans and credit facilities
- 3) Insweans Programs.
- 4) Technical Assistance and training
- 5) Research and Development funding
- 6) Tax Incentives
- 7) Environmental compliance Support

## Conclusion!

After analyzing the protoability report on the maintainance of chaetopteros and autemia cultures by but farmers, several key findings are emerged, firstly, there is a high probability that just fourness will Successfully maintain Cultures of chaetopteros and antenia due to their adaptability to various environmental conditions and their nutritional value jos josh larvae. The findings of the probability repor troggest that with proper training, support and access to resource, gish faremens have a high probability of successfully maintaining cultures of chaetopterios and autemia, which can ultimately contoubute to the sustainable of healthy jish stocks.

## Refrences

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- https. // en · Wikipedia · org / wiki / Artemia ·



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and Artemia.

Their cooperation and willingness to

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gathering the data necessary for this report

Additionly, we acknowledge the Suport and guidance for the head of the department or More sir, Assistant profferor Sutar madam assistant profferor. Mr. Sinavi sir and assistant profferor. Ms shothar madam, we are truely thankful for the efforts of time you invested in making this educational oppositurity possible.

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#### FOUNDATION COURSE (B. Sc. I, Sem -II)

#### Student Project List Academic Year 2023-24

Sr. No	Name of the student	Allotted project	Remark
1	Shirodkar Srya Abhay		complete
2	Gawas Bhikaji Khemraj	उच्च शिक्षण आणि भारत	complete
3	Gawas Rutik Arun		Complete
4	Gawas Bhakti Bhagawan		Complete
5	Kamble Pallavi Prakash		Cempleh
6	Jangale Tushar Shamu		Complete
7	Gawade Vithoba Umesh		Couplet
8	Sawant Divya Laxman		Complete
9	Panyelkar Amit Arun	पिण्याचे स्वच्छ पानी व	Complete
10	Mestri Sudarshan Dattaram	स्वच्छता सुविधा	Complete
11	Desai Saisha Sadanand	— स्यण्छता सुापवा	Campleh
12	Gawade Swapnil Santosh		Incomplete.
13	Gawade Neha Yalappa		Cauplete
14	Naik Yogita Anand		Couplete
15	Mayekar Shivram Suryakant	—— सार्वजनिक	Couplet
16	Naik Dipti Dilip		lincomplete.
17	Naik Nutan Sanjay	शिक्षणाधिकार	complete
18			couplet
16	Bandekar Yogesh N.		Complete
20	Malik Vedant Sanjay	—— लैंगिक विषमता आणि	
	Desai Dilip Sanjay		Campleta
21	Desai Vidhyadhar Gurudas	—— भारत	Complete
22	Bagadi Prathamesh P.		Couplety
23	Desai Samiksha C.		Complete
24	Ghogale Sakshi Baburao		Camplela
25	Uphalkar Sharan P.		incomplete.
26		Halankar Narayan Suresh शहरातील आरोग्य Naik Akshay Anil सुविधा	
27	<del></del>		
28	Mundhe Vishal Kishan		inomplete.
29	Patil Akashay Anadrao		Complete
30	Gawade Laukik Santosh		Incomplete.
31	Shetkar Rohan Hari		Ceuplete
32	Jadhav Shailesh C.	जैतपूरचा अणुऊर्जा	Couplete
33	Karol Sakib Suleman	प्रकल्प	. Couplet
34	Naik Prachi Prakash		Incomplete.
35	Naik Pranali Prakash		Incomplete.
36	Shetye Pramila Anand		Inemplete.
37	Jadhav Asmita Ganpat		Couplete
38	Gawas Mayur Mohan		inemplete.
39	Chobe Rahul Rajendra	शहरीकरण आणि	Caupker
40	Shetkar darsahni hari	त्यांच्या समस्या	Incomplete.
41	Gawas Gaurish Mahadev		Couplet
42	Gawade Reshma Laxman		carpteh
43	Desai Viraj Sitaram		Couplel



	T		Camplete	
44	Sinari Chinmay Sandip		Incorplets.	
45	Dalvi Prasad Sharan		Complete	
46	Kavthankar Damodar Arjun	टेहरी धरण		
47	Shetkar Madhukar Ravindra		Corplets.	
48	Warang Priya Prakash	ang Priya Prakash		
49	Prasadi Vaishanvi Rajesh		coupled	
50	Patil Onkar Sadashiv		complete.	
51	Patil Sucheta Vasant		Campiere.	



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यासासन अभ्यासक्त

Name - Yogita Anand Naik.



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## पुस्तावना

मिरुन प्रमान संस्कृत स्था भिद्यां केला जाती. क्रमां क्रमां क्रमां स्थान केला जाती. क्रमां क्रमं क्रमां क्रमं क्रमां क्रमं क्रमां क्रमां क्रमां क्रमां क्रमां क्रमां क्रमां क्रमां क्रमा



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पुरुषप्रधान संस्कृतीत रिश्यां पुरुषां त्या तुमनेत कमी महत्त्व दिले जाते. आरीष्ट्राणी निमा व वैद्यकीय सुविद्यां त्याही बाबतीत स्त्री पुरुष समा भेदमाव केमा जातो. स्त्रीया व मुमींत्या आरोध्याकडे वुम्मात्मक दृष्ट्या दुर्निस केमे जाते. आर्थिक स्थिती व पुरुषप्रधान संस्कृती ही त्याची दीन कारिंग अस्तात उदा., प्रशतीन स्त्रिया किंवा मुमीला दवाखाल्यात जाळासाठी व्यशतील कत्यी पुरुषायी किंवा प्रतीयी प्रथानगी ध्यावी लागते. आणि अनेकदा ही प्रयानगी दिली जात नाही. अगदीच तातडीची भरज असेल तस्य परवानभी मिलते. अनेकवा व्रेशास्त्रावी क्रिया द्वाळाळात नात नाहीत. परंतु पुरूप किंवा मुमांना हीच रीवा अञ्जूनमाने पुरुवागी जाते.

काही जमारीमहरो पर महिमांनी जरावाहर माळ्यावरव निर्यंत्रवा असंते महा। विकाली महिना व टवान्याचा ह मंपर यारूप महिन्नामा क्यन्या.

वेळी खारीच्य स्नुविधा भिळत नाही.

भागपा तर 1'00'000 यथाता भाग निया मार्ग मार्ग मार्ग मार्ग स्वर 138 द्रांमहत्र मार्ग तर वर प्रमाण तर 1'00'000 यथाता भाग तर वर प्रमाण तर 1'00'000 यथाता भाग तर वर प्रमाण वर्ष प्रमाण वर्य प्रमाण वर्ष प्रमाण वर्य प्रमाण वर्ष प्रमाण वर्ष प्रमाण वर्ष प्रमाण वर्ष प्रमाण वर्ष प्रमाण 122 वा लागती तर पाकिस्तानमा मैवर 116 वा व वांग्लादेशामा क्रमांक 112 वा भागती:

भिंग संज्ञामानेम्बा मातळाणी बहैआळामी साठा सांह भारंप व्हिन मुनावर ०.९९ त्रित्म महिम्ह्यामह्य रुवार्य । विक्षा , आण्ट्रिक व रामग्रीपत आहें तैरुव , विक्षा निक्ष । वह व महावर ०.९

्यांची शिक्षा प्राप्ति आहि अग्रिक स्थिती वर प्रभाव पार्ड ने महिला प्राप्ति का कात

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### लेंगिक विधमतेमागील कारणे :

काक्षरमा आहे २००७ पे २०१० पर्यात साह्यरमा साट कर्णा है महिमानी स्थान साह्यमा स्थान रक्केवारी पुरुषंस्था रक्केवारीत केवळ अधी होती. शब्दीय कुटुंब स्वास्थ इच्छा अनुसार पंजाबमध्ये मुला व मुर्जीच्या शाळांमध्ये रक्केवारी वादत आहे. १ड आणि ए वर्षावर्धत हे प्रमाण २०% होईल.

आरोध्य आणि आर्रनेत्व असमानता

हाप आह. ठ्या स्रेलिशा ग्रामेक तैरूकान्या पैभमप ठ्याग्रान सेमाण साहाम. एमूंग तिहस्रण करूप अस्तिमा मुख्याप ठ्याग्रामा निष्माणा वार्गानी क्रका समी रूथांना क्ष्मा स्रिविद्या मुख्याप ठ्याग्रामा निष्माणा वार्गानी क्रका समी रूथांना क्ष्मा स्रिविद्या मुख्याप ठ्याग्रामा वार्गानी क्रियाप. आहे.

रामित्राप्तिक असमाम्पा :-

माञ्चल नाते त्री पूरा काही वर्षात भारताच्या श्वनीतिक भहिलांना महत्त्वारी श्यान प्राप्त केले हमें रेजीयां की आता शजनीतिमहरों महत्त्विए स्थान प्राप्त Amoan, Deepskbhei Kesarkar Science College

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लेगिक विधमतेमागील मुख्य चटक :
आर्थिक असमानता-अम भागीदारी आनि मनदूबी :2013 मध्ये महिलाँच्या अमशक्तीची भागीदारी 80% हीती मानव संस्माधन
प्रवंधन स्मिती नेत्री लाँकवुड च्या नुसार 140 देशांमध्ये महिला अमिकाँची
संख्या प्रक्रप अमिकांपेक्षा कमी होती भारतीय श्रमाख्या ९० तक्कांपेक्षा आहिक वित्तात कार्यरत आहेत. यहा पुरुष कार्य क्यां प्रशास रूपात कार्यरत आहेत. कृषि पुरुष आठि महिलाचा वेतनता असमानता आहे. वर्ष २००व च्या नु ले यापाय ममदेशन सम्बन्धार तैरूबान्जा त्रिपिष्ट । एउ रू माहबामा दर रू दिण

शैन्थ - श्रेवा :- महिनंना श्रेन्थ दलात कार्य करव्याची अनुमती दिन्नी नात नाही. त्यंना भेन्यात आतापर्यंत स्थायी कमिशन दिन्न नाही. कार्य वांना कुटल्याही प्रकार्य प्रथिता आठी कीणताही अधिकार दिन्ना नाही. मक अध्ययनानुसार ज्या हिकाणी महिला अधिकार्यांना श्राश्चीवत शाशिरिक अंपकिंची अधिक संभावना असते. त्या हिकाणी त्यांना मडाकू शस्त्रोंपासून बाहेर देवने नातं.

विभागिष्टिमार भारपापी भाषा भाषा किम्नामी अध्या सहस्र सहस्र से स्वाप्त शाबा रहिला शिक्षकांची कमी:

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जामान विवाहामध्ये रिश्र्यांकड्न हुंडा किंता येथे धेनले जामान नवकाल्या वारी

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### आरोध्यासाठी सरकारी उपाय थानना

ही के प्रश्रम् कार्यों यीजना सर्व राज्यात रावविळ्यात आली आहे. ग्रामक्ष तेर्रीयाते व तेर्रीयाच्यरं महिष्ण्या शृज्यः मत्य दुव्वापं वृपः ग्रामहत्र ज्याष्ट्रियाणी श्रीवृद्धाः अतर्णेव्हा करक्वाकाशि हा व्यायना अवविक्वाप सांधाः भ्याष्ट्रियाणी श्रीवृद्धाः अतर्णेव्हा करक्वाकाशि हा व्यायना अवविक्वाप सांधाः यार्वे टारियें रे मुखा भीषा शक्षिया महिलाया होन. सत्रां तत्र्यं समावृद्य हाती विशेषतः ग्रामील भागात आदिवासी पाड्यात न्या हिकाली वाह्युकीरी महिलांना वेद्यकीय श्रुविधा मिळत नाहीत.

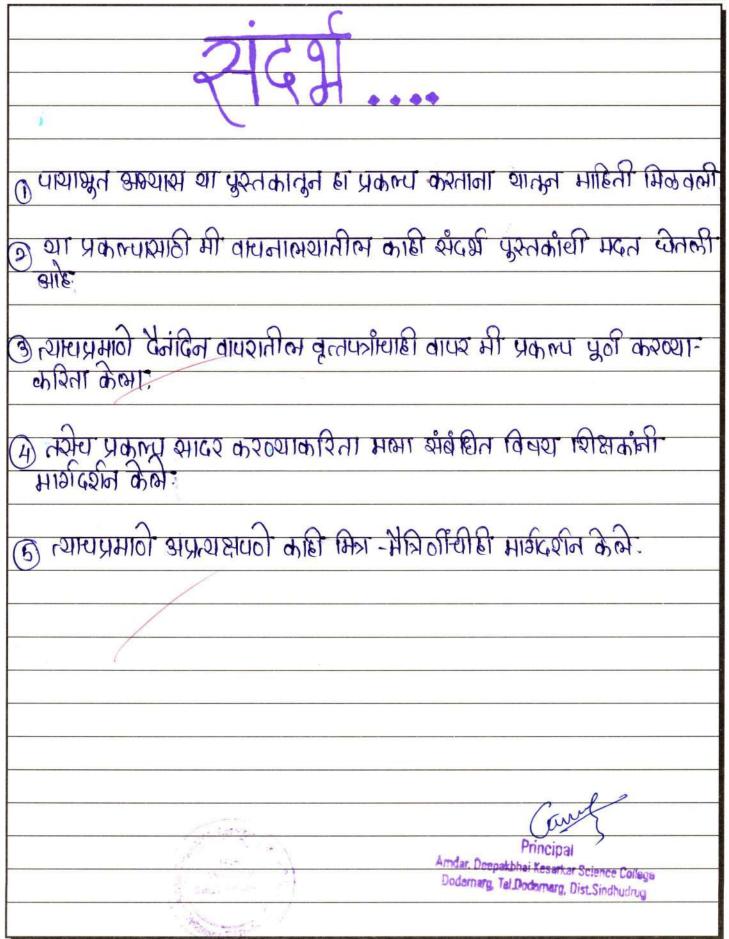
अत्रकारम् ह मिश्राम्य २००८ मह्य रिश्वा भागापाप वाह्मप्रकाला भागापाप माह्या आभागाप माह्या आभागाप माह्या आभागाप वाह्मप्रकाला भागापाप माह्या आभागाप वाह्मप्रकाला अर्घाण्य भागाप अर्घाण्य भागापाप भागापाप वाह्मप्रकाला अर्घाण्य अर्घण्य अर्घाण्य अर्घाण्य अर्घाण्य अर्घाण्य अर्घण्य अर्घण्य अर्घण्य अर्घण्य अर्घण्य अर्घण्य अर्घण्य अरघण्य अर वामकार्ण तम्मातिक विकास मार्ग ह करप साहप. वामपाय साहणूचा व नामपाय साहणूच व नामपाय साहणूच व नामपाय साहणूच व न

भीक्रामह्ये माठ्यका क्रिक्टा व साहार क्रमीटी गाव तापथावर.

था कमीटीला ६०,००० कपरी दिले जातात.



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### ऋणर्निदेशक

तें भिक्क विषमता व आशेश्य हा प्रकल्प मला श्री भीरे सरांनी निवड्न दिला. त्यांनी आम्हांला या प्रकल्पाविषयी काही माहिती दिली. त्याशंबधित काही दिल्य दिल्यात स्माठी त्यानुशार मी हा प्रकल्प पूर्ण केला.

अशाप्रकार मका मद्रत कर्णात्या धर्वांचे मी आभार मानते. राम्प्रमाणे था विषयावरीका प्रकल्पाकारता मोरे सर्वंचे मार्गदर्शन खूप महत्त्वाचे होते. त्यामुळे मी त्यांचेही आभार मानते



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