

369174.

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# BSSPM's ARTS, COMMERCE AND SCIENCE COLLEGE, SONGIR, DHULE



## DEPARTMENT OF CHEMISTRY (Academic Year – 2019-2020)



# INDUSTRIAL VISIT REPORT

Submitted By,

Name of the Student  *Harshal Rajendra Patel.*

Class  *TY Bsc.*

Exam Seat Number  *369174*



# CERTIFICATE

This is to certify that, Mr./Ms. Harshal Rajendra Patel


has been attended the Academic Industrial Tour to the

CHAITANYAVAN SANSTHAN, Sondale, Tal.- Shindkheda,

Dist.- Dhule arranged by the Department of Chemistry,

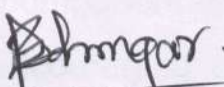
BSSPM's Arts, Commerce and Science College, Songir, Dhule


on the date 23/02/2020 in the Academic Year – 2019-2020

  
**Tour Incharge**

  
**Head of Department**

  
**Internal Examiner**

  
**External Examiner**



**Principal**  
Bahujan Samaj Shikshan Prasarak Mandal's  
Arts Commerce & Science College  
Songir, Tal.& Dist.Dhule



# ACKNOWLEDGEMENT

A resolute effort to achieve the target backed by self-confidence is the key to success. Well planned efforts in the right direction surely fructify in success, but efforts are fruitful only due to kindness, love and blessings of infinite number of people who have touched our life. We wish to express my earnest thanks to each one of them. First and foremost, we express my deepest sense of gratitude from the bottom of heart to our college Chairman Honorable Shri. Amrutrao Keshavrao Kasar and Honorable Principal Dr. K. B. Patil for giving us the permission and guidance for this tour. We express our deep sense of gratitude to our tour incharge for making available all the facilities for arranging Industrial Tour and time to time help.

We express our sincere thanks to our Head of the Department Prof. D. B. Dhangar, all the teaching staff members Dr. N. S. Sonawane, Dr. R. S. Dhivare and Prof. N. B. Sonawane for their invaluable help and constant encouragement throughout the tour by allowing all facilities. Also express the sincere thanks to the non-teaching staff Mr. Deore and Ms. Kasar madam for their assistance.

Last but not the least, we must express our feelings of gratitude towards one of the major component of our life – our **Parents** and dear **all friends** were always encouraging and were at front to maintain my enthusiasm.

*All the Students of*

*T.Y.B.Sc. Chemistry*



## Industrial Visit Details

1. **Name of the Industry:** Chaitanyavan Herbal Plants
2. **Location:** Sondale, Tal-Shindkheda Dist - Dhule
3. **Date and Time:** 16/02/2020 at 10.00 am
4. **Person contacted and available during visit:**
5. **Type of Industry:** Herbal Plants
6. **Geographical Position:**





## Introduction:

CHAITANYAVAN SANSTHAN is located at Sondale, Tal-Shindkheda Dist – Dhule. It is famous for herbal medicines. Here we saw the famous plant of the herbal medicinal shrubs, herbs, meditational trees in this area. Beauty n Health through Herbs; Catering to the market demands of well-researched formulation based on pure herbal and quality Ayurvedic products, offer to our clients with the wide range of superior grade Ayurvedic merchandises. Today, our consistency in delivering well established and branded range of Ayurvedic and herbal products has helped us in our emergence as one of the reputed and leading suppliers in beauty & health segment. Further, the complete manufacturing & research carried out at our own hygienic premises helps us assure our clients of their genuineness and enables us to offer them superior quality products. Medicinal plants, also called medicinal herbs, have been discovered and used in traditional medicine practices since prehistoric times. Plants synthesize hundreds of chemical compounds for functions including defense against insects, fungi, diseases, and herbivorous mammals. Numerous phytochemicals with potential or established biological activity have been identified. However, since a single plant contains widely diverse phytochemicals, the effects of using a whole plant as medicine are uncertain

## Medicinal and Herbal Plants:

### Aloe Vera:



Aloe Vera is a succulent plant species of the genus Aloe. An evergreen perennial, it originates from the Arabian Peninsula, but grows wild in tropical, semi-tropical, and arid climates around the world. It is cultivated for agricultural and medicinal uses.

Scientific name: Aloe vera

Family: Asphodelaceae

Kingdom: Plantae

Order: Asparagales

Rank: Species

Higher classification: Aloes

**Uses:** Aloe vera is the oldest medicinal plant ever known and the most applied medicinal plant worldwide. Extracts of Aloe vera is a proven skin healer. Aloe vera help to soothe skin injuries affected by burning, skin irritations, cuts and insect bites, and its bactericidal properties relieve itching and skin swellings.



## Gunj:



*Abrus precatorius*, commonly known as jequirity bean or rosary pea, is an herbaceous flowering plant in the bean family Fabaceae. It is a slender, perennial climber with long, pinnate-leafleted leaves that twines around trees, shrubs, and hedges.

### Scientific classification

Kingdom: Plantae  
(unranked): Angiosperms  
(unranked): Eudicots  
(unranked): Rosids  
Order: Fabales  
Family: Fabaceae  
Genus: *Abrus*

**Uses:** *Abrus precatorius*, called *kundu mani* in Tamil, *Guruvinda ginja* in Telugu and 'Kunni kuru' in Malayalam, has been used in Siddha medicine for centuries. The white variety is used to prepare oil that is claimed to be an aphrodisiac. A tea is made from the leaves and used for fevers, coughs and colds. Seeds are poisonous and therefore are only consumed after heat treatment

## Vicks VapoRub



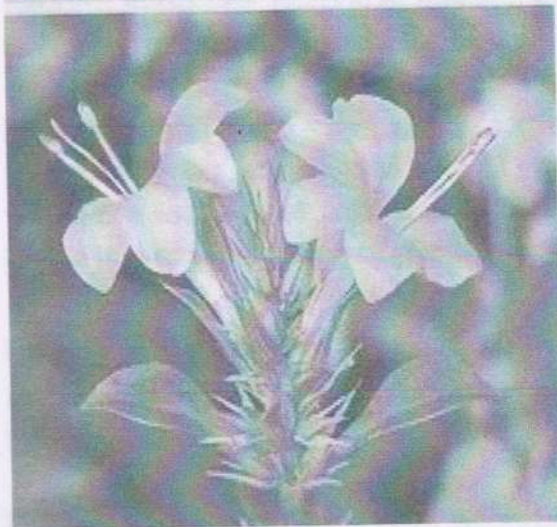
Vicks VapoRub is a mentholated topical ointment, part of the Vicks brand of over-the-counter medications owned by the American pharmaceutical company Procter & Gamble. VapoRub is intended for use on the chest, back and throat for cough suppression or on muscles and joints for minor aches and pains. Users of VapoRub often apply it immediately before sleep

**Uses:** VapoRub can be inhaled with hot steam. Since VapoRub ointment is an oil-based medication, it should not be used under or inside the nose or inside the mouth, and it should not be swallowed. Any oil-based product can get into the lungs if used improperly. In pre-clinical animal studies, the application of Vicks VapoRub directly onto the tracheae of ferrets caused an increase in mucus production compared to a water-based lubricant, It has also been used to treat mosquito bites



### Vajradanti:

#### *Barleria prionitis*



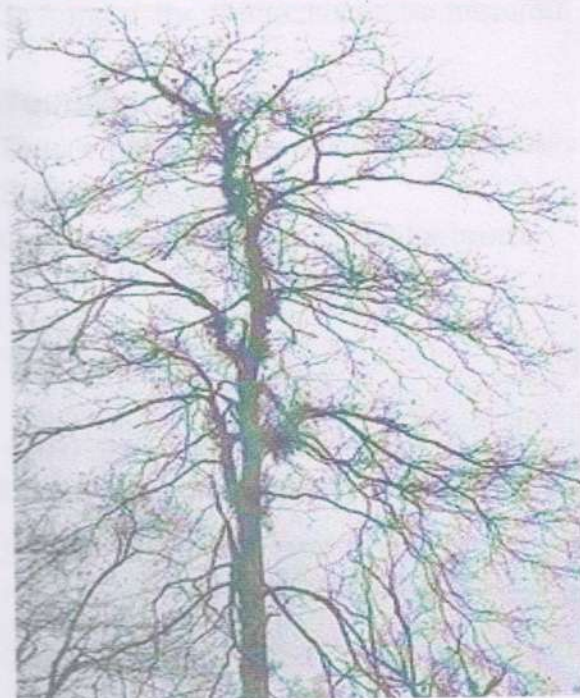
*Barleria prionitis* vjadanti also known as the porcupine flower, is a species of plant in the family Acanthaceae, native to India, Sri Lanka and Eastern Southern and Central Africa

Kingdom: Plantae  
Clade: Tracheophytes  
Clade: Angiosperms  
Clade: Eudicots  
Clade: Asterids  
Order: Lamiales  
Family: Acanthaceae  
Genus: *Barleria*  
Species: *B. prionitis*

**Uses:** It is used for various medicinal purposes in ayurvedic medicine. The juice of the leaves is applied to feet to prevent maceration and cracking in the monsoon season

### Harda:

#### *Terminalia chebula*



*Terminalia chebula*, commonly known as black- or chebulic myrobalan, is a species of *Terminalia*, native to South Asia from India and Nepal east to southwest China (Yunnan), and south to Sri Lanka, Malaysia, and Vietnam

#### Scientific classification

Kingdom: Plantae  
Clade: Tracheophytes  
Clade: Angiosperms  
Clade: Eudicots  
Clade: Rosids  
Order: Myrtales  
Family: Combretaceae  
Genus: *Terminalia*  
Species: *T. chebula*

**Uses:** *Terminalia chebula* is the main ingredient in the Ayurvedic formulation *Triphala* which is used for kidney and liver dysfunctions. The dried fruit is also used in Ayurveda as a purported antitussive, cardiotonic, homeostatic, diuretic, and laxative



### Description of the herbal and medicinal plants:

The ability to synthesize a wide variety of chemical compounds that are used to perform important biological functions, and to defend against attack from predators such as insects, fungi and herbivorous mammals is called herbal medicine. Many of these phytochemicals have beneficial effects on long-term health when consumed by humans, and can be used to effectively treat human diseases. These phytochemicals are divided into (1) primary metabolites such as sugars and fats, which are found in all plants; and (2) secondary metabolites – compounds which are found in a smaller range of plants, serving a more specific function.

### Process Control:

Precaution should be taken of all the medicinal and herbal plants from animals and trespassers.

### List of some products can be made from medicinal and herbal plants:

- |                 |              |                            |
|-----------------|--------------|----------------------------|
| 1) Tooth paste  | 2) Shampoo   | 3) Vicks Vaporubs          |
| 4) Cough syrups | 5) Ointments | 6) Health Supplements etc. |

### Research Facility:

- 1) Is there research facility in the visited place : **Yes**  
2) Nature of research : **Field oriented work**  
3) Type of the products can be prepared : **Human health related**

### Pollution:

Totally pollution free environment in the visited place.

### Safety Aspects:

Care should be taken for all the trees.

### Summary:

- i) visit time is not mention  
ii) Information about medicinal plants is very nice.  
iii) Mr. Jain was delivered very nice information about medicinal plants -

Date: 23/2/2020

Place: Songir

Signature of Tour Incharge

Students Signature

External Signature





Bahujan Samaj Shikshan Prasarak Mandal's

# ARTS, COMMERCE & SCIENCE COLLEGE

Songir, Tal. & Dist. Dhule - 424309

[ U.G.C. recognized under the section of 2F & 12(B)-Aided, & Affiliated to K.B.C.N.M.U. Jalgaon ]

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Outward No.:-

Date:- 20/02/2020

To,

The President,

Chaitanyavan Sansthan,

Sondle, Tal-Shindkheda,

Dist - Dhule

**Subject:** To grant permission for industrial visit .on 23/02/2020 - 9.00am

Respected Sir,

With the reference of the above cited subject, we the teachers decided to give some practical knowledge to the T.Y.B.Sc. Chemistry students about the industrial procedure and its facility, Total 38 students will be the part of trip accompanied by four teachers and we just take a day for this industrial visit. Hope you understand the need of the trip for the education purpose and grant us the permission for the same.

Thanking you,

Yours faithfully,

\* Incharge

- 1) Prof. Dr. N.S. Sonwane
- 2) Prof. D.B. Bhargava Phimgar
- 3) Dr. R.S. Dhivse
- 4) Prof. N.B. Sonwane
- 5) Shri V.T. Deorve

प्राचार्य

कला, वाणिज्य व विज्ञान महा.  
सोनगीर, ता.जि.धुळे



CH-369  
2019-20

BSSPM's Arts, Commerce & Science College, Songir Tal & Dist Dhule

T.Y.B.Sc. (Chemistry) Industrial Tour 2019-20(Chaitanyavan Harbal Industries,Sondale,Shindakheda-23/02/2020)

Sr. No.	Name of the student
1	Borase Purushottam Dangal
2	Borse Jayesh Peakash
3	Chaudhari Ashwini Bhatu
4	Dhangar Sushma Anil
5	Gujar Vaishnavi Shamkant
6	Jadhav Dnyaneshwar Bhikan
7	Khairnar Prashant Anil
8	Khairnar Purushottam Yashwant
9	Mahajan Komal Rohidas
10	Mahale Pradnya Sunil
11	Mali Kalyani Arun
12	Mali Kunal Dilip
13	Marathe Punam Rajendra
14	Nikam Chetan Lotan
15	Patel Harshal Rajendra
16	Patil Ananda Ramesh
17	Patil Harshada Dilip
18	Patil Nilesh Nimbaji
19	Patil Tushar Murlidhar
20	Patil Walmik Natthu
21	Sonawane Gayatri Devising
22	Talegavkar Ankit Tushar
23	Thakare Jagdish Manohar
24	Varma Nikita Lakhari
25	Wagh Aishwarya Bhaiyyasaheb