

## DVV Clarification and Supporting Documents

### **1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**

As per the DVV of 1.3.2 the Institution is providing appropriate document related 1) List of students undertaking the field projects / internship program-wise in the last completed academic year along with the details of title, place of work etc. 2) Internship completion certificate / project work completion certificate from the organization where internship / project was completed along with the duration 3) Report of the field work/ sample photographs of the field work / permission letter only for field work from the competent authority

<b>Sr. No.</b>	<b>Particular</b>	<b>Page No</b>
1.	List of students undertaking the field projects / internship program-wise in the last completed academic year along with the details of title, place of work etc.	01-10
2.	Internship completion certificate / project work completion certificate from the organization where internship / project was completed along with the duration	11-240
3.	Report of the field work/ sample photographs of the field work / permission letter only for field work from the competent authority	241-411



**List of students undertaking the field projects / internship program-wise in the last completed academic year along with the detail of title , place of work etc.**







!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!  
Shriram Shikshan Sanstha's

## Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal. Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

### Students list of Internship /Projects /Field Work

A.Y.2022-2023

Sr. No.	Name of student	Programme	Title	Place	Duration
1	Bandgar Ashwini Ramchandra	Master of Science	Phytochemical Analysis of Black Tea	Divija Speciality polymer ,Khudus	45 Days
2	Bankar Kajal Kashinath	Master of Science	Assay of Ibuprofen Tablet by using HPLC	Assura Pharma Training Institute, Sangali	45 Days
3	Baraskar Preeti Laxman	Master of Science	Determination of cholesterol in food product by GC	Ross Effeseance Pune	45 Days
4	Bile Sayali Changdev	Master of Science	Assay of Paracetamol (API) by using HPLC	Vamsi Lab Ltd. Solapur	45 Days
5	Budhanawar Sarika Eknath	Master of Science	Preparation of Shrikhand by using Mango pulp (Amrakhand)	Lupin Ltd.Tarapur	45 Days
6	Chopade Pranjali Saudagar	Master of Science	Studies of sensory Analysis of low fat Muskmelon Lossi	Shivamrut ,Akluj	45 Days
7	Chopade Vedika Vishnu	Master of Science	Evaluation and Preparation of Herbal Soap by using Natural ingredients	Vamsi Lab Ltd. Solapur	45 Days
8	Deshmukh Shweta Raosaheb	Master of Science	Assay of ibuprofen and Paracetamol Tablet by using HPLC	Aaqua Laboratories ,Goa	45 Days
9	Dhope Pranali Sanjay	Master of Science	Analysis of Chocolate	Shri Shankar Sahkari Sakhar Kaharkhana ltd.,Sadashivnagar	45 Days
10	Dombale Mayuri Hanumant	Master of Science	Preparation of Shrikhand By using Dragon Fruit pulp	Emcure Pharmaceutical, Kurkumbh	45 Days
11	Ekatpure Amruta Dipak	Master of Science	Comparative Study of commercial Antacid	Shivamrut, Akluj	45 Days
12	Ekatpure Rushalee Dipak	Master of Science	Green Chemistry	Shivamrut ,Akluj	45 Days
13	Gaikwad Kajal Dattatray	Master of Science	Synthesis of Soyabin Milk and comparison with Natural Milk	Sonai Milk Industry	45 Days
14	Holkar Rutuja Vitthal	Master of Science	A Review of Herbal Plants used in Hair cosmetics	Lakshmi cosmetics and Herbal Mahud bk	45 Days
15	Inamdar Madhushri Yuvraj	Master of Science	Preparation of Cocoa Powder using by Chocolate	Emcure Pharmaceutical, Kurkumbh	45 Days
16	Jadhav Mayuri Sharad	Master of Science	Determination of pesticides	Ross lifescience ,Pune	45 Days
17	Jadhav Sonali Ganpat	Master of Science	Adulteration of milk	The saswad mali sugar factory ltd Malinagar	45 Days
18	Kachare Snehal Vijay	Master of Science	Study of Adulteration Food	Varsa plast pvt.ltd. ,Baramati	45 Days
19	Kapane Kaveri Sunil	Master of Science	Rate of Evaporation & Rate of loss in weight of different liquid	Divija specialty polymers ,Khudus	45 Days
20	Khandagale Anita Uddhav	Master of Science	Assay of caffeine ( API) By using HPLC	Aquara laboratories ,Goa	45 Days
21	Khare Rutuja Laxman	Master of Science	Analysis of Moisture, PH, Protein, Fat & Acidity for Pickles & Pickled products	Gits Food product ltd Hadapsar,Pune	45 Days





22	Kokare Pooja Kisan	Master of Science	Extraction of Reetha	Vamsi lab, Solapur	45 Days
23	Kokare Shital Mahadev	Master of Science	Bioplastic made from corn	Shri Shankar sahakari sakhar karkhana ltd. Sadashivnager	45 Days
24	Kolte Anjali Dhananjay	Master of Science	Quantitative analysis of vit.c tablet	The Saswad mali sugar factory ltd.Malinagar	45 Days
25	Kshirsagar Snehal Mahadev	Master of Science	Analysis of biscuits	Shivamrut,Akluj	45 Days
26	Madane Shrutika Dhondiram	Master of Science	Analysis of Glipizyde USV 5mg tablet.	Shivamrut,Akluj	45 Days
27	Mali Sonal Madhukar	Master of Science	Comparative evaluation of various marketed brand of ciprofloxianted	Vamsi lab ltd ,Solapur	45 Days
28	Mane Archana Shrimant	Master of Science	Analysis of Soil	Shri Shankar sakhar karkhana ltd., Sadashivnagar	45 Days
29	Mane Pallavi Bapusahab	Master of Science	Assay of Paracetamol tablet by using HPLC	Aaqura laboratories ponda , Goa	45 Days
30	Mane Vanita Pandurang	Master of Science	Composition of food dyes	m/s the Malegaon shahakari sakhar karkhana ltd. Shivnagar Malegaon	45 Days
31	Misal Shubhangi Balkrushna	Master of Science	Development of enriches fibers of milk shake & its quality evaluation	Shivamrut,Akluj	45 Days
32	More Swapnali Muktichand	Master of Science	Praparation of Soap (Saponification )	Study of moulding process in varsa plast pvt. ltd.Baramati	45 Days
33	Palkhe Jagruti Pradip	Master of Science	Water sample testing	Emcure pharmaceuticals ltd. .Kurkumbh	45 Days
34	Patil Harshada Annasaheb	Master of Science	Comparative study of different brands of cold drink available in market	Study of moulding process in varsa plast pvt ltd.Baramati	45 Days
35	Patil Namrata Dadasaheb	Master of Science	Comparative study of different cold drink	Vamsi lab, Solpaur	45 Days
36	Pise Sujata Sanjay	Master of Science	Dissolution of Metformin HCL tablet by using UV Spectro photometer	Shri Shankar sahakari sakhar karkhana ltd Sadashivnagar	45 Days
37	Raut Yogini Dattatray	Master of Science	Pharmaceutical evaluation of different shampoo brand in local market	The Saswad mali sagur factory, Malinagar	45 Days
38	Rupnavar Prajakta Appa	Master of Science	Analysis of Glipizide Franco Indian remedies 5 mg Tablet	Shri Shankar sahakari sakhar karkhana ltd. Sadashivnagar	45 Days
39	Sathe Bharati Babu	Master of Science	Analysis of low fats of musk melon lassi	Shivamrut,Akluj	45 Days
40	Sid Supriya Babu	Master of Science	Extraction and formulation of perfume from lemon grass	The Malegaon Sahakari sakhar kharkhana ltd , Shivghar, Malegaon BK	45 Days
41	Sule Akanksha Ashok	Master of Science	Prapation , evaluation & comparison of harbal toothpest with marketed herbal toothpaste	Shri Shankar sahakari sakhar karkhana ltd. Sadashivnagar	45 Days
42	Waghmode Harshada Tukaram	Master of Science	Analysis of honey	Shri Shankar sahakari sakhar karkhana ltd.Sadashivnagar	45 Days
43	Waghmode Maya Dhuldeo	Master of Science	Preparation of shrikhand by using kiwi fruits pulp	Emcure pharmaceuticals ltd.kurkumbh	45 Days
44	Waghmode Monika Sarjerao	Master of Science	Adsorption of tea waste ontoanbezoin dye	Science of society techno private limited	45 Days





45	Waghmode Sujata Sadashiv	Master of Science	Improve texture of yogurt by using exo-polysaccharides , lactic acid	Emcure pharma, Kurkhumbh	45 Days
46	Aadlinge Sonali Shankar	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
47	Babar Pranali Vaman	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
48	Gawade Pratiksha Hanumant	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
49	Jadhav Ashwini Dagadu	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
50	Joshi Bhakti Dattatray	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
51	Kadam Aarti Yuvraj	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
52	Kharat Kajal Suresh	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
53	Khatake Jyoti Shahaji	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
54	Khatake Komal Dhananjay	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
55	Khatake Komal Dhananjay	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
56	More Akanksha Rajendra	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
57	More Akanksha Santosh	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
58	Naiknaware Rohini Bharat	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
59	Nalawade Vidya Dattatray	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
60	Nimbalkar Dnyaneshwari Mahadev	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
61	Pathan Sanam Samir	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
62	Patil Prajakta Dadasaheb	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
63	Pawar Saloni Manohar	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
64	Patil Prajakta Dadasaheb	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
65	Phule Gayatri Dnyandeo	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
66	Raut Vaishnavi Nitin	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
67	Sarak Priti Vishnu	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
68	Sathe Kajal Vitthal	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
69	Solankar Dhanashri Manik	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
70	Thaware Aishwarya Hanumant	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
71	Thaware Ankita Eknath	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
72	Tiwari Punam audumbar	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day





73	Waghmode Anuja Tanaji	Master of Science	Insta vision visit for Pharmaceutical instruments	Insta Vision ,Satara	1 Day
74	Bankar Arti Dilip	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
75	Bankar Priti Tanaji	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
76	Chavan Darshana Hanumant	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
77	Chavan Sarika Sanjay	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
78	Deshmukh Varuthini Pravin	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
79	Gaikwad Sakshi Mahendra	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
80	Gore Gauri Vilas	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
81	Gore Priyanka Maruti	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
82	Kachare Akanksha Narayan	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
83	Kalsule Prachi Shivaji	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
84	Kapane Kishori Sunil	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
85	Karade Aishwarya Sanjaykumar	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
86	Kopnar Madhuri Bramhadev	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
87	Kudale Pranali Ananda	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
88	Kurule Chaitali Ramkrushna	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
89	Lawate Maheshwari Balaso	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
90	Limbone Sandhya Rajkumar	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
91	Madane Priyanka Raju	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
92	Maliraut Gauri Jayawant	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
93	Mane Madhuri Bharat	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
94	Mane Priyanka Vijay	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
95	Mane Sonali Dhanaji	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
96	Namdas Rohini Natha	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
97	Nanaware Gauri Appaso	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
98	Nichal Vaishali Suresh	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
99	Palange Vaibhavi Jitendra	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
100	Patil Karuna Kalyan	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
101	Patil Saloni Nilkanth	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day
102	Pise Sanjivani Yashwant	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry,Indapur	1 Day





103	Sapkal Nikita Laxman	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
104	Sargar Pooja Anna	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
105	Sargar Sonali Ramchandra	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
106	Sawant Pruthvi Popat	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
107	Shinde Akanksha Manik	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
108	Sapkal Nikita Laxman	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
109	Shinde Yogita Mahadeo	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
110	Shinde Anjali Tanaji	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
111	Thombare Shivani Bhanudas	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
112	Tungale Prachi Kallappa	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
113	Tupsoundarya Pratiksha Abhiman	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
114	Vhargar Vrushali Dattatray	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
115	Waghmode Manisha Babaso	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
116	Waghmode Prajakta Buvasaheb	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
117	Waghmode Sandhya Navnath	Batchelor of Science	Processing of Milk Products	Sonai Milk Industry, Indapur	1 Day
118	Babar Anushri Dilip	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
119	Bankar Varsha Machhindra	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
120	Bhosale Rutiksha Somnath	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
121	Bobade Tejashree Vitthal	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
122	Bodake Kiran Prakash	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
123	Borade Divya Hiridas	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
124	Borate Sanika Dhananjay	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
125	Chavan Varsha Agninath	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
126	Deshmukh Sakshi Navnath	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
127	Dhasade Akshata Chandrakant	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
134	Gore Pallavi Ghansham	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
128	Hulage Nikita Namdev	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
129	Hulage Sonali Namdev	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
130	Khatke Pratibha Abhijit	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
131	Irkar Shilpa Dilip	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day





132	Jadhav Gaytri Kumar	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
133	Kaldhone Sanika Dashrath	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
134	Keche Rutuja Shivaji	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
135	Madane Rutuja Dinkar	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
136	Magar Karishma Kakasaheb	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
137	Mane Bai Vasant	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
138	Madane Bharti Laxman	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
139	Magar Karishma Kakasaheb	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
140	Mane Bai Vasant	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
141	Mhasawade Manisha Maganlal	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
142	More Supriya Dnyanadev	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
143	Mundphane Neha Vijay	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
144	Mutkule Pooja Ramchandra	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
145	Parade Priyanka Sunil	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
146	Patale Dnyaneshwari Ravsaheb	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
147	More Supriya Dnyanadev	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
148	Patil Rutuja Sanjay	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
149	Pise Aishwarya Nagesh	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
150	Rajmane Dipti Rajkumar	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
151	Raut Pratiksha Vilas	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
152	Salgar Anusaya Vitthal	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
153	Sargar Rutuja Tanaji	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
154	Shende Swapnali Santosh	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
155	Sid Manasi Bharat	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
156	Sul Pratiksha Dhanaji	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
157	Waghmode Diksha Ramdas	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
158	Waghmode Komal Uddhav	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
159	Waghmode Priyanka Jagannath	Batchelor of Science	Agricultural development	Krishi Vigyan Kendra, Baramati	1 Day
160	Avaghade Punam Sanjay	Batchelor of Science	Artificial Biodiversity and Forest research, Sericulture, Apiculture	Mahableshwar, Gureghar, Mapro Garden	1 Day
161	Bandgar Aprna Appa	Batchelor of Science	Artificial Biodiversity and Forest research, Sericulture, Apiculture	Mahableshwar, Gureghar, Mapro Garden	1 Day





162	Bhange Bhakti Vijay	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
163	Bolbhat Pooja Babu	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
164	Borate Rutuja Satish	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
165	Chandanshive Pratiksha Mahadev	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
166	Deshmukh Sonali Raju	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
167	Dhobale Gouri Dnyaneshwar	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
168	Galande Reshma Pandurang	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
169	Game Prajakta Mahadev	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
170	Ganpatil Vrushali Anil	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
171	Gore Akshada Arun	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
172	Hanpude Balika Dhanaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
173	Hulage Komal Tatyaso	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
174	Jadhav Ashwini Laxman	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
175	Jadhav Dhanashri Santosh	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
176	Jamadade Megha Mohan	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
177	Kachare Revati Shamrao	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
178	Kadam Vaishnavi Sanjay	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
179	Kapane Vaibhavi Shivaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
180	Kodag Sakshi Mahadev	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
181	Lavand Sonali Maruti	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
182	Lavate Ankita Kashinath	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
183	Lengare Komal Tatyaso	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
184	Madane Ankita Sarjerao	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
185	Magar Vaishnavi Balaso	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
186	Mane Amruta Mahadev	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
187	Mane Amruta Uttam	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
188	Mane Snehal Dhanaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
189	Mane Tejashri Tanaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
190	Manjule Rutuja Vilas	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day





191	Markad Sakshi Jaywant	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
192	Masal Kavita Tanaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
193	Maske Komal Kailas	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
194	Mhasawade Diksha Santosh	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
195	Mote Manisha Maruti	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
196	Panaskar Shivani Subhash	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
197	Patil Kalyani Appa	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
198	Patil Trupti Shivanand	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
199	Pawar Prachi Dadasaheb	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
200	Pawar Sakshi Balasaheb	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
201	Pawar Shubhangi Popat	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
202	Phule Rutuja Sunil	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
203	Pise Gauri Jalindar	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
204	Pise Priya Sunil	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
205	Pise Sanika Subhash	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
206	Pise Shivani Balu	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
207	Shendage Pratiksha Hariba	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
208	Shendage Shital Dada	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
209	Shende Komal Rajendra	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
210	Shinde Supriya Sharad	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
211	Shinde Swapnali Sadashiv	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
212	Sid Mayuri Balasaheb	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
213	Sontakke Tejaswini Navanath	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
213	Surwase Sakshi Santosh	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
214	Tarange Nikita Shahaji	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
215	Thombare Nikita Shankar	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
216	Vyavahare Shivani Chandrakant	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
217	Wagh Varsharani Sanjay	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day
218	Waghmare Vaishnavi Dadaso	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshwar,Gureghar, Mapro Garden	1 Day





219	Waghmode Komal Subhash	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
220	Waghmode Manisha Dada	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
221	Waghmode Rohini Rajkumar	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
222	Waghmode Sangita Popat	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
223	Waghmode Tanuja Chandrakant	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
224	Walkunde Komal Changdev	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
225	Zanje Rutuja Rajaram	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
226	Mane Tejswini Eknath	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
227	Bodhe Gayatri Sachin	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
228	Kale Ujwala Sanjay	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day
229	Waghmode komal Ramdas	Batchelor of Science	Artificial Biodiversity and Forest research ,Sericulture,Apiculture	Mahableshtar,Gureghar, Mapro Garden	1 Day



  
 Principal  
 Shri Ram Manik Vaidyan Mahavidyalaya  
 Paniv. Tal. Malshiras, Dist. Solapur

**Internship completion certificate / project work completion certificate from the organization where internship / project was completed along with the duration**







" न हि ज्ञानेन सदृशं पठितमिह विद्यते "

**Shriram Shikshan Sanstha**  
**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**  
Tal-Malshiras Dist-Solapur- 413113  
(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Research report entitled,

**DETERMINATION OF PESTICIDE RESIDUES IN FRUITS, VEGETABLES AND OTHER FOOD PRODUCTS BY USING GC-MS-MS.**


Is submitted by,

**MS.JADHAV MAYURI SHARAD**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name **Professor Mr.BABAR.A.M**

  
**Guide name & Sign.**  
(Professor Mr.BABAR.A.M)

  
**Co-Ordinator**  
M.Sc.

  
**Examiner**  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 19-04-2023



॥ न हि ज्ञानेन सहस्रं । पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

**ASSAY OF PARACETAMOL TABLET BY USING HPLC**

Is submitted by,

**MS.MANE PALLAVI BAPUSAHEB**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name **Professor Mr.BABAR.A.M**

**Guide name & Sign.**

**(Professor Mr.BABAR.A.M)**

**Examiner**

**Co-Ordinator**

**M.Sc.**

**M.Sc. Coordinator**



**Principal**

**Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur**

**Date:- 19-04-2023**

!! न हि ज्ञानेन सद्गुणं । पवित्रमिह विद्यते !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

**PREPARATION, EVALUATION AND COMPARISON OF HERBAL  
TOOTHPASTE WITH MARKETED HERBAL TOOTHPASTE**

Is submitted by,

**AKANKSHA ASHOK SULE**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

Guide name & Sign.

MR.Babar A.M.

Coordinator

M.Sc. Coordinator



Examiner

Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19-04-2023



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This to certify that the research report entitled,

*Pharmaceutical evaluation of different shampoo brand in local  
Saudi market*

Is submitted by,

*Miss. Raut Yogini Dattatray*

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide prof. Mr. Babar A. M. Sir

Guide Name

(Prof. Mr. Babar A. M. )

Co-Ordinator  
M.Sc Co-ordinator  
M.Sc.

Examiner

Principal

Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, PANIV

DATE :- 19-04-2023



!! न हि संशयः श्रुतः ! श्रद्धया श्रेयः !!

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Research report entitled,

**Physico-chemical evaluation of Shrikhand by using**

**Kiwi fruit pulp**

Is submitted by,

**Ms . Maya Dhuldeo Waghmode**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Markad Sir

Guide name & Sign.

Mr. Markad Sir

Examiner

Co-ordinator  
M.Sc. Coordinator  
M.Sc.

Mr. A. M. Babar.

Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Principal

Mr. V. V. Babar.



Date:- 19-04-2023





!! न हि ज्ञानेन सदृशं । पवित्रमिह विद्यते !!

**Shriram Shikshan Sanstha**  
**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**  
Tal- Malshiras Dist.- Solapur- 413113  
(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the training report entitled,

**A Project Report On**

**"AN IN PLANT TRAINING REPORT ON  
VAMSI LABS LTD.  
SOLAPUR"**

Is submitted by,

**Ms. MALI SONAL MADHUKAR**

For partial fulfilment of Master of Science in Analytical Chemistry as per requirement of S.N.D.T. Women's University, Mumbai for the academic year 2022-23 under the guidance of Mr. Rankhambe R.M.

**Mr. R.M. RANKHAMBE**

**Guide Name**

**Co-Ordinator**  
**M.Sc. Coordinator**

**(Mr. Babar A.M)**

**SMVM, Paniv**



**Examiner**

**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras Dist. Solapur

**(Mr. Babar V.V.)**

**SMVM, Paniv**

**Date: 19-04-2023**

**Shriram Shikshan Sansthas**  
**Shriram Mahilavidnyan mahavidyalay,**  
**Paniv.**  
**Affiliated to SNTD Womens university, Mumbai**

**CERTIFICATE**


This to certify that the Research report entitled  
**PREPARATION OF SHRIKHAND BY USING DRAGON FRUIT PULP**  
*SUBMITTED BY*  
*MISS.DOMBALE MAYURI HANUMANT*  
*Roll No 10*

For partial fulfilment of master of science in Chemistry as per requirement of  
SNTD Womens Univeristy, Mumbai for the academic year 2022-2023 under  
the guidance of guide Name Mr. Rajendra Markad

  
**Mr. Rajendra Markad**  
**(PROJECT GUIDE)**

  
**EXAMINER**

  
**Mr. BABAR A.M**  
**(PG CO ORDINATOR)**

  
**Mr. BABAR V.V**  
**(PRINCIPAL)**  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv. Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदासं ! पवित्रमिह विद्यते !!



**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

**The Study Of Moulding Process In Varsa Plast  
Pvt. Ltd, Baramati**

Is submitted by,

**Ms. More Swapnali Muktichand**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDDT Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Saste Sir,



AMS  
Mr. Saste Sir

(Guide name & Sign)

Mr. Babar A.M.  
**Co-Ordinator**  
(M.Sc. Coordinator)  
**M.Sc.**



Examiner

Mr. Babar V.V.

Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19-04-2023





Shriram Shikshan Sanstha

Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the research report entitled,

**Improvement of the Texture of Yogurt by use of  
Exopolysaccharide producing lactic acid**

Is submitted by,

**Ms . Sujata Sadashiv Waghmode**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Markad Sir

Guide name & Sign.

Mr. Markad Sir

  
Co-Ordinator

M.Sc. Coordinator

Mr. A. M. Babar.

  
Examiner

  
Principal

Mr. A. M. Babar.

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 19-04-2023



!! न हि ज्ञानेन सदृशं पवित्रमिहियते !!

**Shriram Shikshan Sanstha**  
**Shriram Mahila Vidyan Mahavidyalaya, Paniv**  
Tal-Malshiras Dist-Solapur- 413113  
(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**ASSAY OF IBUPROFEN AND PARACETAMOL TABLET BY USING HPLC**

Is submitted by ,

**MS.DESHMUKH SHWETA RAOSAHEB**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 202223 under the guidance of guide name **Professor Mr.BABAR.A.M**

**Guide name & Sign.**  
(Professor Mr.BABAR.A.M)

**Co-Ordinator**  
M.Sc. Coordinator  
**M.Sc.**

**Examiner**  
**Principal**  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

**Svm paniv**



Date: 19/04/2023



॥ न हि जानेन सदृशं । पवित्रमिह विध्यते ॥  
Shriram Shikshan Sanstha

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal-Malshiras Dist-Solapur – 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

**CERTIFICATE**


This is to certify that the Training report entitled in plant Training on

**“LAXMI COSMETICS AND HERBALS”**

Is submitted by MISS. HOLKAR RUTUJA VITTHAL.

for partial fulfillment of Master of science in Analytical chemistry as per  
requirement of SNDT Women University, Mumbai for the academic year  
2022-23 under the guidance of guide name Professor Mr. BABAR A. M

**Guide Name & Sign**  
(Mr. Tate N.N.)

  
**Co-Ordinator**  
M.Sc. Co-ordinator  
**M.Sc.**

  
**Examiner**

  
**Principal**

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

**SMVM, Paniv**



**Date :- 19/04/2023**

---

## CERTIFICATE

This is to certify that the project report entitled,

**Analysis of soil**

submitted by

**Mane Archana Shrimant**

For partial fulfillment of **Master of science in Analytical Chemistry** as per requirement of

**SNDT Women's University, Mumbai** for the academic year **2022-23** under the

**Guidance of Mr. Babar.A.M**

(Project Guide)

**Mr. Babar.A.M**

*Dikr.*  
Examine

*Babar*  
Mr. Babar A. M.  
Co-Ordinator  
PG Coordinator.  
M.Sc.



*Babar*  
Mr. Babar V.V.  
Principal  
(Principal)  
Shriram Mahila Vidyarn Mahavidyalaya  
Paniv. Tal. Malshiras, Dist. Solapur



Shriram Shikshan Sanstha's  
Shriram Mahila Vidyan Mahavidyalaya, Paniv  
Affiliated to SNDT women's university, Mumbai

**CERTIFICATE**

This is to certify that the project report entitled,  
**STUDIES ON SENSORY ANALYSIS OF LOW FAT  
MUSKMELON LASSI**

Is submitted by,

**MISS Bharti Babu Sathe**

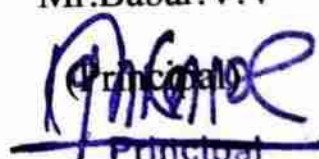
For partial fulfilment of science IN chemistry as per requirement of SNDT women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Markad R. Sir

Markad R. Sir

  
Examiner

  
Mr. Babar A.M  
(PG Coordinator)  
Co-Ordinator  
M.Sc.



Mr. Babar V.V  
  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृकं । पापेभ्यः क्लृप्तं हृदयम् ॥

**Shriram Shikshan Sanstha**

**m Mahila Vidnyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Research report entitled,

**"Development of Fiber Enriched Milkshake And it's Quality Evaluation."**

Is submitted by,

**Miss. Misal Shubhangi Balkrushna**

**Roll no 32**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name of Mr. Rajendra Markad

Guide name & Sign.  
( Mr. Rajendra Markad)

  
**Mr. Rajendra Markad**  
**M.Sc.**

SMVM, Paniv

  
Examiner

  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19/04/2023







!! न हि संन्यस्येत् । पश्चात्तु श्रेयः !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the research report entitled,

**Water sample testing**

Is submitted by,

**Ms . Jagruti Pradip Palkhe**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Markad Sir.

**Guide name & Sign.**

**Mr. Markad Sir**

  
**Coordinator**  
**M.Sc.**

**Mr. A. M. Babar.**

  
**Examiner**

  
**Principal**  
**Shriram Mahila Vidnyan Mahavidyalaya**  
**Paniv, Tal. Malshiras, Dist. Solapur**

**Mr. V. V. Babar.**



**Date:- 19/04/2023**



Department of Chemistry

Academic Year – 2022-23

**Shriram Shikshan Sanstha's**

**Shriram Mahila Vidnyan Mahavidyalay, Paniv**

**Affiliated to SNDT Women's University, Mumbai**

**CERTIFICATE**

This is to certify that the project report entitled,

**“COMPARATIVE STUDY AND QUALITATIVE ANALYSIS OF DIFFERENT BRANDS OF COLD DRINKS AVAILABLE IN MARKET .”**

is submitted by

**Ms. Harshada Annasaheb Patil**

For partial fulfilment of Master of Science in Chemistry as per requirement of SNDT Women's University, Mumbai for the academic year 2022-23 under the guidance of Mr. Babar Sir.

  
Babar A.M.

(Project Guide)

  
Examiner

  
Co-Ordinator  
PC Coordinator



  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





॥ नमो भगवते वासुदेवाय ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur - 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**SYNTHESIS OF SOYABEAN MILK AND  
COMPARISON WITH NATURAL MILK**

Is submitted by,

**Gaikwad Kajal Dattatray**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of **Proff Mr. Babar A.M.**

Guide name & Sign  
(Proff. Mr. Babar A. M)

  
**Co-Ordinator**  
**M.Sc.**  
M.Sc. Coordinator

  
Examiner

  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19-04-2023



!! अहिंसात्मकसमृद्धं ! परिवर्तनमिहिकल्पे !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the research report entitled,

### Adulteration of milk

Is submitted by,

**Miss. Jadhav sonali Ganpat**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide prof. Mr. Babar A.M.

Guide name & Sign.

(Prof. Mr. Babar A.M.)

M.Sc. Coordinator

**Coordinator  
M.Sc.**

Examiner

Principal

**Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur**

SMVM, Paniv

Date:- 19-04-2023







॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

*Shriram Shikshan Sanstha's*

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur- 413113

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

### Analysis Of Chocolate

Is submitted by,

**Ms. PRANALI SANJAY DHOPE**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of **Prof. Mr. Babar A.M**

Guide name & Sign.

Prof. Mr. Babar A.M

Co-Ordinator

Prof. Mr. Babar A.M

Examiner

Principal

Mr. Babar V V  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

Date:- 19-04-2023



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Rate of Evaporation & Rate of loss in weight  
different liquid.**

Is submitted by,

**Miss. Kapane Kaveri Sunil**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

Mr. Patole V.

Guide name & Sign.

  
Examiner

  
Co-Ordinator  
M.Sc.

M.Sc. Coordinator



Principal

Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:-19/4/23







॥ न हि ज्ञानेन सदृशं पवित्रं लीयते ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Research report entitled,

**Studies on Preparation of Shrikhand by using Mango pulp**

**(Amrakhand)**

Is submitted by,

**Miss.Budhanwar Sarika Eknath**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name Mr. Rajendra Markad


  
Guide name & Sign.  
(Mr. Rajendra Markad)

  
Co-Ordinator  
M.Sc. Coordinator  
M.Sc.

SMVM, Paniv



  
Examiner

  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19-04-2023



!! न हि ज्ञानेन सदृश ! पवित्रमिह विद्यते !!

**Shriram Shikshan Sanstha**

**Shriram mahila vidnyan mahavidyalaya, paniv**

Tal- Malshiras Dist-Solapur-413113

(Affiliated to S.N.D.T. women's university, mumbai)

## CERTIFICATE

This is certified that the project report entitled.

**Comparative Study Of Commercial Antacids**

Is submitted by,

**Ms. Ekatpure Amruta Dipak**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of S.N.D.T. women's university, mumbai for the academic year 2022-23 under the guidance of Mr. Babar A.M. sir.

Guide name & sign

Co-ordinator  
M.Sc. coordinator

Examiner

Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv. Tal. Malshiras Dist. Solapur

Principal



Date- 19/04/2023





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha

Shriram Mahila Vidyan Mahavidyalaya, Paniv.  
Tal- Malshiras Dist.- Solapur- 413113  
(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,  
“Preparation & Evaluation of herbal soap by using  
natural ingredients”.

Is submitted by,

**Ms. Chopade Vedika Vishnu.**

For partial fulfilment of Master of Science in Analytical Chemistry as per  
requirement of SNTD Women's University , Mumbai. For the academic year  
2022-2023 under the guidance of **Professor Mr. BABAR.A.M.**

Guide Name & Sign

(Professor Mr .BABAR.A.M.)

Co-Ordinator  
M.Sc. Coordinator  
M.Sc.

Examiner

Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19/04/2023

!! न हि ज्ञानेन सदस्यं पवित्रमिह विद्यते !!



**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Project entitled,

### Study Of Adulterants In Food

Is submitted by,

**Ms. Kachare Snehal Vijay**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr.Babar A.M. Sir,

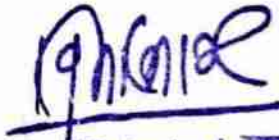
  
Mr. Babar A.M.

Guide name & Sign.

  
Coordinator  
M.Sc.

M.Sc. Coordinator

  
Examiner

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19/04/2023



!!न हि ज्ञानेन संपूर्णं । पवित्रमिह विद्यते!!

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Project report entitled,

### Determination of Cholesterol in Food Products by Gas Chromatography

Is submitted by,

**Ms. Baraskar Preeti Laxman**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Yeware R. D.

*Ram*

Guide name & Sign.

Mr. Yeware R.D.

*Ram*  
Co-Ordinator  
M.Sc.

*V. S. S. S.*  
Examiner

*R. S. S.*

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19-04-2023







Shriram Shikshan Sanstha's  
Shriram Mahila Vidnyan Mahavidyalaya ,Paniv  
Affiliated to SNTD women's university, Mumbai

**CERTIFICATE**

This is certify that the reaserch report entitled ,

**“ Analysis of biscuits ”**

Is submitted by

**Miss :- Kshirsagar Snehal Mahadev**

For partial fulfillment of Master of Science in Chemistry as per  
requirement of SNTD Women's University, Mumbai for the academic  
year 2022-23 under the guidance of Mr. Babar A.M.


  
BABAR A.M.

(Guide)

  
Examiner

  
BABAR A.M.Sc.

(P.G.Cordinator)

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur  
BABAR V.V.

(Principal)



॥ न हि ज्ञानेन मरणं । पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

**BIOPLASTIC MADE FROM CORN**

Is submitted by,

**SHITAL MAHADEV KOKARE**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

  
Guide name & Sign.

**MR. Babar A.M.**

  
Examiner

  
Principal

**Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur**

  
Coordinator  
M.Sc. Coordinator



Date:- 19-04-2023





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**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

### **Phytochemical Analysis of Black tea.**

Is submitted by,

**Miss. Bandgar Ashwini Ramchandra**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

**Mr. Patole V.**

**Guide name & Sign.**

  
M.Sc. Coordinator  
**Co-Ordinator**  
M.Sc.

  
Examiner



Principal

**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19/4/23





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**Shriram Shikshan Sanstha**

**Shriram mahila vidnyan mahavidyalaya, paniv**

**Tal- Malshiras Dist-Solapur-413113**

**(Affiliated to S.N.D.T. women's university, mumbai)**

## CERTIFICATE

This is certified that the project report entitled.

**Green Chemistry**

Is submitted by,

**Ms. Ekatpure Rushali Dipak**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of S.N.D.T. women's university, mumbai for the academic year 2022-23 under the guidance of Mr. Babar A.M. sir.

  
Guide name & sign

  
Co-ordinator  
M.Sc.  
M.Sc. coordinator



  
Examiner

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date- 19/04/2023

**Shriram Shikshan Sanstha's**  
**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**  
Affiliated to SNDT women's university, Mumbai

---


**CERTIFICATE**

This is to certify that the project report entitled,  
**STUDIES ON SENSORY ANALYSIS OF LOW FAT  
MUSKMELON LASSI**

Is submitted by,

**MISS. CHOPADE PRANJALI SAUDAGAR**


For partial fulfilment of science IN chemistry as per requirement of SNDT women's university, Mumbai for the academic year 2022-23 under the guidance of Mr. Babar A. M. Sir

  
Mr. Babar.A.M  
Guide Name

  
Examinee

  
Mr. Babar.A.M  
**Co-Ordinator**  
(PG Coordinator)



  
Mr. Babar.V.V  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

**ASSAY OF PARACETAMOL (API) BY USING HPLC**

Is submitted by,

**MS.BILE SAYALI CHANGDEV**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name **Professor Mr.BABAR.A.M**

  
Guide name & Sign.  
(Professor Mr.BABAR.A.M)

  
Examiner

  
Co-Ordinator  
M.Sc.  
M.Sc. Coordinator

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur,



Date:- 19/4/23



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**ASSAY OF CAFFEINE (API) BY USING HPLC**

Is submitted by,

**MS.KHANDAGALE ANITA UDDHAV**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name **Professor Mr.BABAR.A.M**



Guide name & Sign.  
(Professor Mr.BABAR.A.M)



Examiner

  
**Co-ordinator**  
M.Sc. Co-ordinator  
**M.Sc.**



Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 15/04/2023



!! 00000000000000000000 !!

**Shriram Shikshan Sanstha**  
**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**  
Tal-Malshiras Dist-Solapur- 413113  
(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

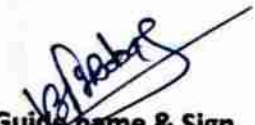
This is to certify that the research report entitled,

**Quantitative analysis of vitamin C tablet**

Is submitted by,

**Miss. Kolte Anjali Dhananjay**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide prof. Mr. Babar A. M.

  
Guide name & Sign.  
(Prof. Mr. Babar A. M.)

  
Co-Ordinator  
M.Sc. Coordinator

  
Examiner

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19-04-2023

Shriram Shikshan Sanstha's  
Shriram Mahila Vidnyan Mahavidyalay, Paniv

Affiliated to SNTD Women's University, Mumbai

CERTIFICATE

This is to certify that the project report entitled,  
"Comparative and qualitative analysis of different brands of  
cold drinks"

is submitted by

Ms. Namrata Dadasaheb Patil

For partial fulfilment of Master of Science in Chemistry as per requirement of SNTD  
Women's University, Mumbai for the academic year 2022-23 under the guidance of <Mr  
Babar A.M>

Guide name & Sign.  
(Professor Mr.BABAR.AM)

  
Co-Ordinator  
M.Sc.

  
Examiner

  
Principal  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv. Tal. Malshiras, Dist. Solapur,

Date : 19-04-2023







!! नहिज्ञानेनसदृशं ! पवित्रमिहविद्यते !!

ShriramShikshanSanstha

ShriramMahilaVidnyanMahavidyalaya, Paniv

Tal-MalshirasDist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name**

**ANALYSIS OF GLIPIZIDE FRANCO  
INDIAN REMEDIES 5MG TABLET**

Is submitted by,

**STUDENT NAME**

**MS.RUPNAVAR PRAJAKTA APPA**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

Guide name & Sign.

  
Coordinator  
M.Sc.

  
Examiner

  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



Date:- 19-04-2023

**Shriram Shikshan Sanstha's**

**Shriram Mahila vidnyan mahavidyalaya, Paniv.**

**Affiliated To**

**S.N.D.T. Women's University, Mumbai**

**CERTIFICATE**

This is to certify that the project report  
entitled,

**EXTRACTION AND FORMULATION OF PERFUME FROM LEMON GRASS**

is submitted by

**MISS. SID SUPRIYA BABU**

For partial fulfillment of Master of Science  
in Chemistry as per requirement of  
SNDT Women's University, Mumbai for the  
**Academic Year 2022-23**

UNDER THE GUIDANCE OF

(Project Guide)  
Mr. Babar A.M.

  
Examiner

  
Co-Ordinator  
M.Sc.  
PG Coordinator



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the Training report entitled,

### **ANALYSIS OF HONEY**

Is submitted by,

**HARSHADA TUKARAM WAGHMODE**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

**Guide name & Sign.**

**MR.Babar A.M.**

**M.Sc. Coordinator**  
**M.Sc.**

**SMVM, Paniv**

**Examiner**

**Principal**  
**Principal**

**Shriram Mahila Vidnyan Mahavidyalaya**  
**Paniv. Tal. Malshiras, Dist. Solapur**

**Date:- 19-04-2023**



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**DISSOLUTION OF METFORMIN HCL TABLET BY USING  
UV SPECTROPHOTOMETER**

Is submitted by,

**MS.PISE SUJATA SANJAY**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name **Professor Mr.BABAR.A.M**

Guide name & Sign.

(Professor Mr.BABAR.A.M)

  
**Coordinator**  
**M.Sc.**



  
Examiner

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- **24-04-2023**



**Shriram Shikshan Sanstha's Shriram  
Mahila Vidnyan Mahavidyalaya,**

**Paniv**

**Affiliate**

**d to**

**SNDT Women's University, Mumbai**

---

**CERTIFICATE**

This is to certify that the project report  
entitled,

**"COMPOSITION OF FOOD DYES"**


is submitted by

**VANITA PANDURANG MANE**

For partial fulfillment of Master of Science in  
Chemistry as per requirement of

SNDT Women's University, Mumbai for the  
**Academic Year 2022-23**

Under the  
Guidance of

  
**Co-Ordinator**  
**(Project Guide).**  
**Mr. Babar A.M.**

  
**Examiner**

**PG Coordinator.**





**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

3

!! नहिजानेनसदृशं ! पवित्रमिहविद्यते !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the research report entitled,

### Adulteration of milk

Is submitted by,

**Miss. Jadhav sonali Ganpat**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide prof. Mr. Babar A.M.

Guide name & Sign.

(Prof. Mr. Babar A.M.)

M.Sc. Coordinator

**Co-Ordinator**  
**M.Sc.**

Examiner

Principal

**Shriram Mahila Vidnyan Mahavidyalaya**  
**Paniv, Tal. Malshiras, Dist. Solapur**

SMVM, Paniv

Date:- 19-04-2023





!! 0 00 0000000 00000 ! 000000000 0000000 !!



**Shriram Shikshan Sanstha**  
**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal-Malshiras Dist-Solapur- 413113

Page | 2

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

### **The Food Process Analysis in Gits Food Products Pvt.Ltd.Hadapsar,Pune**

Is submitted by,

**Ms.Khare Rutuja Laxman**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

**Mr.Shailesh Bhonsale**  
(Guide Name & Sign.)



**Examiner**

**Co-Ordinator**

**Mr. Babar A.M.**  
(M.Sc. Coordinator )

**Principal**

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist.Solapur  
(Principal)



Date:- 19-04-2023  
2



॥ न हि साधनेन सदृशः । पाठि शक्तिरिति शब्दे ॥

**Shriram Shikshan Sanstha**

**1 Mahila Vidnyan Mahavidyalaya, Paniv**

**Tal-Malshiras Dist-Solapur- 413113**

*(Affiliated to S.N.D.T. Women's University, Mumbai)*

## CERTIFICATE

This is to certify that the research report entitled,

**Studies on prepration of cocoa powder using by  
chocolate pedha**

Is submitted by,

**Miss. Inamdar Madhushri Yuvraj**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name


  
Guide name & Sign.

( proff.Mr.Rajendra Markad )

  
**Co-Ordinator**  
M.Sc. Coordinator



  
Examiner

  
Principal  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19-04-2023





!! न हि जानेन सदृशं ! पवित्रमिह विद्यते !!

**Shriram Shikshan Sanstha**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal- Malshiras Dist.- Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the training report entitled,

**A Project Report On**

**"AN IN PLANT TRAINING REPORT ON  
VAMSI LABS LTD.  
SOLAPUR"**

Is submitted by,

**Ms. KOKARE POOJA KISAN**

For partial fulfilment of Master of Science in Analytical Chemistry as per requirement of S.N.D.T. Women's University, Mumbai for the academic year 2022-23 under the guidance of Mr. Rankhambe R.M.

**Mr. R.M. RANKHAMBE**

**Guide Name**

**Co-Ordinator**  
**M.Sc. Coordinator**

**(Mr. Babar A.M)**

**SMVM, Paniv**



**Examinar**

*(Signature)*

**Principal**

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

**(Mr. Babar V.V.)**

**SMVM, Paniv**

**Date: 19-04-2023**

॥ न हि ज्ञानेन शरणां । पवित्रसिद्धिं विन्दते ॥



Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur-413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :-** MOEE Akanksha santosh

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

Guide Name & Sign.

(Professor Mr.Babar.A.M Sir)

Examiner

Co-Ordinator

M.Sc. Co-Ordinator

Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

Date:-

17/4/23





॥ न हि ज्ञानेन सृष्टं । पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name** : One Day Study Report

Is submitted by,

**Student Name** : Babax Pranali Vaman

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

Guide name & Sign.

Co-ordinator  
M.Sc. Co-ordinator

Examiner

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 17/11/23





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Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**


Is submitted by,

**Student Name :-** Gawade Pratiksha Hanumant

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

  
Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Co-Ordinator  
M.S. Coordinator

  
Examiner

  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

Date:- 19-4-2023





॥ वाचं धेनुमुपासीत ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :- Khatake Komal Dhananjay**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr. Babar.A.M Sir)

Guide name & Sign.

(Professor Mr. Babar.A.M Sir)

Examiner

Co-Ordinator  
M.Sc.

Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

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Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name:- One Day Study Report**

Is submitted by,

**Student Name:- Pawar Saloni Manohar**

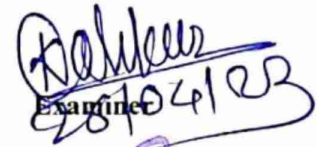
**Roll NO. 28**


For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar. A.M. Sir)

Guide name & Sign.

(Professor Mr.Babar. A.M. Sir)

  
Co-Ordinator  
M.Sc.  
M.Sc. Coordinator

  
Examiner  
28/04/23

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur  
Principal



Date:- 19-04-2023





॥ नमो भगवते वासुदेवाय ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :- Solankar Dhanashri Manik**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

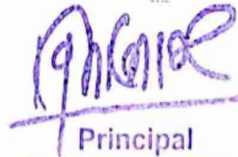
Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

Co-Ordinator  
M.Sc.

M.Sc. Coordinator

  
Mr. Babar A.M Sir

  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

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॥ व हि ज्ञानेन संपन्नं । पवित्रमिह विद्यते ॥

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Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :- Kumbhar Manjushri Tanaji**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

Co-Ordinator

M.Sc. Coordinator

Examiner

Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist.Solapur

SMVM, Paniv



Date:-

17/4/23



!! न हि ज्ञानेन सत्तमं । एतन्निमित्तं विद्यते !!

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Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

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**Project Name : One Day Study Report**

Is submitted by,

Student Name :

Kharat Kajal Suresh

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Co-Ordinator

M.Sc. Coordinator

Examiner

Principal

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Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 17/1/23





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Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

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**Project Name : One Day Study Report**

Is submitted by,

**Student Name :-** Kadam Arti Yuvraj

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

Co-Ordinator  
M.Sc.  
M.Sc. Coordinator

Examiner

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal.Malshiras, Dist.Solapur

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Date:- 17/4/23



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(Affiliated to S.N.D.T. Women's University, Mumbai)

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Is submitted by,

**Student Name :- Aadlinge sonali shankar**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

Examiner

Principal

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Paniv. Tal. Malshiras. Dist. Solapur

Co-ordinator  
M.Sc. Coordinator

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Date:- 19/4/2023





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Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

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**Project Name : One Day Study Report**

Is submitted by,

**Student Name :- Tiwari Punam AudumbaE.**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Co-Ordinator  
M.Sc. Coordinator

  
Examiner  
28/04/23

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur  
Principal



Date:- 17/4/23





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(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

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**Project Name : One Day Study Report**

Is submitted by,

**Student Name : Nalawade Peiti Mubarek**

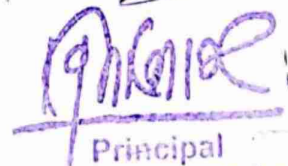
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M.Sc.  
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Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras Dist.Solapur

SMVM, Paniv



Date:- 17/04/23



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Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by \_\_\_\_\_

**Student Name :-** Jadhav Ashwini Dagadu

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

  
Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Co-Ordinator

M.Sc. Coordinator

  
Examiner

  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 17/4/23



॥ न हि ज्ञानेन सहस्रां पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name : Nimbalkar Dnyaneshwari Mahadev**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name

Guide name & Sign.

  
Co-Ordinator  
M.Sc.

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 17/11/2023





!! न हि ज्ञानेन सख्यं । परिग्रहितं विद्यते !!

Shriram Shikshan Sanstha

Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :-** Saeak Peiti vishnu.

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr. Babar.A.M Sir)

Guide name & Sign.

(Professor Mr. Babar.A.M Sir)

  
Co-Ordinator  
M.Sc.  
M.Sc. Coordinator

  
Examiner 28/04/23

  
Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Principal's Dist. Solapur

SMVM, Paniv

Date:- 19-4-2023



॥ वाचं धेनुमुपासीत ॥ पवित्रं विद्महे ॥



Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,


**Student Name :- Raut Vaishnavi Nitin**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNTD Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Co-Ordinator  
M.Sc.  
M.Sc. Coordinator

  
Examiner  
28/04/23

  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 19-4-2023



!! न हि ज्ञानेन संपन्नो । पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

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## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :-** Naiknaware Rohini Bharat

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Co-ordinator  
M.Sc. Coordinator

  
Examiner

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

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## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :** Thawae Ankita Eknoth

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

**Co-Ordinator**  
M.Sc. Co-ordinator

**Examiner**  
26/04/23

**Principal**

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

Date:- 19/04/23





Shriram mahila vidnyan  
mahavidyalaya ,Paniv

*Affiliated to*

---

SNDT women's university Mumbai

## INDUSTRIAL VISIT REPORT

Department of chemistry

(MSc I year academic year 2022-23)

Submitted by

Miss . Thaware Aishwarya Hanumant

ROLL NO- 037

Coordinator

Mr.Babar A.M.

Guide

Miss.Chavan A.S.

Place of visit :- Insta Vision Laboratory, Satara

Date :- 09/02/2023



॥ न हि ज्ञानेन सृष्टं । पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha

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**Student Name : Khatake Jyoti Shahaji**

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Guide name & Sign.

Co-Ordinator  
M.Sc.  
M.Sc./Coordinator

Examiner

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv



Date:- 17/11/23



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Shriram Mahila Vidyan Mahavidyalaya, Paniv

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**Student Name :- phule Gayatri Dnyandeo**

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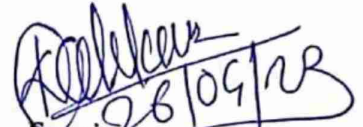
Guide name & Sign.

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Co-Coordinator  
M.Sc. Coordinator

SMVM, Paniv



  
Examiner



Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

Date:- 19/04/2023

॥ श्री गुरुभ्यो नमः ॥

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

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Is submitted by,

Student Name : Pathan Sanam Samir

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Guide name & Sign.

Professor Mr.Babar.A.M Sir)

Co-Ordinator

M.Sc.

M.Sc. Coordinator

  
Examiner  
28/04/23

  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist.Solapur

Date:- 17/4/23

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!! न हि मानेन सदां । पवित्रमिह विद्यते !!

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**Student Name : More Akanksha Rajendra**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

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M.Sc.

M.Sc. Coordinator

Examiner

Principal

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Paniv, Tal. Malshiras, Dist.Solapur

Principal

SMVM, Paniv



Date:-

17/1/23





॥ न हि ज्ञानेन साधते ॥ एतन्मिदं विद्यते ॥

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(Professor Mr.Babar.A.M Sir)

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M.Sc. Coordinator

  
Examiner



Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist.Solapur

Date:- 19/4/2023

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॥ न हि ज्ञानेन साधनं । पवित्रसिद्धिं विन्दते ॥



Shriram Shikshan Sanstha

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**Student Name : Joshi Bhakti Dattatray**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

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M.Sc. Coordinator

Examiner

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**Student Name :- Patil Prajakta Dadasaheb**

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Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

  
Examiner

  
M.Sc. Coordinator  
Co-Ordinator  
M.Sc.

  
Principal

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Paniv, Tal. Malshiras, Dist. Solapur

SMVM, Paniv

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!! न हि ज्ञानेन संवर्षां पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal-Malshiras Dist-Solapur- 413113

(Affiliated to S.N.D.T. Women's University, Mumbai)

# CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name :- sathe kajal vitthal**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

*[Signature]*  
Examiner 28/04/23

*[Signature]*  
Co-Ordinator

M.Sc. Coordinator

*[Signature]*  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist.Solapur

SMVM, Paniv

Date:- 19/4/2023





॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥  
Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai).

## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name: One Day Study Report**

Is submitted by,

**Student Name:** Nimbalkar Dnyaneshwari Mahadev.

For partial fulfillment of Master of Science IN Analytical Chemistry as per requirement of  
SNDDT women's university, Mumbai for the academic year 2022-23 under the guidance of guide  
name

Guide name & sign

[Prof. A.B. Babar]

Examiner

M.Sc. Coordinator  
Co-Ordinator  
M.Sc.

Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



SMVM, Paniv

Date:- 19/04/2023



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

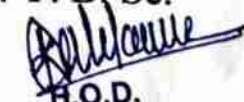
Roll No.	02	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Bankar Aniti dilip

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.P. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Shikshan Sanstha's  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	03	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Bankar Priti Tanaji

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*Bankar Priti*  
31/03/2023  
Tour In-charge

*S.M.V.M. Paniv*  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

*Bankar Priti*  
External Examiner



*S.M.V.M. Paniv*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

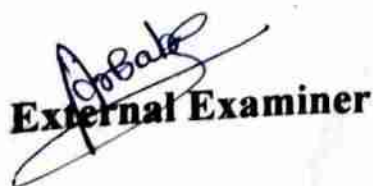
**DEPARTMENT OF CHEMISTRY**

Roll No.	04	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Charan Daxshana Hanumant  
Has satisfactory completed the required study tour report of  
Chemistry Department, prescribed by S. N. D. T. Women's  
University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
**External Examiner**



  
**H.O.B.**  
Dept. of Chemistry  
S.M.V.M. Paniv

  
**Principal**  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

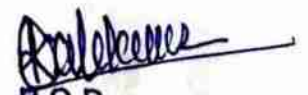
Roll No.	06	Exam Seat No.		Date:	31-3-23
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**CERTIFICATE**

This is to certified that Miss Deshmukh Varuthini Provin

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.N.D.T. Paniv

  
External Examiner



  
Principal  
Shriram Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	09	Exam Seat No.		Date:	01/03/23
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**CERTIFICATE**

This is to certified that Miss Gore priyanka monali

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*P. B. Hogale*  
31/03/23  
**Tour In-charge**

*Balekumar*  
H.O.D.  
Dept. of Chemistry  
S.N.D.T. Paniv

*Anshu*  
**External Examiner**



*P. B. Hogale*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	12	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Kachore Akanksha Narayan

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
Dept. of Chemistry  
S.M.V.M.Paniv



  
External Examiner

  
Principal

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

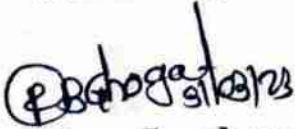
**DEPARTMENT OF CHEMISTRY**

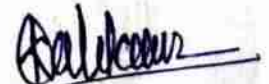
Roll No.	13	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Kalsule Prachi Shivaji

Has satisfactory completed the required study tour report Department,  
prescribed by S. N. D. T. Women's University, Mumbai for  
academic year 2022-23 in T. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M.V. Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Paniv**

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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	14	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Kapne Kishori sanjay

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

P. Chogal  
31/03/23  
**Tour In-charge**

[Signature]  
H.O.D.  
Dept. Chemistry  
S.M.V.M.Paniv



[Signature]  
**External Examiner**

[Signature]  
**Principal**

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

<b>Roll No.</b>	15	<b>Exam Seat No.</b>		<b>Date:</b>	31/03/23
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**CERTIFICATE**

This is to certified that Miss Karade Aishwarya Sanjaykumar  
Has satisfactory completed the required study tour report of  
Chemistry Department, prescribed by S. N. D. T. Women's  
University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*[Signature]*  
31/03/23

**Tour In-charge**

*[Signature]*  
H.O.D.

Dept. of Chemistry  
S. N. D. T. Paniv

*[Signature]*  
**External Examiner**



**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)


**DEPARTMENT OF CHEMISTRY**

Roll No.	17	Exam Seat No.		Date:	31/3/23
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**CERTIFICATE**

This is to certified that Miss Kopnar Madhuri Bramber  
Has satisfactory completed the required study tour report Department,  
prescribed by S. N. D. T. Women's University, Mumbai for  
academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S. N. D. T. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

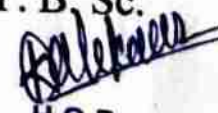
Roll No.	18	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Kedale pranali Ananda

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	19	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Kumale Chaitali Ramchandra  
Has satisfactory completed the required study tour report Department,  
prescribed by S. N. D. T. Women's University, Mumbai for  
academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

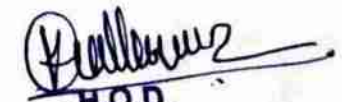
Roll No.	21	Exam Seat No.		Date:	31/03/23
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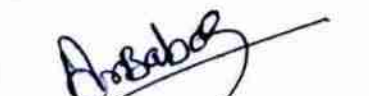
**CERTIFICATE**

This is to certified that Miss Limbone Sandhya Rajca

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

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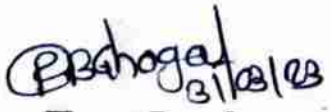
**DEPARTMENT OF CHEMISTRY**

Roll No.	22	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Madne Priyanka Raja

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept of Chemistry  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

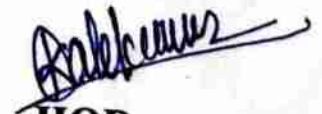
Roll No.	23	Exam Seat No.		Date:	31/08/23
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**CERTIFICATE**

This is to certified that Miss Magor Harshada Navanath


Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
HOD  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	24	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Mali-Raut Gauri Jayward

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S. N. D. T. Women's University  
Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	25	Exam Seat No.		Date:	31/08/23
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**CERTIFICATE**

This is to certified that Miss Mane Madhuri Bharat

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/08/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S. N. D. T. Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	27	Exam Seat No.		Date:	31-3-23
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**CERTIFICATE**

This is to certified that Miss Mane Sonali Dhanjji

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)


**DEPARTMENT OF CHEMISTRY**

Roll No.	28	Exam Seat No.		Date:	31/3/23
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**CERTIFICATE**

This is to certified that Miss Namdas Rohini Natha

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	29	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Nanawore Gauri Appyo

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23

**Tour In-charge**



H.O.D.

Dept. of Chemistry  
S.M.V.M. Paniv



**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	30	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Nichal Vaishali s

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
External Examiner



  
Principal

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

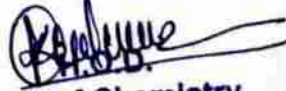
**DEPARTMENT OF CHEMISTRY**

Roll No.	31	Exam Seat No.		Date:	01/09/23
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**CERTIFICATE**

This is to certified that Miss Palange Vaibhavi Jitendra  
Has satisfactory completed the required study tour report of  
Chemistry Department, prescribed by S. N. D. T. Women's  
University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
Dept of Chemistry  
S.N.V.M.Pantv

  
External Examiner



  
Principal

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

<b>Roll No.</b>	32	<b>Exam Seat No.</b>		<b>Date:</b>	31/08/23
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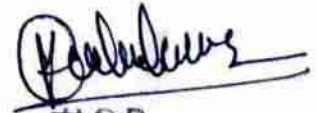
**CERTIFICATE**


This is to certified that Miss Patil Karuna Kalyan

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
**Tour In-charge**



  
**HOD**  
Dept. of Chemistry  
S.M.V.M. Paniv

  
**External Examiner**

  
**Principal**  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	33	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**


This is to certified that Miss Patil Saloni Nilkanth.

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv



  
External Examiner

  
Principal  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	35	Exam Seat No.		Date:	01/03/23
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**CERTIFICATE**

This is to certified that Miss Pise Vidya Dilip  
Has satisfactory completed the required study tour report Chemistry  
Department, prescribed by S. N. D. T. Women's University,  
Mumbai for academic year 2022-23 in T. Y. B. Sc.

P. Bhogal  
01/03/23  
Tour In-charge

P. Bhogal  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

A. Babar  
External Examiner



P. Bhogal  
Principal

Principal  
Shriram Mahila Vidnyan Mahavidyalay  
Paniv Tal. Malshiras, Dist. Solapur ya





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	36	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Randive madhuri shivaji

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23

**Tour In-charge**



H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv



**External Examiner**





Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	37	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Sapkhal Nikita Laxam

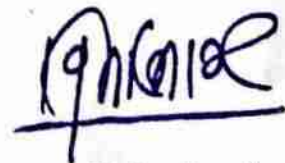
Has satisfactory completed the required study tour report Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
External Examiner





Principal  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	38	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Sangar pooja Anna

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S. N. D. T. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


<b>Roll No.</b>	39	<b>Exam Seat No.</b>		<b>Date:</b>	31/03/23
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**CERTIFICATE**

This is to certified that Miss Sargor Sonali Ramchandra

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
5/13/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

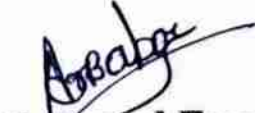
Roll No.	41	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

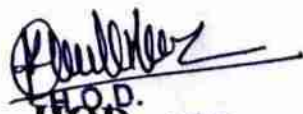
This is to certified that Miss Shinde Akanksha Manik

Has satisfactory completed the required study tour report Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Malshiras, Dist. Solapur



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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**


Roll No.	40	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Sawant pruthvi popat

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	42	Exam Seat No.		Date:	31/3/23
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**CERTIFICATE**

This is to certified that Miss Shinde Anjali Tanaji

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/3/23

**Tour In-charge**



H.O.D.

Dept. of Chemistry  
S.M.V.M. Paniv

**HOD**



Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur

  
**External Examiner**





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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

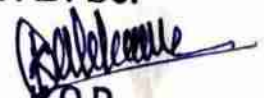
Roll No.	44	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Shinde Yogita Mahadeo

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur







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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

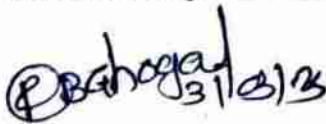
**DEPARTMENT OF CHEMISTRY**

Roll No.	46	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Tungole prachi kallapa

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23

**Tour In-charge**



H.O.D.

Dept of Chemistry  
S.M.V.M. Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

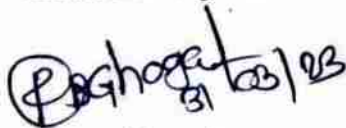
**DEPARTMENT OF CHEMISTRY**


Roll No.	47	Exam Seat No.		Date:	31/03/23
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**CERTIFICATE**

This is to certified that Miss Tupsaundarya pratiksha Abhimani

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S. N. D. T. Paniv

  
**External Examiner**



  
**Principal**  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

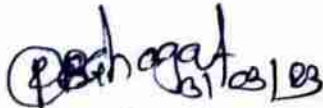
(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	48	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Vhargar vaishali Dattatray  
Has satisfactory completed the required study tour report Department,  
prescribed by S. N. D. T. Women's University, Mumbai for  
academic year 2022-23 in T. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	49	Exam Seat No.		Date:	31/03/23
----------	----	---------------	--	-------	----------

**CERTIFICATE**

This is to certified that Miss. Waghmode Manisha Babaro

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

  
31/03/23

**Tour In-charge**



H.O.D.

Dept. of Chemistry  
S.M.V.M.Paniv



**External Examiner**





Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	50	Exam Seat No.		Date:	31-3-23
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**CERTIFICATE**

This is to certified that Miss Waghmode prajakta Bhausaheb

Has satisfactory completed the required study tour report Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.


  
31/03/23

**Tour In-charge**



H.O.D.

Dept. of Chemistry  
S.M.V.M.Paniv

  
**External Examiner**





Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृशं पवित्रमीह विद्याते ॥

**SHRIRAM SHIKSHAN SANSTHA'S**

**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAY , PANIV**

## **CERTIFICATE**

**Department of Chemistry**

This is to certified that Miss. Chavan Sarika Sanjay B.SC III has successfully completed one day Industrial visit in 04<sup>th</sup> Oct 2022 at SONAI MILK INDUSTRY PVT LTD, INDAPUR . To wards the partial fulfillment for the degree of Bachelor Science in Chemistry of SHRIRAM MAHILA VIDNYAN MAHAVIDYALAY , PANIV During the Annual year 2022-23 .

This report the bonfire work of the student .



*PB Ghogol*  
01/04/2023  
Visit Co-ordinator

*[Signature]*  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

*[Signature]*  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





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**Shriram Shikshan Sanstha's  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	08	Exam Seat No.		Date:	31/03/2023
----------	----	---------------	--	-------	------------

**CERTIFICATE**

This is to certified that Miss Gore Gauri vilas

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*Shiragol*  
31/03/2023  
Tour In-charge

*R. K. Kulkarni*  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

*[Signature]*  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's  
**Shriram Mahila Vidnyan Mahavidyalaya,**  
**Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	20	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Lawate Maheshwari Balaso.

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*ABGhsy at*  
31/03/2023  
Tour In-charge

*Kalidasa*  
H.O.D.  
Dept. of Chemistry  
S.M.V.M.Paniv

*V.B. Babji*  
External Examiner



*P. K. Patil*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृशं । पवित्रमीह विद्याते ॥

SHRIRAM SHIKSHAN SANSTHA'S

SHRIRAM MAHILA VIDNYAN MAHAVIDYALAY, PANIV

## CERTIFICATE

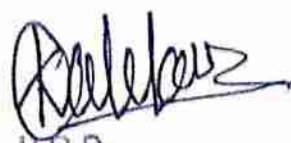
Department of Chemistry

This is to certified that Miss. Gaikwad Sakshi Mahendra B.SC III has successfully completed one day Industrial visit in 04<sup>th</sup> Oct 2022 at SONAI MILK INDUSTRY PVT LTD, INDAPUR . To wards the partial fulfillment for the degree of Bachelor Science in Chemistry of SHRIRAM MAHILA VIDNYAN MAHAVIDYALAY , PANIV During the Annual year 2022-23 .

This report the bonfire work of the student .



Ghogaal  
01/04/2023  
Visit Co-ordinator

  
H.O.D.  
Dept. of Chemistry  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





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Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113  
(Affiliated to S. N. D. T. Women's University, Mumbai)


**DEPARTMENT OF CHEMISTRY**

Roll No.	51	Exam Seat No.	Date:	31/03/23
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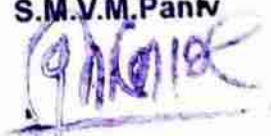
**CERTIFICATE**

This is to certified that Miss Waghmode Sandhya Navnath  
Has satisfactory completed the required study tour report Chemistry  
Department, prescribed by S. N. D. T. Women's University,  
Mumbai for academic year 2022-23 in T. Y. B.Sc.

  
Tour In-charge

  
External Examiner



  
HOD  
Dept. of Chemistry  
S.M.V.M. Paniv  
  
Principal

Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	04	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Bobade Tejasree Vitthal

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	1	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

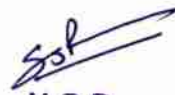
This is to certified that Miss Beebar Anushri Dilip

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	02	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Bankar Varsha Machhindra  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
**H.O.D**  
Dept. Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	45	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Waghmade Priyanka Jagannath  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
**H.O.D**  
Dept. Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	43	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Waghmode Diksha Ramdas

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	42	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Sul Pratiksha Dhanaji

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
**H.O.D**  
Dept. Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	41	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE


This is to certified that Miss Sid Mansi Bharat

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
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Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY


Roll No.	40	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Shende Swapnali Santhosh

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	38	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Salgar Anusaya Vitthal  
Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	36	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Rajmane. Dipti Raikumar

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
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Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	35	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Piser Aishwarya Nagesh

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. ~~HOD~~ Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	34	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Patil Rutuja Sanjay

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
**H.O.D**  
Dept. of Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



:: न हि ज्ञानेन सदृशः पवित्रमिह विद्यते ::

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	33	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Patale Dnyaneshwari Ravsaheb  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	32	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Parade Priyanka Sunil

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	31	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Mutkule Pooja Ramchandra

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D  
Dept of Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	29	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Mundphane Neha Vijay  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	27	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Mhasawade Manisha Maganlal

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept of Zoology  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	25	Exam Seat No.	Date:	09/11/2022
----------	----	---------------	-------	------------

## CERTIFICATE

This is to certified that Miss Magar Karishma kakasahab

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	24	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Madane Rutuja Dinkar

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	23	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Madane Bharati Laxman

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur





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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY


Roll No.	21	Exam Seat No.		Date:	09/11/2022
----------	----	---------------	--	-------	------------

## CERTIFICATE

This is to certified that Miss Lokare Rutuja Ganpat

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	20	Exam Seat No.		Date:	09/11/2022
----------	----	---------------	--	-------	------------

**CERTIFICATE**

This is to certified that Miss khatake Pratibha Abhijit

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



॥ न हि कश्चिन्न सद्गुरुः पवित्रमिदं विदुते ॥

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	17	Exam Seat No.		Date:	09/10/2022
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## CERTIFICATE

This is to certified that Miss Jadhav Gayatri Kumar

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras Dist. Solapur





॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha's**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

*(Affiliated to S. N. D. T. Women's University, Mumbai)*

**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	16	<b>Exam Seat No.</b>		<b>Date:</b>	09/11/2022
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**CERTIFICATE**

This is to certified that Miss J. Kar Shilpa Dilip

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	15	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Hulage Sohali Namdev.

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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## DEPARTMENT OF ZOOLOGY


Roll No.	14	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Hulage Nikita Namdev.

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	13	Exam Seat No.		Date:	09/11/2022
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**CERTIFICATE**

This is to certified that Miss Gore Pallavi Ghansham

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
**Tour In-charge**

  
**H.O.D**  
**Dep. Zoology**  
**S.M.V.M.Paniv**

  
**External Examiner**



  
**Principal**  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya,  
Paniv Tal. Malshiras, Dist. Solapur



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## DEPARTMENT OF ZOOLOGY

Roll No.	08	Exam Seat No.		Date:	9/11/2022
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## CERTIFICATE

This is to certified that Miss Chavan Varsha Agninaath

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	67	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Borate Samika Dhananjay  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	05	Exam Seat No.		Date:	09/11/2022
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## CERTIFICATE

This is to certified that Miss Bodake Kiran Prakash

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA, PANIV**

Tal. Malshiras, Dist. Solapur-413113

**DEPARTMENT OF ZOOLOGY**

Exam Seat No.	
---------------	--

Date: 9 / 11 / 22

**CERTIFICATE**

This is to certify that Miss. Raut pratiksha vilas

\_\_\_\_\_ has satisfactorily completed the required Seminar /  Project / PPT / Presentation, Prescribed by S.N.D.T. WOMENS'S UNIVERSITY, MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

*S. M. V. M. Paniv*

Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



*Pratiksha*

Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA, PANIV**

Tal. Malshiras, Dist. Solapur-413113

**DEPARTMENT OF ZOOLOGY**


Exam Seat No.	
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Date 9 / 11 / 22
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**CERTIFICATE**

This is to certify that Miss. mbasawade manisha maganai.

\_\_\_\_\_ has satisfactorily completed the required Seminar / Project / PPT / Presentation, Prescribed by S.N.D.T. WOMENS'S UNIVERSITY, MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



  
Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya,  
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Tal. Malshiras, Dist. Solapur-413113

**DEPARTMENT OF ZOOLOGY**

Exam Seat No.	
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Date: 9/11/22
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**CERTIFICATE**

This is to certify that Miss. Keche Rutuji Shiruji

\_\_\_\_\_ has satisfactorily completed the required Seminar / Project / PPT / Presentation, Prescribed by S.N.D.T. WOMEN'S UNIVERSITY, MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

*SSP*  
10/11/2022

*SSP*  
14/11/2022

*Principal*

Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



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Principal  
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Tal Malshiras , Dist.Solapur-413113

**DEPARTMENT OF ZOOLOGY**

Exam Seat No.	
---------------	--

Date: 9 / 11 / 22

**CERTIFICATE**

This is to certify that Miss. Dhasade Akshata Chandrakant

\_\_\_\_\_ has satisfactorily completed the required Seminar / Project / PPT / Presentation , Prescribed by S.N.D.T. WOMENS'S UNIVERSITY , MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

Ssp  
29/11/2022

Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv



[Signature]

Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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Tal Malshiras , Dist.Solapur-413113

**DEPARTMENT OF ZOOLOGY**


Exam Seat No.

Date: 9/11/2022

**CERTIFICATE**

This is to certify that Miss. SARUAR RUTUA TAMATI

\_\_\_\_\_ has satisfactorily completed the required Seminar /  Project / PPT / Presentation , Prescribed by S.N.D.T. WOMENS'S UNIVERSITY , MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
Sign. of Teacher  
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Dept. of Zoology  
S.M.V.M.Paniv



  
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Principal  
Shriram Mahila Vidyan Mahavidyalaya  
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**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA, PANIV**

Tal. Malshiras, Dist. Solapur-413113

**DEPARTMENT OF ZOOLOGY**

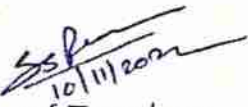
Exam Seat No.	
---------------	--

Date 09/11/2022

**CERTIFICATE**

This is to certify that Miss. MORE Supriya Dnyandev

\_\_\_\_\_ has satisfactorily completed the required Seminar  Project / PPT / Presentation, Prescribed by S.N.D.T. WOMENS'S UNIVERSITY, MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
10/11/2022  
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H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



  
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Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA ,PANIV**

Tal.Malshiras , Dist.Solapur-413113

**DEPARTMENT OF ZOOLOGY**

Exam Seat No.

Date: 9/11/22

**CERTIFICATE**

This is to certify that Miss. Waghmode. Komal Uddhav  
\_\_\_\_\_ has satisfactorily completed the required  
Seminar / Project / PPT / Presentation , Prescribed by S.N.D.T. WOMENS'S  
UNIVERSITY , MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
16/11/22  
Sign. of Teacher

**H.O.D**  
**Dept. of Zoology**  
**S.M.V.M. Paniv**



  
Sign. of Principal

**Principal**  
**Shriram Mahila Vidyan Mahavidyalaya**  
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Tal. Malshiras, Dist. Solapur-413113

**DEPARTMENT OF ZOOLOGY**


Exam Seat No.	
---------------	--

Date 09/10/22

**CERTIFICATE**

This is to certify that Miss. Kaladhane Sanika Dashrath

\_\_\_\_\_ has satisfactorily completed the required Seminar / ~~Project~~ / PPT / Presentation, Prescribed by S.N.D.T. WOMENS'S UNIVERSITY, MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



  
Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	10	Exam Seat No.		Date:	9/11/2022
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## CERTIFICATE

This is to certified that Miss Deshmukh Sakshi Naynath  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in S.Y. B. Sc.

*GSP*  
9/11/2022  
Tour In-charge

*GSP*  
14/11/2022  
External Examiner



*GSP*  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv  
19/11/2022

Principal  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	03	Exam Seat No.		Date:	9/11/2022
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## CERTIFICATE

This is to certified that Miss Bhosale Rutiksha Somnath

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S. Y. B. Sc.

*SSR*  
23/11/2022  
**Tour In-charge**

*SSR*  
9/11/2022  
**External Examiner**



*SSR*  
H.O.D.  
Dept. of Zoology  
S.M.V.M.Paniv

*[Signature]*

**Principal**

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA ,PANIV**

Tal.Malshiras , Dist.Solapur-413113

**DEPARTMENT OF ZOOLOGY**

Exam Seat No.	
---------------	--

Date : 09/11/2022
-------------------

**CERTIFICATE**

This is to certify that Miss. Londhe Pallavi Hanumant

\_\_\_\_\_ has satisfactorily completed the required Seminar / Project / PPT / Presentation , Prescribed by S.N.D.T. WOMENS'S UNIVERSITY , MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

*S. S. Patil*

Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



*P. K. Patil*

Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	०६	Exam Seat No.	Date: ०९/११/२२
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**CERTIFICATE**

This is to certified that Miss Borade Divya Haridev

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in S.Y. B. Sc.

*SSP*  
09/11/22  
**Tour In-charge**

*SSP*  
**HOD**  
Dept. of Zoology  
S.M.V.M. Paniv

*SSP*  
14/11/22  
**External Examiner**



**Principal**  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	19	Exam Seat No.		Date:	29/03/23
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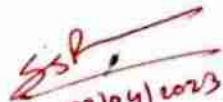
## CERTIFICATE

This is to certified that Miss Hulge Komal Tahyo


Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Dept. Zoology  
S.M.V.M. Paniv

  
29/04/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	09	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Deshmukh Sonali Reju

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.R.*  
29/03/2023  
**Tour In-charge**

*S.R.*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*S.R.*  
08/04/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	13	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Dhobale Gauri Dnyaneshwar  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

*Ssk*  
29/03/23  
**Tour In-charge**

*Ssk*  
29/03/23  
H.O.D  
Dep. Zoology  
S.M.V.M.Paniv

*Ssk*  
08/04/2023  
**External Examiner**



*Ssk*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

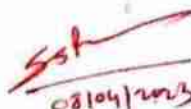
Roll No.	०७	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Borate Petya Satish.

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dep. Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	15	<b>Exam Seat No.</b>		<b>Date:</b>	29/03/23
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**CERTIFICATE**

This is to certified that Miss Game prajakta Mahadev  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
08/04/2023  
**External Examiner**



  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	29	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Kodag Sakshi Mahadev

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	36	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Magor Vaishnavi Balayo

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/23  
**Tour In-charge**

*SSP*  
29/03/23  
**H.O.D**  
Dept. Zoology  
S.M.V.M.Paniv

*SSP*  
08/04/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidyan Mahavidyalaya  
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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

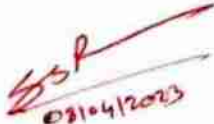
Roll No.	16	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Ganpati Vrushali Anil.

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

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**DEPARTMENT OF ZOOLOGY**

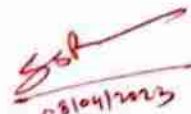
Roll No.	74	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Waghmare Vaishnavi Dadas  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. Zoology  
& B.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**DEPARTMENT OF ZOOLOGY**

Roll No.	17	Exam Seat No.	Date: 29/03/23
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**CERTIFICATE**

This is to certified that Miss Gore Akshada Arun

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
**Tour In-charge**

*SSP*  
08/04/2023  
**External Examiner**



*SSP*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

*[Signature]*

**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	46	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Mhaswade Diksha Gautash.

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	22	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Jamdade Megha Mohan

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Ssk*  
29/03/2023  
**Tour In-charge**

*Ssk*  
29/04/2023  
**External Examiner**



*Ssk*  
29/03/2023  
H.O.D  
Dep. Zoology  
S.M.V.M.Paniv

*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal.: Malshiras, Dist.: Solapur, 413113

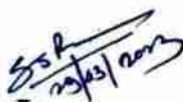
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## DEPARTMENT OF ZOOLOGY

Roll No.	77	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Maghmode Manisha Dada  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	20	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Jadhav Ashwini laxam

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Sst*  
29/03/2023  
**Tour In-charge**

*Sst*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

*Sst*  
08/04/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	38	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Mane Amruta Utam

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSR*  
29/03/23  
**Tour In-charge**

*SSR*  
29/03/23  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

*SSR*  
31/04/2023  
**External Examiner**



*SSR*  
29/03/23  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	55	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss phule Pooja Saril


Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Department of Zoology  
S.M.V.M.Paniv

  
8/04/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	45	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Mayka Komal Kailas

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSK*  
29/03/2023  
**Tour In-charge**

*SSK*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

*SSK*  
08/4/2023  
**External Examiner**



*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

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Tal.: Malshiras, Dist.: Solapur, 413113

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**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	72	<b>Exam Seat No.</b>		<b>Date:</b>	29/03/23
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**CERTIFICATE**

This is to certified that Miss Vyavdhare Shirari Chandrakant

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SOP*  
29/03/2023  
**Tour In-charge**

*SOP*  
29/03/2023  
**H.O.D**  
**Dept. Zoology**  
**S. N. D. T. Paniv**

*SOP*  
08/04/2023  
**External Examiner**



*19/03/23*  
**Principal**  
**Shriram Mahila Vidnyan Mahavidyalaya**  
**Paniv Tal. Malshiras, Dist. Solapur**



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	49	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Patil Kalyani Appa

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113


(Affiliated to S. N. D. T. Women's University, Mumbai)

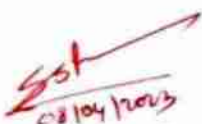
## DEPARTMENT OF ZOOLOGY

Roll No.	52	Exam Seat No.	Date:	29/03/23
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## CERTIFICATE


This is to certified that Miss Pawar Poochi Dadasaheb  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	75	<b>Exam Seat No.</b>		<b>Date:</b>	29/03/23
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**CERTIFICATE**

This is to certified that Miss Waghmode Komal Ramdas  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
**Tour In-charge**

*SSP*  
08/04/2023  
**External Examiner**



*SSP*  
29/03/2023  
**H.O.D**  
Dept. **ZOOLOGY**  
S.M.V.M.Paniv

*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	78	<b>Exam Seat No.</b>		<b>Date:</b>	29/03/23
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**CERTIFICATE**

This is to certified that Miss Waghmode Rohini Rajkumar  
Has satisfactory completed the required study tour report of Zoology  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

*S.S.R.*  
29/03/2023  
**Tour In-charge**

*S.S.R.*  
29/03/2023  
**External Examiner**



*S.S.R.*  
29/03/2023  
**H.O.D**  
Dept. **Zoology**  
S.M.V.M. Paniv

*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

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**DEPARTMENT OF ZOOLOGY**

Roll No.	57	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Pise Priya Sani

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSR*  
29/03/2023  
**Tour In-charge**

*Solapur*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*SSR*  
29/04/2023  
**External Examiner**



*Priya Sani*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	62	Exam Seat No.		Date:	29/03/23
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**CERTIFICATE**


This is to certified that Miss Shendage Shital Dada

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D.  
Dept. Zoology  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	64	Exam Seat No.	Date:	29/03/23
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**CERTIFICATE**

This is to certified that Miss Shinde Supriya Shorad

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
External Examiner



  
H.O.D  
Dept. ~~HOD~~ Zoology  
S.M.V.M. Paniv

  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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## DEPARTMENT OF ZOOLOGY

Roll No.	66	Exam Seat No.	Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Sid Mayur Balasaheb

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SOP*  
29/03/2023  
**Tour In-charge**

*SOP*  
31/04/2023  
**External Examiner**



*SOP*  
29/03/2023  
**H.O.D**  
**HOD**  
Dept. of Zoology  
S.M.V.M.Paniv  
*[Signature]*

**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





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Tal.: Malshiras, Dist.: Solapur, 413113

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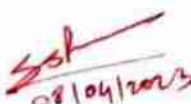
<b>Roll No.</b>	83	<b>Exam Seat No.</b>		<b>Date:</b>	29/03/23
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**CERTIFICATE**

This is to certified that Miss Zanje Preetiya Rajaram


Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
**Tour In-charge**

  
**External Examiner**



  
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Dept. of Zoology  
S.M.V.M. Paniv

  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	73	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Wagh Vansharaj Sanjay

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
23/03/23  
**Tour In-charge**

*SSP*  
8/04/2023  
**External Examiner**



*SSP*  
29/03/2023  
H.O.D  
Dept. Zoology  
S.M.V.M.Paniv

*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

**Shriram Shikshan Sanstha's**

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

*(Affiliated to S. N. D. T. Women's University, Mumbai)*

**DEPARTMENT OF ZOOLOGY**

<b>Roll No.</b>	02	<b>Exam Seat No.</b>		<b>Date:</b>	21/03/23
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**CERTIFICATE**

This is to certified that Miss Bandgar Aparna Appa

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.R.*  
21/03/2023  
**Tour In-charge**

*S.R.*  
08/04/2023  
**External Examiner**



*S.R.*  
20/03/2023  
**H.O.D**  
**Dept. of Zoology**  
**S.M.V.M.Paniv**

*[Signature]*  
**Principal**  
**Shriram Mahila Vidnyan Mahavidyalaya**  
**Paniv Tal. Malshiras, Dist. Solapur**





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	67	Exam Seat No.		Date:	29/03/23
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## CERTIFICATE

This is to certified that Miss Sondakke Tejashwini Navnath

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
**Tour In-charge**

*SSP*  
08/04/2023  
**External Examiner**



*SSP*  
29/03/2023  
**HOD**  
Dept. of Zoology  
S.M.V.M.Paniv  
*[Signature]*  
**Principal**

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	35	Exam Seat No.		Date:	29/03/2023
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## CERTIFICATE

This is to certified that Miss Madne Ankita Sonjerao

Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.S.R.*  
20/03/2023  
**Tour In-charge**

*S.S.R.*  
08/04/2023  
**External Examiner**



*S.S.R.*  
20/03/2023  
**H.O.D**  
**Dep. H.O.D**  
**Zoology**  
**S.M.V.M. Paniv**

*[Signature]*  
**Principal**  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur



:: न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते ::

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	50	Exam Seat No.		Date:	29/09/23-
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**CERTIFICATE**

This is to certified that Miss. Patil Trupti shivanand  
Has satisfactory completed the required study tour report of Zoology Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
20/09/23  
**Tour In-charge**

  
08/10/23  
**External Examiner**



  
20/09/23  
H.O.D  
Dept of Zoology  
S.M.V.M. Paniv

  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	70	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Surwase Sakshi Santosh.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
29/03/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	62	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Shendage Pratiksha Homiba.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SOP*  
29/03/2023  
**Tour In-charge**

*SOP*  
29/03/2023  
**H.O.D**  
Dept. of Zoology  
S.M.V.M.Paniv

*SOP*  
29/03/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	३३	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Lavate Ankita Kashinath

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.S.K.*  
29/03/2023  
**Tour In-charge**

*S.S.K.*  
29/03/2023  
**H.O.D**  
**HOD**  
Dept. of Zoology  
S.M.V.M.Paniv

*S.S.K.*  
29/04/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	10	Exam Seat No.	Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Devkate Sonali Ravsaheb.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
**H.O.D**  
Dept. of Zoology  
S.M.V.M. Paniv

  
28/04/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	21	Exam Seat No.		Date:	29-3-23
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**CERTIFICATE**

This is to certified that Miss Jadhav Dhanshri Santosh

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
External Examiner



  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	66	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss shinde swapnali sadashiv

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Zoology  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	23	Exam Seat No.		Date:	29/03/2023
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## CERTIFICATE

This is to certified that Miss Kachare Revati shamrao.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. ~~HOD~~ Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	05	Exam Seat No.		Date:	29-3-2023
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## CERTIFICATE

This is to certified that Miss Balbhaut Pooja Bapu.....

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.S.P.*  
29/03/2023  
Tour In-charge

*S.S.P.*  
28/04/2023  
External Examiner



*S.S.P.*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	11	Exam Seat No.		Date:	29-8-23
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**CERTIFICATE**

This is to certified that Miss Chaije Sneha Bhemrao

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/08/2023  
Tour In-charge

*Sofu*  
29/08/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*Sar*  
29/08/2023  
External Examiner



*Principal*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	48	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss Mote Manisha Maruti

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M Paniv  
HOD

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

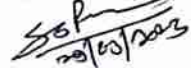
Roll No.	54	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Pawne Sakshi Balascheb

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
Tour In-charge

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
25/04/2023  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	57	Exam Seat No.	Date:	29/03/2023
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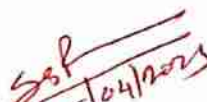
**CERTIFICATE**

This is to certified that Miss Pise Goumi Jalindar

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.P. Paniv

  
25/04/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	55	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss. Pawar Shubhangi Popat

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Sep*  
29/03/2023  
Tour In-charge

*Sep*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*Sep*  
05/04/2023  
External Examiner



*[Signature]*  
Principal

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**


Roll No.	26	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Kale Ujjwala Sanjay

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
Tour In-charge

  
29/03/2023  
H.O.D.  
Dept. of Zoology  
S.M.V.M. Paniv

  
29/03/2023  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur,



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	01	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Avaghade Punam Sanjay

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSJ*  
29/03/2023  
**Tour In-charge**

*SSJ*  
29/03/2023  
H.O.D  
Dept. **HOD** Zoology  
S. N. D. T. Paniv

*SSJ*  
29/03/2023  
**External Examiner**



*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	28	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss kapane vaibhavi shivaji

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
Tour In-charge

*SSP*  
29/03/2023  
H.O.D  
DepHODology  
S.N.D.T. Paniv

*SSP*  
29/03/2023  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv Tal. Malshiras Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

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Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY


Roll No.	40	Exam Seat No.		Date:	29-3-23
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## CERTIFICATE

This is to certified that Miss Mane snehal Dheeraji

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Zoology  
S.M.V.M.A.V.

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	87	Exam Seat No.	Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss. Mane Tejaswini Eknath

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
**Tour In-charge**

*SSP*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv  
**HOD**

*SSP*  
04/04/2023  
**External Examiner**



*[Signature]*  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

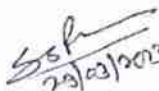
**DEPARTMENT OF ZOOLOGY**

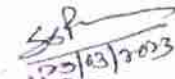
Roll No.	49	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss panaskar shivani subhash

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
29/03/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



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Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	84	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss Zanje Rutuja Rajaram

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Sep 29/03/2023*  
Tour In-charge

*Sep 29/03/2023*  
H.O.D  
Dept. of Zoology  
S. N. D. T. W. U.  
HOD

*Sst 06/04/2023*  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

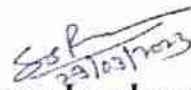
**DEPARTMENT OF ZOOLOGY**

Roll No.	72	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss. Thombare Nikita Shankar

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D.  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	79	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Waghmode Rohini Rarkumar

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Sep*  
*29/03/2023*  
**Tour In-charge**

*Sep*  
*29/03/2023*  
**H.O.D**  
**Dept. Botany**  
**S.M.V.M. Paniv**

*Sep*  
*06/04/2023*  
**External Examiner**



*[Signature]*  
**Principal**  
**Shriram Mahila Vidyan Mahavidyalaya**  
**Paniv, Tal. Malshiras, Dist. Solapur**



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

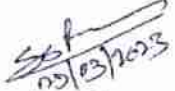
**DEPARTMENT OF ZOOLOGY**

Roll No.	41	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss Mane Tejashri Tanuji


Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
Tour In-charge

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
05/04/2023  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सहस्रां पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

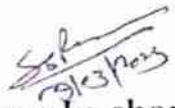
**DEPARTMENT OF ZOOLOGY**

Roll No.	64	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss Shende Komal Rajendra

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M.Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)


## DEPARTMENT OF ZOOLOGY


Roll No.	60	Exam Seat No.	Date:	29-3-2023
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## CERTIFICATE

This is to certified that Miss pise shivani Balu

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/3/2023  
Tour In-charge

  
29/03/2023  
H.O.D.  
Dept. of Zoology  
S.M.V.W. Paniv

  
06/04/2023  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



॥ न हि ज्ञानेन सदृशः पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

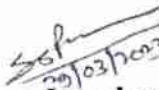
**DEPARTMENT OF ZOOLOGY**


Roll No.	43	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Manjule Rutuja Vilas.....

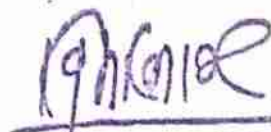
Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
**H.O.D**  
Dept. of Zoology  
S.N.D.T. Women's University

  
29/03/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



:: न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ::

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	32	Exam Seat No.		Date:	29-3-2023
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**CERTIFICATE**

This is to certified that Miss Lawand Sonali Maruti

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*S.S.P.*  
29/03/2023  
Tour In-charge

*S.S.P.*  
29/03/2023  
H.O.D.  
Dept. of Zoology  
S.M.V.M. Paniv

*S.S.P.*  
05/04/2023  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv Tal. Malshiras Dist. Solapur





!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

DEPARTMENT OF ZOOLOGY

Roll No.	07	Exam Seat No.		Date:	29-03-2023
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CERTIFICATE

This is to certified that Miss. Borate Rutuja Satish

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
Tour In-charge

*SSP*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv  
HOD

*SSP*  
29/03/2023  
External Examiner



*Principal*  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	08	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Chandanshive Pratiksha Mahadev  
Has satisfactory completed the required study tour report of Botany  
Department, prescribed by S. N. D. T. Women's University, Mumbai  
for academic year 2022-23 in F. Y. B. Sc.

*S.S.P.*  
29/03/2023  
Tour In-charge

*S.S.P.*  
29/03/2023  
H.O.D  
Dept. ~~H.O.D.~~ Biology  
S.M.V.M. Paniv

*S.S.P.*  
29/03/2023  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	38	Exam Seat No.	Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Mane Amruta Mahadev.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
Tour In-charge

*SSP*  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*SSP*  
29/03/2023  
External Examiner



*Principal*  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





॥ न हि ज्ञानेन सहसं ॥ पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

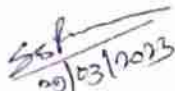
**DEPARTMENT OF ZOOLOGY**


Roll No.	84	Exam Seat No.	Date:	29/3/2023
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**CERTIFICATE**

This is to certified that Miss Lengare komal Tatyaso

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
**H.O.D.**  
Dept. of Zoology  
S.M.V.M.Paniv

  
29/03/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

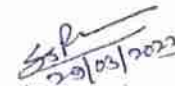
Roll No.	25	Exam Seat No.	Date:	29-3-2023
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## CERTIFICATE

This is to certified that Miss Kadam vaishnavi sanjay

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
Tour In-charge

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.H.O.D. Paniv

  
28/04/2023  
External Examiner



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!  
Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

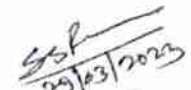
## DEPARTMENT OF ZOOLOGY

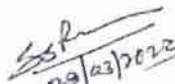
Roll No.	14	Exam Seat No.	Date: 29-03-23
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## CERTIFICATE

This is to certified that Miss Golande Rehma pandurang

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

Shriram Mahila Vidyan Mahavidyalaya, Paniv

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

DEPARTMENT OF ZOOLOGY

Roll No.	44	Exam Seat No.	Date:	29-3-23
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CERTIFICATE

This is to certified that Miss Markad Sakshi Jaywant

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*Ssp*  
*29/03/2023*  
Tour In-charge

*Ssp*  
*29/03/2023*  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

*Ssp*  
*29/03/2023*  
External Examiner



*[Signature]*  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सहस्रं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY


Roll No.	७७	Exam Seat No.	Date:	29-3-2023
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## CERTIFICATE

This is to certified that Miss Waghmode komal subhash

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
H.O.D  
Dept. of Zoology  
S.M.V.HOD  
Paniv

**External Examiner**



  
Principal  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	80	Exam Seat No.		Date:	29/3/2023
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## CERTIFICATE

This is to certified that Miss. Waghmode Sangita Papat.

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/3/2023  
**Tour In-charge**

  
29/3/2023  
**H.O.D**  
Dept. of Zoology  
S.M. Univ

  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur





!! न हि ज्ञानेन सदृशं पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF ZOOLOGY**

Roll No.	03	Exam Seat No.		Date:	29/03/2023
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**CERTIFICATE**

This is to certified that Miss Bhange Bhakti vijay

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

*SSP*  
29/03/2023  
**Tour In-charge**

*SSP*  
02/04/2023  
**External Examiner**



*SSP*  
29/03/2023  
**HOD**  
**H.O.D**  
Dept. of Zoology  
S.M.V.M. Paniv  
*[Signature]*  
**Principal**  
Principal

Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur



:: न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ::

Shriram Shikshan Sanstha's

**Shriram Mahila Vidyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)


**DEPARTMENT OF ZOOLOGY**

Roll No.	42	Exam Seat No.		Date:	29-03-2023
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**CERTIFICATE**

This is to certified that Miss Mane Vrushali Chintu

Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
Tour In-charge

  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv

  
External Examiner



  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

**Report of the field work / sample  
photographs of the field work /  
permission letter only for field work from  
the competent authority**





**A Project Report**

**On,**

**"Preparation of soaps  
(saponification)"**

**Submitted to Department of Chemistry**

**SHRIRAM MAHILA VIDYAN**

**MAHAVIDYALAYA, PANIV**

**Affiliated To**

**S.N.D.T. Women's University, Mumbai**

**For Degree of**

**Master of Science in Analytical Chemistry**

**Submitted by**

**Ms. MORE SWAPNALI MUKTICHAND**

**Under the Guidance of**

**PROF. Mr. BABAR A.M.**

**Head of Chemistry Department**

**Year 2022-23**

**A PROJECT REPORT  
ON,  
"PREPARATION OF SOAPS  
(SAPONIFICATION)"**

**Submitted to Department of Chemistry**

**SHRIRAM MAHILA VIDNYAN  
MAHAVIDYALAYA, PANIV**

**Affiliated To**

**S.N.D.T. Women's University, Mumbai**

**For Degree of**

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Shriram Mahila Vidnyan Mahavidyalaya, Paniv



**Affiliated to**  
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**A Project Report On**  
**"PREPARATION OF SOAPS (SAPONIFICATION)"**

**Submitted By**  
**Name: More Swapnali Muktichand**  
**Roll number : 33**

**Under the Guidance of Mr. Babar A. M.**

**(Examiner)**

**(Project Guide)**  
**Mr. Babar A.M.**

**(Principal)**

**(PG Coordinator)**



Shriram Shikshan Sanstha's Shriram Mahila Vidnyan  
Mahavidyalaya, Paniv  
Affiliated to  
**SNDT Women's University, Mumbai**

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### CERTIFICATE


This is to certify that the project report entitled,  
**"PREPARATION OF SOAPS (SAPONIFICATION)"** is  
submitted by **MORE SWAPNALI MUKTICHAND**  
For partial fulfilment of **Master of Science in**  
**Chemistry** as per requirement of  
**SNDT Women's University, Mumbai** for the academic  
**year 2022-23** under the  
Guidance of **Mr. Babar A.M.**



(Examiner)



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Co-Ordinator  
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Shriram Mahila Vidnyan Mahavidyalaya  
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# DECLARATION BY THE STUDENT

Thereby declare that  
project entitled "**PREPRATION OF  
SOAPS (SAPONIFICATION)**"  
completed and written by me  
under the guidance of PROFESSOR  
Mr. BABAR A.M 'Shriram Mahila  
Vidnyan Mahavidyalaya, Paniv.

Place:

Date:



Name & signature of the student

Ms. More Swapnali Muktichand

## ACKNOWLEDGEMENT

It is heartily thanks to **Mrs. Babar V. V. Sir, Principal of Shriram Mahila Vidnyan Mahavidya, Paniv** for the given facilities and opportunity. Primarily I would thanks god being able to complete this project with success. Then I would like to thanks my chemistry teacher **Mr. Babar A.M.** whose valuable guidance has been the ones that helped me patch this project and make it full proof success his suggestions and his instructions has served as the major contributor towards the completion of the project.

Then I would like to thanks my parents and friends who have helped me with their valuable suggestions and guidance has been helpful in various phases of the completion of the project. Last but not the least I would like to thanks my classmates who have helped me a lot.



## ABSTRACT

In this experiment, soap is prepared and the characteristic of the soap is compared with a synthetic detergent. Soap is prepared using vegetable oil, ethanol and sodium hydroxide. These reagents are mixed together and heated up until the soap formed. After the soap is formed, the soap is cooled in the water bath before being tested.

There are two experiments done in comparing soap and detergent which are precipitation and emulsification test. Each test yields a variety of results. For precipitation test, soap and detergent are tested using a few drops of HCl until the pH of the solution is equal to 3. The number of drops used to get the value of 3 is counted. For emulsification test, each soap and detergent are tested with various kinds of solutions in order to determine the emulsification effect. The solutions which are emulsified by either soap or detergent will form a single layer. All the data are gathered and recorded.

# INTRODUCTION

## History of Soap:

The discovery of soap dates back to about 6000 years ago. Around 2800 B.C.E, the ancient Babylon excavations uncovered cylinders with inscriptions for making soap.<sup>1</sup> In 1500 B.C.E, records from ancient Egypt described how animal and vegetable oils were combined with alkaline salts to make soap.

According to a Roman legend, "soap got its name from Mount Sapo, where animals were sacrificed. Rain washed the fat from the sacrificed animals along with alkaline wooden ashes from the sacrificial fires into the Tiber River, where people found the mixture helpful in cleaning clothes. This procedure for making soap remained unchanged for centuries, with American colonists collecting and cooking down animal tallow (rendered fat) and then mixing it with an alkali potash solution obtained from the accumulated hardwood ashes of their winter fires. Similarly, Europeans made castile soap using olive oil. Since the mid-nineteenth century, the process became commercialized and soap became widely available at the local markets."<sup>1</sup> To date, most people use similar methods to make home-made soaps.

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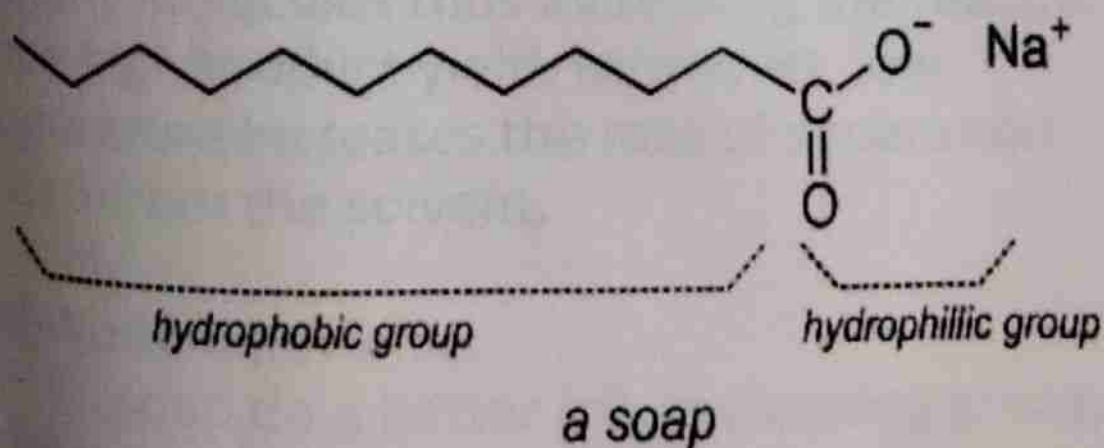
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## The Chemistry of Soap:

Soap making involves the hydrolysis of a triglyceride (fat or oil) using an alkaline solution usually lye, chemical name sodium hydroxide. Triglycerides are typically triesters consisting of 3 long-chain aliphatic carboxylic acid chains appended to a single glycerol molecule. This process of making soap is known as saponification.

The common procedure involves heating animal fat or vegetable oil in lye (sodium hydroxide), therefore hydrolyzing it into carboxylate salts (from the combination of carboxylic acid chains with the cations of the hydroxide compound) and glycerol.



## Relevance to our Life:

### Biological Relevance:

Soap comprises of two distinct ends: the hydrocarbon end, which is lipophilic and non-polar, and a hydrophilic end, which is polar. The non-polar end is capable of dissolving non-polar molecules, whereas the polar end of the soap is capable of dissolving polar molecules.

### Chemical Relevance:

The efficiency of soap is affected by various factors such as pH, the composition of the solvent (e.g., the elements/ions present in the solvent), and temperature. Temperature is a physical property of matter that is vital not only in the soap efficiency, but also in the formation of soap. High temperature in soap making increases the rate of collision of the reactant molecules thus increasing the reaction rate, hence high product yield. Moreover, low temperature increases the rate of separation of soap from the solvent.

### Real-World Relevance:

soaps do a better job in cleaning greasy surfaces (e.g., dishes, clothes, etc)



## **MATERIAL AND METHOD OF PREPRATION:**

Materials required:

- 1)Vegetable oil, castor oil, olive oil, coconut oil
- 2)20% sodium hydroxide solution
- 3)Common salt
- 4)Measuring cylinders
- 5)Glass beaker (250 ml)
- 6)Blue and red litmus papers
- 7)Glass rod
- 8)Bunsen burner
- 9)Wire gauze
- 10)Tripod stand
- 11)Filter funnel
- 12)Filter paper
- 13)Spatula
- 14)Knife

## REAL LAB PROCEDURE:

- 1) Take 25 ml of coconut oil in a measuring cylinder and pour it into a 250 ml glass beaker. Measure 30 ml of 20% NaOH solution in another measuring cylinder and add it into the beaker containing vegetable oil.
- 2) Vigorously stir the mixture using a glass rod. Touch the beaker from outside. It is observed that the beaker is warm.
- 3) Place the beaker on a wire gauze placed over a tripod stand.
- 4) Heat the beaker using a Bunsen burner till the mixture become a whitish paste.
- 5) Remove the beaker from the flame and allow it to cool.
- 6) Dip a red litmus paper in the suspension formed.
- 7) When dipped in the suspension, the red litmus paper changes its colour to blue.
- 8) Dip a blue litmus paper in the suspension. The colour of blue litmus paper remains the same.
- 9) To the above suspension, add 15g of common salt and stir it well with a glass rod.

CHEMICAL REACTION

10) After adding common salt, soap in the suspension gets precipitated out as solid.

11) Take a filter funnel and place a filter paper in it and fix it in a stand.

12) Place a beaker below the funnel.

13) Pour the contents of the beaker into the funnel over a glass rod and filter the contents of the beaker.

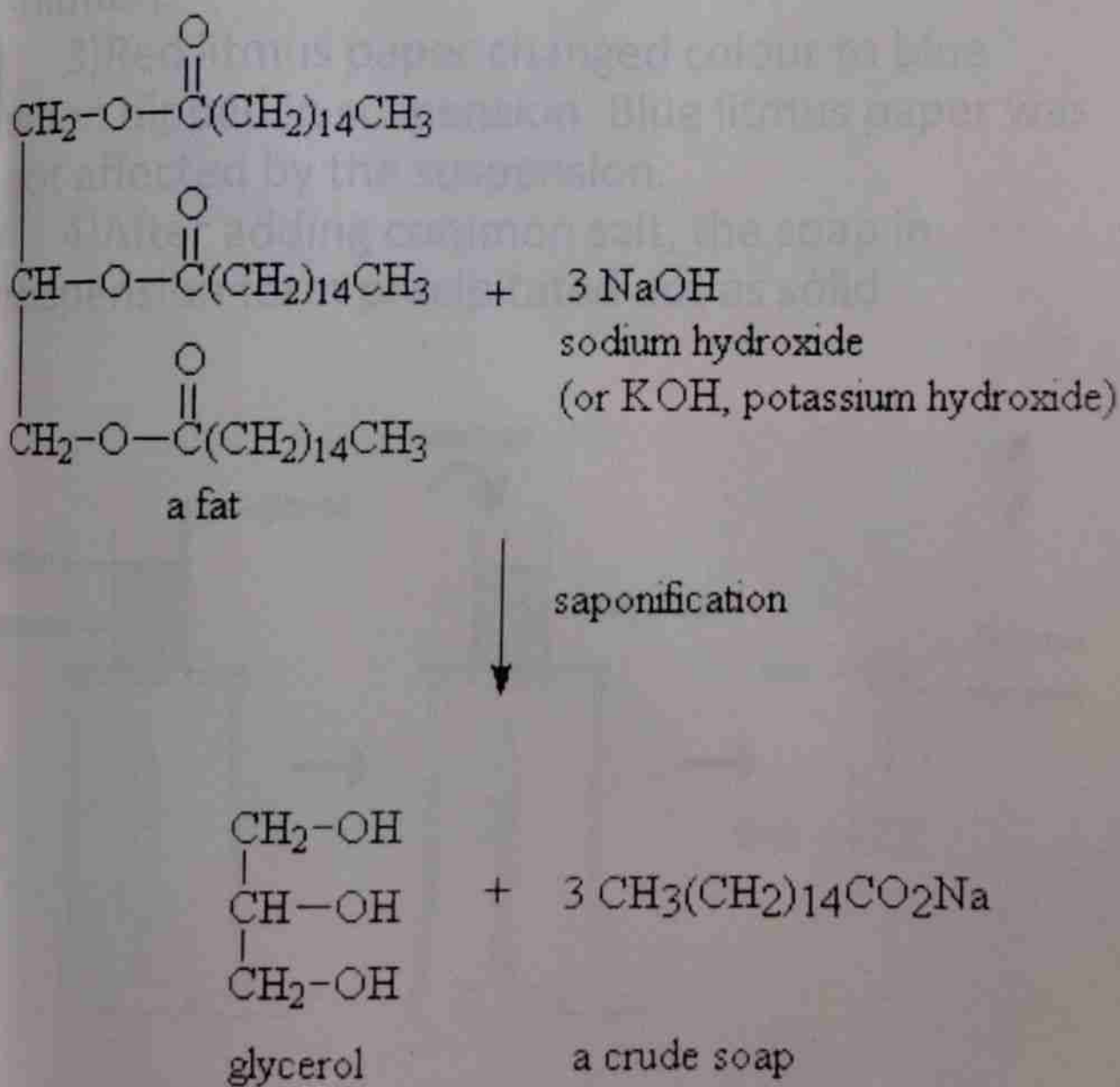
14) After filtration, soap is left behind in the filter paper.

15) Transfer the soap into another filter paper using a spatula and dry it by pressing with another filter paper.

16) Then, cut it into desired shape with a knife.



# CHEMICAL REACTION INVOLVED IN EXPERIMENT:



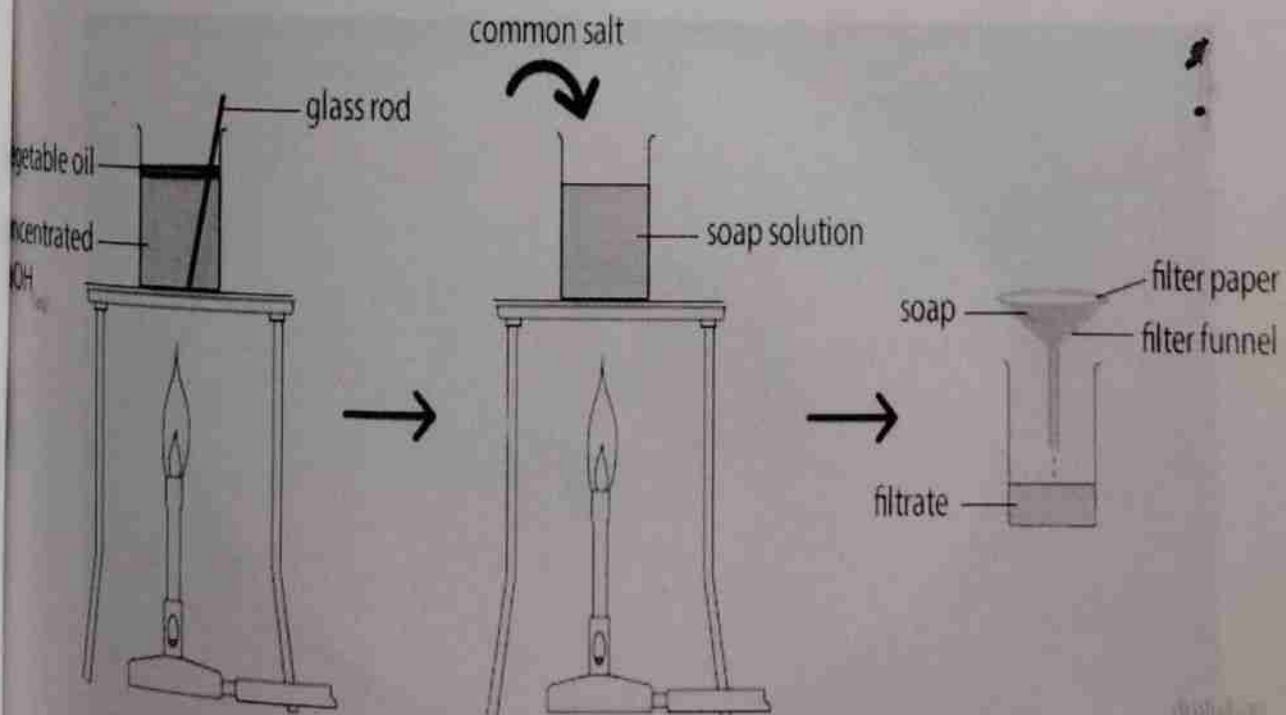
# Observations:

1) When 20% NaOH solution was added to the beaker containing vegetable oil, it was observed that the beaker was warm when touched from the outside.

2) A whitish suspension was formed by heating the mixture of vegetable oil and 20% NaOH solution.

3) Red litmus paper changed colour to blue when dipped in suspension. Blue litmus paper was not affected by the suspension.

4) After adding common salt, the soap in suspension form precipitated out as solid



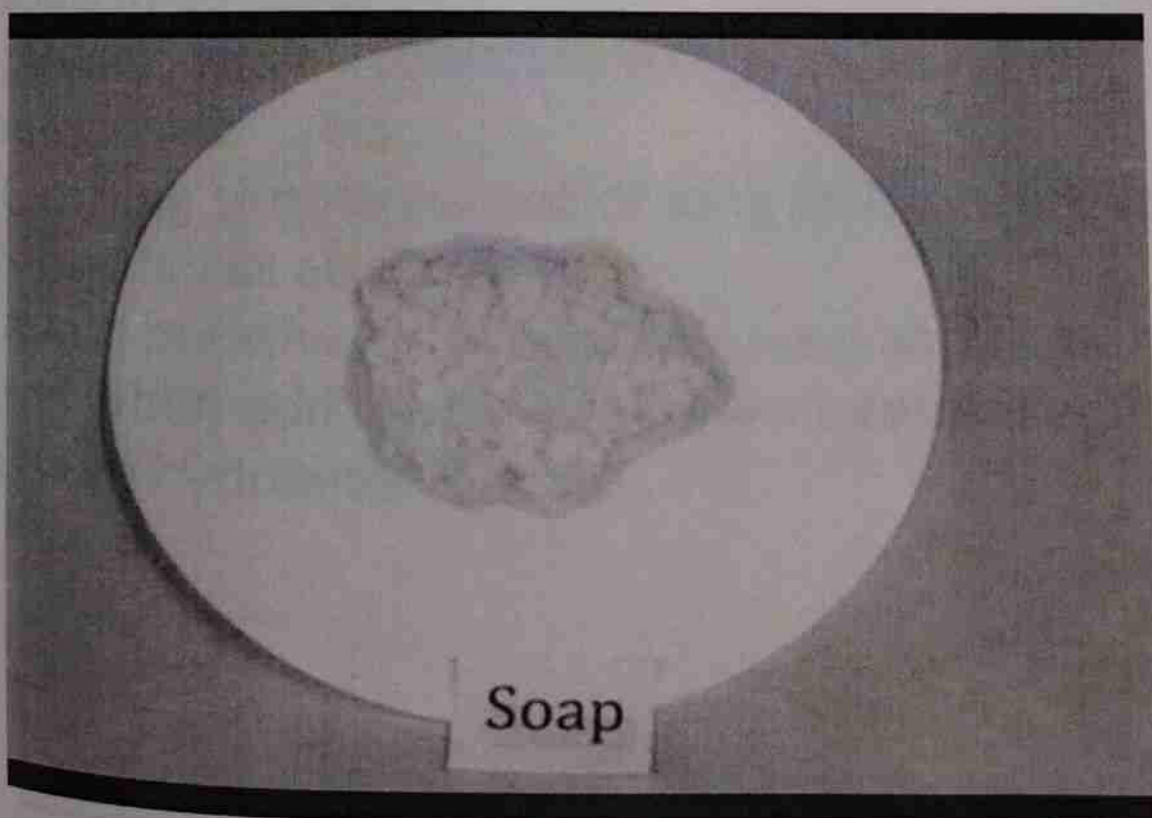
## Conclusions:

1) The reaction between vegetable oil and sodium hydroxide solution is exothermic in nature because heat is liberated during the reaction.

2) The white suspension formed is made up of soap and glycerol. The process of formation of soap is called saponification.

3) Test using red and blue litmus papers shows that soap suspension is basic in nature and not acidic in nature.

4) The process of precipitation of soap from the suspension is called salting out.





## precautions:

1) Do not touch the NaOH solution with bare hands as it may burn the skin.

2) Do not breathe the fumes of NaOH or let the fumes get in your eyes. Keep the windows of the laboratory open.

3) The mixture of oil and alkali should be stirred thoroughly.

4) It is necessary to stir the soap solution after adding common salt to it, in order to precipitate out the soap in solid form.

5) Always wear eye protection (goggles) and rubber gloves.

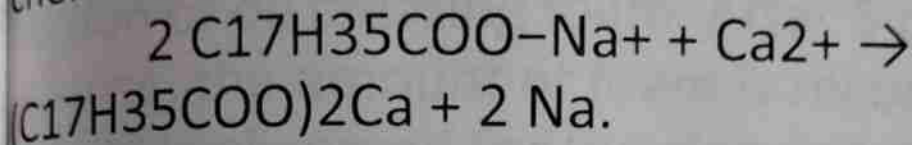
6) Clothing should consist of long sleeve shirt, long pants and socks and shoes.

7) Avoid breathing the dust released and fumes created when adding either sodium hydroxide or potassium hydroxide to water.

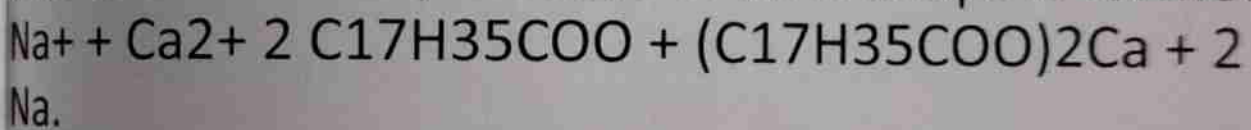
# soap tests:

## 1) Hard water test:

chemical equation for soap on hard water is



As just a result of the reaction seen between surfactant anion and the calcium and magnesium ions in hard water, metallic or lime soaps is formed:



## 2) Interaction with oil:

Soap can emulsify fats and oils by forming micelles around oil droplets. The soap molecules surround an oil droplet so that their nonpolar tails are embedded in the oil and their charged "head" groups are on the exterior of the droplets, facing the water.

### 3) Foam test:

Air is forced through a diffuser within a portion of oil creating foam. After 5 minutes of blowing, the amount of foam is recorded. Then, the sample is observed for the clearing of generated foam. Then either time of full dissipation is recorded or amount of foam remaining after 10 minutes.

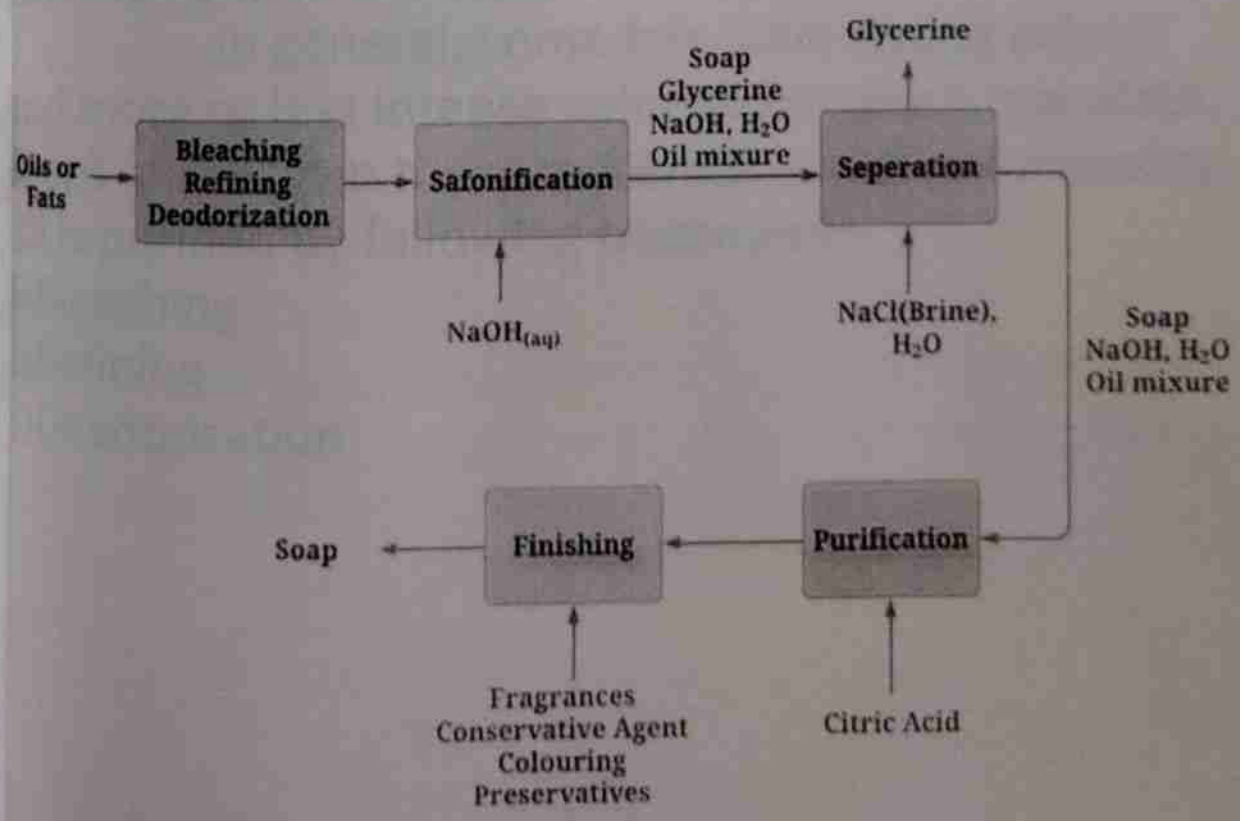
### 4) pH test:

To test, dab a bit of distilled water on the surface of the soap. Use your glove to smear the water around, making a paste with the soap. Using your pH 1-14 test strips, test the paste. If your strip reads between pH 7 and 10, the soap is no longer caustic and is safe to touch.



# Industrial and Domestic Soap Production and Manufacturing Process:

Soap is an item of daily necessity as a cleaning agent. Soap production is one of the large chemical industry because it has a high demand in every part of the world. There are four basic raw materials involved in the manufacturing of soap and also there are three basic process methods that are used industrially; cold process, hot process and semi-boiled process. soap production is mainly done in four steps, saponification, glycerin removal, soap purification and finishing.



## **Raw Materials of The Soap Production:**

Mainly, four basic raw materials are involved in the manufacture of soap.

- 1) Oils and fats
- 2) Soda lye or potash lye
- 3) Brine (for glycerin recovery)
- 4) Additives (sodium carbonate, sodium silicate, dyes, perfumes, etc.) as secondary products.

## **The Pretreatment of Oils and Fats:**

In general, some fats have strong odors and more or less intense colorations when raw state. Soaps made from these materials are of poor quality. Oil is purified by following treatments.

- 1) Bleaching
- 2) Refining
- 3) Deodorization

### 1) Bleaching:

Ingredients such as palm oil require some bleaching when making soaps such as toilet soap. But the majority of good quality oils and fats do not require bleaching.

One method is to send the oil through an "Active fuller iron" clay at a temperature of 90 degrees Celsius. Here the dirt, pigments etc. are removed. The clay particles in the oil are then removed. Similarly, bleaching is carried out by oxidation of oil, which is obtained through a stream of hot air at high temperatures.

### 2) Refining:

This is a technology that is rarely used in the manufacture of pure soaps to refine the oil by treating it with alkali to remove free fatty acids.

### 3) Deodorization:

This is a costly process, in which a superheated vapor stream passes through the oil. Considering the three processes of making soap, the hot and cold processes, the first of these three processes is saponification



## Soap Manufacturing Processes:

Considering the soap manufacturing processes, there are three basic process methods that are used industrially.

- 1) Cold process (the reaction takes place substantially at room temperature)
- 2) Semi boiled process (the reaction takes place near the boiling point)
- 3) Hot process/ Fully boiled process (the reactors are boiled at least once and the glycerol is recovered)

These three processes differ mainly in the saponification temperature. We will discuss more about this in the saponification step. From these processes, the cold process and the hot process are the most commonly used. In these three processes, soap production is mainly done in four steps.

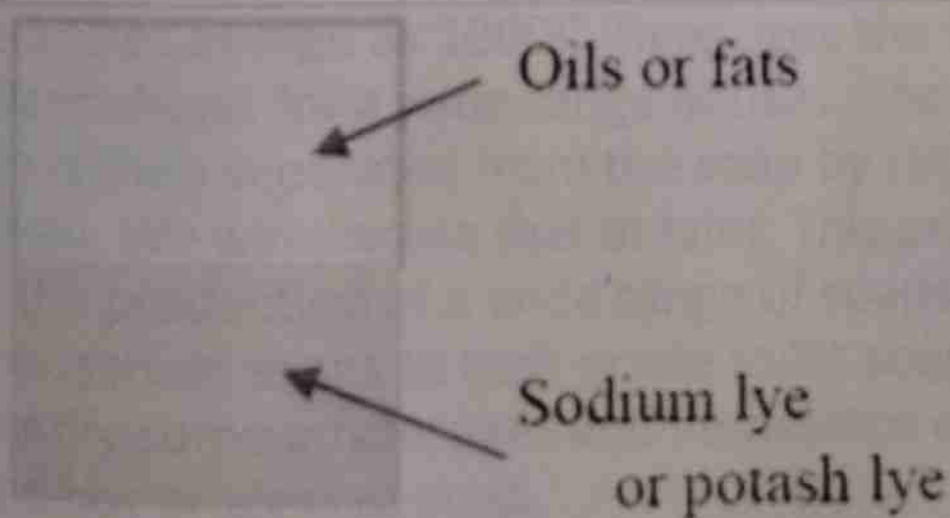
- 1) Saponification
- 2) Glycerin removal
- 3) Soap purification
- 4) Finishing

## 1) Saponification:

Let's first consider the general process of saponification step.

The refined oils or fats with soda lye (  $\text{NaOH(aq)}$  ) or potash lye (  $\text{KOH(aq)}$  ) in the reaction chamber. Sodium hydroxide or potassium hydroxide granules are not used here and only aqueous solutions are used. First sodium hydroxide is taken and dissolved in water. Here, too, some heat is generated and released. Similarly, when sodium hydroxide reacts and becomes inert, heat is released freely.

In the reaction chamber, the reaction chamber consists of two layers of sodium lye or potash lye and oils or fats. The interface here reacts to lye and oils or fats. In this reaction chamber, there is a constant stirring of reactors.



It breaks down into small droplets in the reactant, increasing the surface area of the reactant molecules. At this point, the reaction rate increases as the surface area of the reactors increases.

Then the saponification process takes place quickly and effectively.

Soap production can take place in three main processes, as mentioned earlier, depending on the temperature at which the saponification takes place in the reaction chamber. Let's now talk about those processes which are cold, semi-boiled and hot processes.

### **1.1) Saponification: Full Boiled Process / Hot**

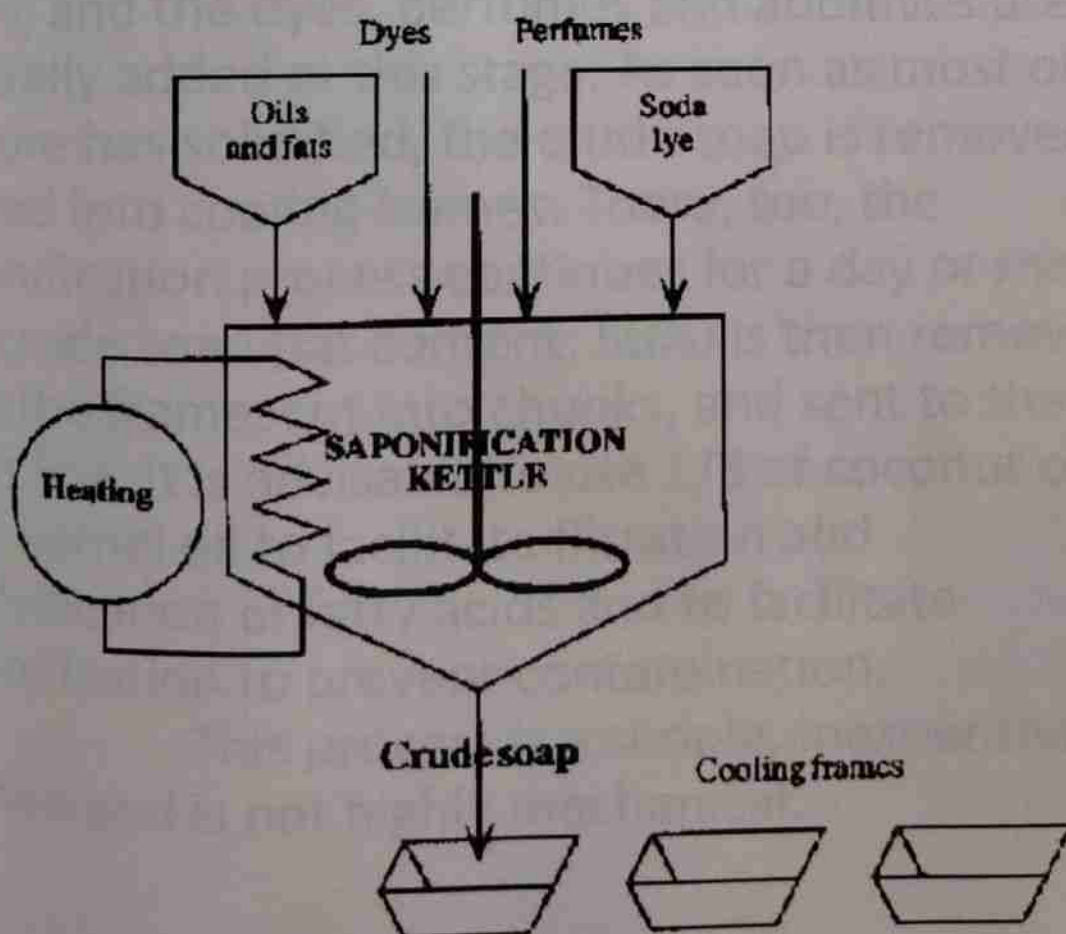
#### **Process:**

This process is slightly different from the semi-boiled process. In this process, the saponification reaction usually takes place at temperatures as high as  $100^{\circ}\text{C}$ . Here, too, the fat ingredient allows for a wide range of uses. The glycerin is then separated from the soap by rinsing with alkali. We will discuss that at later. This process allows the production of a wide range of soaps, from basic household soaps to high-grade toilet soaps. we can identify some advantages and limitations of the cold and hot process of soap.



## 1.2) Saponification: Semi-Boiled Process:

This process differs from the cold process in that it uses a heated coil to heat the saponification mixture to a temperature of 70-90°C. This causes the saponification reaction to complete faster. This process allows the amount of baking soda to be adjusted before removing the dirty soap. The process also allows for better recycling of product waste, better integration of additives, and wider selection of raw materials. The semi-boiled process does not discharge any effluent into the environment.



### 1.3) Saponification: Cold Process:

As the name implies, heat is not used to make soap. In the hot process, the soap is cooked at about 90°C and then the glycerin is removed. But in the cold process the soap is saponified at room temperature and does not heat or wash. That is, the removal of waste or the removal of glycerin produced is not included in this process.

The cold process is the most elementary batch process. This process is a relatively long process compared to the hot process. The mixture is kept vigorous agitation for approximately 2 hours, and the dyes, perfumes and additives are generally added at this stage. As soon as most of the mixture has solidified, the crude soap is removed and poured into cooling frames. There, too, the saponification process continues for a day or more. The crude soap (fat content: 58%) is then removed from the frame, cut into chunks, and sent to the finish line. It is advisable to use 1/3 of coconut oil or palm kernel oil to facilitate filtration and emulsification of fatty acids and to facilitate saponification to prevent contamination.

This process is a simple, inexpensive method and is not highly mechanical.

## 2) Glycerin Recovery in Soap Production:

The final mixture obtained after saponification contains two parts, a solid zone, and an aqueous zone. Considering the aqueous zone, its alkalinity is low because of the reaction of sodium hydroxide. Also, glycerin is dissolved in aqueous phase. Also, a small amount of soap is dissolved and slightly ionized. Glycerin is more expensive than soap, so glycerin is removed. The amount of glycerin left over gives the soap a smooth and soft texture. Most of it is set aside for the production of more value-added beauty products.

The mixture obtained after saponification is in the following equilibrium. After saponification equilibrium. If  $\text{Na}^+$  is added to the aquifer, the equilibrium reaction is reversed to minimize  $\text{Na}^+$  according to the Le Chatelier's principle. At this point, the density of the glycerol increases and the density of the soap decreases.

The soap then rises to the top and glycerin deposited on the bottom. Glycerin is recovered from the bottom of the tank. Here the glycerin is separated by a difference in density. A concentrated brine solution is usually added to the aqueous zone as a  $\text{Na}^+$ .



### 3) Soap Purification:

The mixture obtained by removing glycerin further contains impurities such as  $H_2O$ ,  $NaCl$  and  $NaOH$ . Therefore, in this step, the resulting mixture is centrifuged. That is, the mixture is further rotated with the impurities at high speed in a perforated vessel. It removes most of the water and salt that are the main product. But the final soap product contains about  $NaCl$  0.5% (w/w).

There may be further unreacted sodium hydroxide. Sodium hydroxide can cause itching of the skin and damage to the delicate tissues of the eye. Therefore, any remaining sodium hydroxide should be removed. Sodium hydroxide can be removed by neutralizing existing caustic soda by adding a weak acid such as citric acid. In addition to citric acid, phosphoric acid can also be used as a weak acid for this process.

#### 4) Finishing:

By cleaning the soap (the soap from the third step) is heated to a temperature of about 120°C. Then, the soap is sprayed into a low-pressure chamber. Next, the water in the soap particles evaporates. That is the temperature of the soap decrease by absorbing the temperature of the soap particles. Then the soap is deposited. That is, dry soap is produced. Dry soap is about 12% (w/w) water. Next, the evaporated water is removed. Fragrances, fillers, pigments, preservatives, etc. are then added.

##### 4.1) Adding Salt to soap:

Hard soap can be made by adding salt to soap. That is, it can be used as a salt filler.

##### 4.2) Additives in soap:

These products are added to soap in order to either increase the quantity or to give it a hard consistency. For that purpose, usually added kaolin or clay or starch or silicates of soda or potassium etc. Also, for produce transparent soaps, add additives like alcohol, sugar, and glycerin.

##### Adding colors to soap

##### 4.3) Scents:

The use of various chemical compounds and uses the extract from plants such as citrus and limes used as fragrances.

Industrial processes can actually be classified based on the process output as:

- 1) Continuous process
- 2) Batch process

Lets consider these two processes.

### Continuous Process

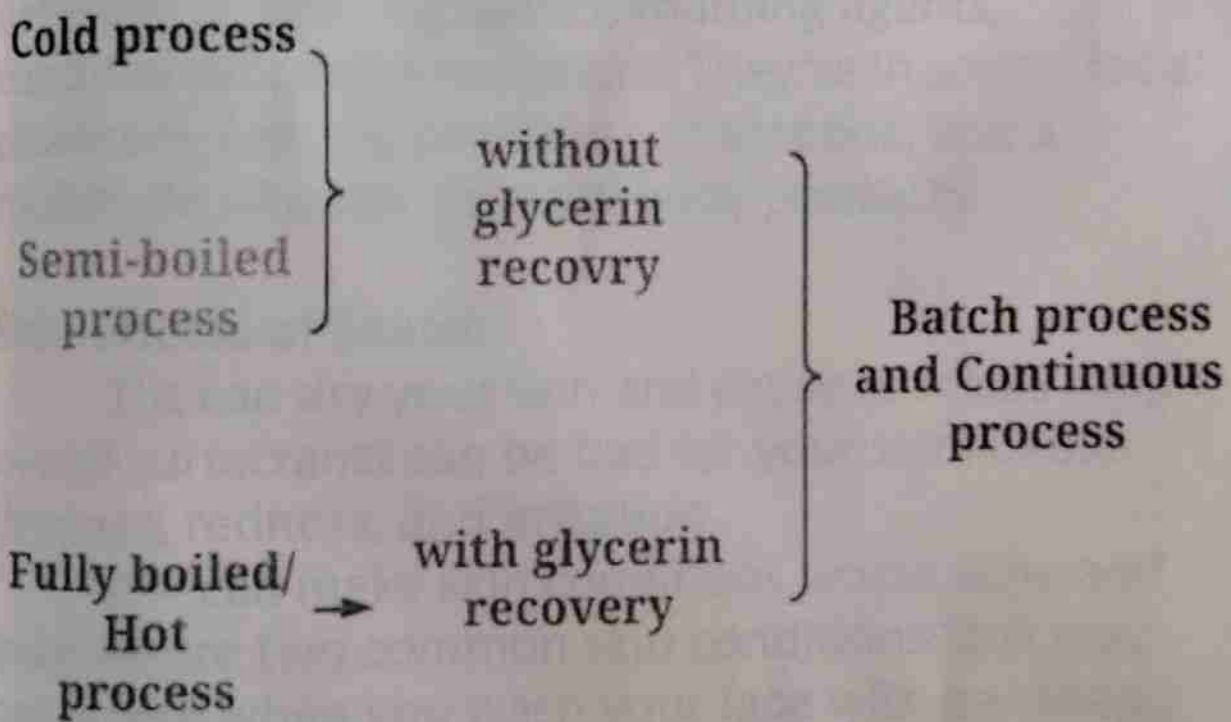
Here the main reactants or raw materials is continuously supplied to the reactor or mixer. Then products are given continuous even after a certain reaction or process. Continuous transport for many applications saves costs, energy and time. Here a large number of products are obtained. This method is often used in industrial production.

### Batch Process

A process consisting of one or more sequences of steps to be performed in a specific sequence. Here the raw material is supplied all at once and the results are given after a reaction or a certain process. This process must be repeated. A whole unit of products is produced at one time.



The above all processes can be finally represented in the soap manufacturing process.



## Uses of Soaps:

1) Surround and dissolve dirt and oil so it's easier for water to wash them away  
1) Remove dead skin cells from the epidermis (the outermost layer of skin)  
Bind to and over-hydrate healthy proteins, making them swell with excess water

2) Functions of Surfactants  
Surfactants act as detergents, wetting agents, foaming agents, conditioners, and emulsifiers. They're in soaps, facial cleansers, lotions, perfumes, shampoos, and a multitude of other hair and body products.

## Side effects of Soaps:

1) It can dry your skin and cause wrinkles  
soap-based surfactants can be bad for your skin. Cause dryness, redness, and irritation.

2) It can make skin conditions worse  
acne and eczema are two common skin conditions that may get worse when you wash your face with bar soap. Part of the reason lies in the health of your skin microbiome,<sup>5</sup> but other actions of soap-based surfactants play roles, too.

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Thank  
you!



॥ न हि ज्ञानेन संपन्नं । पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha

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## CERTIFICATE

This is to certify that the Training report entitled,

**Project Name : One Day Study Report**

Is submitted by,

**Student Name : Joshi Bhakti Dattatray**

For partial fulfillment of Master of Science in Analytical Chemistry as per requirement of SNDT Women's university, Mumbai for the academic year 2022-23 under the guidance of guide name (Mr.Babar.A.M Sir)

Guide name & Sign.

(Professor Mr.Babar.A.M Sir)

Co-ordinator

M.Sc. Co-ordinator

Examiner

Principal

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SMVM, Paniv



Date:- 17/4/23





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# Acknowledgement

The visit opportunity I had with Insta vision laboratory was a great chance for learning and professional development.

I express my sincere gratitude towards principal Mr. Babar.V.V sir for giving permission for this industrial visit.

I would like to thanks Mr.Ajit Ekal sir director of Insta vision laboratory for providing me an opportunity to do the project under his guidance.

I would also like thanks to Mr. Babar sir and Miss. Chavan mam for there guidance and support .

Miss. Joshi Bhakti Dattatray

# Introduction

Insta vision laboratory Satara established in a 2017 it certified institute by ISO 90001 in a 2015 Insta vision laboratory gives theoretical and practical knowledge about QA, QC and R and D It give placement in more about 150+ pharmaceutical company .(Cipla, Emcure, FDC ,Lupin, Rubicon USV etc.) Insta vision laboratory provide guidance about interview cracking, professional , personality development workshops.



## Dissolution test Apparatus



The most commonly used apparatus defined by the Pharmacopoeias to measure the dissolution rate of solid dose forms are the basket and paddle. The basic dissolution apparatus consists of a covered cylindrical vessel with a hemispherical bottom, typically holding 1000 mL of simulated gastric juice. The vessel is immersed in a water bath capable of maintaining the temperature of the vessel contents at 37 °C. For the basket method, the tablet or capsule is constrained in a cylindrical basket, constructed of sieve mesh, of defined proportions. The basket is attached to a metal drive shaft, positioned so that the bottom of the basket is 25 mm from the bottom of the vessel.

### **Principle –**

Dissolution is the process in which a substance forms a solution. Dissolution testing measures the extent and rate of solution formation from a dosage form, such as tablet, capsule, ointment etc.

## Disintegration test Apparatus



The Apparatus consist of a basket rack assembly 1 litre basket thermostatic arrangement for heating the fluid and a mechanical device for rising and lowering the basket in the immersion fluid at a constant frequency rate. Basket rack assembly the basket rack assembly is a rigid and support six cylindrical glass tube  $7.5 \pm 2.5$  mm long 21.5 mm in internal diameter and with a wall thickness of about 2 mm. The tubes are held vertically by two superimposed transparent plastic plates  $90 \pm 2$  mm in diameter and  $6.75 \pm 1.75$  mm thick perforated by six holes having the same diameter as the tube the holes are equidistant from the centre of the plate and are equally spaced from one another. Attached to the Underside of the power plate is a woven stainless steel wire cloth with a plane square where with  $2.0 \pm 0.2$  mm mesh aper and with a wire diameter of  $0.615 \pm 0.045$  mm the upper plate is a covered with a stainless steel disc for perforated by six holes each about  $24 \pm 2$  mm in diameter which fits over the tubes and holds them between the plastic plates.

## Digital melting point



### DIGITAL MELTING POINT APPARATUS Model : CDMP-300

Melting Point Apparatus measures the melting point of a substance i.e. the temperature at which the state of the substance changes from solid to liquid. The actual melting point is an indication of the purity of a substance and hence an ideal tool for the quality control of medicines, perfumes, dyestuff and other organic crystalline substances.

- Photo Electric detection
- Large Backlit LCD displays.
- Measurement of 3 samples simultaneously
- Display of initial and final melting points.
- Calculation of average value of initial and final melting point.
- Capillary sample tube as stipulated by pharmacopoeia
- Measuring Range of Melting point : Ambient to 300°C
- Resolution : 0.1°C
- Rate of heating(°C/min) : 0.2,0.5, 1, 1.5, 2 3, 4,
- Accuracy : +0.5°C upto200°C, +0.8°C from 200°C to 300°C
- Heating time (50 to 300°C) : 3 min Cooling time( 300 to 50°C) : 5 min



## Digital density meter



Digital density meters is based on Archimedes' principle, combined with the microelectronics technology. The liquid sample is placed into an oscillating U-tube, and measure/calculate the density of sample. The measurement is started since the exciting vibration of the U-tube, and the frequency is measured by a piezoelectric or electromagnetic device with conversions. Since the U-tube oscillation frequency will be related to the mass of sample. When the vibration frequency and the density is simply a linear relationship, so, measuring the vibration frequency of oscillating U-tube result the accurate density value.

Density meters are instruments that measure the density of a sample liquid or gas. Digital density meters are used in the pharmaceutical, petroleum, chemical, and food and beverage industries for quality control and in research and development. Density meters work by measuring the oscillation of a glass tube that contains the sample.

## U.V visible spectroscopy



Spectroscopy is the branch of a science that deals with the study of interaction of electromagnetic radiation with matter. Spectrometer is an instrument design to measure the spectrum of a compound. Instrument used to measure the absorbs in UV (200-400nm) or visible (400-800nm) region is called UV v visible spectrophotometer.

**Principle-** the principle of UV visible spectroscopy is based on the absorption of a ultraviolet light or visible light by chemical compounds which result in the production of a distinct spectra. Spectroscopy is a based on the interaction between light and matter

**Application** UV /Visible spectroscopy is routinely used in analytical chemistry for the quantitative determination of diverse analyte or sample, such as transition metal ions, highly conjugated organic compounds, and biological macromolecules. Spectroscopic analysis is commonly carried out in solutions but solids and gases may also be studied.

## HPLC -High Performance liquid chromatography

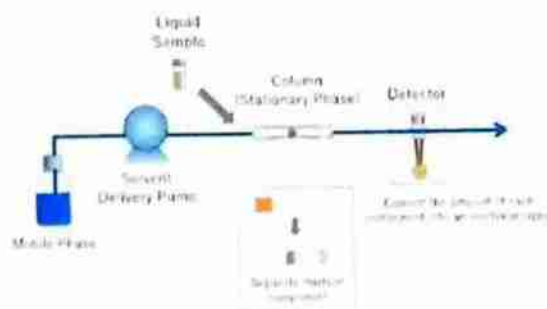


Fig 1 Overview of HPLC

High Performance Liquid Chromatography (HPLC) is a process of separating components in a liquid mixture. A liquid sample is injected into a stream of solvent (mobile phase) flowing through a column packed with a separation medium (stationary phase). Sample components separate from one another by a process of differential migration as they flow through the column.

**Principle** -The resolving power of chromatography column increase with column length and the number of theoretical plates per unit length. Since the number of theoretical plates is connected to the surface area of stationary phase is a follows that the smaller the particle size greater the resistance to eluent flow. As the result of the Flow rate are creatively low and better band breading active.

**Application** -there are two different types of inorganic component can be analyse by HPLC technique. It is used in a forensic chemistry . Natural and synthetic pharmaceutical drug analysis the importance use of HPLC these area are in the production development and product control.

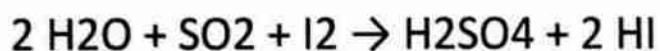


## Karl Fischer titration



Karl Fischer titration is a classic titration method in chemical analysis that uses coulometric or volumetric titration to determine trace amounts of water in a sample. It was invented in 1935 by the German chemist Karl Fischer.[1][2] Today, the titration is done with an automated Karl Fischer titration

**Principle** The elementary reaction responsible for water quantification in the Karl Fischer titration is oxidation of sulphur dioxide with iodine:



This elementary reaction consumes exactly one molar equivalent of water vs. iodine. Iodine is added to the solution until it is present in excess, marking the end point of the titration, which can be detected by potentiometry. The reaction is run in an alcohol solution containing a base, which consumes the sulphur trioxide and hydroiodic acid produced.

# Conclusion

Insta vision laboratory visit was an amazing and great experience .

We got the theoretical knowledge about the working machine and the various instruments .

We are thankful for all our faculties for organizing such information for us.

Dr.Ajit Ekal sir guidance us







॥ न हि ज्ञानेन सदृशं ॥ पवित्रमिह विद्यते ॥

Shriram Shikshan Sanstha's  
**Shriram Mahila Vidnyan Mahavidyalaya,**  
**Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113  
(Affiliated to S. N. D. T. Women's University, Mumbai)

**DEPARTMENT OF CHEMISTRY**

Roll No.	03	Exam Seat No.		Date:	31/03/2023
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**CERTIFICATE**

This is to certified that Miss Bankar Priti Tanaji

Has satisfactory completed the required study tour report of Chemistry Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in T. Y. B. Sc.

*Shogal*  
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# **STUDY OF MILK INDUSTRY 2022-23**

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## 1)ACKNOWLEDGEMENT

We have immense pleasure in presenting this project on dairy industry. The subject is an interesting one. It gave us an opportunity to have detailed study on the subject and showed how things work on the subject and showed how things work in the practical world. We come to understand and analyze the importance and rule of Indian dairy industry.

We had a great time working on the project and we have provided information to the fullest of our knowledge and findings.

We wish all the best to entrepreneurs who want to explore and do the dairy business.

I would also like to thank **Mr. Ghadage sir**, the manager of Sonai Dairy for guiding us throughout this visit, I would like to thank my institution and our **principal Mr. Vinod Babar Sir** and I would also like to thank my teachers, **Prof. Kolekar Madam** and **Prof. Ghogare Madam** and my faculty members without whom this project would have been distant reality. At last, I feel to acknowledge my parents for the warm love and inspiration that was received from my beloved parents.

Place : Ghokhali

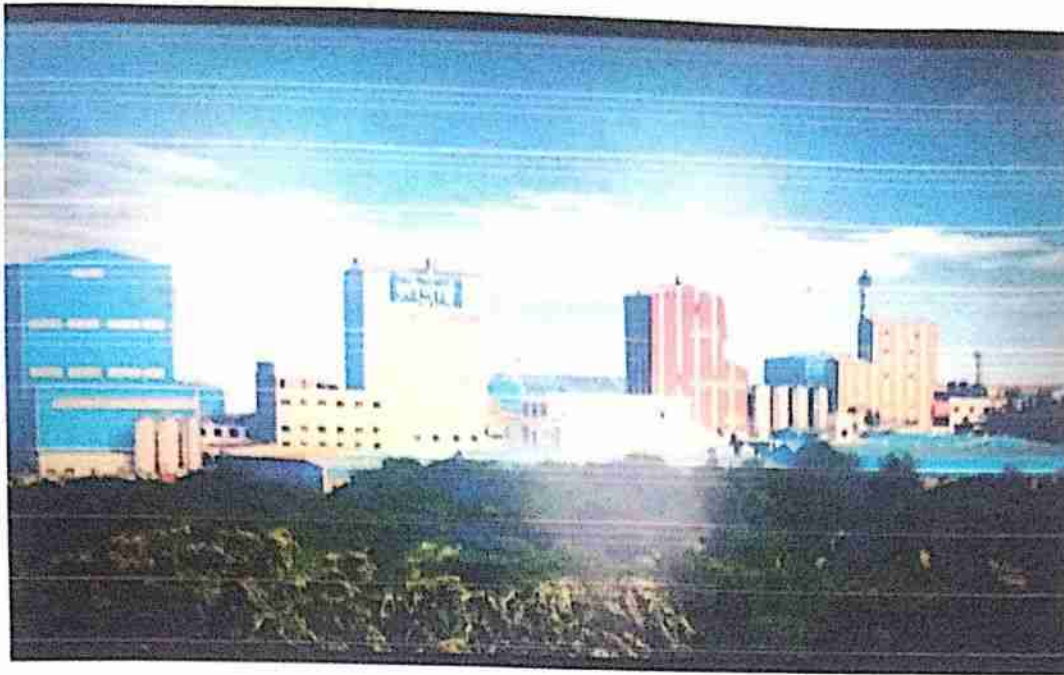
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# STUDY OF MILK INDUSTRY -2022-2023





## 2) INTRODUCTION :



Milk production in India has doubled and has reached the 11.2 million tones a year thus becoming India's No.1 farm commodity. The current market size of the dairy industry is INR 2.6 trillion and is estimated to grow up to INR 3.7 trillion by 2015. So there is stiff competition among the business organizations dealing with milk and milk products to become the market leader.

The players are putting their strenuous efforts to retain the existing consumers and capture the new market and for this milk sale on card system is one of the methods 'Sonai Dairy' is not far behind in the competition and hence the objective of this project is understanding of milk sales on card system with home delivery as well as through retail. This helps in getting practical experience about marketing research, channel distribution, sales and developing new strategies.

This project will help the company in getting idea about the awareness of card system to consumers and retailers and to analyse the factors which influence consumer to buy or not buy milk on card system. This project also reveals the benefits and problems faced by retailers and consumer on card system. It also makes strategies to retain their existing card holder consumer and make new consumers.



### 3) ADDRESS OF DAIRY :

- 'Sonai Dudh Dairy', Gokhali, Tal- Indapur, Dist- Pune.
- Year of Establishment – 2002
- Distance of city - It is 39.3 km away from Paniv, Tal- Malshiras, Dist-Solapur. It takes 1 hr and 1 min to reach to the 'sonai dairy'.
- Total area of dairy : 'Sonai dairy' industry spread across 40 acres of land in Indapur, Tal – Indapur, Dist- Pune.
- Catchment area from milk collection : From the all villages in indapur taluka and other different taluka.

#### 4) OBJECTIVE :

- To develop the students as skilled professionals through. Practical work experience in real life situations
- To develop technical and managerial competence in students in commercialization of technologies
- To mould the students as job provider rather than job provider rather than job seekers.
- To train the students in high quality entrepreneurship Skills in all the aspects of enterprise management.
- To adopt and face the challenges given by the boss
- To Play a vital role for an organization to achieve the target/goal.
- To give quality to the consumers and satisfy the nutrition needs.

## 5) QUALITY POLICY :

Our quality and food safety policy specifies the degree of excellence as :

- All activities of the organization is carried out in a systematic manner in accordance with defined and documented policies an procedures.
- They are committed to provide maximum return to producer members.
- They should be visible and auditable
- Consistently striving to full fill customer expectations with regard to products quality, safety & Innovation.
- Consistently up grading the systems by establishing suitable measurable objectives at levels and reviewing them out at suitable intervals for its suitability.

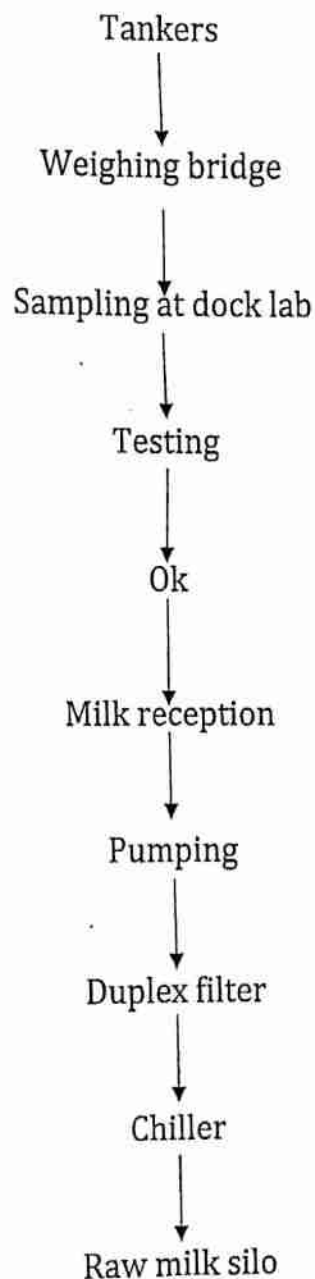
They know that quality is the responsibility of all personnel, and therefore they promote a quality culture within the organization by means of sharing information, communication, Learning, Personnel development systems. Quality and food safety management system.



## 6) RMRD : RAW MILK RECEPTION DOCK SECTION

Milk reception at ' Sonai' Dairy is fully atomized and milk is received by tankers in three shifts as per the production need . There are three milk reception stations each having capacity of 10,000 lit/hr. The following process is carried out at reception dock

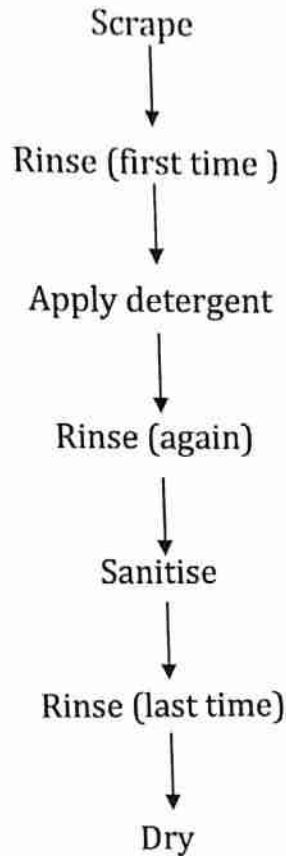
### Flow sheet of milk reception :



## Cleaning of cans :

When finished milking, rinse equipment in luke warm water, then wash in hot soap or detergent water rinse with hot water then and dry it re-sanitize with bleach water, warm or cold, your milk should test fresh and clean for one week if you follow these guidelines.

### Flow chart of cleaning of can's :

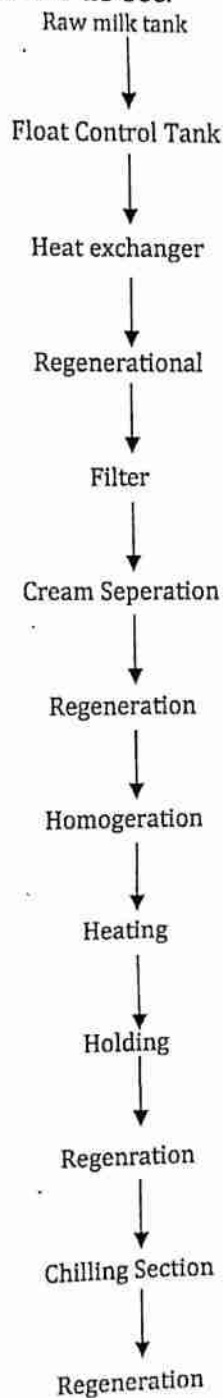


## 7) MILK PROCESSING DEPARTMENT :

Processing section is the heart of any dairy. Hence to preserve the milk and improve its nutritional and sensory quality by subjecting it to different process depending upon the final process. Processing section performs various operations such as clarification, Pasteurization, Standardization, Chilling, Packing.

### a) Pasteurization.

Pasteurization is most common process used to destroy bacteria in the milk. In pasteurization milk is heated to a sufficient temp to kill the pathogenic bacteria in milk. The pasteurization temp is  $76^{\circ}\text{C}$  to  $78^{\circ}\text{C}$  for 15 sec.





## **b) Homogenization**

In dairy industry homogenization is used principally to prevent the formation of cream layer in milk by reducing the diameter of fat globule about 2 microns.

Two stage homogenization is carried out where pressure is first stage being 1500 Psi and in second stage 500 Psi and temp of homogenization is 50-55<sup>o</sup>c.

## **c) Chiling**

Milk is chilled to extend its she if life by a few days due to chilling the growth of micro organism slowed down .The temp of chilling at sonai dairy is in between 3-4<sup>o</sup>c.

## **d) Standardization**

Standardization refers to the adjustment of FAT and SNF content of the milk. Standardization is important to manufacture product with desire composition in order to fulfill the specified standard. Standardization involves the blending of two or more products which act as source of FAT or SNF.

## **e) Milk Sterilization**

In pasteurization, milk receives mild heat treatment to reduce the number of bacteria present in sterilization milk is subjected to intense heat treatment that ensures almost complete destruction of microbial population The product has a higher she if life than pasteurized milk.

## **f) Milk Packing Section**

- **Packing of fluid Milk :** ( Toned milk and cow milk )

Packing of liquid milk is done through from dill seal machine of which eight for bill seal machines are used for packing seven of which double heated and one is single headed machine. Milk is packed in co-extruded multiage polyethylene milky white film, printed in high blue, dark blue, green and red.

## 8) PRODUCTIVE DEPARTMENT -

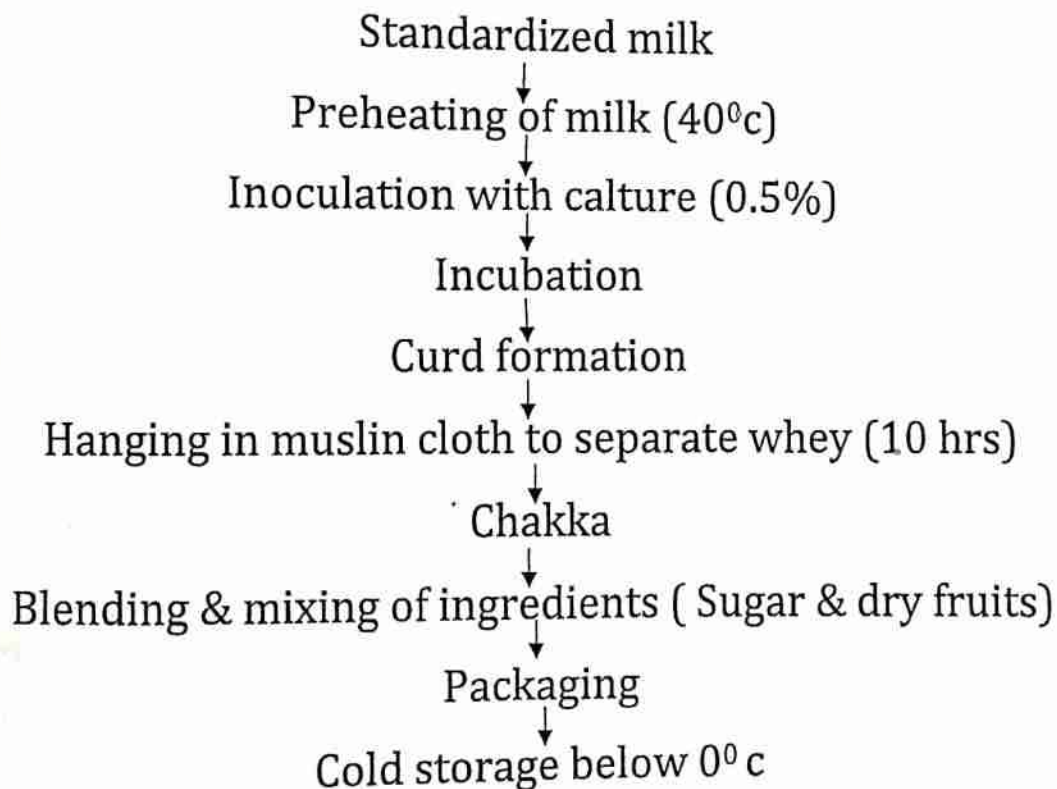
### Dairy products

Products of 'Sonai Dairy'

1. Shrikhand
2. Dahi (card)
3. Lassi
4. Paneer
5. Flavoured milk
6. Ghee

**a) Shrikhand** : Shrikhand is a popular dessert made from dahi it is available in flavor such as elaichi, badam- pista etc. It is packed in 100gm, 250gm and 500gm cups.

### Flow chart of shrikhand



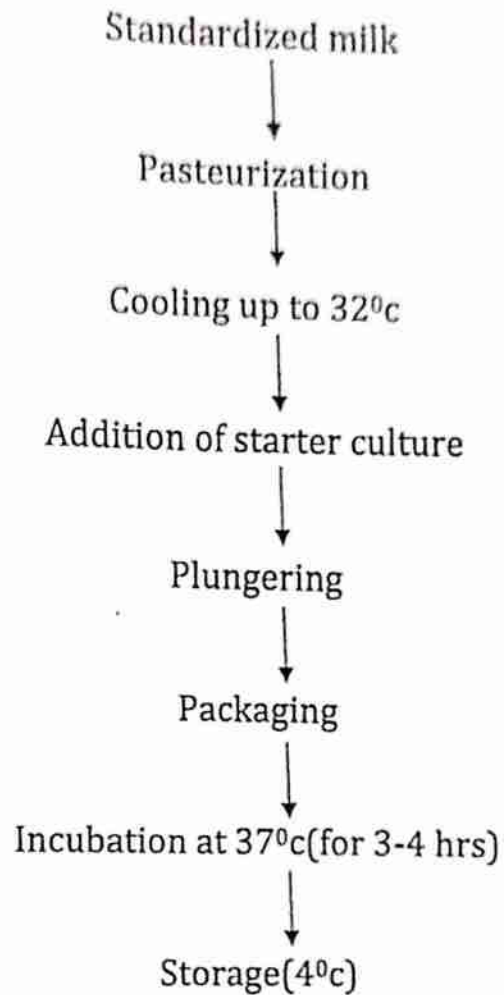


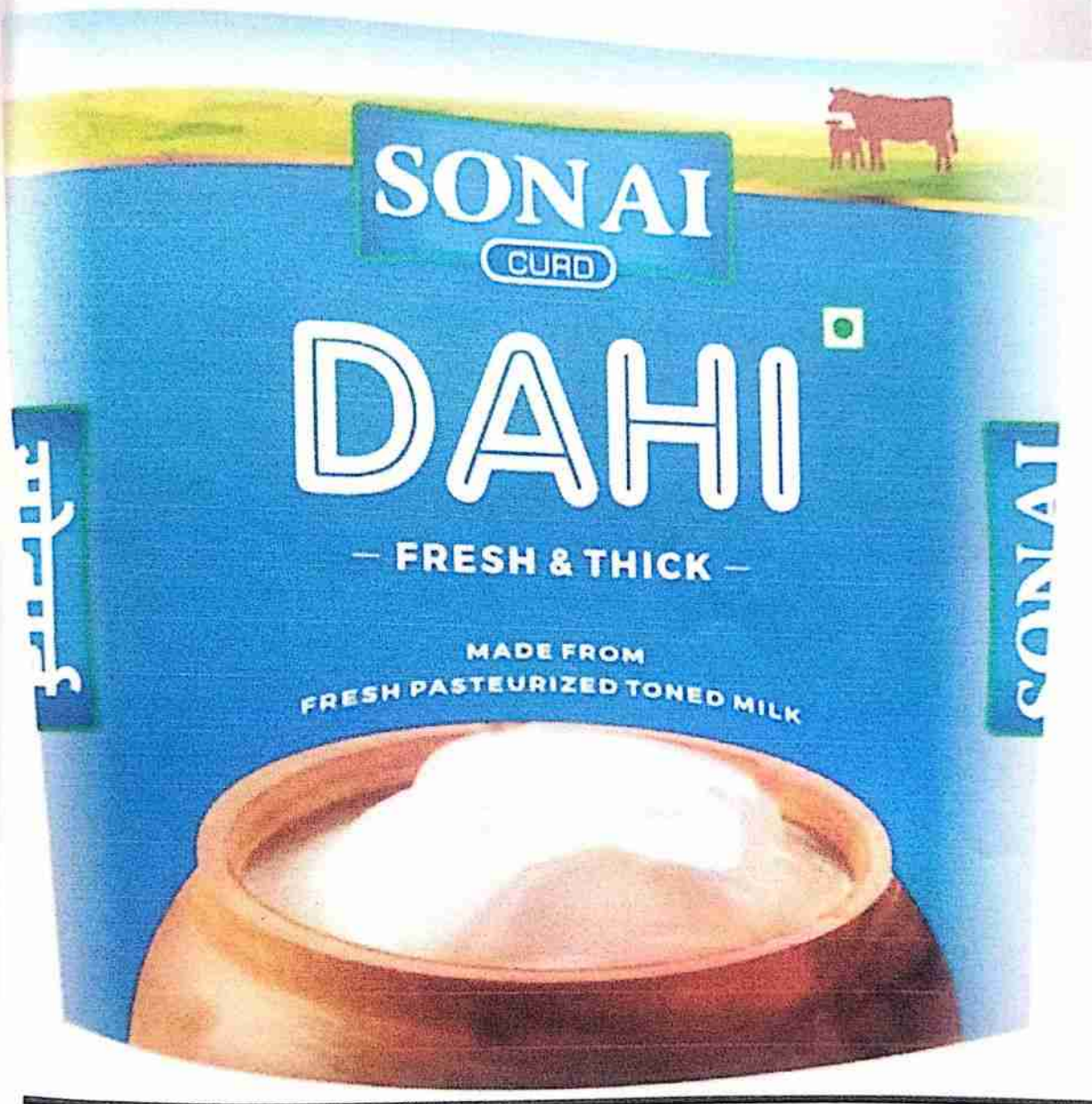


## b) Dahi (curd) :-

Sonai produces dahi under the brand name of Dahi. It is packaged in cups of 100 gm, 200 gm, 400 gm. Dahi at sonai is made from whole or toned milk.

Flow chart of Dahi :-

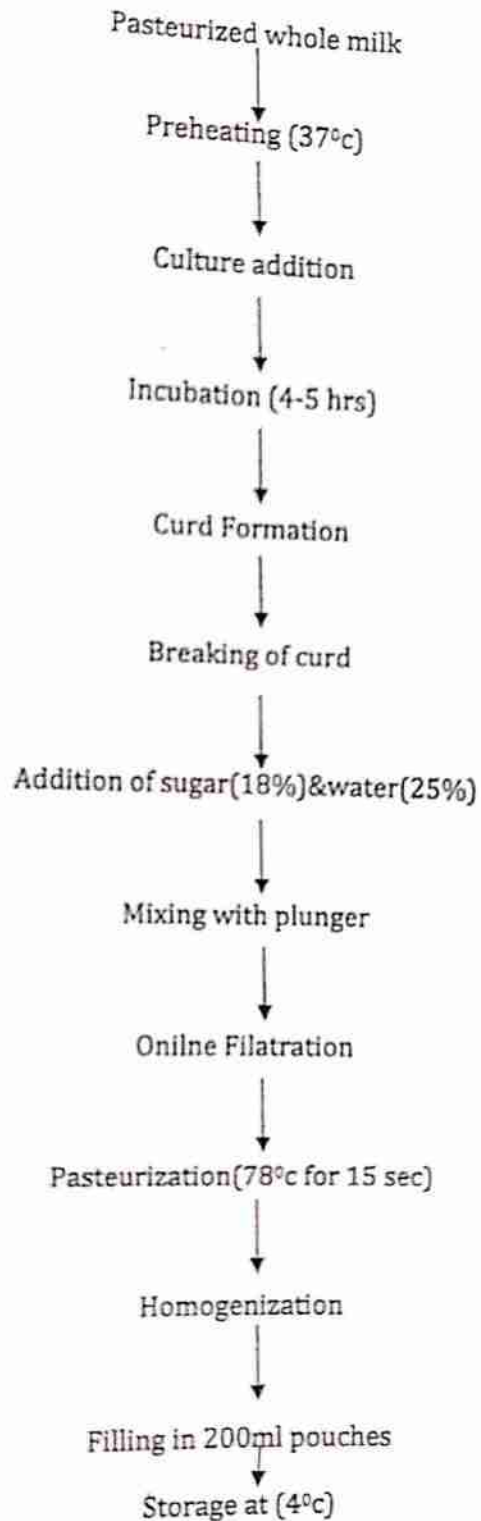




### C) Lassi :-

Lassi is a drink based on dahi, It is sweet in taste and contains a much higher percentage of solids. Since it is made from whole milk. The brand name of lassi produced by sonai is 'Sonai Lassi'. It is packed in 200ml pouches.

Flow chart for Lassi :-





AN ISO 9001:2008, ISO 22000:2005 &  
HACCP Certified Company.

**SONAI**

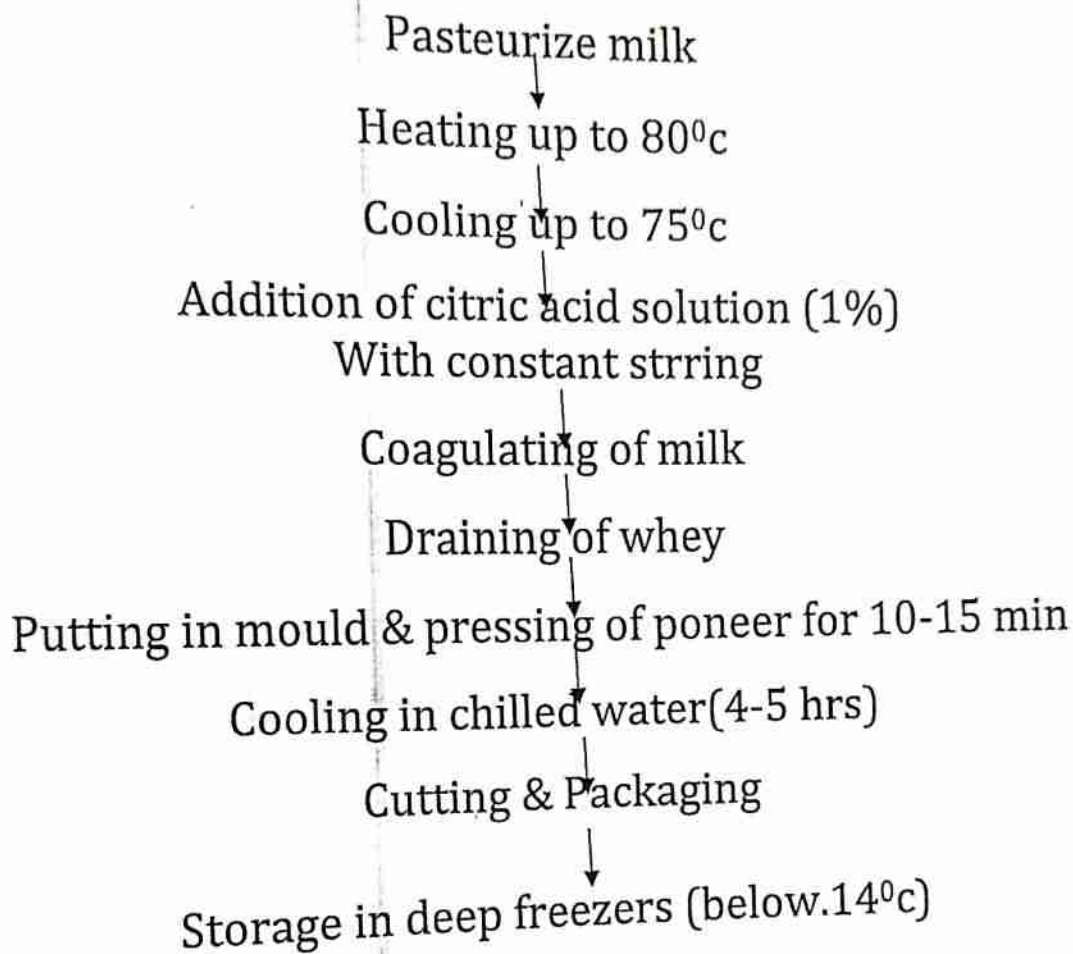
*Tasty Bhi, Healthy Bhi*

*Cool  
Lassi*

#### d) Paneer :-

Paneer is a coagulated milk product also known as cottage cheese. Sonai markets the cubs of panner in 200gm packs.

Flow chart for Paneer :-



FROZEN

SONAI

# Malai Paneer



Soft & easy to cook!

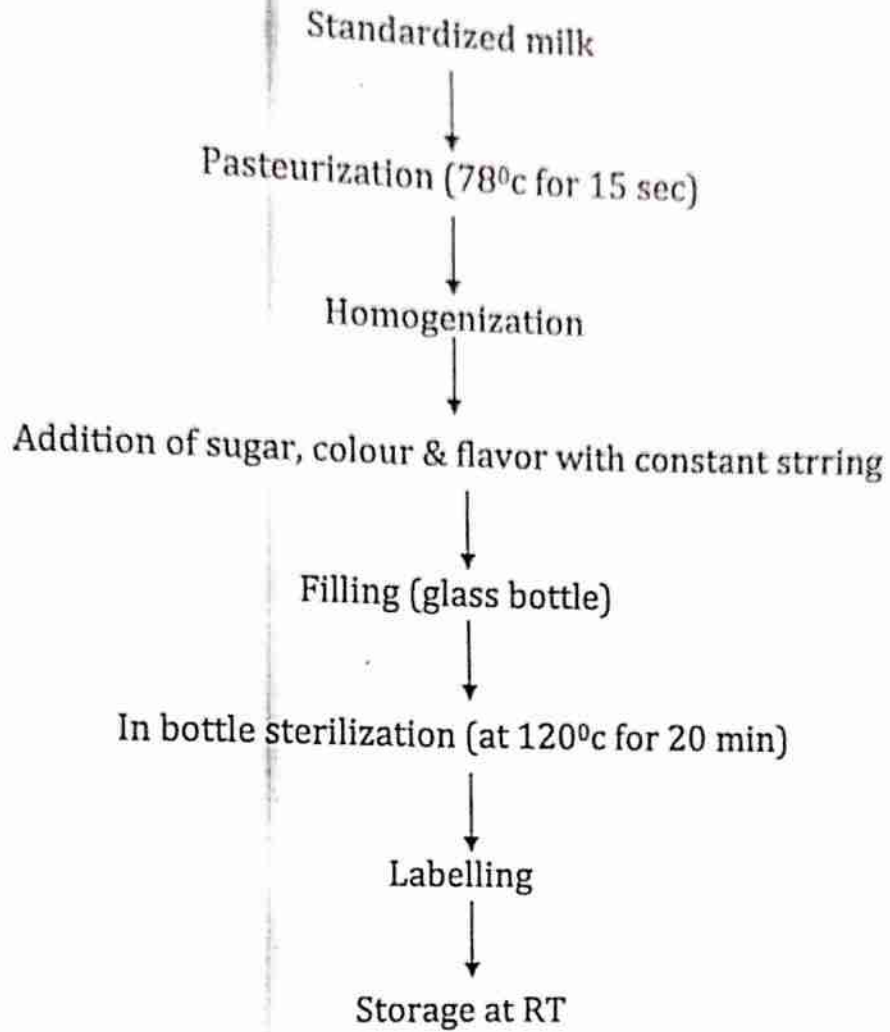




### e) Flavoured Milk :-

Sonai produces flavoured milk in Badam, Pista, Kesa flavours.

Flow chart for flavoured milk :-

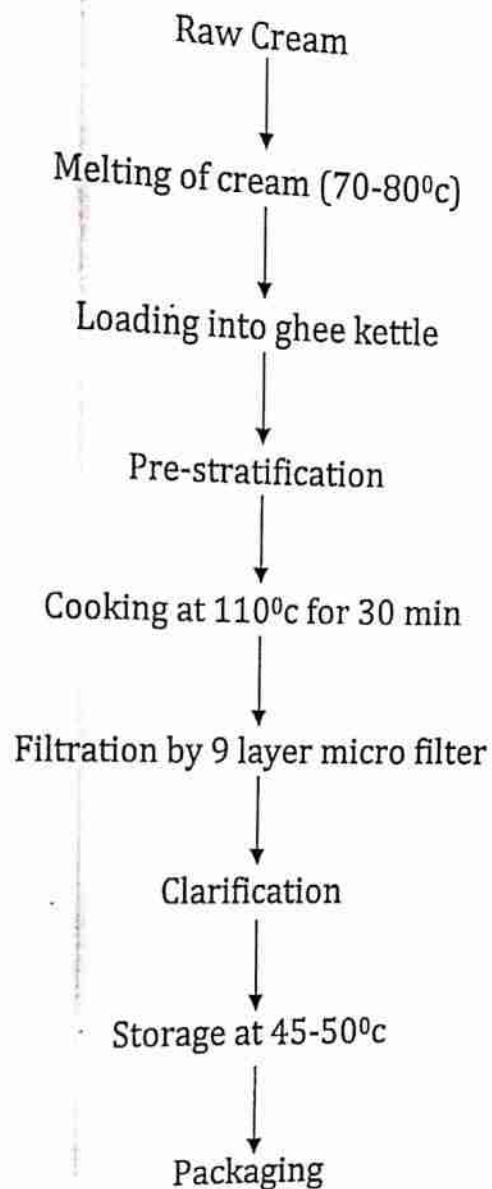




## f) Ghee/Butter

Ghee is defined as clarified butter fat or from cream to which no colouring matter is added according to PFA rules.

Flow chart of Ghee :-







## 9) QUALITY CONTROL DEPARTMENT -

Quality control department in this department product quality is checked by analytically and microbial.

In this department under two lab

- 1} Analytical
- 2} Micro biology

- I. Lab equipment
- II. Centrifuge
- III. Weighing balance
- IV. Dissector
- V. Hot air oven
- VI. Incubator
- VII. Auto clave
- VIII. Geber machine

- PH meter
- Hot plate
- Magnetic stirrer
- B.R. machine
- Thickness meter
- Milko scan
- Hot plate.

### 1) Analytical Lab :-

In this lab all milk product is checked & milk is used for processing before fat and SNF is checked in this lab.

Analytical testing of milk and milk product are follows.

A} Sensory quality of milk :-

1) Small test :- Smell & taste is checked with help of plunger milk in can is stirred & smell and taste is checked.

If any doubts smell & taste then COB test conducted

2) COB ( clot on boiling) :- Take 5ml milk sample in test tube clotted of milk at bottom of test tube this test is positive.

## B) Adwteration Test For Milk :-

### 1) Sugar :-

- Take clean pipet and test tube.
- Then pipet out 15 ml milk sample in test tube
- Add into 0.1 gm resorcinol powder.
- Add 1 ml hydrochloric acid and placed in bolied water at 5 min, then observe colour if red colour is observe colour if red colour is observed.

Result :- Sugar is present.

### 2) Salt :-

- Take clean test tube in it 5 ml 0.134% silvernitrate.
- Then add 1 ml of milk sample, Add 2-3 drops of potassium chloride & shake Well.
- Observe the colour milk sample i.e. become yellow.

Result :- Salt is present.

- 3) Detergent test :- Take test tube add 5ml milk sample add 0.5% bromocresol purple indicator after 10 min violet colour is observed.

Result :- Detergent is present.

- 4) Alcohol test :- Take 5ml of milk in test tube add an equal quality of 68% of alcohol  
Mix the content of test tube by inverting several times.  
Not any flakes or cloth  
The presence flakes or clot denotes a positive



## 10. BOILER HOUSE -



### Introduction -

Hon A steam generator boiler is closed Pressure vessel used to generate steam its Function Ts to transfer the heat produced by combustion. of fuel to water and ultimately to generate team, It consist of boiler shell / combustion chamber, greate furnace, heating surface, mounting and accessoies. The selection of type of boiler depends upon the capacity working pressure, steam pressure availability of fuel and weder, lead factor and initial cost, operating cost and maintains are cost.

In Sonal dairy 2 type of boiler are available like

1) Furnace oil used boiler [Horizontal]

2) Baggage used boiler [vertical]

-Furnace oil used boiler capacity is 5 tone and it's working pressure 10 kg/cm<sup>2</sup>

-Baggage used boiler capacity is 3 tone and it's working pressure is 7 kg/cm<sup>2</sup>

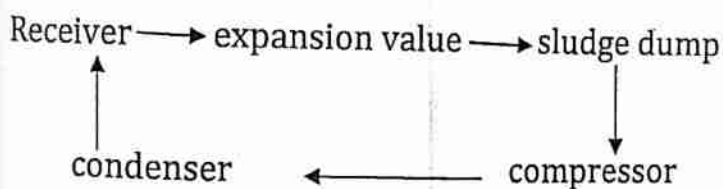
All the boiler are equipped with economizers to preheat the incoming water by utilizing the reaming heat of outgoing fuel gas.

## Refrigeration Section-

In this section different type of equipment used like

- 1) Plate Heat Exchanger
- 2) Ammonia Compressor
- 3) PHE condenser and coil canale sem
- 4) Ice bank tank
- 5) Receiver
- 6) Glycol chiller

## Refrigeration cycle-



## Glycol chiller -

In this system ammonia is used 1st refrigeration and glycol is 2<sup>nd</sup> refrigeration. It System mostly gives temperature 0<sup>o</sup>c to 50<sup>o</sup>c and it's worked same as refrigeration system and shell and tube glycol chiller is used.

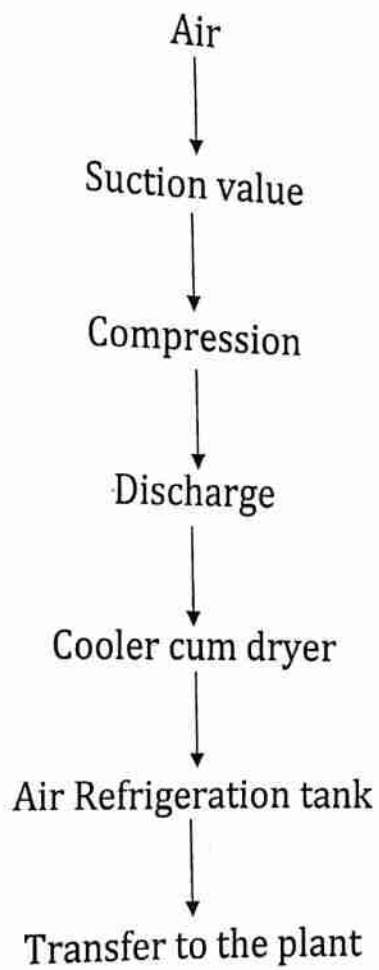
The main equipment used in this system like

- Cold water storage tank
- Hot water Storage tank air

## Compressor

Compressed air is one of most important thing for sonai dairy as all value pneumatically operated using the automation system.

## Working procedure of air compressor





## 11) ETP SECTION-

### Introduction -

The waste water treatment plant plays an important role in controlling environmental pollution Caused by industrial waste. The effluent of dairy plant is rich in organic degradable matter and has a very high biological oxygen demand value.

- Maharashtra pollution control board specification for treated effluent.

Sr. No.	Parameter	Value.
1)	COD	Max. 100 mg/lit
2)	BOD	Max. 30 mg/lit
3)	PH	Max. 5-5.9 mg/lit.

### Process Of ETP -

**Dairy** - Dairy is an industry where milk is processed and various milk products are manufactured.

#### Description of the process -

At dairies raw milk is received from various stations and processed. This process involves pasteurization, standardization, bottling etc. In addition to processing cream products (butter, ghee etc) milk powder and casein, raw milk is usually received in cans and tankers. and they are emptied and cleaned immediately in place itself.

## Procedure -

- 1) Take 20 ml diluted sample in COD Flask or tube. Add 10 ml 0.25 N potassium dichromate solution.
- 2) Add pinch of  $\text{Ag}_2\text{SO}_4$  and  $\text{HgSO}_4$ . Add 30 ml of sulphuric acid
- 3) Reflux at least for 2 hours on COD apparatus  $150^\circ\text{C}$  temperature.
- 4) Add 2-3 drops of ferroin indicator mix thoroughly and titrate with 0.1 N Ferrous ammonia sulphate, end point is greenish to red.

## 12) PLANT MAINTENANCE DEPARTMENT -

### Introduction -

There are 3 department in maintenance section

- 1) Mechanical department
- 2) Electrical department
- 3) Instrumentation and control.

### 1) Mechanical Department

This department is related with maintenance Of all the mechanical equipment, Machineries this department comes out both prevent as well as break down maintenance. Preventive maintenance include changed of gasket, water seal of pump, timely lubrication electric equipment which are costly as well as care of all moving parts in machineries and change belts to avoid break down.

### 2) Electrical department

This department is related with maintenance of electrical wiring power carrying lines or installation of new wiring. It's maintenance included the maintenance of light of whole plant to prevent any kinal of breaks down. Specially in complicated circuit of electric equipment which are costly as well as important for regular production and testing.

### 3) Instrumentation and control -

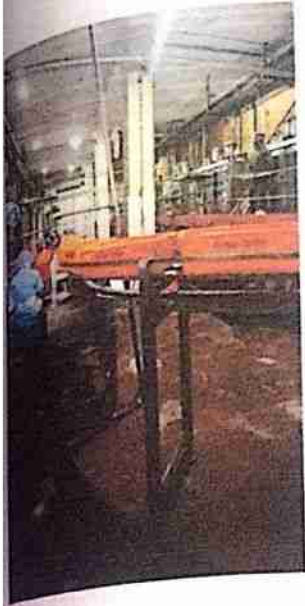
This is related with maintenance of entire electronics instrument this department also include both preventive and break down. Maintenance as part of break down maintenance.

- It perform the function of calibration of entire instrument like weighing scale Pneumatic value, and level indicator resistance temperature.
- Device and all other equipment regarding production and testing.



## 13) STORE DEPARTMENT -

### Introduction-



A) Receipt and issue of packaging material, Raw material etc

The work down involves -

Material receipt

Random sampling

Lab report

Issued to production section.

B) Dispatch of finished goods -

Finished goods receive through POI by Geo Net wt of product. challenge and gate pass prepared.

### • Operating procedure -

- 1) Issue of purchase requisition note PRN by user.
- 2) Sending PRN to purchaser section by store.
- 3) Contacting respective vender for procuring material.
- 4) Receipt action.
- 5) Issuing of purchase order.
- 6) Checking quality.
- 7) Keeping material in location.

## 14) CONCLUSION :

'Sonai Dudh Dairy' Ltd. Gokhali is an most modern technologies in certified dairy. Plant along with most modern technologies! is about Collaboration with best of the world's technologies in Collaboration is about to emerge as one of the most integrated and best care more over the Young and hard working work Force at sanai dairy claim to be one of the greatest and unique assess of this dairy with Proper Planning and Systematic execution of the sonai Ltd Program med in certainly going to more the Company to reach its top level in the market AS Q result it has achieved a identify in the dairy Field

It gives me immense Pleasure innate Satisfaction to express my deep grati tude to sonai dairy +td for my industrial Visit at the this prestigious industry was extremity Fruitful and I gained valuable Practical knowledge and experience in Production and marketing through this industrial visit Program. my knowledge about the various technologies involved in the Production of world class dairy Product has been greatly Enlightened my trust with this great establishment is sure to Provided us bright Future Prospects.

**THANK  
YOU**





"Nahi dnyanen Sadrushyam Pavitraniha Vidyaate"

Shriram Shikshan Sanstha's

**SHRIRAM MAHILA VIDNYAN MAHAVIDYALAYA , PANIV**

Tal. Malshiras , Dist. Solapur -413113

**DEPARTMENT OF ZOOLOGY**


Exam Seat No.

Date 09/11/2022


**CERTIFICATE**

This is to certify that Miss. Mutkule Pooja Ramchandhr.

\_\_\_\_\_ has satisfactorily completed the required Seminar / Project / PPT / Presentation , Prescribed by S.N.D.T. WOMENS'S UNIVERSITY , MUMBAI for A.Y. 2022-2023 in B.Sc. Part II in Zoology.

  
Sign. of Teacher  
H.O.D  
Dept. of Zoology  
S.M.V.M. Paniv



  
Sign. of Principal  
Principal  
Shriram Mahila Vidyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

TOPIC: \_\_\_\_\_

DATE: \_\_\_\_\_

AGRICULTURAL DEVELOPMENT  
TRUST, BARAMATI

KRISHI VIGYAN

KENDRA,  
(KVK)

BARAMATI

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2022 - 2023

At Post Malegoan, Khurd

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DATE: \_\_\_\_\_

Shriram Shikshan Santha's  
S.N.D.T Women's University Affiliated

Shriram Mahila Vidnyan Mahavidyalaya  
Paniv

Department of Zoology

Student Name :- Mutkule Pooja Ramchandra

Project Name :- Krushi Vigyan Kendra,  
Baramati

Roll No :- 31

Exam Seat No :-

Principal Name :- Mr. V.V. Babar Sir.

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MYS.M.R. Jamadar Madam

Date of visit :- 03/10/2022

Time of Departure :- 7:00 AM

Time of Arrival :- 6:00 PM

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# ACKNOWLEDGMENT

The entire tour report is completed under the guidance of Mr. V.V. Babar, principal of Shriram Mahila Vidyan Mahavidyalaya Paniv. I am very much thankful to him for his invaluable guidance & kind co-operation.

I am especially grateful to our visit co-ordinator Mr. S.S. Rede sir for their unmemorable guidance, co-operation, good advice, inspiration, hard work with kindly.

I am also especially grateful to Mr. S.S. Rede sir Head of Department of Zoology for their unsewered work & help.

It is my pleasure to thank to Mrs. Jamadar mam for good advice, guidance & co-operation.

It is my pleasure duty to express helped me a lot of & encouraged me with their worthy blessings in completing my this tour report.

I am so much thankful to Mr. Chandrakant Date: Nikam sir & Sagar sir for giving invaluable & important information about aquarium, apiary & animal husbandry even at total KVK, Baramati.

Thank you so much!

By,

Ku. Mutkule Pooja Ramchandra

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## Introduction of KVK

Krishi vidyayan kendra, Baramati was established on 1st August 1992 under the affiliation of ICAR. From 1992 to 2008 the operational area of KVK was whole Pune district but after the establishment of new KVK in the Pune district, the operational area is reduced to the 7 tehsils of Pune district. KVK, Baramati is model Hi-tech & National Award Winning KVK of India working for farming community since 24 years for the development of sustainable agriculture. The aim of KVK is to reduce the time lag between the technology transfer from research institutions to the farmers field for increasing production, productivity & income from the agriculture & allied sectors on sustained basis. The vision of KVK is to be leading resource and knowledge centre of agricultural technology for the upliftment of the farming community. The mission is to deliver demand driven agricultural products & services by qualified professionals.

This kendra & host institute farm is situated at 6 km west of the Baramati city. This center has an area of 20 ha of land required for the technology assessment & demonstration while 24 ha belong to host institute from this total 44 ha land.

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the total land under cultivation & demonstration is 30.03 ha, dairy 1.6 ha, nursery 1.4 ha, polyhouse 0.40 ha. KVK & host institute building has occupied 3.4 ha, well & water storage tanks 2.4 ha and roads 4.77 ha of land. The demonstration farm is used for the on farm testing of new technologies. It is also used for the genesis of the good quality seed & seedlings.

The KVK possesses 110 acres of land that is fully under cultivation of crops relevant to the area. The main purpose of the farm is to demonstrate the latest agricultural practices. It also acts as a tool to do applied research on agricultural technologies & undertake trials before their transfer to farmers. The farm has the mother plants of horticulture crops such as Mango, Sapota, Guava, Anona, custard apple, Pomegranate, etc. Agronomical crops like soybean, onion, cotton, rice, sugarcane & wheat, etc. are grown. In the year 2012, KVK has established automation & fertigation unit through which water & fertilizers are provided to all crops on farm.



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# BIO-CONTROL LABORATORY

The KVK is not only giving technical information to the needy farmers but also providing several services & inputs that are needed for adopting the technology. KVK is dealing with problems faced by farmers and youth thus making them able to achieve livelihood security, employability and sustainability by increasing their productivity and profitability. This KVK not only deals with technology transfer but also provides basic services such as seed processing, fruit processing, soil testing, diagnostic service, telephonic information, mobile SMS, etc. Inputs like bio-fertilizers and bio-pesticides, seed inputs for animal management, grafts/saplings, etc. are also provided to the farmers.

Some of the important basic services provided by KVK are as under.



## • Productions of bio-fertilizer and bio-Pesticides:-

The bio-control lab was established by KVK in the year 2002 and the funding for it's establishment was received from NHM. It was strengthened in 2006 with new machineries. Various types of bio-fertilizers & bio-pesticides are produced in this lab and supplied to the farmers on no profit no loss basis.

Regarding bio-fertilizers, Rhizobium, Acetobacter, Azotobacter, phosphate solubilizing and potash mobilizing bacteria are produced in the lab, pertaining to bio-pesticide lab, KVK was producing Trichoderma, Paecilomyces, verticillium, Beauveria, Metarrhizium, Nattereria and pseudomonas on demand basis.

following newer initiative in bio-fertilizers and bio-pesticides have started.

- A combination product including Rhizobium, phosphate solubilizing bacteria and potash mobilizing bacteria is made available to the farmers.
- Another combination product including Rhizobium, Phosphate solubilizing bacteria and potash mobilizing bacteria is made available to the farmers.
- The bacterial culture of ferrous & sulfur solubilizing bacteria is made available to the farmers.



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- The newer bio-pesticide *Bacillus subtilis* is made available to the farmers which is effective against bacterial blight of pomegranate and Downey mildew of grapes.

- **Supply of Plant Protection Material :-**

Some of the plant protection materials are not available at grass root level. These materials are of cheap cost and farmers are often told to use these techniques to control the pest in an integrated pest management approach. Hence KVK started to provide the plant protection materials like HaNPV, STNPV, pheromone traps, sticky traps, neem oil, neem cake & powder at the cheaper rate.







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# ANIMAL

# HUSBANDRY

## 1] Poultry :-

Back yard poultry farming is a secondary income generating activity for the women, marginal & small farmers. Generally farmers are maintaining Deshi hens which give 60-70 eggs per year, adult weight of cock is only 1.5 to 2 kg. They are consuming egg & cocks are sold for meat purpose. Deshi birds are not vaccinated for most deadly diseases like Ranikhet & fowl pox hence, there is an outbreak of Ranikhet disease & mortality is 90-100% in summer season.

Outbreaks of fowl pox in winter season is common resulting in 15-20% mortality in chicks, low egg production from the hens & there is low income, hence there is negative thinking in the rural women about back yard poultry farming. These problems will be solved by supplying vaccinated birds of improved breeds of

Kadaknath & Vanaraja.

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## 1] Kadaknath :-

Kadaknath or Kali masi is an Indian breed of chicken originating from the Jabua, Madhya Pradesh, where it is known as 'Kali Masi' (fowl having black flesh). There are three varieties within the breed, jet black, golden & pencilled. It has lower fat content of 0.73-1.03% as compared to 13 to 25% in most other chicken breeds. The meat from this breed has a geographical indication tag. It was approved by Indian government on 30 July 2018. This breed is maintained & improved by Krishi Vigyan Kendra, Jabua. It is also known as black chicken. It is used for dual purpose breed i.e. both egg & meat. The male is about 1.8 kg-2 kg in weight while female is about 1.2 kg-1.4 kg in weight. The colour of breed is greyish black & tongue, black comb & wattles, greyish white in meat & bones & even dark organs. The hen lays cream coloured egg with a slight pink tint. Egg weight on average of 45 g. This breed is also found in Indonesia where it is known as Ayam cemani. The colour of egg is white.



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## 2) Vanaraja :-

Vanaraja is a multicolor dual purpose medium sized bird developed by Directorate of poultry Research (ICAR) in Hyderabad, India. for rural back yard poultry farming in rural area. They each produce upto 110 eggs per year & weigh 1.0 to 1.2 Kg at the age of 6 to 7 months. Vanaraja is aimed a rural communities where it can be reared in backyard on natural, scavenged food with minimum supplementation. Due to high immune status, high eggs & meat production of vanaraja birds, it is suitable for rural back yard poultry farming.

Hence Agricultural Development Trust was established small hatchery unit to supply one month old vaccinated vanaraja birds for back yard poultry farming in rural area. It produces eggs & meat, based on rearing and feeding practices.

Important features of this breed are multicolour feather pattern, immunity to disease. perform with less nutrition, grow faster & produce more eggs, produce brown eggs like local hens. Vanaraja gives their best performance with reared free range.

Vanaraja are mainly found in Telangana & Andhra Pradesh & being supplied to 26 states of India from ICAR-PPR, Hyderabad

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## 2] GOAT FARMING :-

### 1] Boer goat :-

The boer goat is a breed of goat that was developed in South Africa in early 1900s & is a popular breed for meat production. They were selected for meat rather than milk production. Due to selective breeding and improvement, the Boer goat has a fast growth rate & excellent carcass qualities, making it one of the most popular breeds of meat goat in the world. Boer goats have a high resistance to diseases & adapt well to hot dry semideserts. Boer goats commonly have white bodies & distinct brown heads. Some Boer goats can be completely brown or white or paint which means large spots of different colour on their bodies. Like the Nubian goat, they possess long pendulous ears. They are noted for being docile, fast growing & having high fertility rates. Does are reported to have superior mother skills as compared to other breeds.



### 2] Beetal :-

This breed occurs mainly in panjab. The male is about 65-86 kg in weight while the female is 45-61 kg in weight. The male is 127-132 cm in body it. while female is 107-122 cm. The male is 91 to 99 cm in height while female is 76-83 cm. The coat colour is black & tan or brown, heavily spotted on white. The horns are thick & medium sized in both sexes. The ears are long, flat, curled & drooping. The head is prominent with a Roman nose, males with marked beard. It gives 2 to 3 kg per day. It gives total 591 kg in one locatation period of 177 days.

### 3] Osmanabadi Goat :-

Goates plays a major role in the livelihoods of farmers. Their very low cost of rearing is facilitated by grazing on wasteland and agriculture by-products and at times on garden & kitchen waste. Their high disease resistance, improved production, quick growth in a short time, good demand and market, droopings & make them amenable for rearing by small marginal and landless farmers. Among differ breeds.



of goats, the Osmanabadi breed was recognized by ICAR - National Bureau of Animal Genetic Resources (NBAGR). The breed is a native of Osmanabad district of Maharashtra and reared mainly for its meat and very rarely for its milk. Both male & female Osmanabadi goats are medium sized with a long body & legs. They are mostly black in colour with small straight / curved horns (about 13cm) turned backwards, upward and downwards. Their drooping ears which are about 20 cm in size may be either black or with white spots. The white coloration may also be found on the neck & forehead.

Based on the horns & body colour, they are categorized into five types :- black body with horns, black body with white ears & horns, black body & polled, black body, white ears & polled and brown and white patches from face to lower side of the body. The Osmanabadi breed is suited to all types of rearing systems, the most ideal being the semi-intensive system (grazing and closed enclosure) where higher production has been observed compared to extensive (grazing) & intensive (zero grazing).



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The breed is known for its early maturity, prolificacy & good dressing percentage. The gestation period is about 145-154 days. It gives 150-160 kg milk per lactation period. The milk contains 8.34% of fat. Being a source of genetic material the Osmanabadi breed can be used to set up breeding centres or flocks for conservation & multiplication to meet the demand of breeding stock.



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## 3] Cattle Farming :-

### 1] GIR :-

Gir or Gyr is one of the principal breed originating in India. It has been used locally in the improvement, of other breeds including the Red sindhi & the sahiwal. It was also one of the breeds used in the development of Brahman breed in North America. In Brazil & south American countries the gir is used frequently because as a *Bos indicus* breed, it is resistant to hot temp. & tropical diseases. It is a very known for its milk producing qualities & often breed with friesian cows of make the Girolando breed. The gir is the distinctive in appearance, typically having a rounded and domed forehead, long pendulous ears & horns which spiral out & back. Gir are generally mottled with the colour ranging from red through yellow to white black being the only acceptable colour. They originated in southwest India in the state of Gujarat & have since spread to neighbouring Maharashtra & Rajasthan cows average 385 kg in weight & 130 cm in height. bulls weight 545 on average with a height of 140 cm. The average milk yield for gir is 1590 kg per

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lactation period, with a record production of 3182 Kg at 4.5% fat in India.

## 2] HOLSTEIN FRIESIAN :-

Holstein Friesians are a breed of dairy cattle originating from the Dutch provinces of North Holland & Friesland, and Schleswig-Holstein in Northern Germany. They are known as the world's highest production dairy animals. Holsteins have distinctive markings, usually black & white or red & white in colour, typically exhibiting piebald pattern. On rare occasions some have both black & red colouring with white. Blue is also a known colour. This colour is produced by white hairs mixed with black hairs giving the cow a bluish tint. This colouring is also known as 'blue roan' in some farm circles.

Animals are ruggedly built. Male grows to about 1000 kg & female 615 kg. Head is long, narrow & straight. Thighs are straight and withers are slightly rounded. Colour is black & white, but it may vary from white with a few black spots to almost black. Udders are large. The feeding capacity of the animals is large. Cows are quite and docile but bulls may be

vicious.

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Average milk yield is about 6150 liters in 305 days. The fat content varies from 2.5 to 4.3 percent, the average is about 3.5 percent and total solids about 12.2 Per cent.

### 3] JERSEY :-

This breed originated on the Island of Jersey in the English channel. It has been exported to many countries of the world, in some of them including Denmark, France, New Zealand and United States, it has develop into an independent breed. In Nepal it is used in as drought animals. The animals of this breed are small in size. The female grows to about 450 kg in weight and males about 675 kg. The female has a straight top line, level rumps & sharp wither. Head is with a double dish. Udders are excellent, colour varies from light fawn to black or white and from white-spotted to solid in marking. Animals have a tendency to be Nerves & sensitive. The cows are calm and docile, bulls may be unpredictable or aggressive. They can become good pets under proper management. They have very good grazing ability. The average gestation period is 280 days.



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cows are very good milkers. Average milk yield is about 4000 litres in 305 days. The fat content is about 5.3 percent and total solids 15 percent. It is highly productive cows may give over 20 times their own weight in milk per lactation. The milk is high in butterfat and has a characteristic yellow tinge. The Jersey adapts well to various climates & environments & unlike many breeds originating in temperate climates, it tolerates heat well.

#### 4) RED SHINDHI :-

This breed actually originated in West Pakistan (Sindh), from Karachi to as far as Baluchistan. It is widely distributed on the western banks of Indus river. In India, the pedigree herds are found in Punjab, Karnataka, Tamil Nadu and Orissa. The animals are medium sized with a compact body. Head is medium sized with broad forehead. Hump has heavy dewlap. Horns are short thick and ending in blunt points. Legs & short tail is long. The udders are sizable and may become pendulous in heavy milkers. Ears are medium-sized and drooping. Colour is red but some animals may

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White markings. Bullockers are darker red than the cows are good milkers milk production on an average is about 1,800 kg in a lactation of 300 days. However, production as high as 5400 kg of milk in a lactation period has been observed in individual cows.

### 5] SAHIWAL :-

It originated in Montgomery district, now known as Sahiwal district in Pakistan. This breed occurs in large numbers in central & south dry areas of West Pakistan near the river Ravi, particularly in Montgomery district. Head is long with a medium-sized forehead. Horns are short and thick. Hump is massive particularly in bullocks and dewlap is voluminous. Legs are short. Tail is very long, whip-like almost reaching the ground & tapering to a black switch. Udders are well developed. Ears are medium-sized. Forehead, Horns are short and thick. Hump is massive particularly in bullocks and dewlap is voluminous. Legs are short. Tail is a very long whip-like almost reaching the ground & tapering are medium sized. Colour is red or light red.

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Cows are very good milkers. Under village conditions, the milk yield is about 2150 kg in a lactation period of 300 days. Well-bred cows in the farms may produce 2,700 to 3,200 kg. In some cases yielding upto 4,500 kg is observed.

## FISHERIES

The term fishery is used for catching, processing, fish farming & marketing of fish and other aquatic animals. Fishery includes prawns, lobsters, oysters, mussels, estuarine fishery and marine fishery. Inland aquatic area of our country covers about 40-50 lakh acres and includes ponds, lakes, dams & rivers. Fishery provides a good opportunity & self employment to many people. Culturing certain fishes in pond, lakes and reservoirs is a common practice in most of the areas of India, which boost productivity & economy of the nation. In addition to the source of nutritious food, fishes yield a number of by products which are of commercial value. They are fish oil, fish meal, fertilizer, fish guano, fish glue & Isinglass.



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These byproducts are widely used in paints, soaps, oils & medicines. Prawns & lobsters have market value all over the world.

Common fresh water are 1] *Labeo rohita* (Rohu) 2] *Catla catla* (Catla).

The marine fishes that are eaten commonly in our country are *Herpesodon* (Bombay duck), *Sardinella* (sardine), *Rastrelliger* (Mackerell) and *Stromateus* (Pomphret). After catching fishes, fish spoilage is prevented by preservation methods.



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# \* CATLA \*

This fish distributed throughout India. It attains maximum length of about 180 cm but is suitable for food when it is not more than 61 cm. Body is deep, stout with broad snout & mouth is large, provided with prominent lower lip & large gill apparatus. The colour is greyish on the dorsal side while silvery on the lateral side. fins are dark and sometimes black also.

Catla is one of the fastest growing fishes & large carp which migrates towards rivers in plain regions in the breeding season i.e. from June to August. After 16 to 18 hrs. of fertilization larvae are hatched which are 4.4 to 5.3 mm in length. The young ones measures upto 15 to 20 cm in length & feed exclusively on water fleas. This can grow 7.5 to 10 cm per month & 2 pounds per year in weight. Catla is very strong fish & can jump over the fishing net when captured inside the net.



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# \* ROHU \*

This is famous and valuable carp distributed in the plains of India except in the southern part. It attains a length of more than 90 cms. The body is elongated & bluish or brownish grey on the dorsal side. snout projects bluntly with abruptly undershot mouth. The barbels are feebly developed lips are thick with inner fold & the fins are grey, red or blackish. It is pond and bottom feeder both and most suitable for pond culture. They can make easy dive in water.

The younger fries may feed on Zooplankton, fleas etc. but adult are found to be vegetarian and feed upon the bottom sand, mud, vegetables, leaves of aquatic plants, algae, etc. It breeds in flooded river during monsoon period. Female lays about 2 million eggs at a time. Young one may attain a length up to 45 cms & a weight of about 675 gm in one year. It is distributed in Pakistan & Burma also.







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# \* APTICULTURE \*

Beekeeping or apiculture is the maintenance of honeybee colonies commonly in man-made hives by humans. Most of such bees are honey bees in the genus Apis but other honey producing bees such as mellipona stingless bees are also kept. There are five well recognized types of bees which occurs in different part of the world.

i] Apis dorsata (Rock honey bee) :-

It is longest bee, about 20 mm in length so, named as giant honey bee sarang & Bombara are the other names of this bees which yields maximum amount of honey in comparison to other species i.e. 60 pounds, a single comb. The workers are very smart & active which may pollinate 12,000 flowers daily due to it's ferocious & irritable nature, it is very difficult or impossible to domesticate them for bee keeping industry.

ii] Apis Indica (Indian or Eastern honey bee) :-

It is most common Honeybee found in forest & plain regions of India.

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This is slightly smaller than a dorsata. They prefer to live in dark places & construct several parallel combs about one foot across the protected places like cavities of tree trunks, mud walls, earthen pots, thick bushes, wells & walls of the buildings. This species are very gentle in nature, so can be domesticated easily. The production of honey is much less i.e. 6 to 7 pounds per comb.

### iii] *Apis florea* - (Little bee) :-

This is smaller than *A. indica* and yields very small amount of honey. The bees are not of gregarious nature & forms a single comb. Due to its docile & rare stinging behaviour the combs can be removed easily for the honey extraction.

### iv] *Apis mellifera* :- [European bee] :-

Although this bee produces less honey yet it is found to be the best species from the commercial point of view. Due to their docile nature they can be domesticated easily and can be improved by breeding for several hundred years out of its several varieties the Italian variety is raised everywhere in Europe and America in artificial hives for honey.



✓ *Apis adamsoni* (African bee) :-  
It occurs mainly in North Africa.

### \* Social Life :-

The individuals of honey bee colony are of three types i.e. queen, drone & worker.

#### i) Queen :-

It is a diploid fertile female whose body size is much larger than drone & workers.

Queen only lays eggs for the colony which are 1000-1500 in no. per day. The life span of a queen is 2 to 3 yrs. in which she lays about 1,50,000 eggs. They are both fertilized & unfertilized type. The female & queen are developed from fertilized egg & male develops from unfertilized eggs.

#### ii) Drone :-

Drone is haploid male which is smaller than queen but larger than worker & length is about 15 to 17 mm in length. But he is robust, stouter & broader than queen. The pollen collecting apparatus, wax producing glands & sting are completely absent. Their only duty of drone is to mate with queen.



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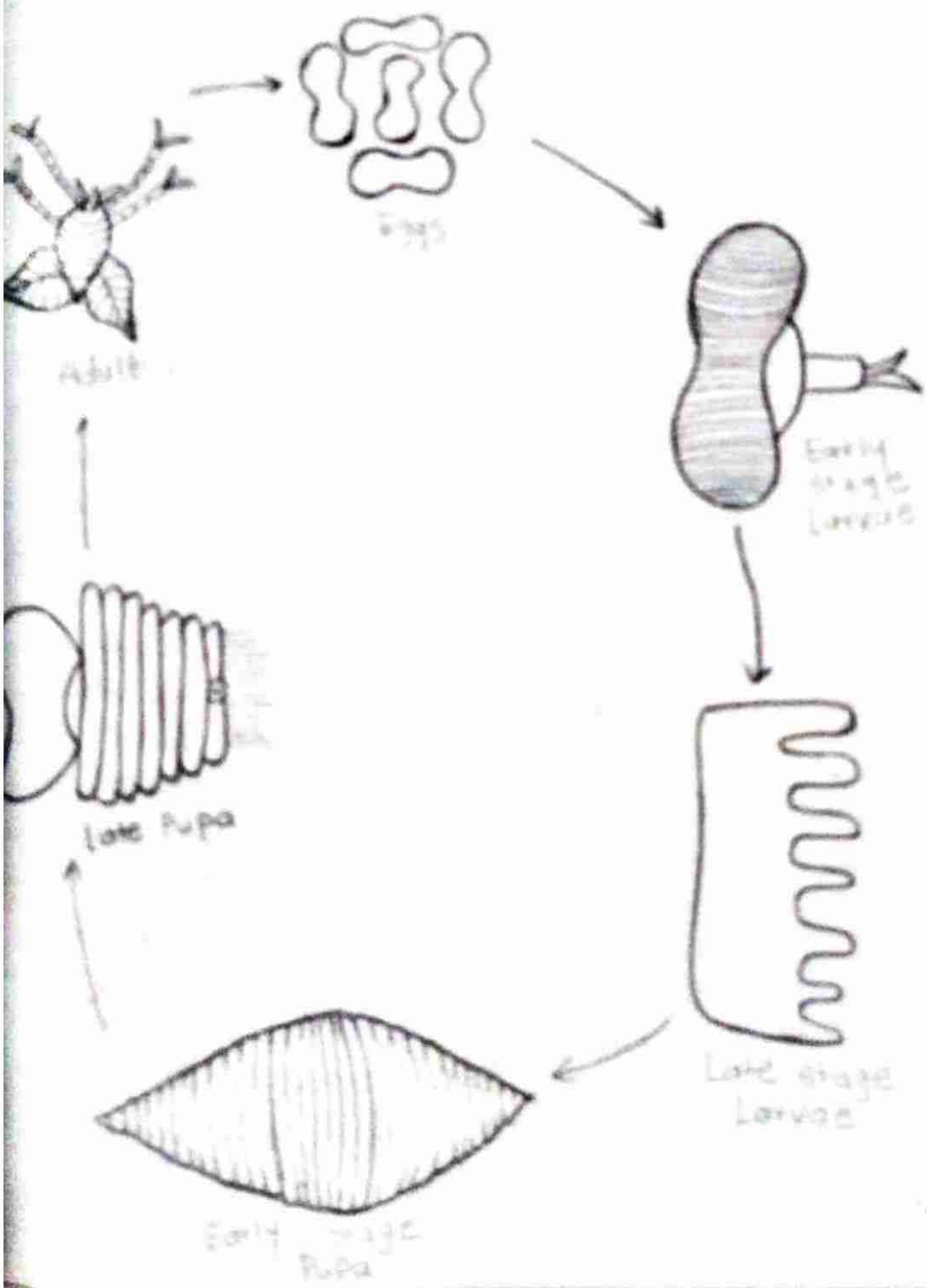
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He develops from partheno-genetically from unfertilized eggs.

iii) Worker :-

Worker is diploid, sterile female which is smallest in size grows upto 11 to 15 mm in length. The function of the workers is to collect honey, to build the hive to protect the colony, to clean the hive to look after the young ones & several others. They also possess the sting apparatus & glands.

# Life Cycle of Honey bee





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## \* Life Cycle of Honey Bee :-

Life history of honey bee includes stage such as egg, larvae, pupa & adult (queen, drone & workers) while studying like history, the phenomenon like swarming & nuptial flight (marriage flight or mating flight) must be known, which are connected with fertilization of egg & egg-laying.

### 1) Swarming :-

The process of leaving off the colony by the queen is termed as swarming. It happens at the end of spring or early summer but real cause, still not well known. In summer when the hive is overcrowded by the bees because of plenty of food, the queen leaves the hive with some old drones & workers & establishes a new colony at some other place. Now in the old time, a worker feeds on Royal Jelly & converted into new of the colony.

### • Supersedure :-

When the egg laying capacity of the old queen is lost or it suddenly dies, a new young & vigorous queen takes place position of the (old) queen & is called as supersedure.

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### • Abscending :-

The migration of the complete colony from one place to another takes place due to some unfavourable conditions of like such as destruction of the comb by termites or wax moths & scarcity of nectar producing flowers around the hives.

### 2) Nuptial or Marriage flight :-

The first swarm is led by the old queen but the second swarm is led by the 7 days and old virgin queen which is followed by the drones & is called marriage flight. one of the drone starts copulating with the queen in the sky & fertilises the queen & dies during course of copulation along with the queen. died drone falls on ground reaches the hive.

### 3) Egg-laying :-

The queen after returning to the hive starts laying eggs. The fertilization of the eggs takes place at this stage. The queen lays both fertilized & unfertilized eggs.



#### 4] Eggs :-

The young queen begins to lay egg 3-4 days after mating. After mating the queen generally lays one egg in one brood cell. The egg are pinkish colored, elongated with cylindrical body generally attached to the bottom of cell. The fertilized egg laid in a workers or queen cells while unfertilized egg laid in a drone cells. When there is plenty of supply of nectar, the queen may lay upto 1000 eggs per day.

#### 5] Larvae :-

The larvae are hatched after 3 days of egg laying & the larvae are known as grub, which are very small-sized & worm like & without any eyes & legs. Larvae emerged from both the fertilized as well as unfertilized egg. The drones are developed from larvae of unfertilized eggs while the workers are developed from larvae of fertilized eggs. The workers fed on the 'royal jelly' a special diet, secreted by young workers & converts into queen of the colony. The royal jelly consist of digested honey & pollen, mixed with a glandular secretion into the mouth of workers.



After 5 days of feeding the cell is sealed with bee wax & the larvae undergo pupation.

### 6) Pupa :-

The larvae within the sealed cells change into pupae. The larvae spin a thin silken cocoon & pupated completely. Each pupae undergoes a complete metamorphosis & rapid transformation takes place.

### 7) Adult :-

At the completion of metamorphosis, the young bees are formed from pupa. Emergence of young ones by breaking the wax cup with the help of mandibles takes place after 3 weeks & they get busy in the indoor duties. All the bees through a complete metamorphosis with the various changes in the life-cycle taking place within the cell. The queen takes total 16 days, the worker takes total 21 days & drone takes total 24 days to develop from the egg to the young bee stage.



## \* Flora for Apiculture :-

Although honey bees can collect nectar & pollen from quite a long distance but the flora for apiculture is also important. The flora may be of wild or cultivated type. The more nectar yielding plants are neem, jamun, soapnut, etc. The other plants like maize, rose & sorghum are good sources of pollen. Some plants like plum, cherry, apple, sheesham, coconut, guava, mustard, etc. are good source for nectar & pollen both.

## \* Modern Method of Apiculture :-

To overcome the drawbacks of indigenous method an advanced method based on scientific facts has been developed. It has opened a new era for the cottage industry in India and has also given an opportunity for lakhs of unemployed persons to keep them busy in the business. First of all care was taken to improve the texture of the hives & during this race hive pattern were introduced in India. The newton model with 7 to 10 frames [21x14.5 cm] in a brood chamber with a shallow super [21x6.5 cm sized frames] has been most.



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Popular in south, east & central India. Longsteron-  
th hive containing 10 frames (44.8 x 23 cm) has  
been used as standard hive in Himachal Pradesh,  
Jammu & Kashmir and Panjab. In Uttar Pradesh  
another type of hive has been used which  
was evolved Jeolikote apiary & contained 8  
frames [30 x 18 cm]. After gaining experience  
from the above mentioned hive, Indian stan-  
dard Institute has standardized the hives of  
small & big sizes accommodating frames 21 x 14.5  
x 31 x 20.4 cm resp.

Now-a-days a typical type of movable  
hive is constructed which is capable of expansion  
or contraction according to the requirement of  
place, season & climatic conditions.

### \* Typical Movable Hive :-

An artificial movable hive is constructed by wooden  
box based on bee space theory. The size & no. of  
frames vary from hive to hive according to the  
need. A small space is permitted for entrance & exit  
of workers & drones but queen once placed in  
hive never comes outside the hive, because qu-  
een is relatively larger than pores on zinc  
sheet.

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The typical movable hive consist of six parts as given below :-

① Stand :-

It is basal part of the hive on which the whole hive is constructed. The stands are adjusted to make slope for the hive due to this slope rain water comes down quickly.

② Bottom board :-

It is situated above the stand & forms the proper base for the hive having two gates in the front position, one gate function as an entrance while the other as exit.

③ Brood Chamber :-

It is most important part of hive carried by bottom board. It is large in size with 5 to 10 frames. In each frame a wax sheet of hexagonal frames is held up by a couple of wires in a vertical position. Here every sheet of wax is known as camb foundation which attracts the bees & provides the base for camb preparation on both the sides. The camb foundation help in obtaining a regular strong workers brood cell comb which can be used

repeatedly.



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The brood chamber by a another chamber known as super.

① Super :-

It is also without cover & the base. super is provided with many frames containing foundation to provide additional space for expansion of the hive

② Inner Cover :-

It is a wooden piece used for covering of the super. It has many holes for proper ventilation.

③ Top Cover :-

It is meant protecting the colony from rains it is fitted with zinc sheet which is plain & sloping.



## ★ Products of Honey Bee Keeping :-

The chief products of honey bee keeping industry are 1) honey & 2) Bee Wax.

### 1) Honey :-

It is truly an insect product of high nutritive value. The food value of honey may be estimated by the presence of about 80% sugar in it. Honey is very much sweet in taste & white to black in colour with variable smell in accordance with the juices collected from different flowers. Honey is a sugar rich compound having the following constituents.

- i) Levulose - 38.9%
- ii) Dextrose - 21.28%
- iii) Maltose & other sugars - 8.8%
- iv) Enzymes & pigments - 22.1%
- v) Ash - 1.0%
- vi) Water - 17.20%

### • Economic Importance of Honey :-

Honey is used by human beings in different ways of which the most important is a food & medicine.



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### a) Food Value :-

It is estimated that 200 gm of honey provides as much nourishment as 11.5 litre of milk or 1.6 kg cream or 330 gm meat 2.1 gm of honey provides as much as 67 k.cal of energy. Its sugar, minerals, vitamins & other vital elements are readily absorbed by the systems. It is used in the preparation of candies, cakes, bread, etc.

### b) Medicinal Value :-

Honey is mildly laxative, antiseptic and sedative generally used in Ayurvedic & Unani system of medicine. It is quite helpful in building up of the haemoglobin of the blood and also used as preventive against, cough, cold & fever as blood purifier and as curative for ulcers on tongue & alimentary canal. Its regular use is recommended after severe cases of heart attack for malnutrition, indigestion & diabetes. It is also found that typhoid germs are killed by honey within 48 hrs, those of bronchio-pneumonia in 4 days & dysentery in 50 hrs.



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② other uses :-

other than food & medicine, honey is used in numerous ways. It is used in preparation of bread, cake & biscuits. It increases their preserving quality. Much amount of honey goes in making alcoholic drinks. In poultry & fishing industries honey is widely used. In laboratory, honey is used to stimulate the growth of plants, the bacterial culture, inoculation of seeds of cloves, in insect diet & in the preparation of poison for fruit flies.

④ Bee Wax :-

Beewax is very important by-product of bee keeping industry. It is yellowish to greyish brown in colour & insoluble in water but completely soluble in ether.

• Economic Importance of Beewax :-

Beewax is used in the manufacture of cosmetics, for cathodic churches, face cream, paints, ointments, insulators, plastic works, polishes, carbon paper & many other lubricants.



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It is also used in the laboratory for microtomy with the common wax for block preparation of tissues.

Honey bees are economically very important to the agriculturists for pollination of flowers. Another important aspect it is that the honey bees are the only pollinating insects which can be controlled by man & therefore, they play a very important role in agriculture.



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# SERICULTURE

## • History :-

for the first time in 2697 B.C. Lozu Empress of Kwang-Ti discovered the fancy origin of beautiful silk in the form of threads. Thus, the technique of cloth preparation from the cultivated silk worm known to Chinese people for more than 2,000 years ago. The art of silk preparation was kept as top secret as National policy & anyone, who attempted to send the eggs of silkworm in out of the country, was hanged to death. It is said that silk was as valuable as gold & ultimately gold was flowing into China from all parts of the world. But in the year 555 A.D. this secrecy was opened & the egg of silkworms & sericulture technique was smuggled by two monks sent as spies to China & thus sericulture was introduced into Europe. Later, it was introduced in Mediterranean & Asiatic countries. Now-a-days sericulture has become one of the most important cottage industry in a no. of countries like Japan, China, Rep of Korea, India, Brazil, Russia, Italy & France.



The experimental & systematic study on sericulture was started in Japan in 1911 after establishment of the sericulture Experiment station & in 1979 the National Sericulture Experimental station was set up in Tokyo.

### • Concept of Sericulture :-

Sericulture is the scientific method of rearing silkworms on large scale in natural & controlled conditions for the production of silk threads of fine quality.

### \* Types of Silkworm :-

1] Mulberry silkworm or *Bombyx mori* :-

It belongs to family *Bombycidae*. China is the native place of this silkworm but now it has been introduced in all silk producing countries like Japan, India, Korea, Italy, mulberry leaf, it is called mulberry silkworm. The silk produced by this moth is white in colour.

2] Tussock silkworms or *Antheraea mylitta*, *A. pernyi*, *A. proxeli* & *A. royeli*.

It belongs to family *Saturniidae* & common on In India, China, Sri Lanka.



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and other countries. The caterpillar feeds on beroak, sal & fig plants. The cocoon produced by the moth is hard & of hen's egg size which produces reelable brown coloured silk. The domestication of tassar caterpillars is not so easy so the cocoons have to be collected the forest

3] Muga silkworm or *Antheraea assma* :-

It belongs to family saturniidae and semi-domesticated in India. The native place of the speices is Assam where, it is now become a good source of cottage industry.

4] Fri silkworm or *Attacus ricini* :-

It is also belongs to family saturniidae & produces silk in East Asia. The cocoons cannot be reeled as in mulberry cocoons, therefore, it has to be spun. It's like history resembles that of mulberry silkworms. The cocoons of this worm have very loose structure & silk produced is called as 'Arandi silk' locally. The silk threads are not glassy but much durable.



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5] Oak silkworm or *Antheraea pernyi* :-  
It also belongs to family saturniidae & is found in china & Japan. A variety of the Hima-  
layas & A. yamamai of the Japan has been reared  
for centuries. They produce good quality of silk.

6] Giant silkworm or *Attacus atlas* :-  
It belongs to family saturniidae & found in India  
& Malaysia. It is largest of the living insects  
reaching upto eleven inches in wing span.

Although 6 species of silkworms produces  
silk the mulberry, eri, tassar & muga are widely  
used for the cottage industry.



## \* Life Cycle of Mulberry silkworm :-

The life cycle includes importance four stages i.e. eggs caterpillar larvae, pupa (chrysalis) & imago

### <i> Eggs :-

The female lays eggs in clusters, soon after fertilization. In mulberry silkworm, one female lays about 300 eggs. The female covers the eggs by a gelatinous secretion & the eggs remain attached to leaves to sticky secretion. The eggs are small in size, smooth or spherical, yellowish-white in beginning & then becomes darker which hatch out in about 8-12 days.

### <ii> Caterpillar larvae :-

Each larvae is a tiny creature measuring 5 to 7 mm in length, rough & wrinkled bodies, greyish in colour. Larvae feeds on mulberry tree leaves grow very quickly who stops feeding after 4 to 5 days, becomes inactive. They undergo four moultings during which old skin ruptures & bigger in size. In 45 days larva complete four moultings & forms adult of 7 to 10 cm in length. A pair of salivary gland developed which are known as silk gland since they secrete silk.



### <iii> Pupa [chrysalis] :-

The larvae stop feeding & goes in a corner of leaf which start to secrete the sticky secretion of the salivary glands through a narrow pore situated on the hypopharynx.

Then secretion is changed into a fine, long & solid thread of silk & these silk thread becomes wrapped around the body of larvae to form cocoon. In 3 to 4 days, a thick, hard, oval, whitish or yellowish cocoon is formed in which worm enclosed. The pupa is somewhat tubular in shape & brownish in colour.

### <iv> Imago :-

The pupa changes into imago within about 12 to 15 days. The young moth secretes an alkaline fluid to soften one end of cocoon help for to break, open the cocoon & escape from cocoon. The silk moth reach adult stage.

### \* Aspects of silkworm :-

The sericulture has three different aspects as follows -

- <i> cultivation of food plants.
- <ii> Rearing of larvae.
- <iii> Reeling of thread.



(i) Cultivation of food plants :-

The cultivation of food plants depends upon type of silkworm which is to be reared four Indian species of mulberry such as *Morus alba*, *M. indica*, *M. serrata*, *M. laevigata* & *M-5*, Kanva-2, S-36, S-1635, V-1, S-54 & S-13 are cultivated mostly.

The economically important methods of cultivation are cutting, grafting & from seeds. For the cultivation except moist salted & strong water soil, all types of soil of pH 6.2 to 6.8 is suitable.

(ii) Rearing of larvae (silkworm) :-

The mulberry silkworm are multivoltine i.e. many crops are obtained in a year, which are also domesticated & can be reared indoors. For male & female worms, large & healthy cocoons are selected & placed in ventilated cages. The moths are selected & kept in pairs (one male & female) in coupling jars for copulation for about 24 days. After that females are separated in egg-laying boxes in which each female lays about 300 eggs in 24 hrs which are known as seeds. These eggs/seeds are placed in small boxes inside incubators of temp  $71^{\circ}$  for 7 to 8 days, which give birth to small

Caterpillar.

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The feed on tender leaves very voraciously & grow very quickly & undergo four moultings to form adult. The adult are shifted to spinning trays as they stop feeding. The larvae then secrete the sticky secretion & form the cocoon. For rearing of silkworms,  $28^{\circ}\text{C}$  to  $30^{\circ}\text{C}$  temp &  $75\%$  to  $80\%$  humidity is required.

### (iii) Reeling of silk threads -

The reeling of silk threads is very important aspect of sericulture & therefore modern technology for production of silk must be used for this purpose. Before reeling the thread, the cocoons are dipped in container of hot water for more than 10 minutes & they are continuously stirred with rod. After this the outer portion cocoon is loosened & removed in the form of long threads.

At the same time the end of the continuous filament becomes visible. Then the filament of several cocoons are picked & placed on to the reel. It has been estimated that about 1 kg of reel silk is obtained from about 55,000 cocoons.



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## • Production of silk :-

Silk is a kind of fibrous protein made up of fibroin & sericin. Both fibroin & sericin are protein in nature. Fibroin is insoluble in water made up of glycine, alanine & tyrosine & constitute about 70-80%. Silk sericin is readily soluble in water & made up of sericin, alanine & leucine.

Silk is secreted by the silk glands which are modified salivary glands of silkworm. The sticky fluid secretion of the silk glands is changed into fine, long & solid silk when coming in contact. These threads are very thin, soft & light in weight but strong because of their high elastic property.

## • Uses of silk :-

The silk fibres are mainly used for preparation of silk clothes & various garments. It is also used in the manufacture of fishing fibre, parachutes, insulation coils for telephones & wireless receivers, filter clothes of four miles, types of racing cars, etc. Suture materials & medical dressings are also prepared from silk material.



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# SHARAD MUSEUM

Sharad Pawar Museum, Baramati situated in Vidya Pratishthan. It is collection of gifts to Saheb from all over the world. It is curated and well maintained by Smt. Pratibha Tai Pawar, wife of Sharad Pawar Saheb. Furthermore, it is fascinating to see his taste for the collection. Sharad Pawar Museum is undoubtedly a window to peep into the life of this multi faceted visionary. Moreover, his wife's passion for preserving the gifts & presenting them for a visual treat offers an insight into his life.

It is adjacent to the library he donated his books for public reading the display in the beautiful building also includes photographs & letters written to him. If you visit the Sharad Pawar Museum don't forget to read the letter by Lata Mangeshkar. It is museum hall just contruted at the entrance of Vidya Pratishthan.



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The museum hall has a collection of photographs of historical importance which gives a glimpse into the active life of Hon'ble Shri. Sharadchandra Pawar saheb, who started his career as a social worker from a humble village of Maharashtra. If you visit the Sharad Museum in Baramati.

You can't forget this Museum in your life.



TOPIC: \_\_\_\_\_

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(L.B.)

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*Chyda*  
03/11/22

Teacher in charge

Student sign

[Muttule Pooja Ramchandra]

Muttule.P.B

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!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sanstha's

**Shriram Mahila Vidnyan Mahavidyalaya, Paniv**

Tal.: Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

## DEPARTMENT OF ZOOLOGY

Roll No.	58	Exam Seat No.		Date:	29-3-23
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## CERTIFICATE

This is to certified that Miss Rise Riya Sunil

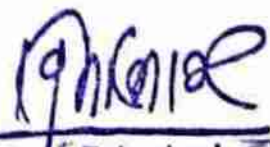
Has satisfactory completed the required study tour report of Botany Department, prescribed by S. N. D. T. Women's University, Mumbai for academic year 2022-23 in F. Y. B. Sc.

  
29/03/2023  
**Tour In-charge**

  
29/03/2023  
**H.O.D**  
Dept. of Zoology  
S.M.V.M. Paniv

  
06/04/2023  
**External Examiner**



  
**Principal**  
Shriram Mahila Vidnyan Mahavidyalaya  
Paniv, Tal. Malshiras, Dist. Solapur

॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

Shreem Shikshan Santha's

Shreem Mahila Vidyan Mahavidyalaya, Panir.

[Affiliated To S.N.D.T. Women's University, Mumbai]

Department of Zoology

Student Name - Pise Pailya Sunil

Class - F.Y.B.Sc. Sem - II<sup>nd</sup> Roll NO - 51

Principal Name - Mr. V.V. Babar.

Guidance Teacher - Mr. S.S. Rede.

Date of visit - 11/11/2022

Time of Departure - 6:00 AM.

Time of Arrival - 1:15 AM.



Welcome!!!



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# Acknowledgment

With a great heartily pleasure I express my deep sense of gratitude to principal Mr. Babar V.V. for permitted this study tour. I am very much thankful to M.Sc. Co-ordinator Mr. Babar A.M for this valuable continuous guidance & encouragement for preparation of tour report.

I am very much thankful to tour incharge Mr. Anantode A.M, Head of Department zoology Mr. Rede S.S, Head of Department Botany Miss. Waghmode P.R, Head of Department of Chemistry Miss. Kolekar A.A & all teachers of college for their support and arranged study tour.

I am moreover grateful to my classmates for this assistance during completion this tour report.

Thank you so much!

Place : Paniv

Date : 29-3-23

Student Name -

Ku. Gise Priya Sunil.





## Introduction of Mahabaleshwar.

Mahabaleshwar is the hill station in a Satara district in the Indian state of Maharashtra. It is a picturesque hilly resort nestled in the lap of majestic mountain range of Western Ghats.

Mahabaleshwar boasts of an invigorating ambience. At an altitude of 1372 meter, Mahabaleshwar offers panoramic view of the plain with the impossible sloped peaks & surrounding woods. This prettiest hill station is often referred as the "Queen of Hill Station" in Maharashtra at Maharashtra. It is also known as "Kashmir of Maharashtra."

The tourists are enthralled by its exotic greenery, beautiful garden & breath-taking scenery. Numerous majestic mansions built during the British days still stand as monuments of the Raj. The favourite season for visiting is from March to June. The climate plays a decisive role in determining the type of vegetation & their zonation. Hence, its study is necessary for proper understanding of the ecology of forest. After dwelling briefly on the salient features of the climate of India in general, we will take up Western Ghats in particular & analyze.



The variations of some of the major climate parameters.

The few important places of Maharashtra - Arthur's seat, Bombay point, Babbington point, Wilson point, Pratapgarh fort, Monkey point.

## Temperature :

The variation on temperature are also marked over the Indian sub-continent. The temperature is almost uniform over the area covering two-third of country which gets good rain. In August, there is marked fall in temperature when the monsoon retreats from north west India. In the month of November, the mean maximum temperature is below  $30^{\circ}$  centigrade & mean minimum below  $10^{\circ}$  centigrade. In the extreme North temperature drops below freezing point.



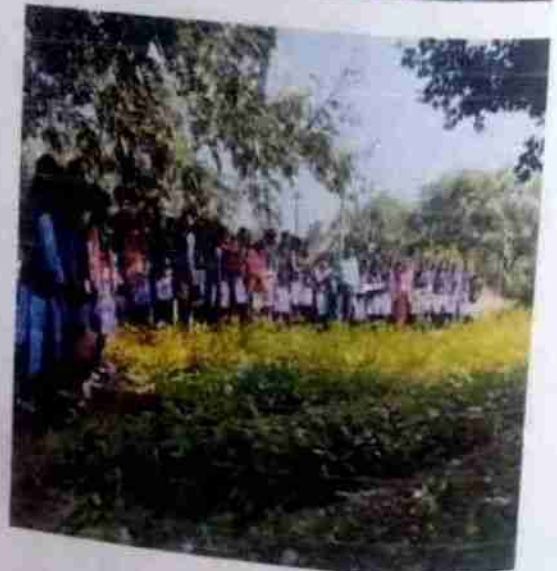


## Rain fall:

In the southern tip of the Indian peninsula rainfall is less than 700mm per year which is not sufficient to support evergreen forest. The rainfall distribution shows two distinctive peaks one around June & other around October. Generally the maximum rainfall is in July sometime in August rainfall is higher than 5000mm.



Sericulture





# -: SERICULTURE :-

PLACE - **WAI**, DIST - **SATARA**.

Guidance :- Kaigude Sir.

## Silkworm and Cocoon :-

Sericulture or silk forming in the cultivation of silk worm to produce silk. Sericulture is an a grow based industry. It involve rearing of silk worm for the production of raw silk which is the yarn obtained out of cocoons spun by certain species in insect.

## Stages of Production :-

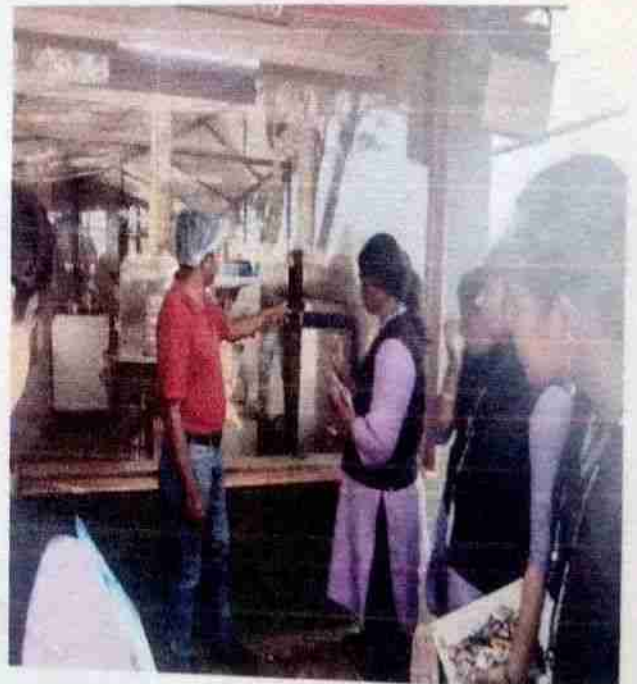
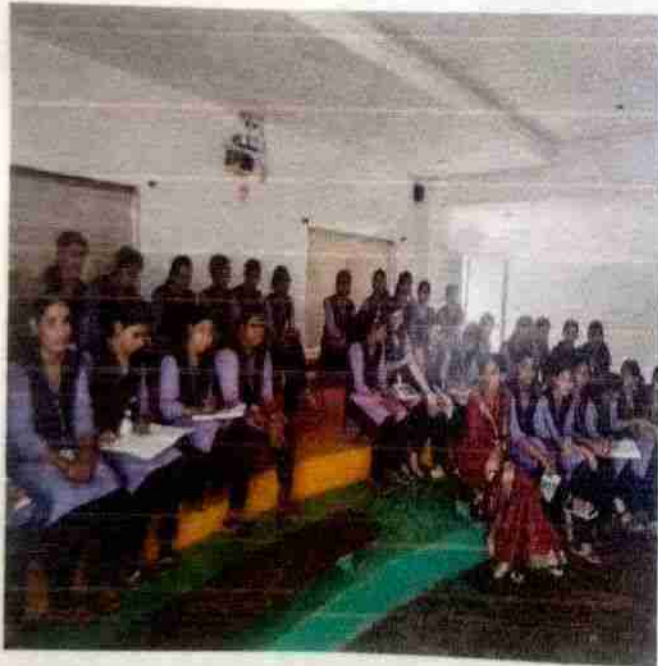
• The stage of production are as follow :

1. The silk moth lays thousand of egg.
2. The silk moth egg hatch to form larvae or caterpillars known as silkworm.
3. The larvae feed on malbery leaves
4. The larvae having grown & moulted several times silkworm use a net to hold it self.
5. It swings its head from side to side in a figer.



6. The silkworm solidifies when it contact with air.
7. The intact cocoon are boiled, killing the silk worm spin approximately one male filament & completely enclose, it self in a cocoon in about 2 or 3 days. The amount of usable quantity silk in each cocoon are required to produce a pond of raw silk.
8. The intact cocoons are boiled, killing the silk worm pupae.
9. The silk is obtained by brushing the undamaged cocoons to find the out side end of filament.
10. The silk filament is obtained are then wound on reel one cocoon contain approximately 1000 yards of the silk filament.
11. The silk at this stage is know as raw silk. one thread comprise up to 48 individual silk filament.







# MAPRO INDUSTRY & GARDEN

Mahabaleshwar Dist - Satara.

Guidance - Parin-Siv.

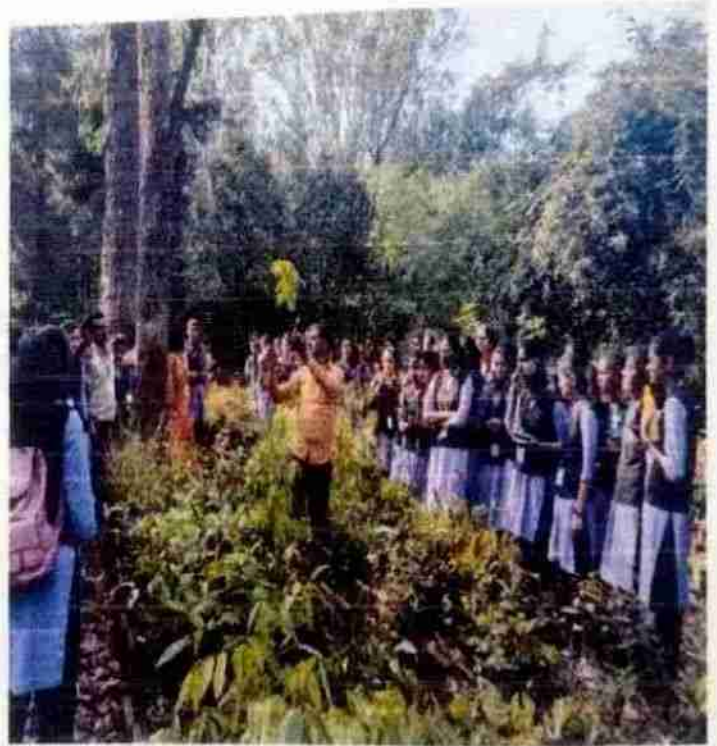
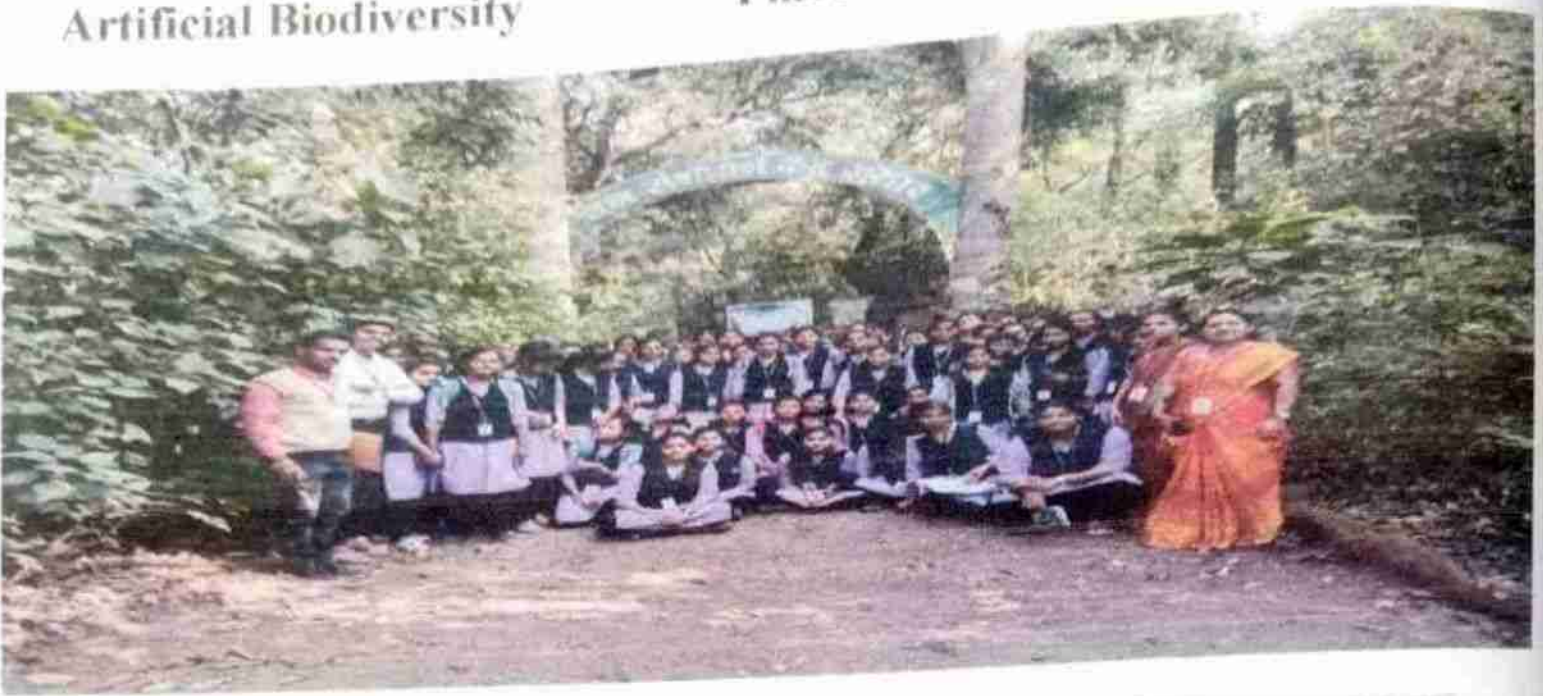
The mapro garden & factory outlet on Pachgani road. While we traase from mahabale. shwar to pachgani. Mapro garden is one of the my favouzite beacuse of the products it offers but my favouz the small but very beautiful garden it maintains there is my prerious visit fered some exotic flowers and colourfull but delicate orchids showing some those marvellous flower.

In maprogarden saw the strawberry binth video. So, I like this mapro garden & mapro garden & mapro Industry.



Artificial Biodiversity

Place: Gureghar, Dist. Satara





# ARTIFICIAL BIODIVERSITY & FOREST

## RESEARCH CENTER, GUREGHAR.

The Gureghar is also called as Artificial Biodiversity of Maharashtra. Many plant, animals and birds species are occurs the many Bryophyte such as Funaria, Polytrichum & mosses, lichens are like Graphis, Cladonia, Usnea. Many epiphytic plants like Cascudo are also occur following lichens, Bryophytes, Pteridophytes, Gymnosperm & Angiosperm occur.

Scientific Name	Common Name.
1. <u>Coffea robusta</u>	Robiaceae
2. <u>Cupressum toluosa</u>	Coniferae
3. <u>Cupressum Kashmirian</u>	Coniferae
4. <u>Pinus roxburghii</u>	Coniferae
5. <u>Pinus patula</u>	Coniferae
6. <u>Agathus robusta</u>	Azoubriaceae.



# Apiculture

Place: Gureghar, Dist. Satara





## APICULTURE

**PLACE** - Madhyasanchalaya Maharashtra  
State Khadi and Village  
Industry Board.  
Government Bangalore No - 05  
Mahabaleshwar. Dist - Satara.

*Guidance :- Mohalkar Sir*

Honeybees are flying insect & close relative of wasps & ant. They are found on every continent on earth, except for Antarctica. Bees of all varieties live on nectar & pollen without bees pollination would be difficult & time consuming. It is estimated that one third of the human food supply depend on insect pollination.

Bee have long straw like tongue is called as proboscis. that allow them to drink the nectar from within blossom. Bees are also equipped with two wings, two antennae & three segmented part. hive population consist of single queen a few hundred drones and hundred workers.



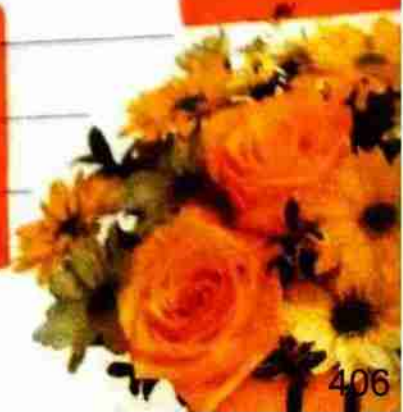
# Types of Honey bees :

- There are following three types of honeybees.  
Genus & species - *Apis mellifera*.

## Function of Honeybees :

### 1. WORKER BEES :-

Worker bees are most familiar looking member of the honey bees hive as they make up about 99% of each colony's population. Worker bees are all they do almost every things for the hive from birth to her death 45 days later the worker bees is given different task to do during different stages of her life worker bees are responsible for everything from feeding the larvae to tending to the queen to cleaning they have to collecting food to guarding the colony to building honey comb.





## 2. QUEEN BEES :-

There is one queen bee per hive. She is the mom of all other bees. She is the only fertile member of colony & lay about 1,500 egg a day during spring & summer soon after birth queen bees will go out & have wild weeked.

Where they mate with 15 or more drones over 3 days period. Before retiring to the hive to lay egg. Queen can lay about 1500 egg per day and can live from 4 to 7 years that's upto 57 times longer than worker bee it's no wonder human love adding royal jelly to their diet too.



### 3. DRONE :-

Male bees are called drone. Their job is to mate with queen from other hives. If they do get the opportunity to mate they die immediately after words. Honey bees are social insect that lived in colonies that hive population consist of single queen. a few hundred drones and thousand of worker bees.

They honey bees we know and a loven her at honey bees center forage for nacture & pollen grains.



Honey is the main ingredient in the alcoholic beverage mead which is also known as honey wine or honey beer. Historically the ferment for mead was honey naturally occurring.

Scientific Name	Common Name
1. <u>Calythix glauca</u>	Myrtaceae
2. <u>C. benthami</u>	Coniferae
3. <u>Saraca asoka</u>	Mesua ferrea Linn
4. <u>Wrightia tinctoria</u>	Kala kudo
5. <u>Alstonia Scholazis</u>	Stain
6. <u>Busseraceae</u>	Dhoop
7. <u>Adenoon indium</u>	Mothi Sanki
8. <u>Gropegia jainii</u>	Somada
9. <u>Prosera indica</u>	Geauti Davbindu.

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3. CHORDATE ZOOLOGY : DHAMI AND DHAMI
4. INVERTIBRATE ZOOLOGY : P.S VERMA AND AGRAWAL.

*Bigasp*

student sign

*Teacher*

Teacher sign





Handwritten text in yellow ink on lined paper, possibly a signature or stylized name.