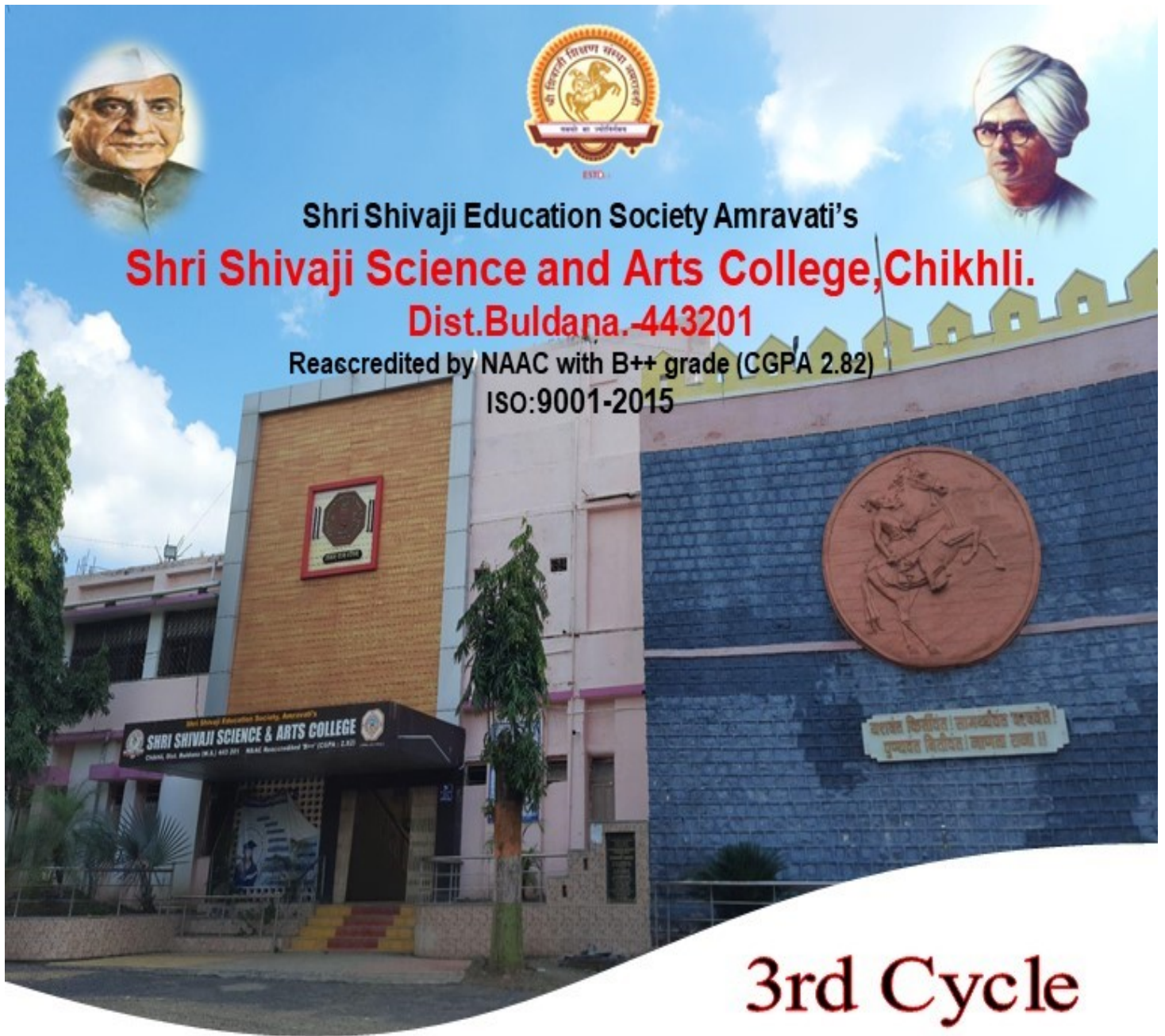




3rd Cycle Assessment & Accreditation by NAAC

CRITERION-I Curricular Aspects

QnM-1.3.2

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



Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI SCIENCE & ARTS COLLEGE
CHIKHLI DIST. BULDANA



Shri Harshawardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati

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Re-accredited by NAAC with B++ Grade [CGPA - 2.82]

Dr. Omraj S. Deshmukh
Principal
M.Sc., Ph.D.

Ref.No. SSSAC/IQAC/2022.

Date: 31/8/2022

Self Declaration

This is to certify that, the information, reports, true copies of the supporting documents, numerical data, and weblinks furnished in this file are verified by IQAC and the head of the institution and found correct.

Hence this certificate is issued.

V. U. Pochhi
Dr. V. U. Pochhi
Coordinator
IQAC, Shri Shivaji Sci. & Arts
College, Chikhli Dist. Buldana



Dr. Omraj S. Deshmukh
Dr. Omraj S. Deshmukh
PRINCIPAL
Shri Shivaji Science & Arts
College, Chikhli, Dist. Buldana

Percentage of students undertaking project work/field work/ internships

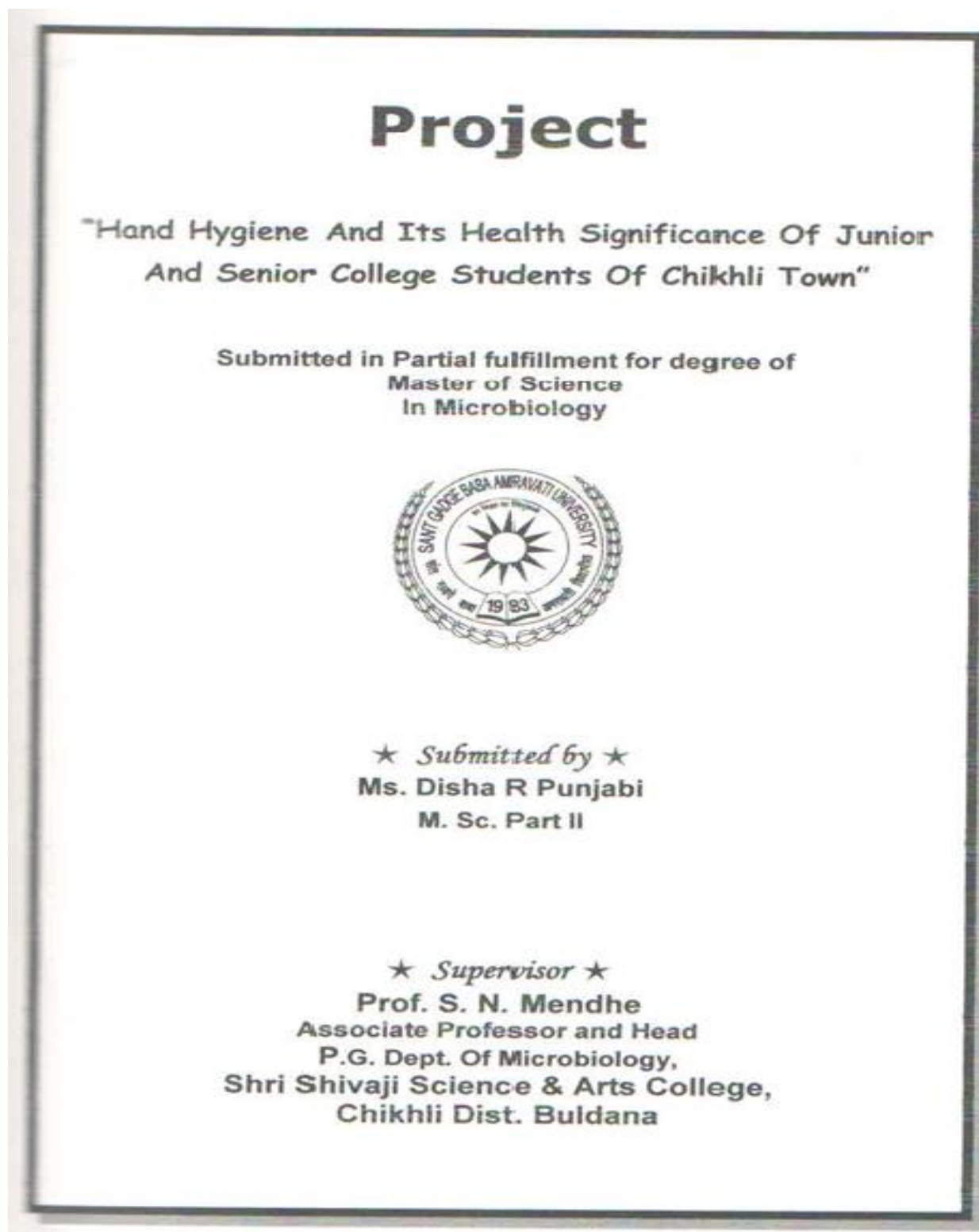
Content

Self Declaration				
Sr. No	Year	Name of Course	Project Work/ Field Work/ Internship	Page No.
1	2021-22	MSc-Microbiology (Sem-IV)	Project Work	02
2		MSc- Computer Science (Sem-IV)	Project Work	29
3		Zoology-BSc-III	Project Work	40
4		Botany BSc-III	Project Work	61
5		Comp. Science-BSc-III	Project Work	67
6		Electronics-BSc-III	Project Work	76
7		Zoology-BSc-II	Field Work	94
8		Botany-BSc-II	Field Work	106
9		Microbiology	Internship	117
10		Commerce -MCom-I & MCom-II	Internship	128
11		Commerce -BCom-III	Internship	130
12		Commerce -BCom-III	Project Work	146
13		Microbiology BSc-II	Internship	155
14		Commerce-BCom-I	Internship	209
15		Computer Science BSc-II	Project Work	262

Percentage of students undertaking project work/field work/ internships

Project Work

MSc-II Microbiology- Project Work



Certificate

This is to certify that a Project entitled **"Hand Hygiene And Its Health Significance Of Junior And Senior College Students Of Chikhli Town"** has been submitted in partial fulfillment for the award of degree of Master of Science in Microbiology, Sant Gadge Baba Amravati University, Amravati has been prepared by **Ms. Disha R. Punjabi** under my guidance and supervision.

Date: 06/06/2022

Place: Chikhli



A handwritten signature in blue ink, appearing to read "S. N. Mendhe".

Supervisor and Head
Prof. S. N. Mendhe
Head

Dept. of Microbiology
Shri Shivaji Science & Arts College
Chikhli, Dist. Buldana

DECLARATION

I hereby declared that the experimental work and its interpretation of the project entitled **"Hand Hygiene And Its Health Significance Of Junior And Senior College Students Of Chikhli Town"** has not been submitted for any other degree or diploma of the university nor the data have been derived from any thesis/publication of any university or scientific organization. The sources of material used and all assistant received during the course of investigation have been duly acknowledged.

Date : 06/06/2022

Place : Chikhli


(Ms. D. R. Punjabi)




Forwarded

Head
Dept. of Microbiology
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Chikhli, Dist. Buldana


Supervisor and Head
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Shri Shivaji Science & Arts College
Chikhli, Dist. Buldana

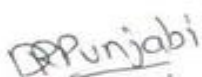
ACKNOWLEDGEMENT

*This is my golden opportunity to express my heartfelt gratitude to respected **Prof. S. N. Mendhe**, Professor and Head, P.G. Department of Microbiology for their proper guidance and supervision to lead my work for completion.*

*I express my sincere gratitude to **Mr. S. A. Shinde** for their proper guidance.*

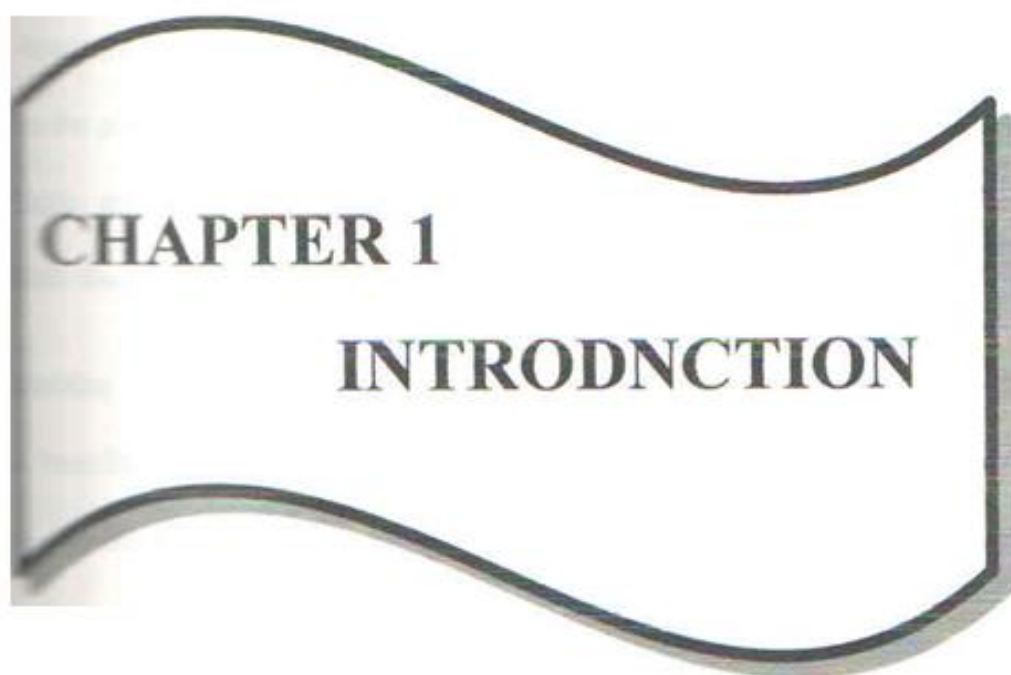
I am very much thankful to all the teaching and non-teaching staff members for extending their co-operation in completing project, without their timely and precious guidance it was just impossible for me to complete my work.

It is my duty to acknowledge with thanks to all my classmates. My brother and my parents for their inspiration and support.


(Ms. D. R. Punjabi)

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Introduction:

Hands are the primary mode of transmission of many infectious diseases, particularly among those living and working in proximity to one another such as in military barracks, college dormitories, and summer camps. As with hospitals and correctional facilities, dormitories and schools have significant predisposing factors for potential cross-contamination and transmission. Close environments, doorknobs and other inanimate objects serving as resting grounds for microbes, and contaminated hands among vehicles of transmission all contribute to increased infection rates among these groups. According to the US centres for disease control and prevention and the association for professional in infection control and epidemiology, simple hand washing is the single most important and effective method of preventing the spread of communicable disease (Garner *et al.*, 1986).

Teaching appropriate hand hygiene practices can promote wellness and have numerous benefits in a wide variety of settings such as learning institutions including military centers, elementary and high schools, and universities. Appropriate hand hygiene practices such as hand washing and hand sanitization can potentially result in the reduction of the spread of infection and the resulting lost days due to absenteeism. Research combined with a convenient hand hygiene regimen was found to significantly increase the frequency of hand washing among elementary school students (Early *et al.*, 1988). Several studies have demonstrated that appropriate hand washing can reduce upper respiratory illness and diarrhea rates among children in day care settings (Willingham *et al.*, 1997).

The efficacy of hand washing in reducing upper respiratory illness has also been demonstrated in a study of navy recruits during basic training. (Ryan *et al.*, 2001).

Conventional hand washing with soap and water is an excellent component of a hand hygiene program to reduce the risk of infection through hand contact, however, the complexity of behavior and the difficulty of maintaining compliance to basic hand washing practices are challenges to overcome, especially in the school environment. (Day *et al.*, 1993). Hand hygiene practices are difficult to perform due to factors such as time constraints and the lack of sinks in most classroom environments. In these situations, an alternative to the conventional hand hygiene practice of hand washing with soap and water is the use of a waterless alcohol gel hand sanitizer. Waterless hand sanitizers, such as alcohol gels, offer quick, easy, and effective hand hygiene. Hammond *et al.* demonstrated that elementary school absenteeism due to illness was significantly reduced when students practiced good hand hygiene by using an alcohol gel sanitizer. (Cindy White *et al.*, 2003).

Clean hands are the single most important factor in preventing the spread of pathogens and reduce the incidence of infections. CDC estimates that each year nearly 2 million people in the United States get an infection due to dirty hands, and about 99,000 of these die as a result of their infections. The good hand hygiene practices promote health safety and prevent infections (CDC, 2002). Every day, diarrhoeal diseases from easily preventable causes claim the lives of approximately 5000 young children throughout the world. Personal hygiene and basic sanitation can cut this toll dramatically. A significant number of illnesses and deaths are reported annually as a result of unsanitary conditions. Diarrhea-related illnesses alone are estimated to cause two to three million deaths per year; a majority of the mortality occurs in children (Bern *et al.*, 1992). Infants and young children are the innocent victims of the worldwide failure to make basic sanitation services available to impoverished people.

CHAPTER 4
RESULTS AND DISCUSSION

Result And Discussions:-

Total 70 samples were collected from various classes of students from SriShivajicollege during 2014. These collected sample is then inoculated on macconkey broth under aseptic condition then this broth tubes were incubated at 37°C for 24hrs. Then after incubation the colour get changes i.e from pink to yellowish then further inoculating on selective media showed that greenish metallic shine colony were seen on EMB agar and jet black coloured colony were seen on BSA.and after biochemical test *Escherichia coli* and *Salmonella typhi* were identified. A total 140 samples of students were collected from different classes of Shivaji College Chikhli. A total of 140 swab samples of 70 students were collected. Out of 70 students, 20 students from 11 and 12 class students, 30 from under graduates students, and 20 from post graduates students were randomly selected for study .The left and right hand of each students were swabbed Hands were washed thoroughly with water and soap.

Hands were swabbed with the help of sterilized cotton bud soaked in 0.85% saline solution and then these hand swabbed were added directly into 5ml macconkey broth under aseptic conditions and incubated at 37°C for 24 hours. A 0.5 ml broth culture from each was inoculated on sterilized mannitol salt agar plate, bismuth sulphite agar plat ,and on eosine methylene blue agar plate and uniformly spread and incubated at 37°C for 24 hours.

After incubation, different types of colonies were isolated. The distinct colonies were screened and selected on the basis of morphology, cultural characteristics and identified on the basis of standard test. (Shirsatet *al.*, 2007)

The selective media were such as mannitol salt agar (MSA), Eosine methylene blue (EMB) and bismuth sulphite agar (BSA) used for the isolation of *Escherichia*

coli, *Salmonella typhi* and *Staphylococcus aureus*. After incubation period of 24 hours the result shown that there was 20% *Salmonella typhi* pathogen observed in 11th-12th, under graduate students hand swab samples and there was no growth on post-graduate students hand swab samples. The maximum growth observed in 11th 12th, class students samples *Escherichia coli* pathogen observed in 11th, 12th and percentage was 45% which was higher than under graduate class students hand swab samples. The bacterial colonies found on the bismuth sulphite agar (BSA) media, there was presence of *Salmonella typhi* as jet black coloured colonies. On eosine methylene blue (EMB) agar given greenish metallic shine well isolated colonies of *Escherichia coli* was found.

After isolation of *Salmonella typhi*, *Escherichia coli* taken for morphological and biochemical characterization. In all morphological and biochemical test *Escherichia coli* found gram negative motile and given indole positive methyl red positive voges proskauer negative, citrate negative test and in triple sugar iron (TSI) acid and gas present and no black precipitated observed and carbohydrate metabolism glucose lactose and mannitol ferments with acid and gas *salmonella typhi* found gram negative methyl red positive and voges proskauer negative and citrate positive test and in TSI test acid and gas present and in carbohydrate metabolism glucose and lactose ferments with acid and gas and in mannitol only gas was present. The isolates screened were identified by using the cultural, morphological and biochemical characteristics. So identification of screened isolates was confirmed as *Escherichia coli* and *Salmonella typhi*.

Table 4.1 Bacteriological examination of hand swab samples of different students from different classes.

Sr.no	Class	Date of collection of samples	B.H washing		Colonies on EMB agar	Colonies on BSA
			L.H	R.H		
1	11 th	6/12/2021	1	1	+ve	+ve
2	11 th	6/12/2021	1	1	+ve	+ve
3	11 th	6/12/2021	1	1	-ve	-ve
4	11 th	6/12/2021	1	1	-ve	-ve
5	11 th	6/12/2021	1	1	+ve	-ve
6	11 th	6/12/2021	1	1	-ve	-ve
7	11 th	6/12/2021	1	1	+ve	-ve
8	11 th	6/12/2021	1	1	+ve	-ve
9	11 th	6/12/2021	1	1	-ve	-ve
10	11 th	6/12/2021	1	1	-ve	-ve
11	12 th	6/12/2021	1	1	-ve	-ve
12	12 th	6/12/2021	1	1	+ve	+ve
13	12 th	6/12/2021	1	1	+ve	+ve
14	12 th	6/12/2021	1	1	-ve	-ve
15	12 th	6/12/2021	1	1	+ve	-ve
16	12 th	6/12/2021	1	1	+ve	-ve
17	12 th	6/12/2021	1	1	-ve	-ve
18	12 th	6/12/2021	1	1	-ve	-ve

19	12 th	6/12/2021	1	1	-ve	-ve
20	12 th	6/12/2021	1	1	-ve	-ve
21	B.Sc-1	13/12/2021	1	1	-ve	-ve
22	B.sc-1	13/12/2021	1	1	+ve	+ve
23	B.sc-1	13/12/2021	1	1	+ve	-ve
24	B.sc-1	13/12/2021	1	1	+ve	-ve
25	B.sc-1	13/12/2021	1	1	+ve	-ve
26	B.sc-1	13/12/2021	1	1	-ve	-ve
27	B.sc-1	13/12/2021	1	1	-ve	-ve
28	B.sc-1	13/12/2021	1	1	-ve	-ve
29	B.sc-1	13/12/2021	1	1	-ve	-ve
30	B.sc-1	13/12/2021	1	1	-ve	-ve
31	B.sc-2	20/12/2021	1	1	+ve	-ve
32	B.sc-2	20/12/2021	1	1	+ve	-ve
33	B.sc-2	20/12/2021	1	1	+ve	+ve
34	B.sc-2	20/12/2021	1	1	-ve	+ve
35	B.sc-2	20/12/2021	1	1	-ve	+ve
36	B.sc-2	20/12/2021	1	1	+ve	-ve
37	B.sc-2	20/12/2021	1	1	-ve	-ve
38	B.sc-2	20/12/2021	1	1	-ve	-ve
39	B.sc-2	20/12/2021	1	1	-ve	-ve
40	B.sc-2	20/12/2021	1	1	-ve	+ve
41	B.sc-3	20/12/2021	1	1	+ve	-ve
42	B.sc-3	20/12/2021	1	1	-ve	-ve

Table 4.4 Overall Bacteriological Status Of Hand Samples.

Sr.no	Class	Total samples	Total coliform	Faecal Coliform
1	Junior college students	20	13	11
2	Under graduate students	30	15	9
3	Post graduate student	20	8	4

Total seventy hand swab samples, in which 20 samples from junior college students, 30 samples from under graduate students and 20 from post graduate students were collected. Out of which 13 positive test were found for total coliform form junior college students, 15 positive test from under graduate students and 8 from post graduate students.

Now for further test for faecal coliform in which 11 positive samples were found from junior college students, 9 positive samples were found from under graduate students and 4 positive samples from post graduate students.

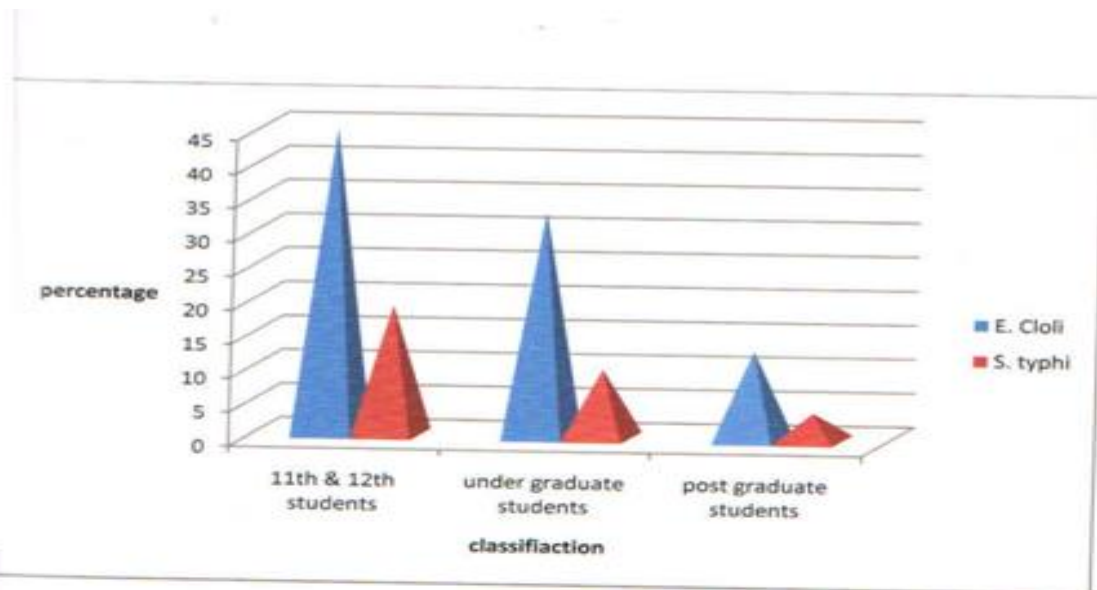


Fig 4.3 Shows percentage of presence of *Escherichia coli*, *Salmonella typhi* from hand samples of different class students.

From above figure, it is clear that PG level student have good hygienic status than those of other students. That graph shows that there was 20% *salmonella typhi* pathogen was observed in junior college students and in UGC level students it was somewhat low i.e 13.33% And in PG level students it was 5% which was lowest %. And in case of *Escherichia coli*, on PG level students hands swab *Escherichia coli* % was found to be 15%, and in UGC level students it was 36%, while in junior college students it was found up to 45%.

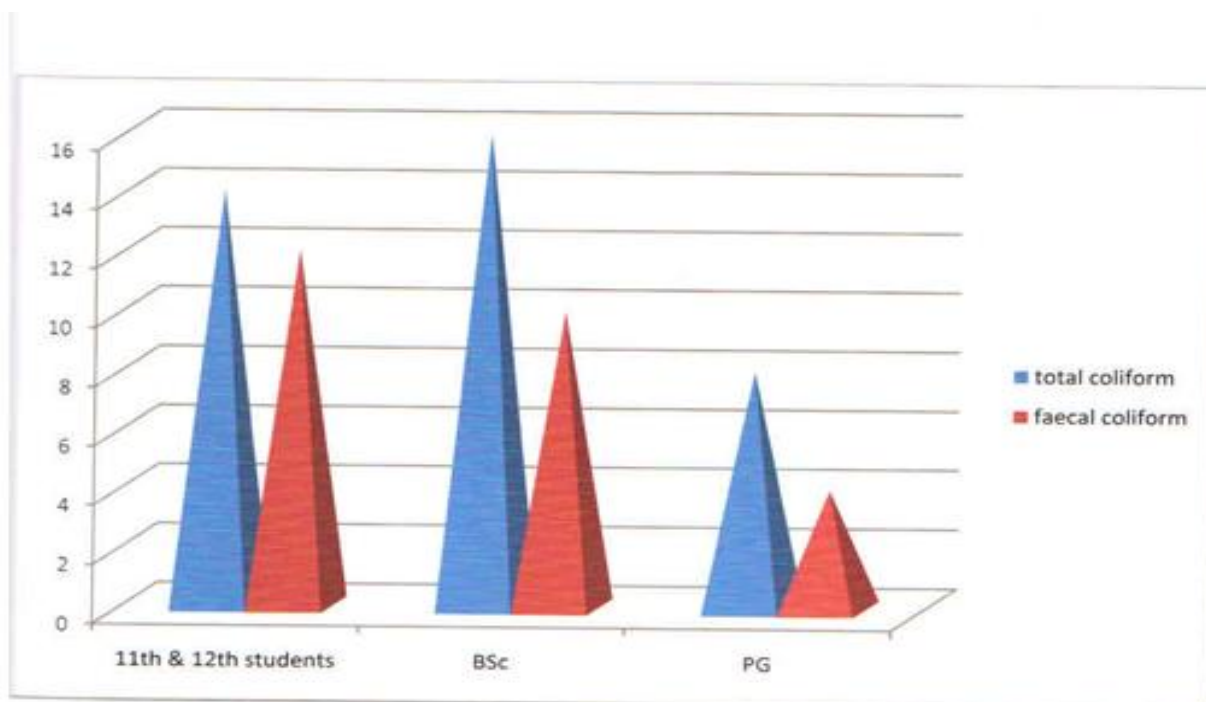
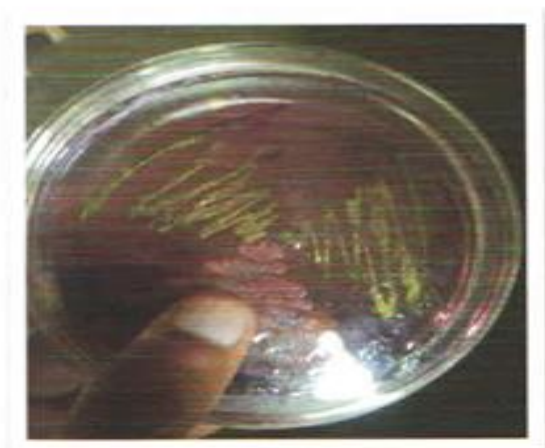


Fig. 4.4 Analysis Of Total Coli Form And Faecal Coliform

From above figure, total seventy hand swab samples, in which 20 samples from junior college students, 30 samples from under graduate students and 20 from post graduate students were collected. Out of which 13 positive test were found for total coliform from junior college students, 15 positive test from under graduate students and 8 from post graduate students.

Now for further test for faecal coliform in which 11 positive samples were found from junior college students, 9 positive samples were found from under graduate students and 4 positive samples from post graduate students.

PHOTOPLATE- Present of pathogenic bacteria on selctive medium



E.Coli on EMB agar



Salmonella typhi on BSA



Swab analysis of palm of hands in macconkey broth.

Discussion:

Up till now, lots of studies were done on hand hygiene. Our result in current study of hand hygiene status of students correlating with old studies.

Proper sanitation is important not only from the general health point of view but has a vital role to play in our individual and social life too. Students with dirty hands harbor more pathogens on right hand. The high bacterial load occurs as a result of multiple factors linked to hygiene practices and circumstances. Therefore, there is need to shift the focus and integrate hygiene awareness and education programmes to influence behavior change.

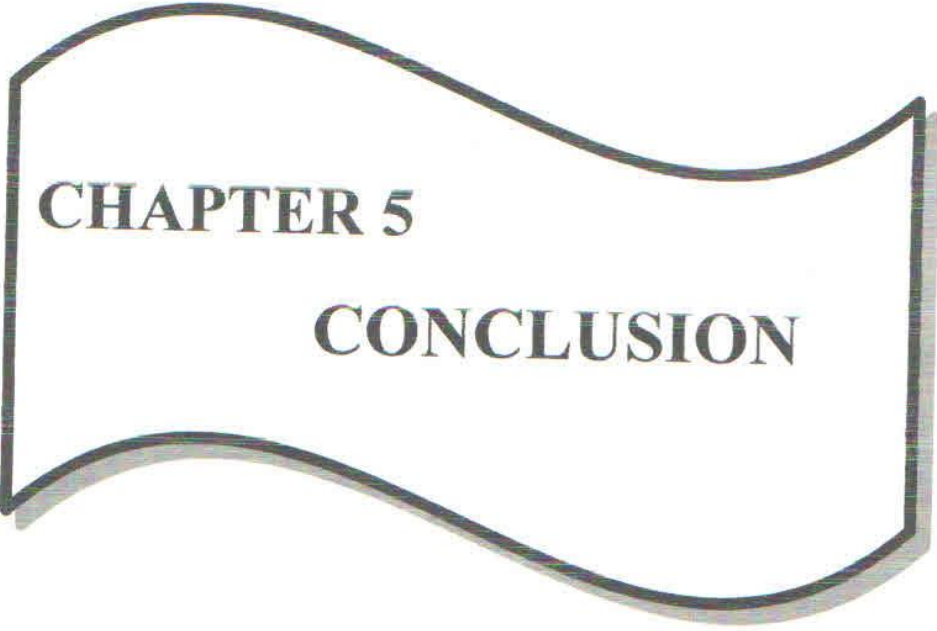
Age and education of the students also determines the degree of contamination and it decreased as education get increased of the students. it may be due to the carelessness and playing habits of the students. Ambekar et al., (2007) also reported similar finding our recent study reported that as education increases degree of contamination decreases.

This study indicated that 70 samples were tested for isolation and identification of pathogen. This study indicates that samples were contaminated with bacteria. The experiment found that hands of all students were found to harbor bacterial pathogens which includes *Escherichia coli* (45%), *Salmonella typhi* (5%). The similar result were observed by Tambekar et al. (2009) found that hands of all students were found to harbor bacterial pathogens which include *Staphylococcus species*. (23%) *Escherichia coli* (28%), *Klebsiella species*. (10%), *Micrococcus species*. (9%), *Proteus species*. (7%), *Enterobacter species*. (7%), *Streptococcus species*. (7%), *Enterobacter species*. (7%), *Enterococcus species*. (4%), *Pseudomonas species*. (3%) and *Salmonella species*.

(2%) similarly our experiment also found that hands of all students were found to harbor bacterial pathogens which includes *Escherichia coli* (32%), *Salmonella typhi* (12%).

Rajankar *et al.*, (2007) maximum number of bacterial pathogens isolated included *Pseudomonas aeruginosa* (37%) followed by *Escherichia coli* (23%), *Proteus mirabilis* (20%), *Citrobacter freundii* (7%), *Klebsiella pneumoniae* (5%), *Staphylococcus aureus* (4%), *Enterobacter aerogenes* (3%) and *Salmonella typhi* (2%) our result also shown that bacterial pathogens isolated included *Escherichia coli* (15%), *Salmonella typhi* (5%). In current study, the presence of *Escherichia coli* found (32%). The presence of *Salmonella typhi* was found (12%) Pathogens were isolated from hands includes *Escherichia coli* (22%), *Pseudomonas aeruginosa* (12%), *Staphylococcus aureus* (15%), *Proteus mirabilis* (11%), *Citrobacter freundii* (10%), *Enterobacter aerogenes* (8%), *Streptococcus sp.* (7%), *Klebsiella sp.* (6%), *Micrococcus sp.* (5%) and *Salmonella typhi* (4%). The prevalence of the bacterial pathogens was high in students of 11 and 12th class students than those in UG and students similar result was found in our experimental study. The study showed that bacterial load on the hands of 11th-12th class students was more than on UG and PG students. Oniya *et al.* (2006) also recorded high bacterial contamination in KG and primary students as compared to UG and PG students.

In this study 2 pathogenic bacteria were isolated *salmonella typhi* from all class students and *Escherichia coli* also have contamination from all class students but only difference in their percentage similar prevalence was found by Shirsat *et al.*, (2009).



CHAPTER 5

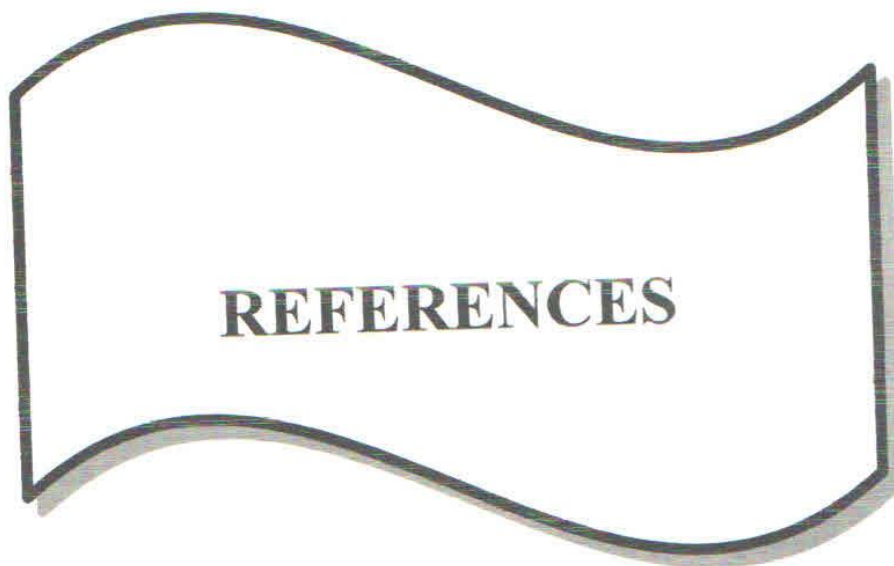
CONCLUSION

CONCLUSION

Proper hand washing and safe food water handling can control the most of the waterborne and food borne diseases. There was drastic decrease in the bacterial count after washing hands than in before hand washing which reduces the risk of entry of pathogens in body. All the students were found to harbor the pathogenic bacteria on their hands before hand washing. The present study showed clear evidence of 50% decrease in the microbial flora after hand washing. Therefore it was concluded that only a simple act of hand washing could prevent the enteric pathogens to enter in to the body and produce disease. Hand washing prevents the enteric pathogens being transferred that cause diarrhoeal diseases. Proper hand Washing can control the most of the diarrhoeal diseases. The present study showed clear evidence of degree of contamination is directly related to education and age factor.

Washing hands with water is not safe or 100% sure So use of soap or alcohol based sanitizers are safe to prevent the enteric pathogens being transeferred that cause diarrhoeal disease. Therefore the present study improve students overall health and well being by providing guidance on the importance of hand hygiene.

Clean hands are important in preventing the cause of any disease Hygiene or health education is too much nesecerry for preventing any disease. Most of people die anually due to diarrhea. Teaching appropriate hand hygiene practise can promote wellness and have numerous benefits in wide ranges. Entry of micro organism can be controlled by proper hand washing which reduces yhe rate of water borne and food borne disease. water contains number of organisms so washing hands with water is not safe use of soap is necessary to reduce the pathogens.



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MSc-II Computer Science- Project Work (Sample pages)

SANT GADAGEBABA AMARVATI UNIVERSITY,
AMARAVTI

Shri Shivaji Science & Arts College Chikhli, Dist. Buldhana(M.S.)



॥ ज्ञानं परमं धनम् ॥

A PROJECT REPORT ON “BIDDING”

Submitted by

Rishikesh V. Chechare

Mayur G. Umre

Vishal p. Dhare

M.Sc Computer Science

Guided By

Dr. A.B.Kadam

2021-2022

Shri Shivaji Science & Arts College Chikhli
Department of Computer Science

Certificate



This is to certify that Mr. *Rishikesh Vijay Chechare*, *Mayur G. Umre*,
Vishal P. Dhare, *M.Sc (Computer Science) II Year* has satisfactorily completed
Project entitled “**Online Bidding Management System** ” for the partial
fulfilment of Master in Computer Science Sant Gadage Baba Amravti University,
Amaravti for academic year 2021-2022.

Project Guide

Dr.A.B.Kadam

External Examiner

Head of Department

Dr.A.B.Kadam

Head

Dept. Of Computer Science
Shri Shivaji Sci. & Arts College
Chikhli, Dist :- BULDANA (M.S.)

DECLARATION

I hereby that the present project work in the form entitled "**Online Bidding management System**", is an original work carried out by me under the guidance of **Dr.A.B. Kadam , H.O.D, Department of Computer Science**, Shri Shivaji Science & Arts College Chikhli for the submission of degree of Master in Computer Science to Sant Gadge Baba Amravti University, Amaravti.

I further declare that to the best of my knowledge the project does not contain any part of any work, which has been submitted for the award of any Degree, either in this University or any other University without proper citation.

I further declare that the material referred from other sources has duly acknowledged in the Project.

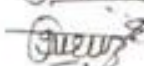
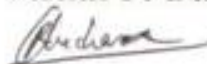
ACKNOWLEDGEMENT

We avail this to express out deep sense of gratitude and whole hearted thankful to our guidance **DR.A.B.Kadam** sir for this valuable guidance, suggestion and encouragement to embark this project.

We are also thankful to our Honorable principle **Dr.O.S. Deshmukh** who for providing us that kind of Opportunity.

We are also thankful to our Computer Science department staff Professors **Dr. Mukti Jadhav, Dr.S.S.Gaikwad, Mr.S.D.Burkul and Mr. S.A.Chavan & P.S. Sonune (Lab Attendant)** to help us in this Project complication.

Yours Faithfull
Rishikesh v. Chechare
Mayur G. Umre
Vishal P. Dhare



ABSTRACT

Biddings are among the oldest economic institutions in place. They have been used since antiquity to sell a wide variety of goods, and their basic form has remained unchanged. In this dissertation, we explore the efficiency of common Biddings when values are interdependent- the value to a particular bidder may depend on information available only to others-and asymmetric. In this setting, it is well known that sealed-bid Biddings do not achieve efficient allocations in general since they do not allow the information held by different bidders to be shared.

Typically, in a Bidding, say of the kind used to sell art, the Bidding sets a relatively low initial price. This price is then increased until only one bidder is willing to buy the object, and the exact way this is done varies. In my model a bidder who drops out at some price can "reenter" at a higher price.

With the invention of E-commerce technologies over the Internet the opportunity to bid from the comfort of one's own home has seen a change like never seen before. Within the span of a few short years, what may have begun as an experimental idea has grown to an immensely popular hobby, and in some cases, a means of livelihood, the online Bidding gathers tremendous response every day, all day. With the point and click of the mouse, one may bid on an item they may need or just want, and in moments they find that either they are the top bidder or someone else wants it more, and you're outbid! The excitement of a Bidding all from the comfort of home is a completely different experience.

The levels of comfort may rise soon but the rules to be followed remain the same. In fact, may rise with the new technologies.

Society cannot seem to escape the criminal element in the physical world, and so it is the same with online Biddings. This is one area wherein a question can be raised as to how safe online Biddings.

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Chapter 3

Objective of the Project

Objectives of the System

The process of an online Bidding is much the same as a live Bidding. This means that users place bids for items, and the goods get sold to the highest bidder. You are notified through email on the status of your bids, which is when you place a bid, when you've been outbid and when you've won an item.

To bid for an item, there is a bidding form through which you may place bids on the item. To bid on an item, enter your bid amount. While entering your bid, you need to consider the bid increment. The bid increment is the amount by which each bid increases. The seller sets this amount. The bid amount should be one bid increment or more above the current leading bid specified on the item page.

Automatic Bids and manual bids need not be exact multiples of the bid increment amount. Bids will only have to be one increment or more above the current bid to be accepted.

Example:

Bid increment amount - Rs. 20

Lets say the starting price is Re.1

Current highest bid is Rs. 21

Now in order to bid: -You can bid at anywhere above or equal to the current highest bid amount for your bid to be accepted, i.e. you can bid at anywhere between Rs. 21 to Rs. 41 (or more) for your bid to be accepted. -This means that you can bid at say Rs. 23 and the next current minimum bid will get adjusted to Rs. 43 (since the Bid Increment level is set to 20).

If you wish to place a higher bid, you may do so. For eg. - You can place a bid of Rs. 45. This would incorporate the current bid at Rs. 21 and the minimum bid increment of Rs. 20. The remaining Rs. 4 is the additional amount you have bid. Therefore, the user who bids after you would have to bid at least Rs. 65



(Rs. 45 of your bid and Rs. 20 of the bid increment)

The amount of the next minimum acceptable bid will be displayed in the "Bid Amount per item" text box.

To find more information about the product the description of that product must be referred. A description of every item is put up on the item page. This way you can acquire more information about the item. If it is convenient for you and the seller, you can also arrange to personally inspect the item.

To bid on multiple items is a special Bidding where a seller has more than one quantity of the item he or she wants to sell/bid. The seller selects the starting bid amount and indicates how many of these items are available for the Bidding.

A Bidding is a multiple Bidding or not can be known by checking the quantity box of the item. If there is number of quantities displayed is more than 1, then it is a MQA (Multiple Quantity Bidding)

CONCLUSION

The efficiency of any system designed to suit an organization depends cooperation during the implementation stage and also flexibility of the system to adopt itself to the organization. "Net-Aues" has been developed to overcome the problems with traditional Bidding systems.

As evidence of the success of this mission, there are millions of items listed each day in thousands of different categories. There are items for almost any interest that one could imagine, from sheet music to automobiles to hand tools to real estate. And the variety doesn't stop there. Need a computer? One may find it listed in the proper category, in any configuration from very old and obsolete to the latest greatest machine available. What about antiques? One can find an antique quilt that is up for highest bid, or maybe an old violin, whose beautiful tones have enchanted many though its years. Tickets. Maybe a ticket to the next concert of ones favorite artist or play production. One can even find that special bottle of wine, some aged, exotic cheese, and the perfect 'mood' music for that special occasion.

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Project Work
BSc-III
Zoology

6



॥ ज्ञानम् परम् ध्येयम् ॥

Shri Shivaji Education Society, Amravati's
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Internal Assessment - Assignment / Project Report / Seminar

Name of the Student Seushti Sanjay Ambhore

Class B.Sc IIIrd ye (Sem. V)

Academic Session : 20 21....., - 2022.....

Marks Obtained :4.....



॥ वाचं धेनुमुपासीत ॥

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CERTIFICATE

Name of Department: Zoology

Academic Session : 20 21 - 20 22

This is to certify that this Assignment/Project Report/Practical Book, Contains the Bonafide Record of Shri/Kumari/Shrimati Srushti Sanjay Ambhore of B.Sc. IIIrd yr (Semester V) during the academic Session 20 - 20

The Topic of the assignment / Project Report is Habitat Preferences and Breeding Biology of Geey fencolin

Dated 15 / 01 / 20 22

Signature of the Teacher
who guide / taught the Examinee.

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Note : In absence of certificate for Assignment / Project Report / Practical Book examine shall not be allowed to appear for the examination.

Name - Seushti Sanjay Ambhore.

Class - B.sc IIIrd year.

Sub - Zoology.

Project Topic - Habitat Preference and Breeding
Biology of Grey Francolin.

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ACKNOWLEDGEMENT

I thank my HOD mam to offer me the project on the topic HABITAT PREFERENCE AND BREEDING BIOLOGY OF GREY FRANCOLIN.

I thank her to knowledge with me on this topic. She help me to understand about Grey francolin. She has offered me variety of knowledge and her experience. She is my zoology teacher.

I personally thankful to uncle who give a lot of help to me for this project. They have their own form of grey francolin, where grow up of grey francolin at large scale. and their farm is located in Sakhal, which is seven kilometer from my village (Buldana)

I have two another member in my project group. Their names are ① Priyanka Misal and ② Vaishnavi Lahase and this project is completed in the group by me and my another two friends. Firstly we had visited to ~~that~~ their farm. There were only autoriksha available to went that village. After visiting farm we made conversation with the owner of farm. in this conversation we ask some questions about grey francolin and he gave the all answer of that questions very humbly. This information gone very helpful and useful to us for this project. So, I am very thankful to uncle, for this help.

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INTRODUCTION of Grey francolin

The grey francolin (Oxygornis pondicerianus) is a species of francolin found in the plains and drier parts of the Indian subcontinent and Iran. This species was formerly also called the grey partridge, not to be confused with the European grey partridge. They are mainly ground-living birds and are found in open cultivated lands as well as scrub forest and their local name of teetar is based on their calls, a loud and repeated Ka-tee-tar... tee-tar which is produced by one or more birds. The term teetar can also refer to other partridges and quails. During the breeding season calling males attract challengers, and decoys were used to trap these birds especially for fighting.

CLASSIFICATION of Grey francolin:

Scientific Classification:

Kingdom : Animalia
 Phylum : Chordata
 Class : Aves
 Order : Galliformes
 Family : Phasianidae
 Genus : Oxygornis
 Species : O. pondicerianus

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Subspecies -

There are three recognized subspecies:

- *O.p. interpositus* (Harterst, 1917) - north Indian grey francolin - northwest Indian Subcontinent
- *O.p. mecranensis* (Zarudny and Harms, -1913) - Baluchistan grey francolin - arid southeastern Iran and southern Pakistan
- *O.p. pondicerianus* (Gmelin, 1789) - nominate - southern India and Sri Lanka

Habitat and Distribution:

The grey francolin is normally found foraging on bare or low grass covered ground in scrub and open country, and is rarely found above an altitude of 500 m above sea level in India and 1200 m in Pakistan. The distribution is south of the foothills of the Himalayas westwards to the Indus Valley and eastwards to Bengal. It is also found in the north-western Sri Lanka. Introduced populations are found in the Andaman and Chagos Island. They have been introduced to Nevada in the United States of America and Hawaii, along with several other species of francolin.

Breeding Season:

Grey francolins are typically found in pairs but family parties or coveys of 4-8 birds are also known, which break up into pairs in the breeding season (Grimmett et al. 1998). Potts (1986) reported that both male and female choose a mate. These pairs remain together for whole life. However, since mortality of the mates was common, both sexes readily remate (Carroll, 1993).

Trippensee (1948) reported the breeding season of grey partridge (*Perdix - perdix*) extending from March to June, while Waite (1948) and Henry (1971)

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reported that grey francolin breeds during May, August and December. In faisalabad (Pakistan) its breeding season extended from March to September, However, large numbers of eggs were recorded in March and June, and maximum numbers of fledglings were reported in April to June (Ullah, 1991).

In pothwae area (Pakistan), grey francolin (*Francolinus pondicerianus*), breeds between end of March and mid of June (Hussain et al 2012) In Rajasthan (India). grey francolin has been reported to build nests in February - April and July - October in its native range, however, it breeds in kutch area from February to May and occasionally again in August and September (Sharma 1983)

Nest Constuction :

Nest of grey francolin always well concealed inside a clump of grass growing up through a thorn bush and it is only a deep bed on the ground, into which a few dead leaves blades are added by the female (Robert, 1991) Similarly, Hosking and Newberry (1944) stated that nest is scarped in ground, lined with a little grass or a few leaves. Mostly eggs while hen sits on

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them. Ali (1945) reported that the nest is a simple grass lined with scarps on the ground in grassland standing crops or scrub jungle. Bro et al.... (2004) observed grey partridge (*Perdix perdix*) clutches in the maize crops, which indicates that species also breeds in agricultural vegetation. Predation for this species eggs and chicks can be assumed higher as they made nests on grounds (Potts, 1980; Novoa et al...., 2002; Putaala and Hissa, 1998). The management of habitat did not have dominant effect on the breeding season in them. Hatching in the grey partridge during the first three weeks of their life has more chance to die, while female mortality becomes highest during incubation.

Sharma (1983) reported that grassland and ploughed field, and *Euphorbia* spp. were selected as nest sites by grey francolin during breeding season. According to Hussain et al., (2012), nests of grey francolin are mostly made with *Desmostachia bipinnata*, *Acacia modesta*, *Ziziphus jujuba*, *Euphorbia* spp. and *Imperata cylindrica* in agro-ecosystem of Pothwar Plateau, Pakistan. Johnsgard (1973) reported nests of grey partridge (~~Per~~ *Perdix-perdix*) in North America under some protective cover inside shady area for temperature modulation. However, there are reports that in India a nest was found in stacked pile of sorghum less than 1.5 m above the ground (Bump and Bump 1964).

Incubation Period :

Incubation is exclusively accomplished by the female in grey francolin (Islam 1999) and incubation period lasts for 18-19 days. When she incubates, the male remains close and gives alarm calls upon detecting threats (Johns, 1980). Hussain et al (2012) reported the incubation period of grey francolin was also reported in Delhi and in Pothwar region of Pakistan from 19 to 22 days. in Bump and Bump (1964) reported that grey francolin incubated eggs in 18 to 20 days in Washington state, on west coast of USA. While 18 to 19 days of incubation period in grey francolin was also reported in Delhi and Karachi areas (Ali and Ripley, 1983; Roberts, 1991).

Identification :

The head of female black francolin is curved with brown iris eyes colour and unique pattern of brown colour crown and the throat color is black. It has a length range around 33 to 36 cm and weight approximate about 453 g (16 oz) and the size of black with black breast rufous belly, white spot on flanks and golden brown spots on body. The flight pattern of black francolin is short, direct flight punctuated by glides with rounded wings, rounded tail narrow black and white bars.

Male :-

The male black francolin is black with a white patch on the cheek, a chestnut collar and white spots on the flanks. The back and wings are scalloped with shades of golden brown with sub-terminal tawny-buff bands and pale edges. The tail is black with narrow white or greyish bars. Its legs and neck are reddish-brown to red.

Female :

The female is mainly brown, but has a chestnut hind neck. The extent of the white spotting on the flanks varies substantially across the species range and the depth of colour of the females similarly varies. The female has the upper plumage, wings and tail as in the male but the black is replaced by mottled brown and the brown bars on the lower back and tail are wider. Female is similar but dull with no cheek patch.

General Information about Grey Francolin:

• Lower Classification

Black francolin
 Grey francolin
 Red-necked spurfowl
 Painted francolin
 Swamp francolin
 Natal spurfowl
 Grey-winged francolin
 Chinese francolin
 Red winged francolin
 Hildebrandt's spurfowl
 Djibouti spurfowl
 Moorland francolin
 Latham's francolin
 Clapperton's spurfowl
 Hartlaub's spurfowl
 Ring-necked francolin
 Mount Cameroon francolin
 Finsch's francolin
 Heuglin's spurfowl
 Jackson's spurfowl
 Schlegel's francolin

● Voice :

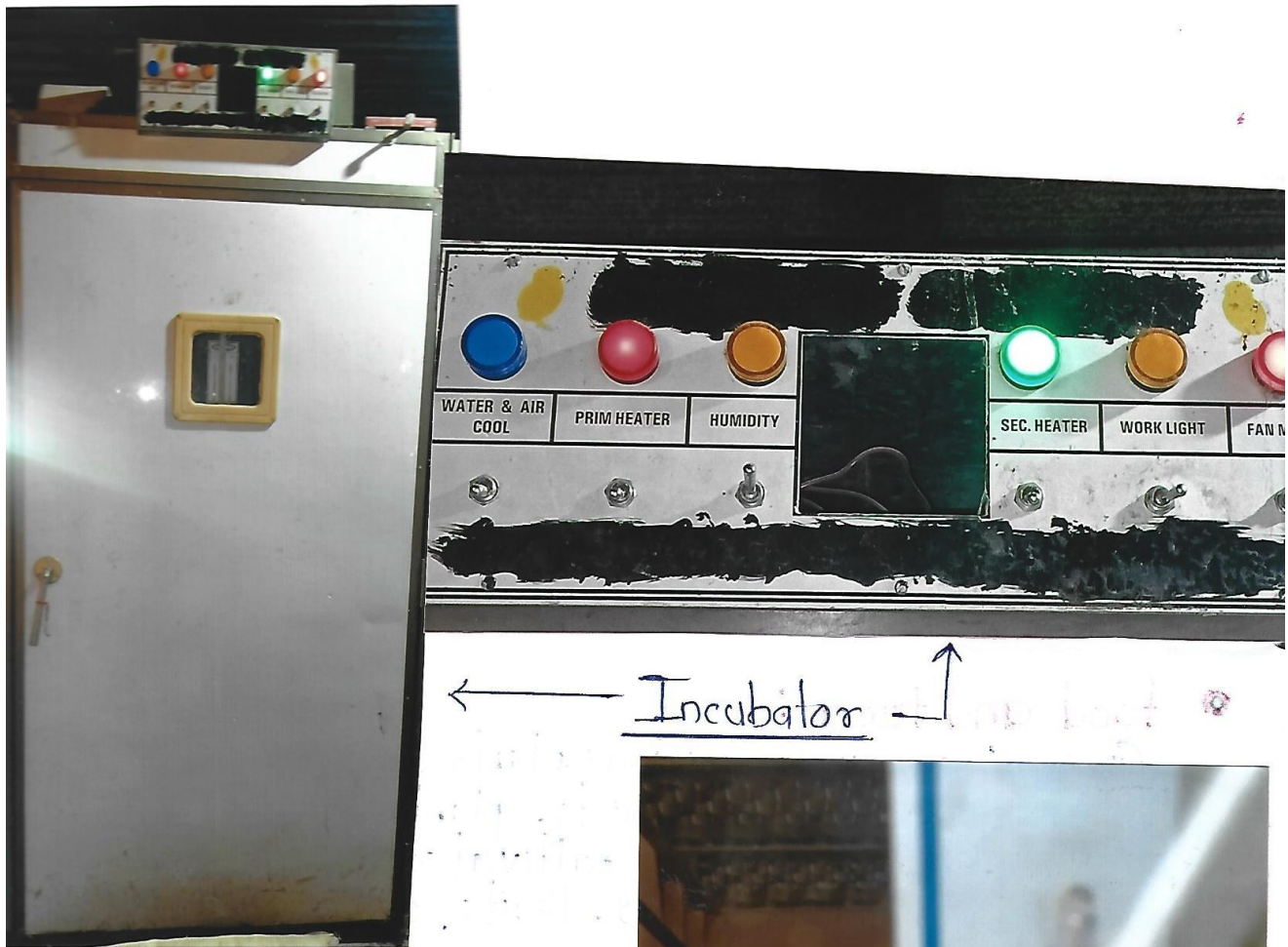
The call of Grey Francolin describe as a food ringing kik cheek - cheerakik or "kik - kik - kik", "kwee - kweeee - kwee" can be heard in the mornings and almost all day during the breeding season. The male calls standing on an earth mound, bund, rack or a low tree branch and is soon joined by other birds answering from all directions

● Food and feed :

Grey Francolin on various plants and animals, especially seeds and insects. plants, materials, include grass and weed seed, cultivated grains, buds, flowers leaves, rhizomes, fruits, and berries.

● Lifespan :

Average lifespan of Grey Francolin is 8 years. They roost at night up in thorny trees and bushes, and will often take shelter into these when harassed in day time.



Eggs of Grey francolin



Eggs for Incubation

- **Incubator :**

An incubator is a device simulating avian incubation by keeping eggs warm at a particular temperature range (37.5°C) and in the correct humidity with a turning mechanism to hatch ~~the~~ them.

- **Hatching Time :**

Grey francolin eggs take 23 days to hatch.

- **Egg laying capacity:**

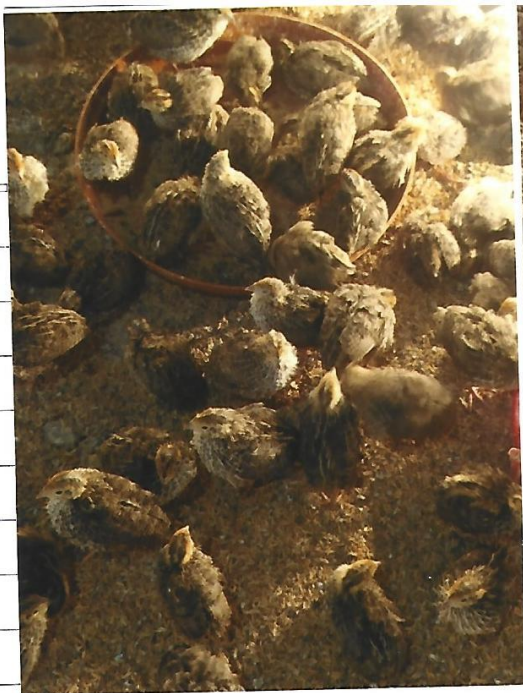
The clutch is six to eight eggs, but larger clutches, potentially reflecting intraspecific brood parasitism, have been noted.



1st day of Grey Francolin after incubation



8 Days Grey Francolin



(11)

20 Day's Grey Francolin



30 Day's Grey Francolin

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Aundaram



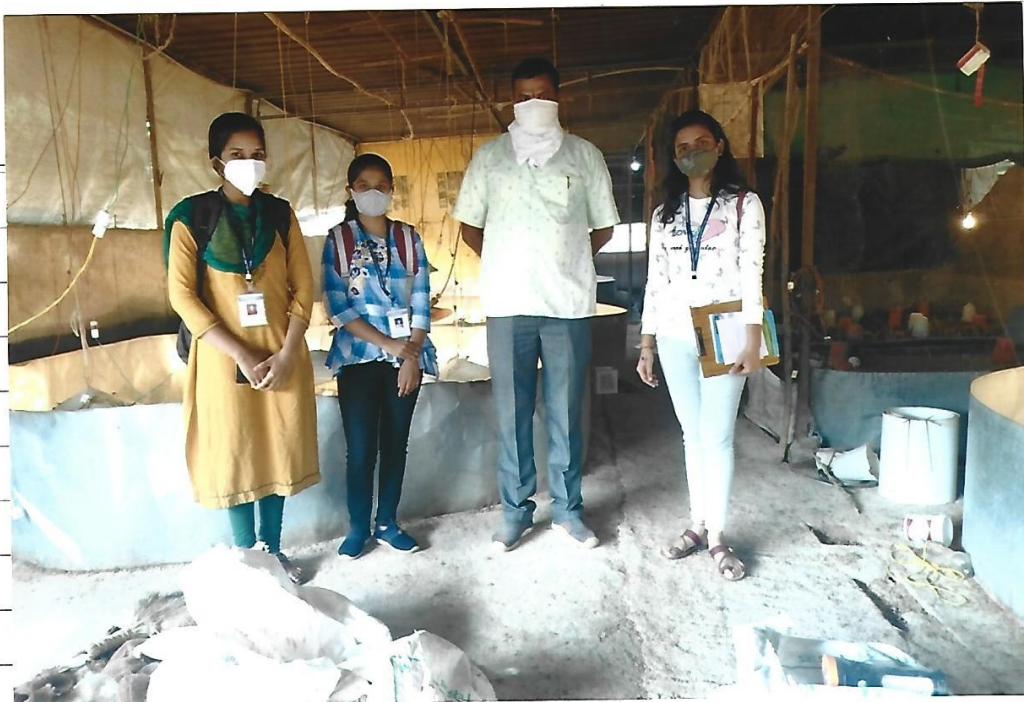
40 Days Grey Peafowl



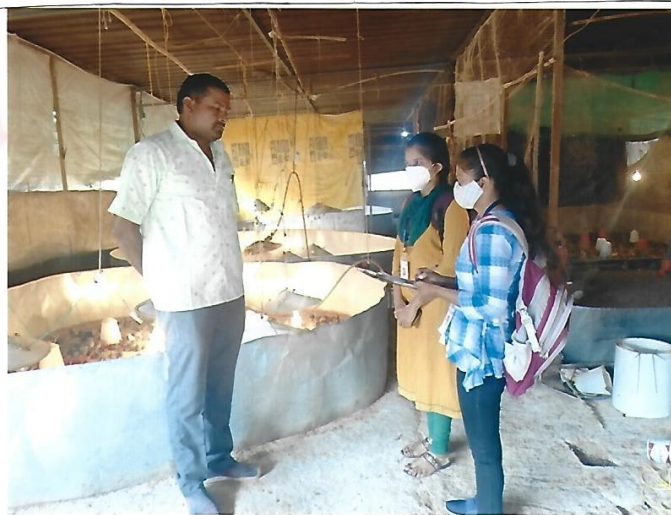
Dead Birds
[7-8 birds dead per day due to infection]



Overall arrangement of farm



(12)



CONCLUSION-

BECAME A GREAT EXPERIENCE TO MAKE PROJECT ON THIS TOPIC. IT PROVIDED LOTS OF KNOWLEDGE AND EXPERIENCE. THANK ALL OF THEM WHO SUPPORTED ME AND HELPED ME TO COMPLETE MY ASSIGNMENT SUCCESSFULLY.

THANK YOU...


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Project Work
BSc-I
Botany

Rauwolfia Serpentina



Classification

Kingdom - Plantae
Division - Magnoliophyta
Class - Magnoliopsida
Order - Gentianales
Family - Apocynaceae
Genus - Rauwolfia
Species - serpentina

Morphological Character :-

- 1) Small, Erect
- 2) Perennial evergreen under shrub
- 3) 50 cm Height
- 4) Leaves:- Long, elliptic lanceolate / obovate in whorls of 3-5
- 5) Inflorescence:- Long, stalked cyme bearing large no. of white / pink flowers
- 6) Fruit:- Purplish black Drype

Medicinal uses :-

- 1) It is used for reducing high blood pressure, mental hypertension
- 2) It is used on irritable condition of the central nervous system and increased heart beating
- 3) It acts as an effective tranquilizer in agitated madness and aggressive behavior. It is known as '° pagal - ka - dawa '±.
- 4) It is useful to improve personal appearance and feelings.
- 5) Reserpine is widely used in the treatment of violent kinds of insanity and used as sedative in chronic psychoses
- 6) Decoction of root is used for intestinal disorders

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Class: BSC. 1st year sem - 2



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Thyme



Classification

Kingdom : Plantae
Division : Magnoliophyta
Class : Magnoliopsida
Order : Lamiales
Family : Lamiaceae
Genus : Thymus

Morphological characters :

1. Thyme scientific name is Thymus. There are about 350 different species of thyme.
2. Thymus of the mint family and especially the common or garden thyme.
3. It is low growing (6-12 inches) tall, to almost prostrate, wiry stemmed perennial.
4. Stems are stiff and woody herbaceous spherical shrub.
5. Leaves are fine needle like, small, oval and grey-green in colour.
6. Flowers can be white, pink or purple to lilac and are in small clusters.
7. Thyme is highly aromatic with a hint of clove and mint fragrance.

Medicinal uses :

1. Thyme is use for bronchitis, whooping cough, sore throat, colic, arthritis.
2. Thyme use for upset stomach, stomach pain, diarrhea.
3. It used for skin disorders.
4. It lowering the blood pressure.
5. It boost immunity.
6. It help to treat yeast infections, bacterial infections, parasitic warm infections.
7. Possibly helping against certain types of cancer.

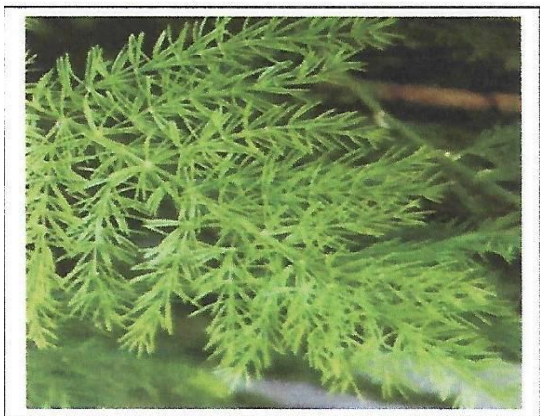
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Asparagus racemosus (Shatavari)



Kingdom:- Plantae

Division :- Angiosperms

Class:- monocotyledons

Order:- Asparagales

Family:- Asparagaceae

Genus:- Asparagus

Species:- racemosus

Morphological Character:-

- 1) *Asparagus racemosus* is a woody climber growing to 1-2 m height
- 2) The leaves are like pine needles, small and uniform and flowers are white and have small spikes.
- 3) *Asparagus racemosus* is a scandent, much-branched spinous under shrub with tuberous roots.
- 4) Branches are modified into cladodes with long basal decurved spines.
- 5) fruits is a three lobed, red coloured berry, with mottled seeds and oily endosperm .
- 6) Flowering and fruiting occur in December- January

Medicinal Uses:-

- 1) Uses on coo used as brain tonic.
- 2) Used on tuberculosis.
- 3) Root powder is used for kidney and urinary disorder.
- 4) Used on eye and throat infection.
- 5) Root juice is use for chronic dysentery, diarrhea.

Name :- Ajay Anil Gaikwad

Class:- B.SC. part-I Sem-II



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Phyllanthus Emblica

Classification



Kingdom :	plantae
Division :	Tracheophytes
Class :	Dicotyledons
Order :	Malpighiales
Family :	phyllanthaceae
Genus :	<u>phyllanthus</u>
Species :	<u>p. emblica</u>

Morphological Characteristics:

- 1) The tree is small to medium in size.
- 2) The branchlets are not glabrous or finely pubescent.
- 3) The leaves are simple, subsessile and closely set along branchlets.
- 4) The fruit is nearly spherical,

Medicinal Uses:

- 1) Treats liver damages due to drugs
- 2) Improve insulin secretion
- 3) Treats fatty liver disease
- 4) Improve gut health

Name : Akshay Gajanan Parihar

Class : B. SC-part1-(sem-2)bio



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Tulshi

Classification

Kingdom	:-	Plante
Clade	:-	Tracheophytes
Order	:-	Lamiales
Family	:-	Lamiaceae
Genus	:-	Ocimum
Species	:-	Otenuiflorum



Morphological character

1. Tulshi is an erect, much branched sub shrub 30 - 60 cm tall, with simple opposite green or purple leaves that are strongly scented and hairy stem.
2. Leaves have petiole and are ovate, up to 5 cm long, usually somewhat toohead. Flower are purplish in elongate recames in close whorls.

Medicinal uses

1. Tulshi leaves are used to treat skin problems like acne, blackhead and premature ageing.
2. Tulshi is used to treat insects bites, respiratory problems, heart disease and fever.

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Project Work
BSc-III
Computer
Science



॥ ज्ञानम् परम् ध्येयम् ॥

Shri Shivaji Education Society, Amravati's
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CERTIFICATE

Name of Department computer science

Academic Session - 20 21 - 20 22

This is to certify that this Assignment / Project report / Practical Book contains the bonafide record of Shri/Kumari /Shrimati Prajakta Rajendra Kale of B.Sc. III (Semester VI) during the academic Session 20 21 - 20 22. The Topic of the assignment / Project Report is Human computer interaction Project

Dated 18 / 04 / 2022

Signature of the teacher

who guide / taught the Examinee.

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18/04/22
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Shri Shivaji Sci. & Arts College
Chikhli, Dist. - Buldana

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SANT GADGE BABA AMRAVATI
UNIVERSITY, AMRAVATI

**SHRI SHIVAJI SCIENCE AND
ARTS COLLEGE CHIKHLI**



॥ ज्ञानम् परम् ध्येयम् ॥

Project Report On:
Human Computer Interaction

For

***DEPARTMENT OF COMPUTER
SCIENCE CLASS :B.SC.PART-III
SEM-VI 2021-2022***

***PRESENTED BY :KU. PRAJAKTA RAJENDRA KALE
GUIDED BY : Dr. A.B.Kadam
Dr.M.E.Jadhav***

1. ACKNOWLEDGMENT

I would like to thank respected Teachers Dr. A.B.Kadam, Dr.M. E. Jadhav, Dr. S.S.Gaikwad and the respected Principle Dr. O. S. Deshmukh, Non Teaching Staff of my department Mr. S. A. Chavan, Mr. P.S . Sonune for giving me such a wonderful opportunity to expand my knowledge for my own branch and giving me guidelines to present a seminar report. It helped me a lot to realize of what we study for.

Secondly, I would like to thank my parents who patiently helped me as i went through my work and helped to modify and eliminate some of the irrelevant or un-necessary stuffs.

Thirdly, I would like to thank my friends who helped me to make my work more organized and well-stacked till the end.

Next, I would thank Microsoft for developing such a wonderful tool like MS Word. It helped my work a lot to remain error-free.

Last but clearly not the least. I would thank The Almighty for giving me strength to complete my report on time.

Ku Poojita R. Kale
PRKale

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Human Computer Interaction

INTRODUCTION

Humans interact with computers in many ways, and the interface between the two is crucial to facilitating this interaction. HCI is also sometimes termed human-machine interaction (HMI), man-machine interaction (MMI) or computer-human interaction (CHI). Desktop applications, internet browsers, handheld computers, and computer kiosks make use of the prevalent graphical user interfaces (GUI) of today. Voice user interfaces (VUI) are used for speech recognition and synthesizing systems, and the emerging multi-modal and Graphical user interfaces (GUI) allow humans to engage with embodied character agents in a way that cannot be achieved with other interface paradigms. The growth in human-computer interaction field has led to an increase in the quality of interaction, and resulted in many new areas of research beyond. Instead of designing regular interfaces, the different research branches focus on the concepts of multimodality over unimodality, intelligent adaptive interfaces over command/action based ones, and active interfaces over passive interfaces.

The Association for Computing Machinery (ACM) defines human-computer interaction as "a discipline that is concerned with the design, evaluation, and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them". An important facet of HCI is user satisfaction (or End-User Computing Satisfaction). It goes on to say: (1)

Objectives

The HCI program has two main objectives:

Graduates from the proposed program will therefore have a significant competitive advantage in the job market. The second objective is to enable those HCI graduates who qualify and wish to continue their studies to a Ph. (2)

[2]

Methodologies

Various strategies delineating methods for human–PC interaction design have developed since the conception of the field during the 1980s. Most plan philosophies come from a model for how clients, originators, and specialized frameworks interface. Early techniques treated clients' psychological procedures as unsurprising and quantifiable and urged plan specialists to look at subjective science to establish zones. (for example, memory and consideration) when structuring UIs. Present-day models, in general, center around a steady input and discussion between clients, creators, and specialists and push for specialized frameworks to be folded with the sorts of encounters clients need to have, as opposed to wrapping user experience around a finished framework.

- Activity theory: utilized in HCI to characterize and consider the setting where human cooperations with PCs occur. Action hypothesis gives a structure for reasoning about activities in these specific circumstances and illuminates the design of interactions from an action-driven perspective.

User-centered design (UCD): a cutting-edge, broadly-rehearsed plan theory established on the possibility that clients must become the overwhelming focus in the plan of any PC framework. Clients, architects, and specialized experts cooperate to determine the requirements and restrictions of the client and make a framework to support these components. Frequently, client-focused plans are informed by ethnographic investigations of situations in which clients will associate with the framework. This training is like participatory design, which underscores the likelihood for end-clients to contribute effectively through shared plan sessions and workshops.

Principles of UI design: these standards may be considered during the design of a client interface: resistance, effortlessness, permeability, affordance, consistency, structure, and feedback.(3)

[3]

Applications of Human-Computer Interaction

Everyday Life

Today, technology has infiltrated every area of our life. Even if a person does not directly own or use a computer, computers have an impact on their lives. ATM machines, railway ticket selling machines, and hot beverage vending machines are just a few examples of computer interfaces that people may interact with on a regular basis without having to possess a computer.

Industry and Business

HCI is significant for any company that relies on technology or computers in its day-to-day operations. Staff are more content and productive when working with well-designed usable systems since they are not irritated. HCI is particularly essential in the design of safety-critical systems like those found in power plants and air traffic control centres. In these instances, design flaws can have catastrophic consequences, including the death of many individuals.(4)

Advantages

1. Multitasking Multitasking–MultitaskingMultitasking is one among the main advantage of computer. Person can do multiple task, multiple operation at a same time, calculate numerical problems within few seconds. Computer can perform millions or trillions of work in one second.
2. Speed –Now computer isn't just a calculating device. Now a day's computer has vital role in human life. One of the most advantages of computer is its incredible speed, which helps human to finish their task in few seconds.
3. Cost/ Stores huge –Amount of knowledge it's a coffee cost solution. Person can save huge data within a coffee budget. Centralized database of storing information is that the major advantage which will reduce cost.

Disadvantages

1. Virus and hacking attacks –Virus may be a worm and hacking is just an unauthorized access over computer for a few illicit purpose. Virus can go to other system from email attachment, viewing an infected website advertisement, through removable device like USB etc.
2. Online Cyber Crimes –Online cyber-crime means computer and network may have utilized in order to commit crime. Cyberstalking and fraud are the points which comes under online cyber-crimes. [4]

3. Reduction employed opportunity –Mainly past generation wasn't used of the pc or they need the knowledge of computer they faced an enormous problem when computer came in field.

Conclusion

Human-computer interaction has become a necessary part of daily life for the majority of Americans and millions of others around the world. By reviewing these websites with a focus on how to interact with them has shown that it is imperative that web designers must focus on human-computer interaction when designing websites. However, that focus cannot be to improve the interactions for the average user, instead the focus should be on making the interactions a better experience for everyone who might use that website. Judging by the websites reviewed here, which are all well designed for the average user, designers still have a long way to go to make these sites easily usable by all.

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[5]



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Project Work
BSc-III
Electronics

WIRELESS POWER TRANSFER

Project Report

Submitted to
Sri Shivaji Science and Arts College Chikhli Dist Buldana



॥ ज्ञानम् परम् ध्येयम् ॥

For the Partial Fulfillment of B.Sc. Degree

In the subject

Mr. Yogesh R Bodkhe
Mr. Vaibhav K Jadhav
Mr. Tejas P Patil
Mr. Vasudev Ingale

Under the supervision of

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We know that opportunity to express our gratitude and sincere thanks to Prof.S.A.Katole(H.O.D) and Prof.D.B.Bobde, for his valuable guidance and encouragement We also greatfully thanks to prof.S.A. Katole and Prof.D.B.Bobde who has plays an important role in the completion of this guidance not only helps us to gain knowledge but also to confidence which will be helped in our future.

Mrs.Khillare madam and all our friends who directly and indirectly We also greatfully thanks to over lab assistants helps us during the completion of this project.

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Mr.yogesh R bodkhe
Mr.vaibhav K jadhav

CERTIFICATE

This is to certify that, **Tejas Patil, Yogesh Bodkhe, vaibhav Jadhav, vasudev Ingle** bonafied students of B.Sc III [Sem. VI] of this college they have carried out the project on **Wireless Energy Transfer** under the guidance of Prof.S.A.Katole during session 2021-2022. The project work is successfully completed and submitted.

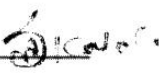
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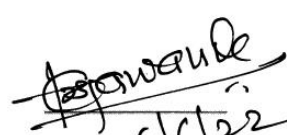
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INTRODUCTION

We live in a world of technological advancement. New technologies emerge each and every day to make our life simpler. Despite all these, we still rely on the classical and conventional wire system to charge our everyday use low power devices such as mobile phones, digital camera etc. and even mid power devices such as laptops. The conventional wire system creates a mess when it comes to charging several devices simultaneously. It also takes up a lot of electric sockets and not to mention the fact that each device has its own design for the charging port. At this point a question might arise. —What if a single device can be used to charge these devices simultaneously without the use of wires and not creating a mess in the process? We gave it a thought and came up with an idea. The solution to all these dilemma lies with inductive coupling, a simple and effective way of transferring power wirelessly.

Wireless Power Transmission (WPT) is the efficient transmission of electric power from one point to another through vacuum or an atmosphere without the use of wire or any other substance. This can be used for applications where either an instantaneous amount or a continuous delivery of energy is needed, but where conventional wires are unaffordable, inconvenient, expensive, hazardous, unwanted or impossible. The power can be transmitted using Inductive coupling for short range, Resonant Induction for mid-range and Electromagnetic wave power transfer for high range. WPT is a technology that can transport power to locations, which are otherwise not possible or impractical to reach. Charging low power devices and eventually mid power devices by means of inductive coupling could be the next big thing.

The objective of this project is to design and construct a method to transmit wireless electrical power through space and charge a designated low power device. The system will work by using resonant coils to transmit power from an AC line to a resistive load. Investigation of various geometrical and physical form factors evaluated in order to increase coupling between transmitter and receiver.

A success in doing so would eliminate the use of cables in the charging process thus making it simpler and easier to charge a low power device. It would also ensure the safety of the device since it would eliminate the risk of short circuit.

The objective also includes the prospect of charging multiple low power devices simultaneously using a single source which would use a single power outlet.

Basic concept of wireless power transfer

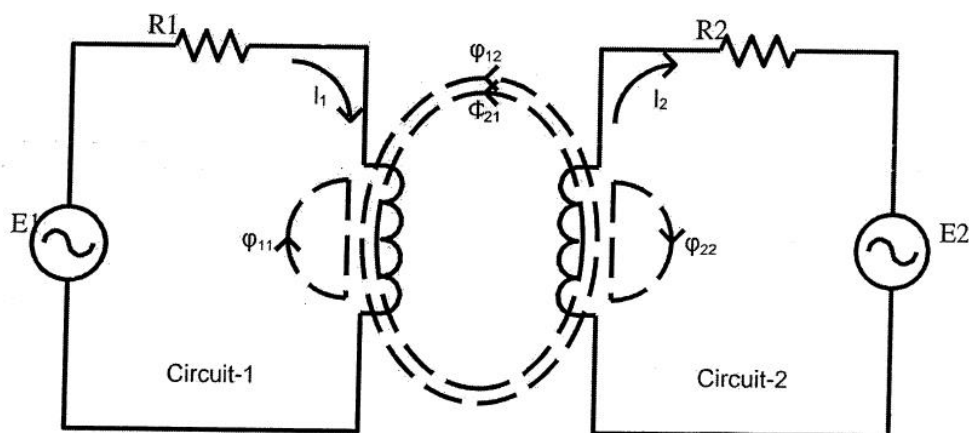
1) Inductive Coupling

Inductive or Magnetic coupling works on the principle of electromagnetism. When a wire is proximity to a magnetic field, it generates a magnetic field in that wire. Transferring energy between wires through magnetic fields is inductive coupling.

If a portion of the magnetic flux established by one circuit interlinks with the second circuit, then two circuits are coupled magnetically and the energy may be transferred from one circuit to the another circuit.

This energy transfer is performed by the transfer of the magnetic field which is common to the both circuits.

In electrical engineering, two conductors are referred to as mutual-inductively coupled or magnetically coupled when they are configured such that change in current flow through one wire induces a voltage across the end of the other wire through electromagnetic induction. The amount of inductive coupling between two conductors is measured by their mutual inductance.



Inductive Coupling with Four Component Fluxes

Power transfer efficiency of inductive coupling can be increased by increasing the number of turns in the coil, the strength of the current, the area of cross-section of the coil and the strength of the radial magnetic field. Magnetic fields decay quickly, making inductive coupling effective at a very short range.

2) Inductive Charging

Inductive charging uses the electromagnetic field to transfer energy between two objects. A charging station sends energy through inductive coupling to an electrical device, which stores the energy in the batteries. Because there is a small gap between the two coils, inductive charging is one kind of short-distance wireless energy transfer.

Induction chargers typically use an induction coil to create an alternating electromagnetic field from within a charging base station, and a second induction coil in the portable device takes power from the electromagnetic field and converts it back into electrical current to charge the battery. The two induction coils in proximity combine to form an electrical transformer.

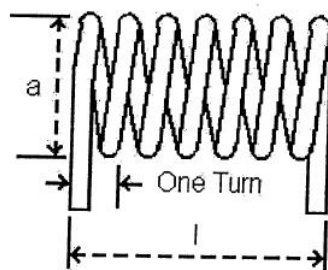
Greater distances can be achieved when the inductive charging system uses resonant inductive coupling.

Inductance of Coil and Coil Design

Introduction

An ideal inductor has inductance, but no resistance or capacitance, and does not dissipate or radiate energy. However, real inductors have resistance (due to the resistance of the wire and losses in core material), and parasitic capacitance (due to the electric field between the turns of wire which are at slightly different potentials). At high frequencies the capacitance begins to affect the inductor's behavior; at some frequency, real inductors behave as resonant circuits, becoming self-resonant. At frequencies above this the capacitive reactance becomes the dominant part of the impedance. Energy is dissipated by the resistance of the wire, and by any losses in the magnetic core due to hysteresis. At high currents, iron core inductors also show gradual departure from ideal behavior due to nonlinearity caused by magnetic saturation. At higher frequencies, resistance and resistive losses in inductors grow due to skin effect in the inductor's winding wires. Core losses also contribute to inductor losses at higher frequencies.

Single Layer Coil



Single Layer Coil

A single layer coil, as shown in figure, has two advantages. Firstly, like all air core coils, it is free from iron losses and the non-linearity mentioned above. Secondly, single layer coils have the additional advantage of low self-capacitance and thus high self-resonant frequency.

In the simple case of a single layer solenoidal coil the inductance may be calculated as follows:

$$L = (d^2 n^2) / (l + 0.45d) [\mu H]$$

Where L is the inductance, d is the coil diameter in meters, l is the coil length in meters and n is the number of turns.

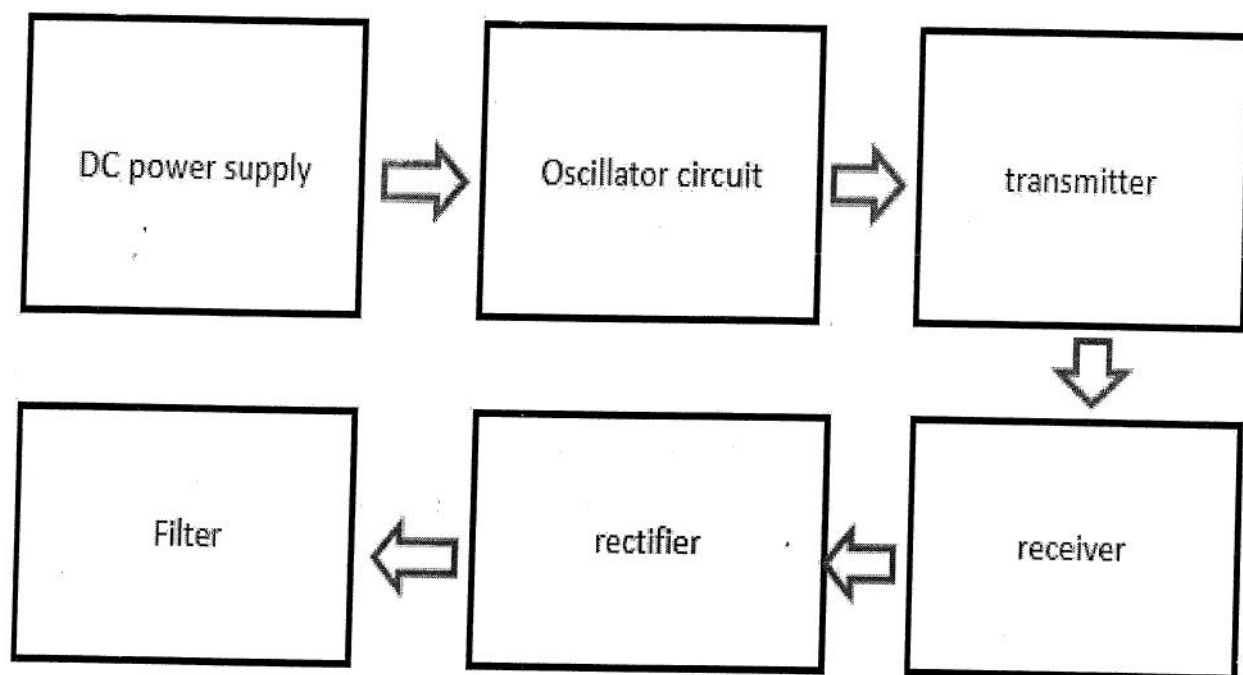
Losses in coil:

At high frequencies, particularly radio frequencies (RF), inductors have higher resistance and other losses. In addition to causing power loss, in resonant circuits this can reduce the Q factor of the circuit, broadening the bandwidth. In RF inductors, which are mostly air core types, specialized construction techniques are used to minimize these losses. The losses are due to these effects:

I. **Skin effect:** The resistance of a wire to high frequency current is higher than its resistance to direct current because of skin effect. Radio frequency alternating current does not penetrate far into the body of a conductor but travels along its surface. Therefore, in a solid wire, most of the cross sectional area of the wire is not used to conduct the current, which is in a narrow annulus on the surface. This effect increases the resistance of the wire in the coil, which may already have a relatively high resistance due to its length and small diameter.

II. **Parasitic capacitance:** The capacitance between individual wire turns of the coil, called parasitic capacitance, does not cause energy losses but can change the behavior of the coil. Each turn of the coil is at a slightly different potential, so the electric field between neighboring turns stores charge on the wire. So the coil acts as if it has a capacitor in parallel with it. At a high enough frequency this capacitance can resonate with the inductance of the coil forming a tuned circuit, causing the coil to become self-resonant.

Block Diagram



Working of oscillator circuit:

The circuit consists of with two chokes labeled L_1 and L_2 , two semiconductors (Here N-channel Enhancement power-MOSFETS) labeled Q_1 and Q_2 , a resonating capacitor labeled C_2 and an inductor (here the transmitter coil) labeled L_3 . Cross-coupled feedback is provided via the diodes D_1 and D_2 . R_1 , R_3 and R_2 , R_4 are the biasing network for MOSFETS.

When power is applied, DC current flows through the two sides of the coil and to the transistors' drain. At the same time the voltage appears on both gates and starts to turn the transistors on. One transistor is invariably a little faster than the other and will turn on more. The current would continue to increase until the coil (transformer) saturates. The resonating capacitor C causes the voltage across the primary to first rise and then fall in a standard sine wave pattern.

Assuming that Q_1 turned on first, the voltage at the drain of Q_1 's will be clamped to near ground while the voltage at Q_2 's drain rises to a peak and then falls as the tank formed by the capacitor and the coil primary oscillator through one half cycle. After that, D_1 will be forward bias by more voltage than D_2 and hence it will turn on Q_2 and cycle repeats.

The oscillator runs at the frequency determined by the inductance of the coil, the capacitor value and to a lesser extent, the load applied to the secondary (Source coil).

The operating frequency is the familiar formula for resonance,

$$F = 1/2 \times \pi \times \sqrt{LC}$$

Transmitter coil:

For this project the transmitter coil was constructed with 92 mm diameter, 17 swg copper wire and 7 turns.

From the equation of inductance of a single layer air core coil, we get inductance $L = 8.1 \mu H$.

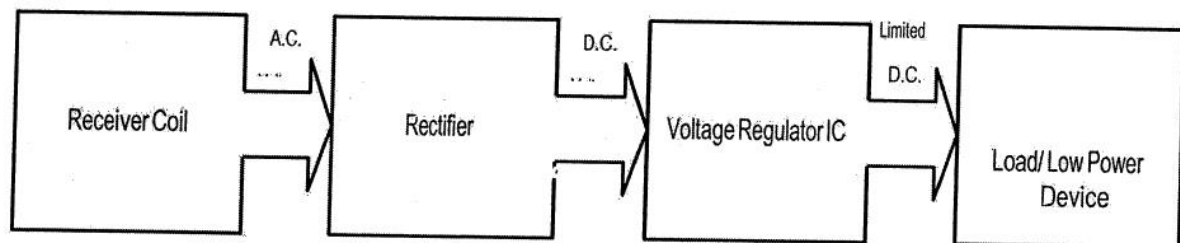
Receiver

Working of Receiver:

The receiver module of our project is made up of a receiver coil, a rectifier circuit and a voltage regulator IC. And additional buck converter to get more current by decreasing output voltage to 5 volt.

An A.C. voltage is induced in the receiver coil. The rectifier circuit converts it to D.C. and the voltage regulator IC helps to maintain a constant limited voltage at the load.

The following block diagram gives a general idea of the receiver module:



Block Diagram of the Receiver Module

Receiver coil:

Receiver coil for our project is designed same as transmitter coil with same value.

Rectifier:

A diode bridge is an arrangement of four (or more) diodes in a bridge circuit configuration that provides the same polarity of output for either polarity of input. When used in its most common application, for conversion of an alternating current (AC) input into direct current a (DC) output, it is known as a bridge rectifier. The essential feature of a diode bridge is that the polarity of the output is the same regardless of the polarity at the input.

Operation of bridge rectifier:

During the Positive half cycle of the input AC waveform diodes D1 and D3 are forward biased and D2 and D4 are reverse biased. When the voltage, more than the threshold level of the diodes D1 and D3, starts conducting – the load current starts flowing through it.

During the negative half cycle of the input AC waveform, the diodes D2 and D4 are forward biased, and D1 and D3 are reverse biased. Load current starts flowing through the D2 and D4 diodes.

Further we can use capacitor filter to remove ripples present in output of bridge rectifier. After capacitor filter, smooth DC voltage is present at the input of voltage regulator.

Voltage regulator IC:

A voltage regulator is an electrical regulator designed to automatically maintain a constant voltage level. It may use an electromechanical mechanism, or electronic components. Depending on the design, it may be used to regulate one or more AC or DC voltages.

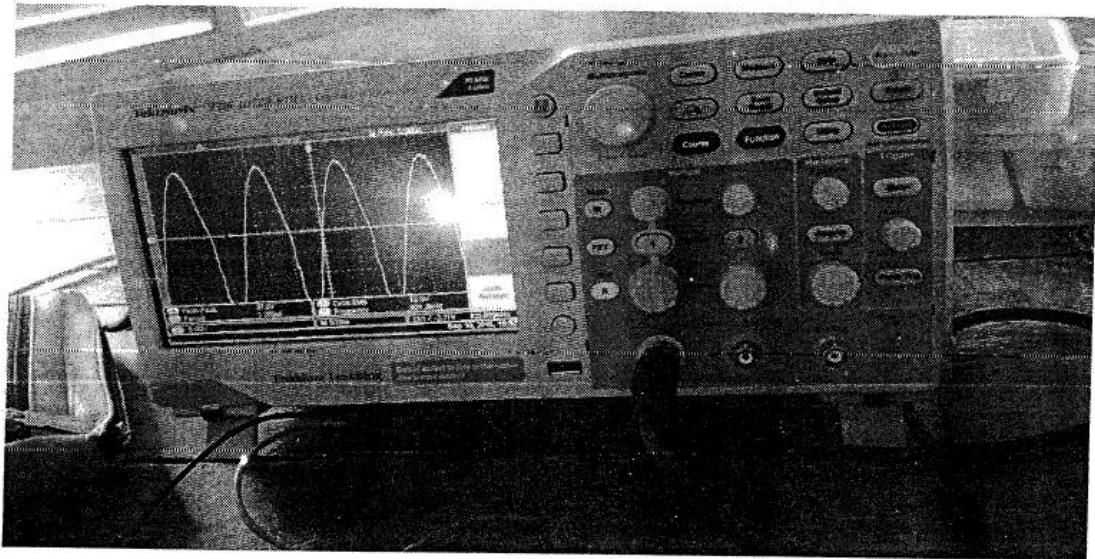
In this project, LM 7812 voltage regulator IC is used since it allowed no more than 12v to the output.

Buck converter:

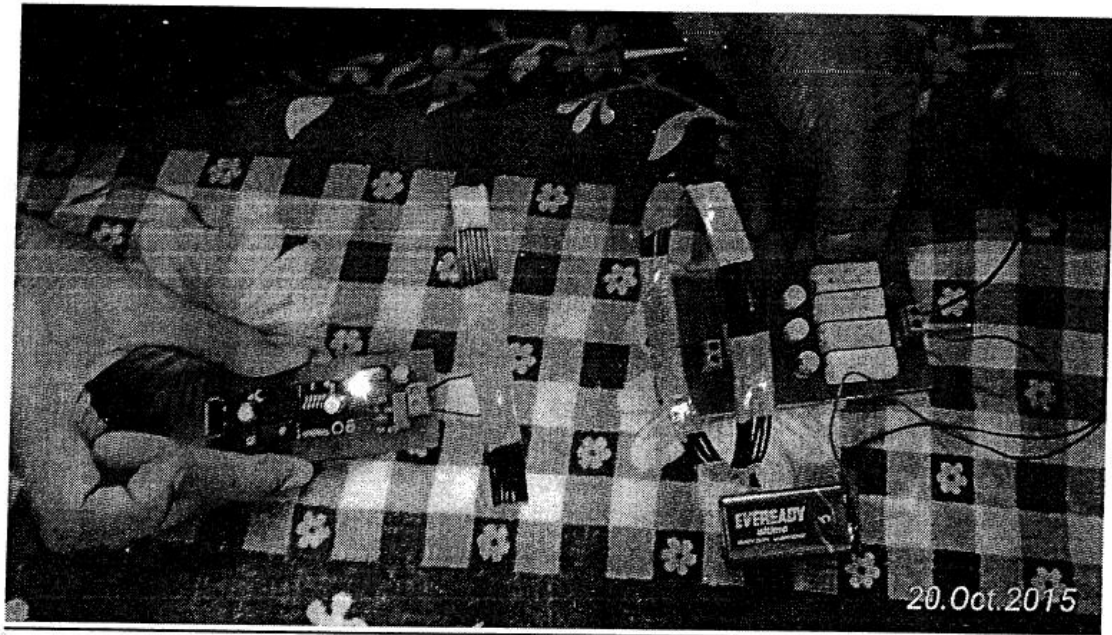
It is totally optional part in receiver circuit. It is used here to increase current at output. Buck converter is DC to DC converter which step down the voltage and according to it, it increase output current. Efficiency of converter is high (near about 98%) and hence very small amount of power loss in this module.

Output

Transmitted signal:-



Receiver output:



Conclusion

The goal of this project was to design and implement a wireless charger for low power devices via resonant inductive coupling. After analysing the whole system step by step for optimization, a circuit was designed and implemented. Experimental results showed that significant improvements in terms of power-transfer efficiency have been achieved.

It was described and demonstrated that resonant inductive coupling can be used to deliver power wirelessly from a source coil to a load coil and charge a low power device.

As it was mentioned earlier, wireless charging could be the next big thing.

Possible Applications and future work

Applications:

- 1) Smart Phones, Portable Media Players, Digital Cameras and Tablets.
- 2) Public Access Charging Terminal.
- 3) Computer Systems
- 4) Miscellaneous: Wireless chargers are finding its way into anything with a battery inside it. This includes game and TV remotes, cordless power tools, cordless vacuum cleaners, soap dispensers, hearing aids and even cardiac pacemakers. Wireless chargers are also capable of charging super capacitors (super caps), or any device that is traditionally powered by a low-voltage power cable.

Future work:

To transmit the power to a greater distance, a high power radio frequency amplifier connected with an oscillator is needed. But the construction of the bulky RF power amplifier requires much time and patience.

High power vacuum tube transistor amplifier with high current will make the system more efficient.

A crystal oscillator circuit might be a better option for the transmitter circuit since it can produce a very high frequency A.C. current.

Further effort on this same project can yield some real solutions that can solve the problems of this project. The knowledge of this project will help those who want to design a wireless charging system.

Advantages and disadvantage

Wireless power transfer will be next biggest move in this integrated technologies world because it has numerous advantages and applications.

Advantages:

we don't have need to stick with wires while using any electric device like mobile, laptop, camera etc. complete removal of wires is possible by WPT so system becomes very user friendly and complexity can be reduced. At public places like Malls and stations, complexity of power system can be reduced by WPT.

Disadvantages:

Major disadvantage of wireless power transfer is high power loss for longer distance. So we can transfer power wirelessly from one point to another very efficiently if distance is too small but loss rapidly increases with distance.

Biography

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- 6) <http://www.engineersgarage.com/articles/wireless-power-transmission>


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BSc-II

Zoology

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College Code : 308



Project Report Bsc-IInd (Sem-IV)

2021-2022

sericulture industry in Maharashtra State, India

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Prof. Dr. Hemke Mam

Presented by

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Divya Bhambale

Ashvini Parmeshwar

Certificate

This is to certify the investigation described in the dissertation work entitled

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2 .divya s bhamble

3 . ashvini m parmeshwar

Submitted in partial fulfillments of the requirement for the degree of bachelor in science in the faculty of sant gadge baba university , Amravati was carried through the shri shivaji science and arts college chikhali . sericulture industry in Maharashtra state , india . under the guidance of supervision of **Dr.meena nikam** mam hod of zoology and management and **Prof.Dr.vijayshree hemke** mam,assistant prof of shri shivaji science and arts college ,chikhali .

This dissertation is now for examination

Place : chikhali

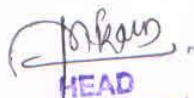
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Introduction

The sericulture industry is a labour intensive and has very good potential to provide employment to the rural mass at their local level. It is an ecofriendly activity which provides an opportunity to rural mass to uplift their socio economic status. Sericulture is an ideal programme for weaker section of the society because low gestation, higher returns. Acres of mulberry garden and silkworm rearing can avoid maximum laborers and save wages in the sericulture sector of the state .Tasar silkworm process can offer supplementary gainful employment for tribals compare to other sericulture activities. India is the second largest producer of raw silk after China and the biggest consumer of raw silk and silk fabrics and has the unique distinction of producing all the four varieties of silk viz., Mulberry, Tasar, Eri and Muga, Giridhar et al. 2010 . In India this industry has very good strength and opportunities with very little weakness, which has enlisted as follows.

Abstract

Sericulture is one of the oldest industries in India and Asia. Sericulture is an agro-cottage, forest based industry, labor intensive and commercially attractive economic activity falling under the cottage and small-scale sector. The silk is the final product of this industry. It particularly suits to rural population working with agriculture, entrepreneurs and artisans as it requires low investment with potential for relatively higher returns. It provides income and employment to the rural poor especially, farmers with small land-holding and marginalized and weaker sections of the society.

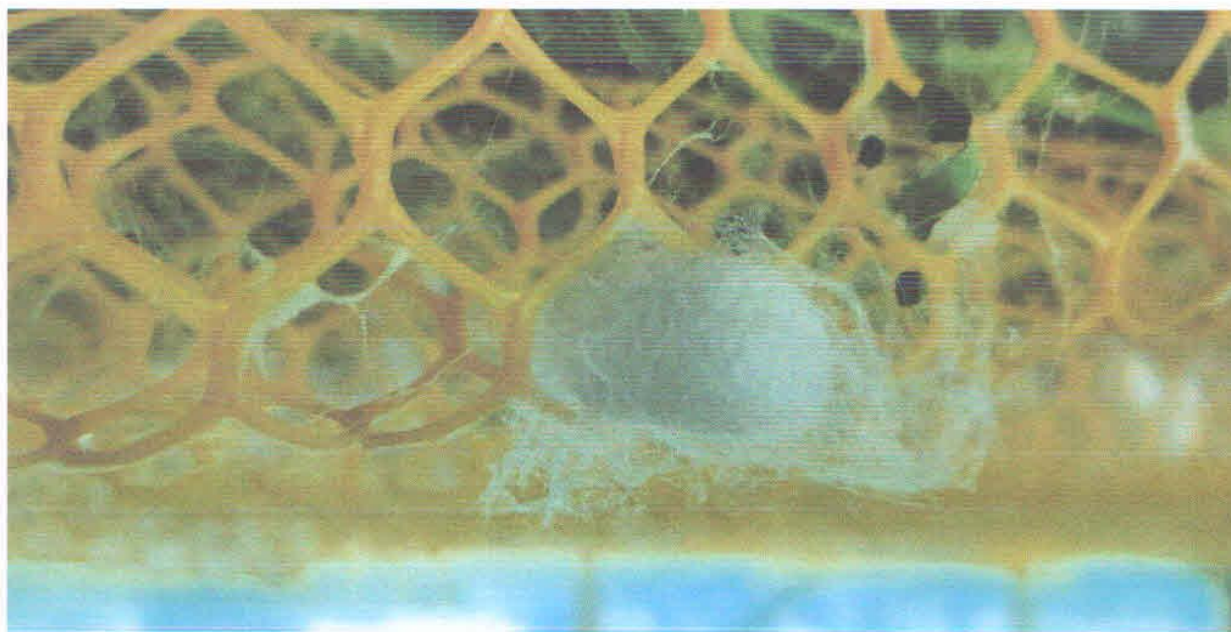
Maharashtra is a nontraditional sericulture state producing Mulberry and Tasar silk. The specialty of the state is that, it undertakes 98% of bivoltine sericulture and stood first among nontraditional states and one of the potential States in India for silk production. The bivoltine sericulture development has been one of the priority sectors of Indian silk industry but its production is yet to meet the targets. Women play a dominant role in this sector, as the activities are mostly home-based. Women have been contributing to all the sectors of Sericulture starting from on-farm activities to fabric production, marketing and consumption. The involvement of women in different activities of Sericulture is well above 53 per cent Gangopadhyay, 2008 . This paper mainly focused on socio- economic development, employment generation, and sericulture sector activities in the state. Sericulture industry requires low investment and it helps to earn higher returns in short gestation period, due to this the farmers are getting attracted to this sector and it is a bes tool to improve the rural economy as well as to improve their living standards. It is a boon to the rura population associated with agriculture and helping them to avoid suicidal attempts by earning very good amounts throughout the year.

Sericulture in Maharashtra State

Sericulture industry is very age old in Maharashtra state. The Sātavāhana Empire was a Indian dynasty based from Dharanikota and Amaravati in Andhra Pradesh as well as Junnar (Pune) and Pratisthan (Paithan) in Maharashtra. The territory of the empire covered much of India from 230 B.C onward. The Satavahanas influenced South-East Asia to a great extent, spreading Hindu culture, language and religion into that part of the world. Paithan the ancient city of Pratisthan is beautifully situated on the left bank of the river Godavari. Since the second millennium B.C. the dawn of the Goda Valley Civilization it has played a vital role in shaping the culture of the region and has been a sacred place for the Hindus, the Buddhists and the Jains. From ancient times Paithan was important emporium of trade and commerce with links connecting it to marts in India and in Europe. Paithan gained the epithet as "Supratisthana " not only for its political importance as the capital city during the long rule of the Satavahanas and of great consequence till the Yadavas, but also for its affluence and of highly advanced civilization. Its importance has also been vouchsafed in the writings of the foreign travelers and geographers. As a great commercial centre, it was very well linked with the other important towns of ancient India and the western world. Its exports had earned great reputation in the western markets and had achieved international renown. Its quality silk textiles such as the Paithani had no parallel in the contemporary world. Himroo is a fabric made of Silk and cotton, which is grown locally in Aurangabad. Himroo was brought to Aurangabad in the reign of Mohammad Tughlaq, when he had shifted his capital from Delhi to Daulatabad, Aurangabad in Maharashtra state.

Sericulture in India

India is the only country in the world which produces all the four varieties of silk namely Mulberry, Eri, Tasar and Muga. Mulberry is the largest practiced sericulture industry in India. Mulberry silk production contributes almost 75 percent for entire silk production in the country. India has second highest silk producer of raw silk and consumer of pure of silk . In India, silk production has improved manifold in recent years. Sericulture provides livelihood to large section of the rural and semi- urban population i.e. for the people engaged in pre- cocoon to post-cocoon sectors of sericulture industry . In recent years the Sericulture is opted by many farmers as a cash crop in the agriculture sector and it is a boon to the farmers to change their socio economic status



Sr. No.	State	Achievements		
		2012-13	2013-14	2014-15
1.	Karnataka	8219	8574	9645
2.	Andhra Pradesh	6550	6912	6485
3.	Telangana	--	--	100
4.	Tamil Nadu	1185	1120	1602
5.	Kerala	6	4	7
6.	Maharashtra	97	122	222
7.	Uttar Pradesh	157	188	236
8.	Madhya Pradesh	190	195	177
9.	Chhattisgarh	391	391	200
10.	West Bengal	2070	2079	2500
11.	Bihar	22	52	53
12.	Jharkhand	1090	2003	1946
13.	Orissa	104	53	98
14.	Jammu & Kashmir	145	136	147
15.	Himachal Pradesh	23	25	30
16.	Uttarakhand	17	22	29
17.	Haryana	0.13	0.13	0.3
18.	Punjab	5	4	4
19.	Assam & Bodoland	2068	2766	3222
20.	Arunachal Pradesh	22	15	28
21.	Manipur	418	487	369
22.	Meghalaya	517	644	655
23.	Mizoram	40	44	50
24.	Nagaland	324	606	619
25.	Sikkim	3	0.20	8
26.	Tripura	15	40	36
Total		23,679	26,480	28,467

Conclusion

The Maharashtra state is having a very good potential for sericulture and to undertake the production of quality bivoltine silk. In future the state will become 100% Bivoltine silkworm rearing in Mulberry sector. It is a serious need to establish the best trainings and research centers in the state to provide the best technologies suitable to the local mass and also to inculcate modern technologies in sericulture among the sericulturists and extension staff by upgrading their skills. As the state is nontraditional in silk production activities, it is essential to extend incentives on different activities as provided by traditionally silk producing states. The sericulture activity remained as a boon to the farmers in such adverse climatic conditions and to overcome the draught situations in Maharashtra. The farmers are very happy with this activity by earning good returns and are satisfied with sericulture. Thus future of the modern silk industry in Maharashtra is very bright and the state will take a big leap in coming years and will be at par with traditional silk producing states.



Year	Raw Silk production		Total Raw	Cumulative Employment
	Mulberry	Vanya	Silk Production (MT)	generation (Lakh persons)
2010-11	16,360	4,050	20,410	72.50
2011-12	18,272	4,788	23,060	75.60
2012-13	18,715	4,964	23,769	76.53
2013-14	19,476	7,004	26,480	78.50
2014-15	21,272	7,195	28,467	80.30



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5. Ampiah AS, Fening KO, Ofosu-Anim J, Obeng-Ofori D, Ntaanu PK, The Status of Sericulture in Ghana. JENRM, 2014; 1(2):75-79, ISSN: 2026-6189



Dr. Omraj S. Deshmukh
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 Shri Shivaji Sci. & Arts
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Field Work

BSc-III

Botany



॥ ज्ञानम् परम् ध्येयम् ॥

Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI
Dist. Buldana

CERTIFICATE

Name of Department Botany

Academic Session - 20 21 - 20 22

This is to certify that this Assignment / Project report / Practical Book contains the bonafide record of Shri/Kumari /Shrimati Rutuja Vinod Devare of B.Sc. IIIrd year (Semester VI) during the academic Session 20 21 - 20 22. The Topic of the assignment / Project Report is Tour Report

Dated 8 / 6 / 20 22

Signature of the teacher

who guide / taught the Examinee.

1. M. D. Kote M. D. Kote
2. D. L. Gavande D. L. Gavande

Upadhyay
Head of the Dept.
Dr. V. H. Pochh

Note - In absence of certificate for Assignment / Project report / Practical Book examine shall not be allowed to appear for the examination.

Report On Educational Tour To SINDKHED RAJA

Nome of the Industry – Istved Biotech Put. Ltd.

Day of visit : 5 may 2022

Time : 11 am

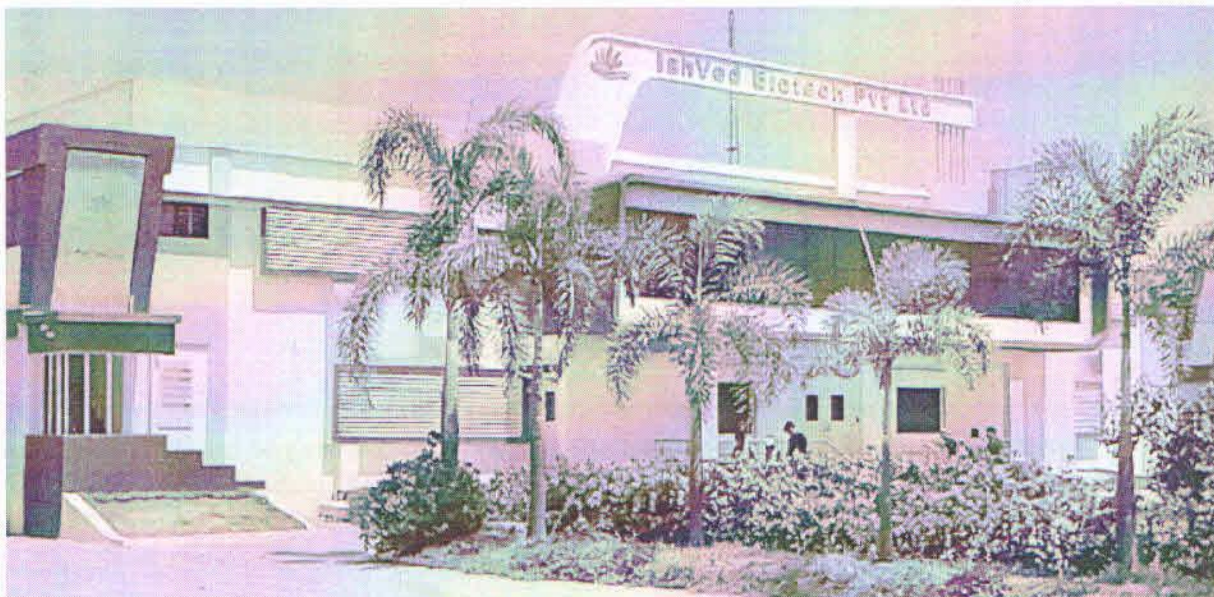
Department : Botany

One day educational trip was organized by our collage on 5-5-22) to Visit a Ishved Biotech Pvt limited the trip comprised students of Botany department accompanied by 3 teachers. Dr. Pocchi mam, kolte sir, Gavande sir, Students very intersted to join the trip must give their names to their classmate of krishna ambhore & must be submmit rupees 300 and Permission letter, Signed by parents to each student.

They are all student 5-5-2022 gathered in the collage for toor at 7 am. we started our journey For one day toor for Sindkhed raja at 8.am a within bus. A Collect a student & Start the bus for Sindkhed raja. The distance from our school to that Place was about 50 km. after journey of about 2 hours. They are aal student & teachers are very enjoying in the toor bus . they are the songs for all students&teachers and then the all students and teachers then the students and teachers are one place eat in the nasta.

We reached at toor location for a Sindkhed raja. So firstly Visit in a jijau shrusti in Sindkhed raja. The big idol of Jijamata is center of attraction here. This plane in big a Statue in rajmata Jijau, & side by Shivaji maharaj stachu .So all students are this place in many Picture, Photos Are click in place.





The place was visit for Ishved Biotech Pvt limited in a Plant tissue culturing. Went inside the company it was beautiful garden the ground. All student & teachers entered the Ishved Biotech Pvt limited in a company. & then mam & sir meet to company manager and then half, half student entereted the Plant tissue culture laboratory. The company manager is all about information talk to you all student tissue culturing in a Plant in detail information.

Ishved Biotech Pvt limited company

Plant tissue culture -

Tissue culture is in vitro cultivation of Plant Cells or tissue under aseptic and controlled environmental condition, in liquid or on Semesolid well defined nutrient media. Plant tissue culture is Collection of a maintain or techniques used to maintain or grow Plant cells, tissue or organs under sterile Conditions on a nutrient mediam .

The Ishved Biotech pvt limited company manager is nice information in Plant tissue culturing. For the production of Primary Fielding and secondary fielding. The Banana, bambu, plant use in plant tissue culture in Primary and secondary fielding. They a was company manager is student Information Primary fielding and secondary in Fielding. And then the Ishued Biotech Pvt limited company owner it was guided about Plant tissue culture.



Primary fielding



Secondary fielding

The Company owner is whole Procedure information of Primary Fielding & Secondary fielding. The great information by owner of Ishved Biotech Pvt limited. and Lastly in Click the Photographs teachers and students.

Rajmata jijau birth place). Rajwada

We started our next journey towards (Rajmata jijau birth Place). Is Rajwada, This is the birth Place of jijamata and Situated right on the highway. They have on attempted to develop this Place as a tourist attraction. Today this place is not only a historical place but also a tourist destination.



The Rajwada, which has an impressive grand entrance is situated near the Mumbai Nagpur highway in Sindhkhed raja. There is also a garden built in the same area of municipality. Here is the place of worship of lakhujao Jadhav. This is are Raje lakhujirao Jadhav Rajwada it is a very beautiful face in Rajmala jijau birth Place. & it was birthday on a celebration in Dr. Pocchi mam his a birthday celebrate a teachers and student. They were very enjoy in the place.

It Very enjoy ful the educational as well as Historical trip. So return the bus was Home. Return the home it the birthday party was mam eat is th the ice cream party all Students & teacher the the party was mam, each an every students. So it is Very very enjoy ful also us trip, and inspiring

Ishved Biotech Educational Tour.
On. 05/05/2022

Sr No.	Name of Students	Date of Birth	Mobile No	Class	Signature
01	Chetan B Ghewande	14/01/2002	+91 9146678124	B.Sc III	
02	Harshraj N. Yewale	30/04/2001	+91 92093 10839	B.Sc III	
03	Shweta S. Ingle	22/11/2001	+91 88570 48784	B.Sc III	<i>Shweta</i>
04	Gayatri S. Bhawar	26/08/2001	+91 90111 37560	B.Sc III	<i>Bhawar</i>
05	Vaishnavi S. Ambhore	13/09/2001	+91 92093 10839	B.Sc III	<i>Ambhore</i>
06	Gayatri V. Parihar	28/01/2002	+91 80079 07589	B.Sc III	<i>Parihar</i>
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08	Kalyani V. Bhutekar	22/04/2002	+91 92093 10839	B.Sc III	<i>Bhutekar</i>
09	Shiva R. Pakhare	26/10/2001	+91 92093 10839	B.Sc III	
10	Gayatri .G Dande	02/01/2000	+91 73507 46954	B.Sc III	<i>G Dande</i>
11	Rutuja V. Devare	31/10/2001	+91 92093 10839	B.Sc III	<i>R Devare</i>
12	Jeevan R. Sapkal	11/08/2000	+91 92093 10839	B.Sc III	<i>Sapkal</i>
13	Nagesh S. Wankhede	25/09/2000	+91 70381 14517	B.Sc III	<i>N S Wankhede</i>
14	Vaishnavi E. Shelke	07/03/2001	+91 9096893030	B.Sc III	<i>Shelke</i>
15	Snehal P. Kakade	02/12/2000	+91 7066168270	B.Sc III	<i>Kakade</i>
16	Pooja B. Pawar	10/08/2001	+91 7218771462	B.Sc III	<i>Pawar</i>
17	Vanita S. Sapkal	14/08/2000	+91 9373432403	B.Sc III	<i>Sapkal</i>
18	Gopal S. Khandagale	03/06/2001	+91 92093 10839	B.Sc III	<i>Gopal</i>
19	Pratiksha N. Zalte	03/10/2001	+91 9146911734	B.Sc III	<i>Zalte</i>
20	Krishna A. Ambhore	02/07/2000	+919021621341	B.Sc III	<i>Ambhore</i>
21	Komal T. Lambe			B.Sc III	<i>Lambe</i>
22	Priti K. Suradkar			B.Sc III	<i>Suradkar</i>
23	Shital V. Gawate			B.Sc III	<i>Gawate</i>
24	Mitali S. Pachpor			B.Sc III	<i>Pachpor</i>
25	Puja B. Suruse			B.Sc III	<i>Suruse</i>
26	Puja S. Ingale			B.Sc III	<i>Ingale</i>
27	Trupti Keshav Nikas	25/10/2003	9529456026	B.sc I	<i>Nikas</i>
28	Nidhi Dilip Sonune	13/06/2003	7822990078	B.sc I	<i>Sonune</i>
29	Punam Ashok Thutte	23/06/2003	8767293841	B.Sc I	<i>Thutte</i>
30	Tejal Khandagale	07/08/2003	9322138465	B.Sc I	<i>Khandagale</i>

31	Gauripooja Chavare	04/09/2003	9665453854	B.Sc I	<i>[Signature]</i>
32	Bhagyashri Shinde	31/10/2003	8767427279	B.Sc I	<i>[Signature]</i>
33	Sakshi Anwani	18/11/2003	8237994114	B.Sc I	<i>[Signature]</i>
34	Vaishnavi Dhundale	03/10/2002	9146833123	B.Sc.I	<i>[Signature]</i>
35	Pranali Pramod Rindhe	23/05/2004	8669794360	B.Sc I	<i>[Signature]</i>
36	Disha sadashiv parihar	21/11/2003	7038493382	B.Sc I	<i>[Signature]</i>
37	Swati dilip bhole	12-6-2003	7720083559	BSC I	<i>[Signature]</i>
38	Kiran vijay pangole	13/12/2003	7498484812	B.Sc I	<i>[Signature]</i>
39	Sanjana sanju arakh		7057767433	BSC I	<i>[Signature]</i>
40	Shivani Ambhore	8/3/2004	9921941908	B.Sc I	<i>[Signature]</i>
41	Srushti Shelake			B.Sc II	<i>[Signature]</i>
42	Punam Solanki	26/6/2002	9370204256	B.Sc II	<i>[Signature]</i>
43	Shravani Jadhao			B.Sc II	<i>[Signature]</i>
44	Deepak More		7350006955	B.Sc III	<i>[Signature]</i>
45	Ganesh sonune		9370202931	B.Sc III	<i>[Signature]</i>
46	Vaibhav Dalimkar		9309195712	B.sc III	<i>[Signature]</i>
47	Vaibhav Moharut		9359075121	B.Sc III	<i>[Signature]</i>
48	Ajay Hone		9325438206	B.Sc III	<i>[Signature]</i>
49	Priyanka pophale			B.sc II	<i>[Signature]</i>
50	Priti dahake			B.Sc II	<i>[Signature]</i>
51	Suvarna ingale	03/07/2002	9623127231	B.Sc II	<i>[Signature]</i>
52	Pankaj Dhanave		9075696881	B.Sc III	<i>[Signature]</i>
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Student Internship Microbiology

SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI
Department of Microbiology
List of Students-Internship
2021-22

Sr. No.	Name of the student	Class
1	Ms. Adeeba Firdous A. Khan	B.Sc.-III
2	Mr. Ajay S. Jadhao	B.Sc.-III
3	Mr. Chetan B. Ghewande	B.Sc.-III
4	Mr. Ganesh S. Sonone	B.Sc.-III
5	Mr. Harshraj N. Yewale	B.Sc.-III
6	Ms. Janhavi S. Joshi	B.Sc.-III
7	Ms. Kanchan K. Tambekar	B.Sc.-III
8	Mr. Krishna A. Ambhore	B.Sc.-III
9	Mr. Pankaj S. Dhanve	B.Sc.-III
10	Mr. Pratap N. Jadhao	B.Sc.-III
11	Ms. Priti K. Suradkar	B.Sc.-III
12	Ms. Prinyaka R. Misal	B.Sc.-III
13	Mr. Rushikesh G. Sonune	B.Sc.-III
14	Ms. Rutuja B. Deshmukh	B.Sc.-III
15	Ms. Sakshi M. Chopda	B.Sc.-III


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16	Ms. Sakshi P. Lanke	B.Sc.-III
17	Ms. Sakshi S. Chavan	B.Sc.-III
18	Ms. Saloni M. Choudhari	B.Sc.-III
19	Ms. Shital V. Gawate	B.Sc.-III
20	Ms. Shrushti S. Ambhore	B.Sc.-III
21	Mr. Wasim L. Shah	B.Sc.-III
22	Ms. Ankita Ganesh Bahekar	M.Sc.-I
23	Ms. Ashvini Manikrao Solanki	M.Sc.-I
24	Ms. Dipali Jagannath Jaybhaye	M.Sc.-I
25	Mr. Hariom Visshnu Dhumale	M.Sc.-I
26	Ms. Jyotsna Kailas Jadhao	M.Sc.-I
27	Ms. Komal Panjabrao Mapari	M.Sc.-I
28	Ms. Mayuri Devendra Bhusari	M.Sc.-I
29	Ms. Renuka Amarsing Rajput	M.Sc.-I
30	Mr. Rushikesh Vishnu Shejole	M.Sc.-I
31	Ms. Shamal Chandrakant Mehetre	M.Sc.-I
32	Ms. Shivani Madan Ghuge	M. Sc.-I
33	Ms. Shivani Vilas Yendole	M.Sc.-I
34	Ms. Shubhangi Dilip Chavan	M.Sc.-I
35	Ms. Vaishnavi Laxmikant Sapkal	M.Sc.-I


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36	Ms. Vaishnavi Ravindra Rane	M.Sc.-I
37	Mr. Amit Shivaji Shelke	M.Sc.-II
38	Ms. Disha Rajesh Punjabi	M.Sc.-II
39	Mr. Dnyaneshwari Raju Kale	M.Sc.-II
40	Mr. Ganesh Ramesh Bulkade	M.Sc.-II
41	Ms. Poonam Umesh Dukare	M.Sc.-II
42	Ms. Pradnya Jyotirao Vinkar	M.Sc.-II
43	Mr. Sagar Sanjay Jadhao	M.Sc.-II
44	Mr. Saurav Bhaskar Raut	M.Sc.-II
45	Ms. Shruti Pravin Patil	M.Sc.-II
46	Mr. Shubham Dnyaneshwar Wagh	M.Sc.-II
47	Ms. Shweta Vinod Hinge	M.Sc.-II
48	Mr. Vishal Tulsiram Solanki	M.Sc.-II


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Certificate of Internship-Microbiology (Sample)

- मायक्रोबायोलॉजी कल्चर लॅब
- हिमेटॉलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि. कोरडे

Msc (Microbiology) DMLT

मो. 9168137804, 8805806058

C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा, तळमजला, श्री.छ.शिवाजी महाराज चौक, स्टेट बँक समोर, चिखली जि.बुलडाणा

Certificate of Internship

This is to certify that Mr./Ms. Hariom Vishnu Dhumale student of Class-M.Sc.I, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during 01/07/2022 to 31/07/2022.

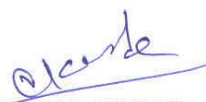
During this period of internship, he was found punctual and hardworking.

We wish him every success in future.

24 तास
सेवा

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली


Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



- मायक्रोबायोलॉजी कल्चर लॅब
- हिमेटोलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि.कोरडे
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Certificate of Internship

This is to certify that Mr./Ms. Jyotsna Kailas Jadhao student of Class-M.Sc.-I, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during 01/07/2022 to 31/07/2022.

During this period of internship, she was found punctual and hardworking.

We wish him every success in future.

24 तास
सेवा

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Signature
Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



- मायक्रोबायोलॉजी कल्चर लॅब
- हिमेटोलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि.कोरडे

Msc (Microbiology) DMLT

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C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा, तळमजला, श्री.छ.शिवाजी महाराज चौक, स्टेट बँक समोर, विखली जि.बुलडाणा

Certificate of Internship

This is to certify that Mr./Ms. Amit Shivaji Shelke student of Class-M.Sc.-II, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during 01/07/2022 to 31/07/2022.

During this period of internship, he was found punctual and hardworking.

We wish him every success in future.

24 तास
सेवा

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, विखली

Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



- मायक्रोबायोलॉजी कल्चर लॅब
- हिमटॉलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि.कोरडे

Msc (Microbiology) DMLT
मो. 9168137804, 8805806058

C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा, तळमजला, श्री.छ.शिवाजी महाराज चौक, स्टेट बँक समोर, चिखली जि.बुलडाणा

Certificate of Internship

This is to certify that Mr./Ms. Disha Rajesh Punjabi student of Class-M.Sc.-II, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during 01/07/2022 to 31/07/2022.

During this period of internship, she was found punctual and hardworking.

We wish him every success in future.

24 तास
सेवा

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



- मायक्रोबायोलॉजी कल्चर लॅब
- हिमेटॉलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि.कोरडे

Msc (Microbiology) DMLT

मो. 9168137804, 8805806058

C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा, तळमजला, श्री.छ.शिवाजी महाराज चौक, स्टेट बँक समोर, चिखली जि.बुलडाणा

Certificate of Internship

This is to certify that **Mr./Ms. Chetan B. Ghewande** student of Class-**BSc-III**, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during **01/07/2022 to 31/07/2022**.

During this period of internship, he was found punctual and hardworking.

We wish him every success in future.

24 तास सेवा

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Vijay D. Korde
Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.



Certificate of Internship

This is to certify that **Mr./Ms. Ganesh S. Sonone** student of **Class-BSc-III**, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during **01/07/2022 to 31/07/2022**.

During this period of internship, he was found punctual and hardworking.

We wish him every success in future.

24 तास
सेवा

Note : Patient May Kindly Note that the test results are influenced by various factors their interpretations are done on the background of history and clinical findings by medical personal only.

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Vijay D. Korde
Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



Dr. Omraj S. Deshmukh
Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana

- मायक्रोबायोलॉजी कल्चर लॅब
- हिमटॉलॉजी ■ सेरॉलॉजी
- बायोकेमिस्ट्री

वक्रतुंड लॅब

विजय दि.कोरडे

Msc (Microbiology) DMLT
मो. 9168137804, 8805806058

C/o राजपुत हॉस्पिटल व अंकुर बालरूग्णालयाचा, तळमजला, श्री.छ.शिवाजी महाराज चौक, स्टेट बँक समोर, चिखली जि.बुलडाणा

Certificate of Internship

This is to certify that **Mr./Ms. Shrushti S. Ambhore** student of Class-**BSc-III**, Shri Shivaji Science And Arts College, Chikhli has successfully completed one month internship and training at this Lab during **01/07/2022 to 31/07/2022**.

During this period of internship, she was found punctual and hardworking.

We wish him every success in future.

24 तास सेवा

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल

Mr. VIJAY D. KORDE
M Sc (Microbiology)
DMLT

Technician



Student Internship Commerce

SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI,

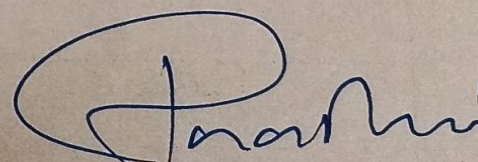
DISTT :- BULDHANA

DEPARTMENT OF COMMERCE & MANAGEMENT

INTERNSHIP STUDENTS LIST 2021-2022

SR. NO.	NAME OF THE STUDENT	CLASS
1	Mr. Akash Madhukar Jaival.	M. Com. II
2	Mr. Akshay Prabhakar Metangale.	M. Com. II
3	Ms. Arti Subhash Sontakke.	M. Com. II
4	Ms. Kiran Dnyaneshwar Solanke.	M. Com. II
5	Mr. Manohar Shriram Walke.	M. Com. II
6	Mr. Parmanand Jagdish Ware.	M. Com. II
7	Ms. Rasika Rajendra Kulkarni.	M. Com. II
8	Mr. Rushikesh Ramrao Pophale.	M. Com. II
9	Mr. Rushikesh Subhash Dhore.	M. Com. II
10	Mr. Shrikant Kailas Korde.	M. Com. II
11	Mr. Shubham Baban Aute.	M. Com. II
12	Mr. Sunil Bharatsing Suradkar.	M. Com. II
3	Ms. Ujjwala Baban Shewale.	M. Com. II
4	Ms. Ujjwala Subhash Kharat.	M. Com. II
5	Mr. Vikas Manikrao Jadhao.	M. Com. II




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Shri Shivaji Science & Art's College, Chikhlil

SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI.

DISTT :- BULDHANA

DEPARTMENT OF COMMERCE & MANAGEMENT

INTERNSHIP STUDENTS LIST 2021-2022

SR. NO.	NAME OF THE STUDENT	CLASS
1	Mr. Akash Ramdas Umale.	M. Com. I
2	Ms. Bhagyashri Ashok Dukare.	M. Com. I
3	Ms. Dipali Gajendra Jadhao.	M. Com. I
4	Mr. Gopal Vishwanath Shinde.	M. Com. I
5	Ms. Jaya Dipak Suradkar.	M. Com. I
6	Mr. Karan Eaknath Jadhao.	M. Com. I
7	Ms. Mangal Gajanan Dukare.	M. Com. I
8	Mr. Nilesh Anil Bhutekar.	M. Com. I
9	Mr. Pawan Pandharinath Shelke.	M. Com. I
10	Mr. Pawan Ramesh Hade.	M. Com. I
11	Mr. Pawan Sudhakar Birgal.	M. Com. I
12	Ms. Revti Uddhaorao Kharpas.	M. Com. I
13	Ms. Rupali Bharat Akal.	M. Com. I
14	Ms. Shivani Bhagwan More.	M. Com. I
15	Ms. Shubhangi Sunil Wankhede.	M. Com. I




HOD
Dept. Of Commerce
Shri Shivaji Science &
A-I's College, Chikhli




Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldhana

SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI.,

DISTT :- BULDHANA

DEPARTMENT OF COMMERCE & MANAGEMENT

INTERNSHIP STUDENTS LIST 2021-2022

SR. NO.	NAME OF THE STUDENT	CLASS
1	Mr. Akash Ramdas Umale.	M. Com. I
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3	Ms. Dipali Gajendra Jadhao.	M. Com. I
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11	Mr. Pawan Sudhakar Birgal.	M. Com. I
12	Ms. Revti Uddhaorao Kharpas.	M. Com. I
13	Ms. Rupali Bharat Akal.	M. Com. I
14	Ms. Shivani Bhagwan More.	M. Com. I
15	Ms. Shubhangi Sunil Wankhede.	M. Com. I




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Shri Shivaji Science &
Arts College, Chikhli




Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana



॥ जय सहकार ॥

फोन : २४२५९२

दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

सदाशिव देशमुख

अध्यक्ष, मोबा.९८५०८७४२९७

राजेश खरात

उपाध्यक्ष, मोबा.९८२२७३२४३४

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.

जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, **Shri / Ku. PAWAN PANDHARINATH SHELKE .**

A student of B. Com. /M. Com. I , **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from

01/ 07/2022 to 31/ 07/2022 Under Internship programme.

During this period internship programme with us. **He/** She found
punctual and hardworking.

We wish him/her every success in life.

Signature & Stamp

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र.नं.२०१
General Manager



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

सदाशिव देशमुख

अध्यक्ष, मोबा.९८५०८७४२९७

राजेश खरात

उपाध्यक्ष, मोबा.९८२२७३२४३४

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.

जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. REVTI UDDHAORAO KHARPAS .

A student of B. Com. /M. Com. I , Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from

01/07/2022 to 31/07/2022 Under Internship programme.

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We wish him/her every success in life.

Signature & Stamp

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र.नं.२०१
General Manager



दि समता अर्बन को-ऑप. क्रेडीट सोसा. लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

सदाशिव देशमुख

अध्यक्ष, मोबा.९८५०८७४२९७

राजेश खरात

उपाध्यक्ष, मोबा.९८२२७३२४३४

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.

जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. SHRIKANT KAILAS KORDE.

A student of B. Com. /M. Com.II , Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from

05/07/2022 to 10/08/2022 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

Signature & Stamp

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र.नं.२०१
General Manager



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.

जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. UJJWALA SUBHASH KHARAT.
A student of B. Com. /M. Com.II, Shri Shivaji Science & Arts College, Chikhli.
Distt.:- Buldana. Has Successfully completed Accountancy work from
05/07/2022 to 10/08/2022 Under Internship programme.

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दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र.नं.२०१
General Manager

SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHLI.

DEPARTMENT OF COMMERCE & MANAGEMENT

INTERNSHIP STUDENTS LIST 2021-2022

SR. NO.	NAME OF THE STUDENT	CLASS
1.	Abhishek Rameshwar Gadekar	B. Com. III
2.	Ku. Akanksha Anil Kherodkar.	B. Com. III
3.	Akash Bhashkar kasare.	B. Com. III
4.	Akash Maroti Bhosale.	B. Com. III
5.	Aniket Rajendra Kolhe.	B. Com. III
6.	Ku. Ashwini Subhash Gadekar.	B. Com. III
7.	Avinash Uddhao Wagh	B. Com. III
8.	Ku. Divya Rajesh Rasal	B. Com. III
9.	Ku. Divya Suresh Ingle.	B. Com. III
10.	Harshal Gajanan Jadhao.	B. Com. III
11.	Kamlesh Rajendra Salve.	B. Com. III
12.	Ku. Kiran Jagannath More.	B. Com. III
13.	Ku. Komal Rajesh Lanke.	B. Com. III
14.	Ku. Komal Vishnu Puri.	B. Com. III
15.	Kunal Nandkishor Rasal.	B. Com. III
16.	Mahesh Gopal Bhawar.	B. Com. III
17.	Ku. Manisha Narendra Shimpne	B. Com. III
18.	Ku. Mansi Subhash Vyas	B. Com. III
19.	Ku. Mayurui Gajanan More.	B. Com. III
20.	Ku. Pooja Sanjaysing Thakur.	B. Com. III
21.	Ku. Pratiksha Rambhau Ghorpade.	B. Com. III
22.	Ku. Punam Ashok Ambhore.	B. Com. III
23.	Ku. Punam Gajanan Sadar.	B. Com. III
24.	Ku. Punam Prabhakar Solunke.	B. Com. III



(Signature)
HOD
Dept. Of Commerce
Shri Shivaji Science &
Art's College, Chikhli



(Signature)
Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana

25.	Samadhan Jagannath kalyankar.	B. Com. III
26.	Sandip Nagnath Dhanmane	B. Com. III
27.	Ku. Sanjivani Dinkar Pandagale.	B. Com. III
28.	Sanket Anil Lokhande.	B. Com. III
29.	Ku. Sapna Sunil Jadhao.	B. Com. III
30.	Sarjerao Ramesh Ausarmol.	B. Com. III
31.	Ku. Shubangi Ankush Deshmukh.	B. Com. III
32.	Shyam Asaram Jadhao.	B. Com. III
33.	Siddheshwar Dilip Parihar.	B. Com. III
34.	Ku. Sonali Kishor Ratale.	B. Com. III
35.	Ku Swati Kisan Gadekar.	B. Com. III
36.	Ku. Uma Deorao Tekale.	B. Com. III
37.	Umesh Kishor Nake.	B. Com. III
38.	Vaibhav Arvind Jagtap	B. Com. III
39.	Vaibhav sanjay Khandagale.	B. Com. III
40.	Ku. Vaishnavi Gajanan Deshmukh.	B. Com. III
41.	Ku. Vaishnavi Rameshwar Kothale.	B. Com. III
42.	Ku. Laxmi Arun Kharat.	B. Com. III



[Signature]
HOD
 Dept. Of Commerce
 Shri Shivaji Science &
 Art's College, Chikhli



[Signature]
Dr. Omraj S. Deshmukh
Principal
 Shri Shivaji Sci. & Arts
 College, Chikhli, Dist. Buldana



दि समता अर्वन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.१६/३१/१०/२०२०



CERTIFICATE OF INTERNSHIP

This is to Certify that, **KU.Aditi Martand Kulkarni**
A student of **B.Com.III Shri Shivaji Science & Arts College ,Chikhali** has
successfully completed Accountancy work from 22/10/2020 to
31/10/2020 Under Internship programme.

During this period internship programme with us he/ she
found punctual and hardworking.

We wish him/her every success in life .

Signature & Stamp

General Manager

दि समता अर्वन को-ऑप क्रेडीट
संस्थायटी चिखली र नं.२०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.३१/१०/२०२०

CERTIFICATE OF INTERNSHIP

This is to Certify that **Ku.Mayuri Santosh Kadam**
A student of **B.Com.III Shri Shivaji Science & Arts College ,Chikhali** has
successfully completed Accountancy work from 22/10/2020 to
31/10/2020 Under Internship programme.

During this period internship programme with us he/ she
found punctual and hardworking.

We wish him/her every success in life .

Signature & Stamp

General Manager

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र.नं.२०१

॥ जय सहकार ॥

फोन : २४२५९२

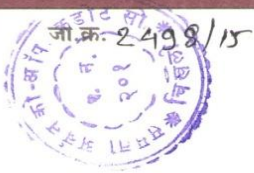


दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

ता. चिखली, जि.बुलडाणा

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)



जा.क्र. दि. 31/10/2020

CERTIFICATE OF INTERNSHIP

This is to Certify that **Ku.Prachi Anil Udrakar**
A student of **B.Com.III Shri Shivaji Science & Arts College ,Chikhali** has
successfully completed Accountancy work from 22/10/2020 to
31/10/2020 Under Internship programme.

During this period internship programme with us he/ she
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We wish him/her every success in life .

Signature & Stamp

General Manager

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र नं.२०१

दि समता अर्बन को-ऑप. क्रेडीट सोसा....

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र. दि. ३१/१०/२०२०



CERTIFICATE OF INTERNSHIP

This is to Certify that **Ku.Renuka Vinayak Nirmal**
A student of **B.Com.III Shri Shivaji Science & Arts College ,Chikhali** has
successfully completed Accountancy work from 22/10/2020 to
31/10/2020 Under Internship programme.

During this period internship programme with us he/ she
found punctual and hardworking.

We wish him/her every success in life .

Signature & Stamp

General Manager

वि.समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली र नं.२०१



Dr. Omraj S. Deshmukh
Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana



शिवराजा अर्बन क्रेडिट को. ऑप. सोसायटी लि.

चिखली जि. बुलडाणा ४४३ २०१ र.नं. ४३९

* हेड ऑफिस :- डि. पी. रोड, ता. चिखली जि. बुलडाणा ४४३ २०१

जा.क्र. 52 / 2021

दिनांक : 01 / 11 / 2020

CERTIFICATE OF INTERNSHIP

This is to certify that, **Abhishek Rameshwar Gadekar** A student of **B.Com.Part-II, Shri Shivaji Science & Arts College, Chikhli** has Successfully completed Accountancy work from **22 Oct.2020 to 31 Oct 2020** under Internship programme.

During this period internship programme with us he was found punctual and hardworking.

We wish him every success in life.

Signature and Stamp



Abhishek

Manager

39 ऑक्टो. 2020



शिवराणा अर्बन क्रेडिट को. ३



शिवराणा अर्बन क्रेडिट को. ऑप. सोसायटी लि.

चिखली जि. बुलडाणा ४४३ २०१ र.नं. ४३९

* हेड ऑफिस :- डि. पी. रोड, ता. चिखली जि. बुलडाणा ४४३ २०१

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दिनांक : ०१ / ११ / २०२०

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B. Deshmukh

Manager



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Manager



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Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana

Project Work- BCom-III Commerce

Shri Shivaji Shikshan Sanstha Amravati's

Shri Shivaji Science & Arts

College, Chikhli

(College Code : -308)



Project Report

B.Com. Final Year

2021-22

SAPTASHRUNGHI MAHILA CO-OPERATIVE

BANK, MEHAKAR

Project Guidance

Dr. R.P. Gawai

(HOD Dept. of Commerce)

Prof. D.K. Nambai

(Asst. Professor)

Presented by

VAISHNVI R. KOTHALE

B.Com. (Final Year)

Shri Shivaji Shikshan Sanstha Amravati's

Shri Shivaji Science & Arts College, Chikhli

(College Code : 308)



Project Report

B.Com. Final Year

2021-22

Saptashrungi Mahila Co-Operative bank, Mehkar

Project Guidance

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Subject Teacher

Dept. of Commerce

Shri Shivaji Science & Arts College, Chikhli

CERTIFICATE

This is to certify the investigation described in the dissertation work **entitled** Vaishnavi Kothale submitted in partial fulfillments of the requirement for the degree of Bachelor in Commerce, in the faculty of Sant Gadge Baba Amravati University, Amravati, was carried through the Shri Shivaji Science & Arts College, Chikhli. Saptashrungi Mahila Urban under the guidance and supervision of **Dr. R. P. Gawaj** HOD of Commerce & Management and Prof. D. K. Nanhai, Asst. Professor of Shri Shivaji Science & Arts College, Chikhli

This Dissertation Is Now For Examination

Place : Chikhli

Date : 04/05/2022


Prof. D. K. Nanhai

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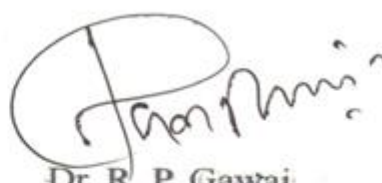
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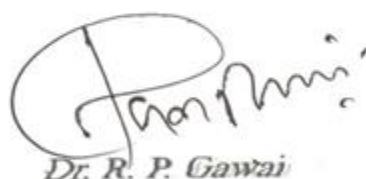
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CONCLUSION:-

In Oct 2012, Saptashruni Mahila Co Op Bank was incorporated as a small, regional bank in Maharashtra with one branch in Janefal. It was founded to cater to the needs of small and medium business merchants in the Janefal. Then the Bank was categorised as a "Co oprative Society" within the meaning of the Reserve Bank of India Act, 1934.

The Saptashruni Mahila Co Op Bank help in strengthening the development of the economy. Saptashruni Mahila Co Op Bank are a great help to rural masses who are engaged in agricultural activities. But currently, these banks are under great pressure because of low productivity, low efficiency and therefore the necessary profit is unable to generate. Saptashruni Mahila Co Op Bank have great scope because India is an agricultural-based country and Co-operative banks mainly work for masses engaged in agricultural processes. There are some suggestions which would help in the effective functioning of Saptashruni Mahila Co Op Bank such as, Willful defaults should be made an offense, financial stability of the money borrower should be checked and evaluated. New and Innovative technologies should be adopted.



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पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँग्रोच्या बाजुला,
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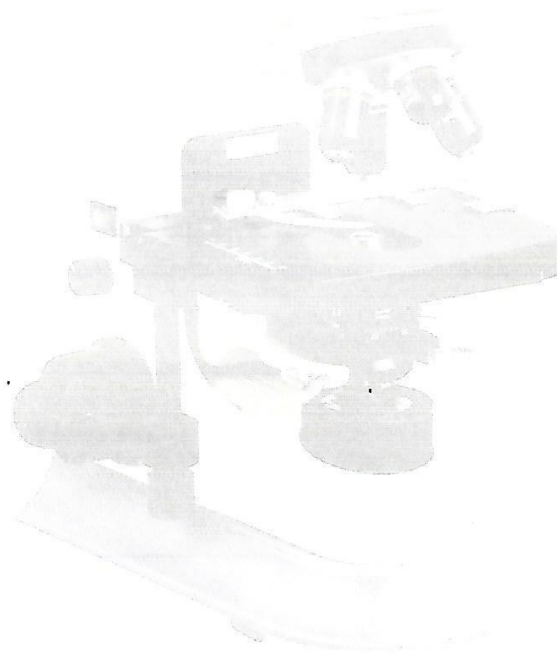


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Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

HEAD OF LAB

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राजपुत हॉस्पिटल, चिखली
Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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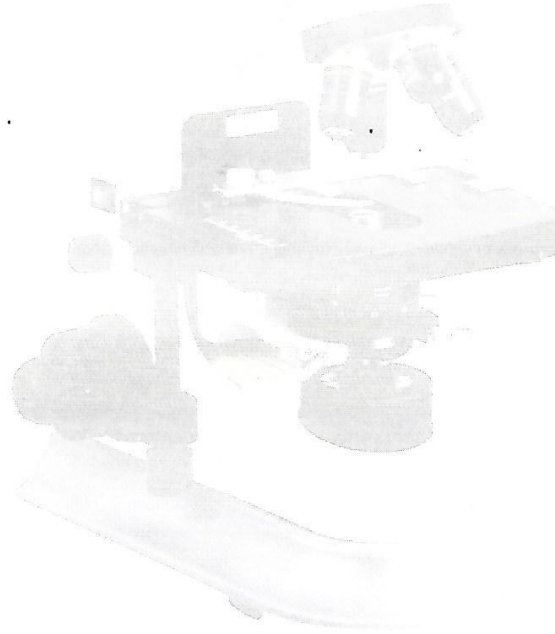


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Msc (Medical Microbiology) DMLT



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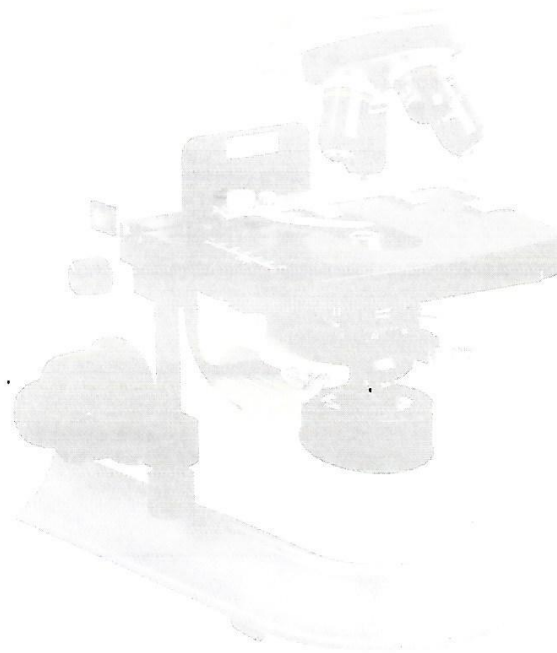


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चिखली

Technician

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बसस्टॅण्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471





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प्रडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँगोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, विखली मो.9730983471, 9765983471

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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Vaishnavi Dhananjay Didolkar. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.

HEAD OF LAB

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अॅग्रोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

शेळके क्लिनिकल लॅब
चिखली
Technician





शेळके क्लिनिकल लॅब

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ऋषिकेश ह.शेळके

B.Sc., (Microbiology)

PGDMLT (M.S.B.T.E.)

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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Vaishnavi Anil Ghusalkar STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.

HEAD OF LAB


शेळके क्लिनिकल लॅब
चिखली

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँग्रेच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

Technician





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B.Sc., (Microbiology)

PGDMLT (M.S.B.T.E.)

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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Kishori Sangramsing Golait. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

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तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अॅग्रोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

Shelke
शेळके क्लिनिकल लॅब
चिखली
Technician





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क्लिनिकल लॅब

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PGDMLT (M.S.B.T.E.)
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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Kanchan Laxman Bande. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँग्रेच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

Shelke
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चिखली
Technician





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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Hina Kausar Rauf Khan. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अॅग्रोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

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चिखली
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PGDMLT (M.S.B.T.E.)

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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Gayatri Narayan Deshmukh. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अॅग्रोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

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चिखली
Technician





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PGDMLT (M.S.B.T.E.)
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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Gauri Rajendra Bholane. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँगोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

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चिखली
Technician





शेळके क्लिनिकल लॅब

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B.Sc., (Microbiology)
PGDMLT (M.S.B.T.E.)
9730983471

● MEDICAL LAB TECHNICAL ANALYSIS RESULT SHEET ●

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Bhagyashri Bhaskar Khente. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

24

तास सेवा

पडघान डायग्नोस्टीक सेंटरचा तळमजला, एस कुमार अँग्रोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

शेळके क्लिनिकल लॅब
चिखली
Technician





वक्रतुंड लॅब
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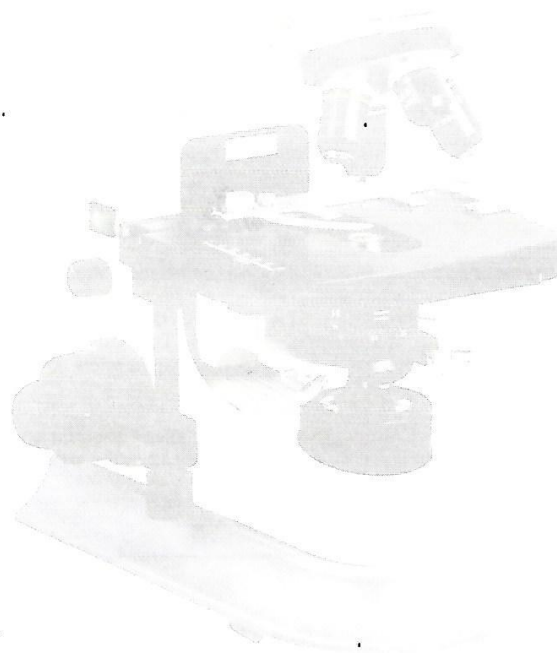


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Shital Gajanan Mhaske. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNEMENT.



HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
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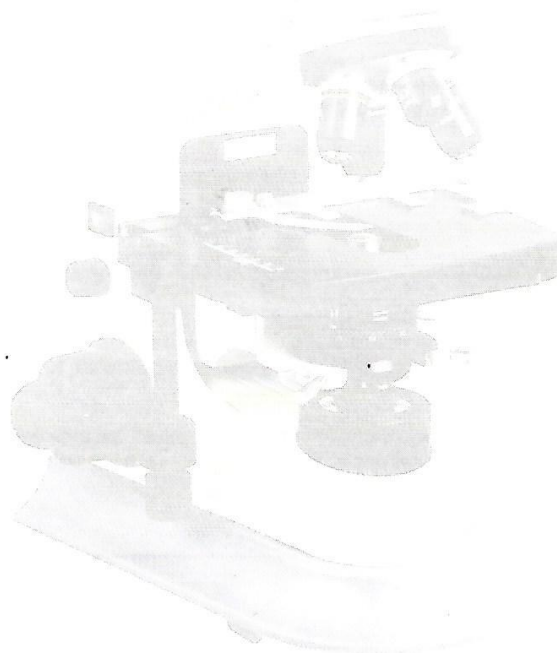


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Sarita Gajanan Dhavane. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNEMENT.



Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
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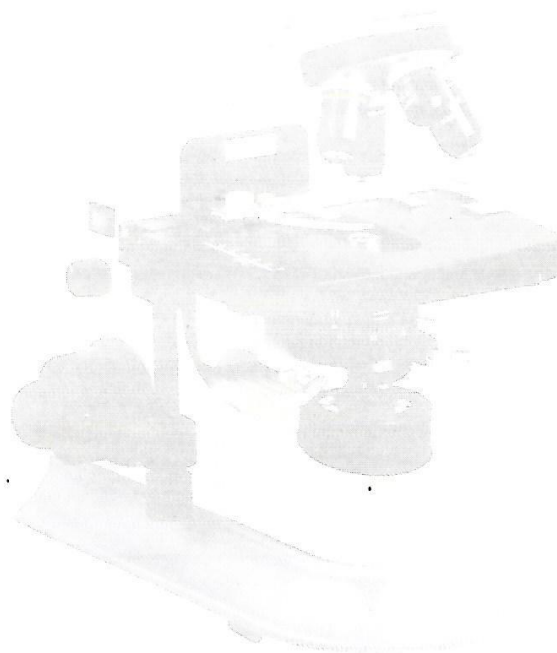


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Priti Hanuman Dahake. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNEMENT.



Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब

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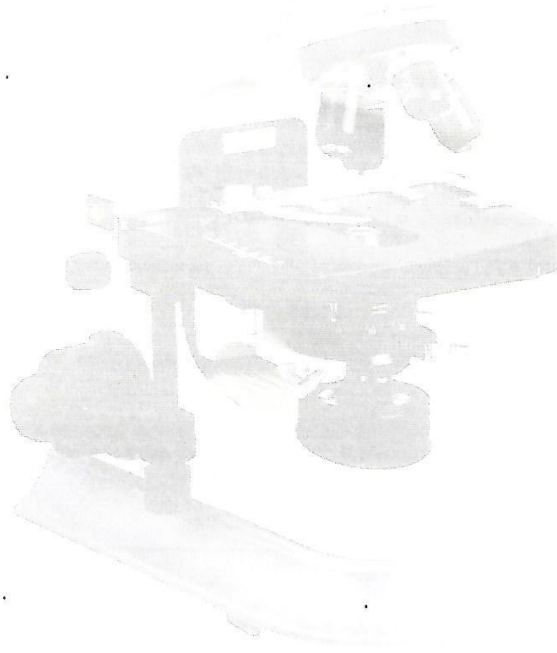


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Yogesh Sanjay Pise STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.



HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Aniket Siddheshwar Lahane. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अंग्रेच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

शेळके
क्लिनिकल लॅब
चिखली
Technician





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PGDMLT (M.S.B.T.E.)

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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Masira Tabassum Salim Sayyad. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.

HEAD OF LAB

Shelke
शेळके क्लिनिकल लॅब
चिखली
Technician

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँगोच्या बाजुला,
बसस्टॅण्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471





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PGDMLT (M.S.B.T.E.)
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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Gauree Arun Sawadatkar. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

24
तास सेवा

पडधान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँगोच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

R. Shelke
शेळके क्लिनिकल लॅब
चिखली
Technician





वक्रतुंड लॅब

Accurate Result Timely Delivered

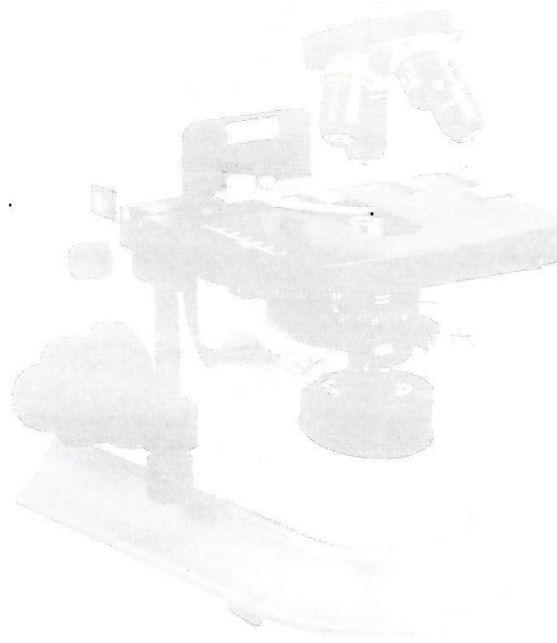


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Purna Vitthal Karwande. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.



HEAD OF LAB

Vijay Dilip Korde
वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Aishwarya Rameshwar Raut. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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तास सेवा

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बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

Shelke
शेळके क्लिनिकल लॅब
चिखली
Technician





वक्रतुंड लॅब
Accurate Result Timely Delivered

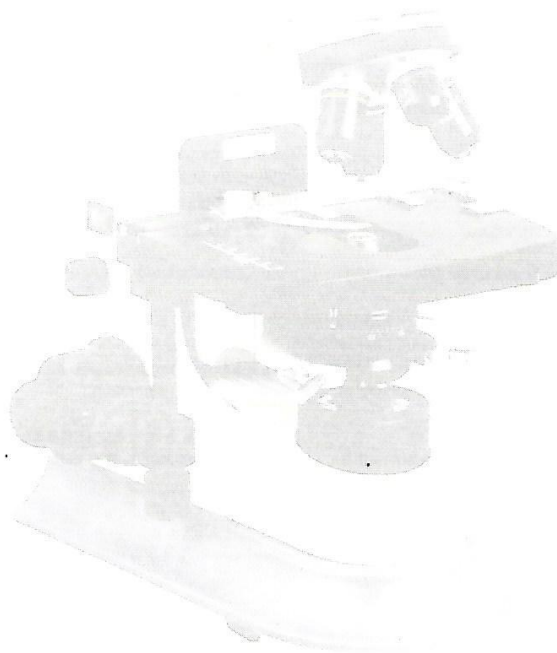


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Neha Samadhan Jadhao. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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HEAD OF LAB

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm


Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
Accurate Result Timely Delivered

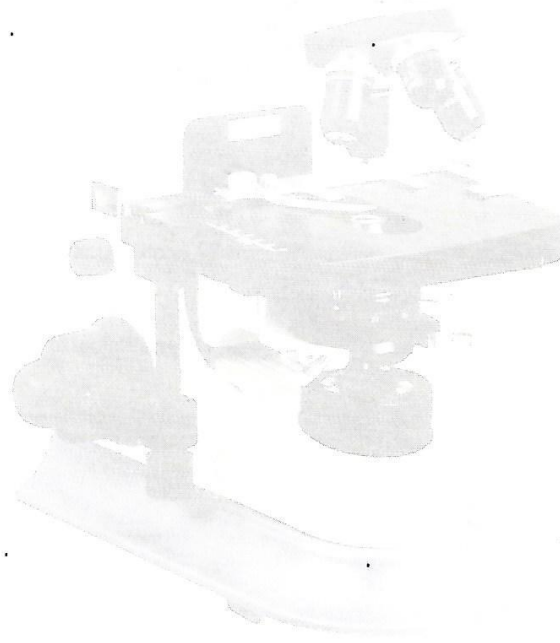


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
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स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Rutuja Vijay Dalal. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

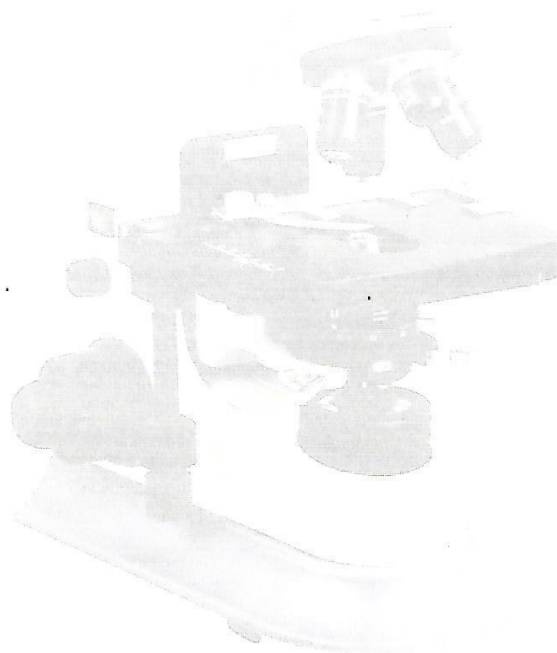
Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Rajeshwar Bhaskar Ghogare. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNEMENT.



HEAD OF LAB


वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब

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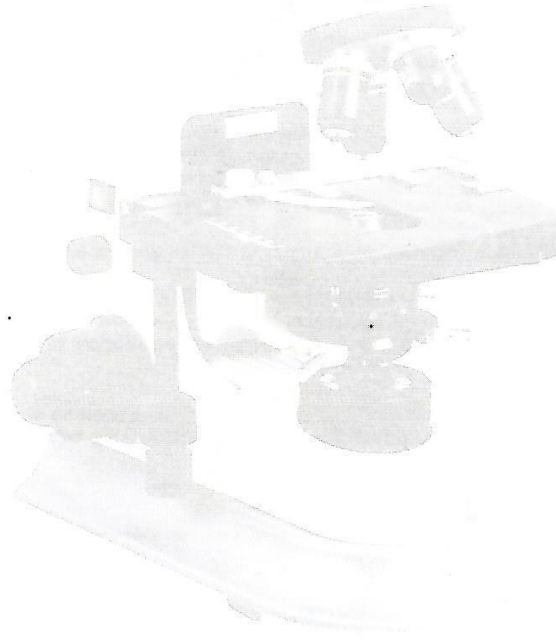


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Shubham Dnyaneshwar Chinchole. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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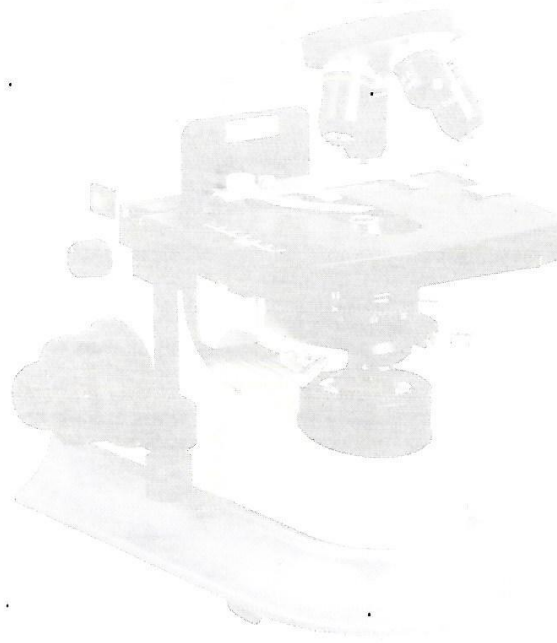


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
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स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Shubham Wamanrao Ingle. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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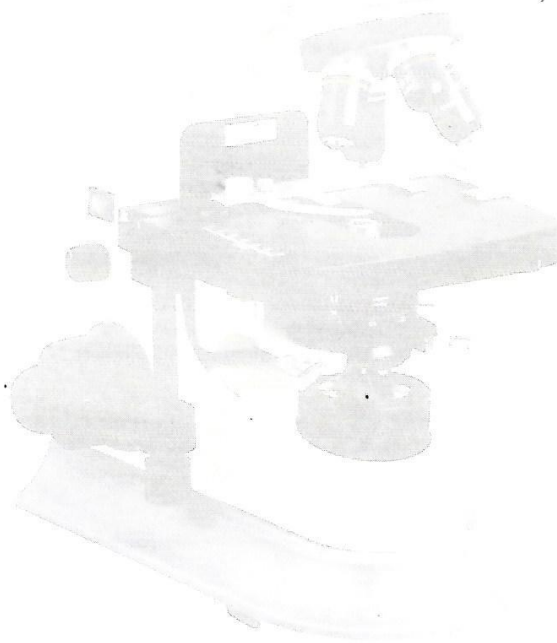


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Shubhangi Ramesh Ingle. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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Mrs. Neha Vijay Korde
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D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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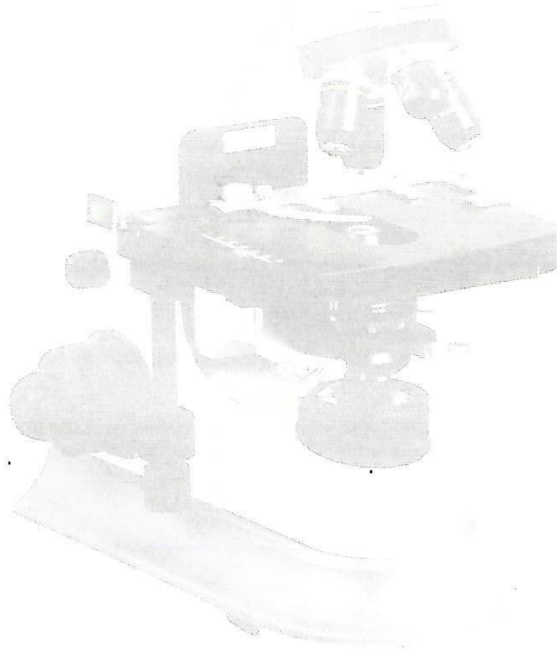


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
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स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Uday Shivaji Kale STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT..



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(Signature)

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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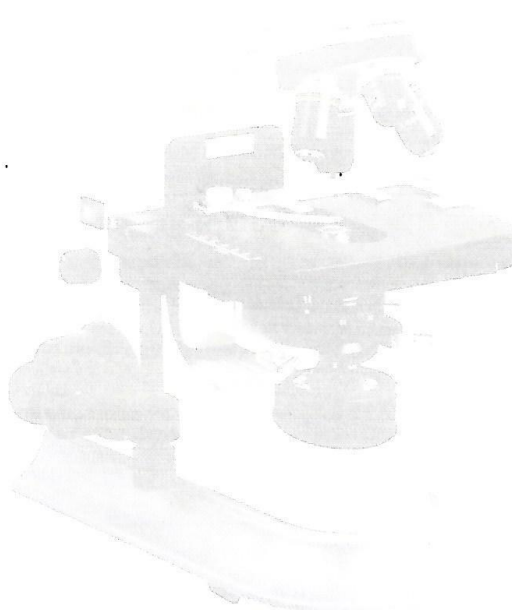


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
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मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Swapnil Ganesh Jwanjal STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
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D.Pharm

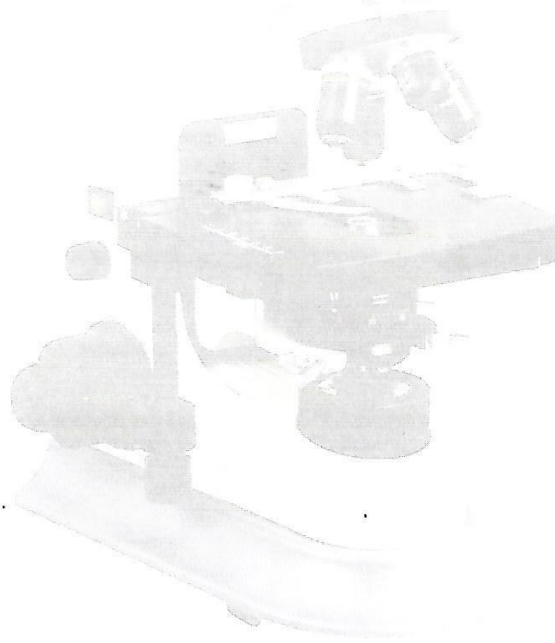
Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Vijaya Santosh Fulzade STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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Mrs. Neha Vijay Korde
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D.Pharm


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राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
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स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Varsha Santosh Chavare STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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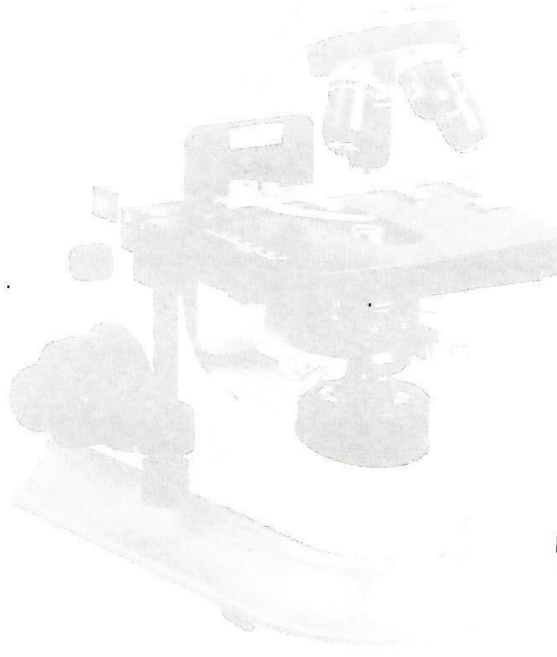


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Vinayak Manmat Kore STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 12 JUL 2022 TO 30 AUG 2022.

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राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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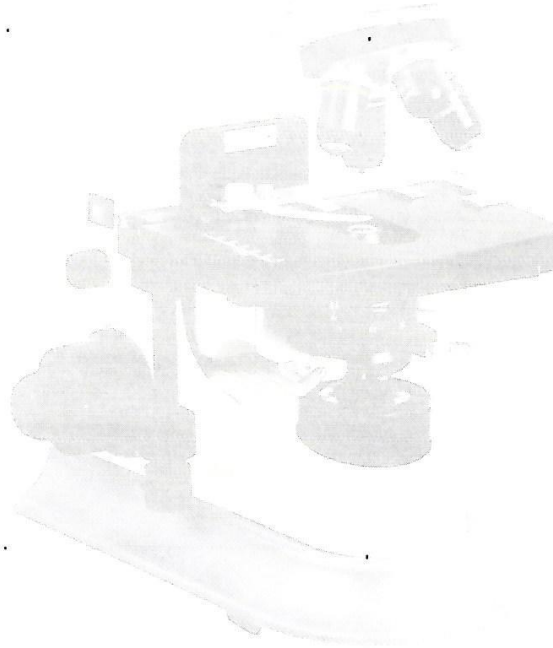


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तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Akshay Vijay Nikas. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Aditya Iswardas Surushe. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm



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तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Adinath Vilas Theng . STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Archana Sanjay Padghan. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

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राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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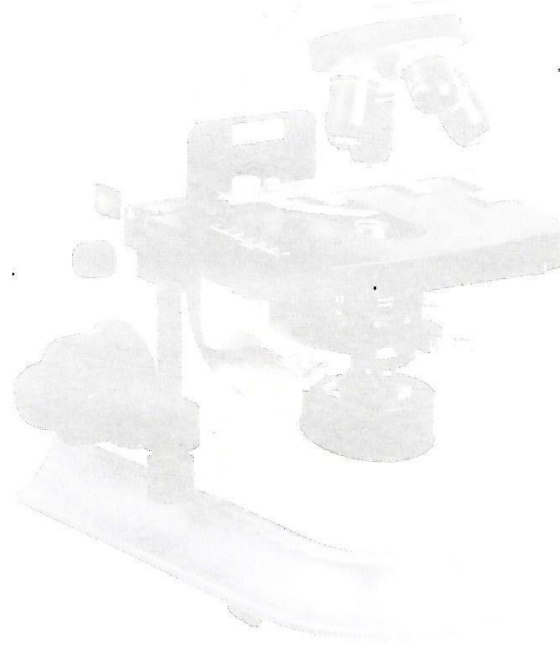


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Anjali Tukaram Ingle. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS.COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

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HEAD OF LAB
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
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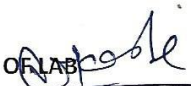
INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Dnyaneshwar Ananta Murkute. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
Accurate Result Timely Delivered

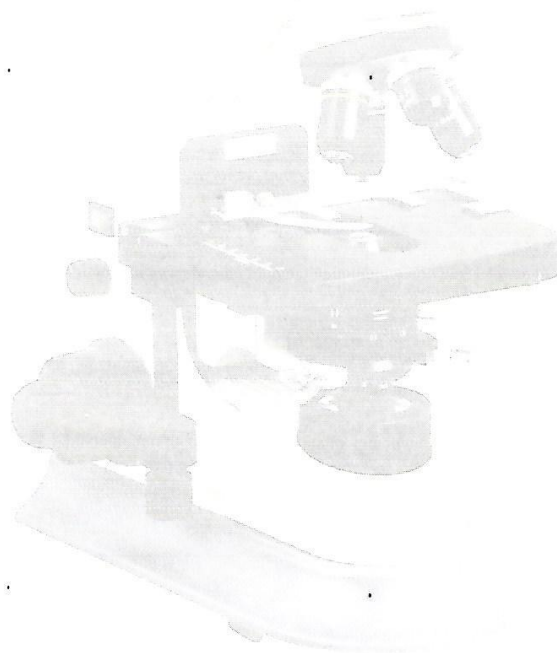


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS. Hrutuja Rajesh Padghan. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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Mrs. Neha Vijay Korde
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D.Pharm

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



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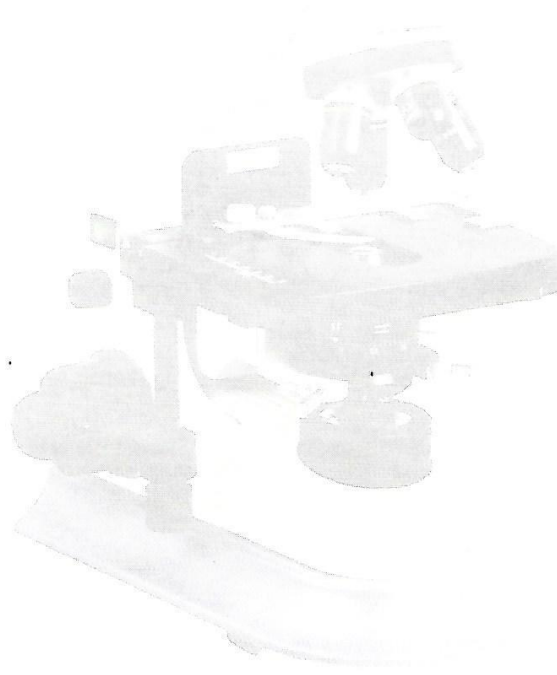


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मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Komal Ajabrao Ambhore. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब

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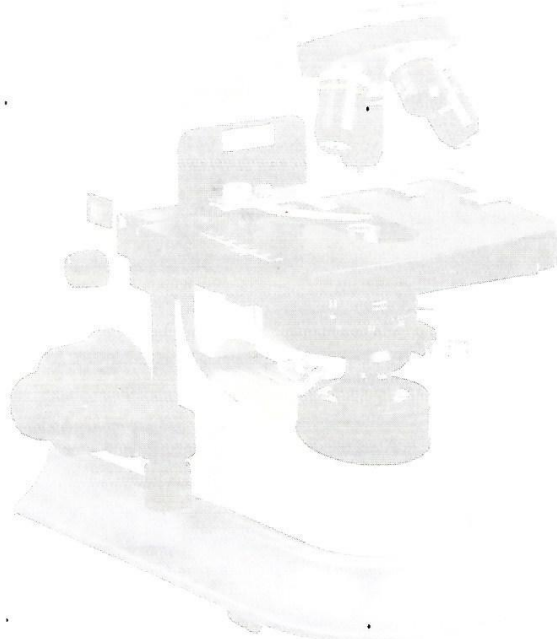


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मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Pallavi Raju Gawate. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

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वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
Accurate Result Timely Delivered

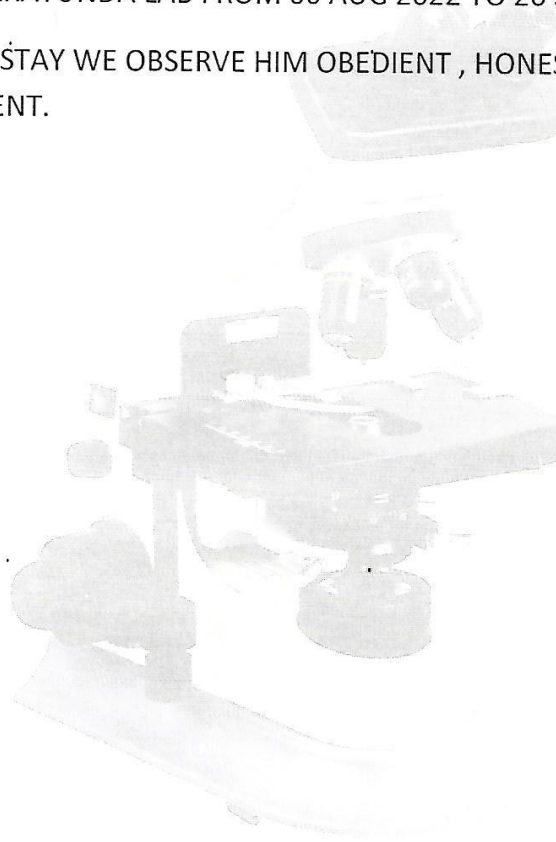


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Pawan Dipak Sapkal. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNMENT.



HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
Accurate Result Timely Delivered



C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, विखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Pooja Dnyaneshwar Mehetre. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNMENT.



HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, विखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



वक्रतुंड लॅब
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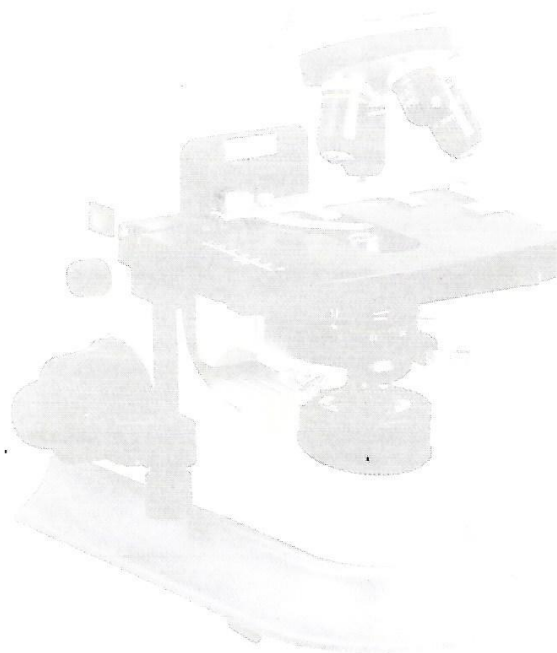


C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०९
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Prabhudas Rameshwar Wakade. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNEMENT.



Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



शेळके क्लिनिकल लॅब

Your Health...Our Priority...



ऋषिकेश ह.शेळके

B.Sc., (Microbiology)

PGDMLT (M.S.B.T.E.)

9730983471

● MEDICAL LAB TECHNICAL ANALYSIS RESULT SHEET ●

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Abhay Kailas Nikhade. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.

HEAD OF LAB

24

तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँग्रेच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

शेळके क्लिनिकल लॅब
चिखली
Technician





शेळके
क्लिनिकल लॅब

Your Health...Our Priority...



ऋषिकेश ह.शेळके

B.Sc., (Microbiology)

PGDMLT (M.S.B.T.E.)

9730983471

● MEDICAL LAB TECHNICAL ANALYSIS RESULT SHEET ●

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Adnan Saquib Siraj Mohammad Sayyad. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF SHELKE LAB FROM 12 JUL 2022 TO 30 AUG 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO ASSIGNMENT.

HEAD OF LAB

24
तास सेवा

पडघान डायग्नोस्टिक सेंटरचा तळमजला, एस कुमार अँग्रेच्या बाजुला,
बसस्टॅन्डच्या पाठीमागे, चिखली मो.9730983471, 9765983471

Shelke
शेळके क्लिनिकल लॅब
चिखली
Technician





वक्रतुंड लॅब
Accurate Result Timely Delivered



C/o राजपुत हॉस्पिटल व अंकुर बालरुग्णालयाचा,
तळमजला, श्री.छ.शिवाजी महाराज चौक,
स्टेट बँक समोर, चिखली जि.बुलडाणा ४४३२०१
मो. 9168137804

INTERNSHIP CERTIFICATE

THIS IS CERTIFY THAT MR/MISS Priyanka Anil Pophale. STUDENT OF SHRI SHIVAJI SCIENCE AND ARTS-COLLEGE CHIKHALI DIST BULDANA .WAS UNDER THE EMPLOYER OF VAKRATUNDA LAB FROM 06 AUG 2022 TO 20 SEP 2022.

DURING HIS \ HER STAY WE OBSERVE HIM OBEDIENT , HONEST AND DEDICATED TO HIS ASSIGNEMENT.



HEAD OF LAB

वक्रतुंड क्लिनिकल लॅब
राजपुत हॉस्पिटल, चिखली

Mrs. Neha Vijay Korde
BSC (Clinical Laboratory Science)
D.Pharm

Mr. Vijay Dilip Korde
Msc (Medical Microbiology) DMLT



Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhal, Dist. Buldana

**Student
Internship
B.Com-I
Commerce**



Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI SCIENCE & ARTS COLLEGE

CHIKHLI DIST. BULDANA



Shri Harshawardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati

www.shivajichk.ac.in email : shivajichk@rediff.com ☎ (07264) 242088

Re-accredited by NAAC with B++ Grade [CGPA - 2.82]

Dr. Omraj S. Deshmukh
Principal
M.Sc., Ph.D.

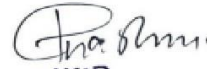
Department of Commerce and Management

BCom-I

Academic Year 2021 – 22

List of Students - Internship

Sr. No	Name	Subject
1	Abhishek Bhagwat More	ACC,CFS,ECO,ENG,FA,MAR,PBM
2	Abhishek Datta Wankhade	ACC,CFS,ECO,ENG,FA,MAR,PBM
3	ABHISHEK DILIP BEDARKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
4	Akash Sadashiv Wankhade	ACC,CFS,ECO,ENG,FA,MAR,PBM
5	AKSHAY SUNIL WANKHADE	ACC,CFS,ECO,ENG,FA,MAR,PBM
6	AKSHAY VITHOBA HORKAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
7	ANIKET RAJENDRA DALIMKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
8	ARPITA DILIP SHINDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
9	ARTI ASHOK BHISE	ACC,CFS,ECO,ENG,FA,MAR,PBM
10	ASHVINI BHARAT TAYDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
11	AVINASH DAMODHAR HADE	ACC,CFS,ECO,ENG,FA,MAR,PBM
12	BHARAT SANTOSH LOKHANDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
13	CHAITANY PRAVIN DESHMUKH	ACC,CFS,ECO,ENG,FA,MAR,PBM
14	Dattu Natthu Khajure	ACC,CFS,ECO,ENG,FA,MAR,PBM
15	DHANASHRI RAMDAS LAHANE	ACC,CFS,ECO,ENG,FA,MAR,PBM
16	DHANASHRI SAMADHAN PAWAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
17	DIPAK DNYANDEV WARPE	ACC,CFS,ECO,ENG,FA,MAR,PBM
18	DIPAK RAMESH LAHUDKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
19	GANESH GAJANAN KHANDALKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
20	GOPAL BALIRAM WANJOL	ACC,CFS,ECO,ENG,FA,MAR,PBM
21	JIVAN RAGHUNATH JADHAV	ACC,CFS,ECO,ENG,FA,MAR,PBM
22	KIRTI JAGAN NAVLE	ACC,CFS,ECO,ENG,FA,MAR,PBM
23	MAHESH GANESH JADHAO	ACC,CFS,ECO,ENG,FA,MAR,PBM
24	MANGESH GAJANAN HADOLE	ACC,CFS,ECO,ENG,FA,MAR,PBM
25	MAYURI SHIVAJI NAYAK	ACC,CFS,ECO,ENG,FA,MAR,PBM
26	NANDINI RAJU KOTWAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
27	NIVEDITA VIJAY KALE	ACC,CFS,ECO,ENG,FA,MAR,PBM
28	OM ARVIND GAWAI	ACC,CFS,ECO,ENG,FA,MAR,PBM
29	POOJA GANESH MISAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
30	POOJA SUDAMA THAKUR	ACC,CFS,ECO,ENG,FA,MAR,PBM


HOD
Dept. Of Commerce
Shri Shivaji Science &
Art's College, Chikhli



Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI SCIENCE & ARTS COLLEGE

CHIKHOLI DIST. BULDANA



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Principal
M.Sc., Ph.D.

29	POOJA GANESH MISAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
30	POOJA SUDAMA THAKUR	ACC,CFS,ECO,ENG,FA,MAR,PBM
31	PRANITA DATTATRAY KALEKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
32	PRITI SANJAY GUPTA	ACC,CFS,ECO,ENG,FA,MAR,PBM
33	RAHUL ASHOK WAGDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
34	RAHUL RAJU MORE	ACC,CFS,ECO,ENG,FA,MAR,PBM
35	RUSHIKESH BHARAT SHELKE	ACC,CFS,ECO,ENG,FA,MAR,PBM
36	RUSHIKESH SURESH KARWANDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
37	RUSHIKESH VITTHAL HIWALE	ACC,CFS,ECO,ENG,FA,MAR,PBM
38	Rutuja Vitthal Pawar	ACC,CFS,ECO,ENG,FA,MAR,PBM
39	Sachin Sanjiv KAKFALE	ACC,CFS,ECO,ENG,FA,MAR,PBM
40	SAKSHI VILAS RASAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
41	SAPANA DATTATRAYA GAWAI	ACC,CFS,ECO,ENG,FA,MAR,PBM
42	SHARDA LAXMAN KUSALKAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
43	SHITAL SANJAY GAWATE	ACC,CFS,ECO,ENG,FA,MAR,PBM
44	SHIVANI VIJAY THENG	ACC,CFS,ECO,ENG,FA,MAR,PBM
45	SHRIKANT RANGNATH RASAL	ACC,CFS,ECO,ENG,FA,MAR,PBM
46	SHUBHAM BABAN SHELKE	ACC,CFS,ECO,ENG,FA,MAR,PBM
47	SHUBHANGI GAJANAN TAWAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
48	SNEHAL RAJENDRA GHEWANDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
49	SUKANYA GAJANAN BHARAD	ACC,CFS,ECO,ENG,FA,MAR,PBM
50	SURAJ SING SHALIKRAM INGLE	ACC,CFS,ECO,ENG,FA,MAR,PBM
51	VAIBHAV MANOHAR GHEVANDE	ACC,CFS,ECO,ENG,FA,MAR,PBM
52	VAIBHAV NANDKISHOR KULSUNDAR	ACC,CFS,ECO,ENG,FA,MAR,PBM
53	Vishal Pralhad Surdkar	ACC,CFS,ECO,ENG,FA,MAR,PBM
54	YAKSHARAJ GAJANAN PAWAR	ACC,CFS,ECO,ENG,FA,MAR,PBM

(Signature)

HOD
Dept. Of Commerce
Shri Shivaji Science &
Art's College, Chikhli



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**



मुख्या कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५

दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Kirti Jagan Navle .

A student of B. Com. I , Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.


व्यवस्थापक
शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली पर्या बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्या कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, **Shri / Ku. Jivan Raghunath Jadhao .**

A student of **B. Com. I , Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. **He/ She** found
punctual and hardworking.

We wish him/her every success in life.

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली म. बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**



पुस्तक कर्मचारी :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५

दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Maresh Ganesh Jadhao .**

A student of **B. Com. I , Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. **He/ She** found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली म. बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Mangesh Gajanan Hadole.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह.पतसंस्था
चिखली मर्या बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Mayuri Shivaji Nayak.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मर्गा बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Rushikesh Bharat Shelke.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मर्चा बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Rahul Raju More.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मरा बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Rahul Ashok Wagde.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह.पतसंस्था
चिखली मर्या बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Priti Sanjay Gupta.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मर्या बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Pranita Dattatray Kalekar..**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मठा बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Pooja Sudama Thakur.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मर्गा बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०९ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Pooja Ganesh Misal.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली म. बुलडाणा जिल्हा र. नं. ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी पतसंस्था चिखली म., बुलडाणा र. नं. ११०

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०९ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Om Arvind Gawai.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली म. बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०



मुख्या कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५

दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Nivedita Vijay Kale.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from
15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह. पतसंस्था
चिखली मर्या बुलडाणा जिल्हा र न ११०



॥ जय सहकार ॥

**श्री शिवाजी शिक्षण संस्था कर्मचारी सहकारी
पतसंस्था चिखली म., बुलडाणा र. नं. ११०**

मुख्य कार्यालय :- शिवाजी नगर, राधाबाई कन्या विद्यालयासमोर, प्रभाग-३, वार्ड नं. ६, चिखली
जि. बुलडाणा ४४३२०१ फो. नं. (०७२६४) २४४०२५



दिनांक.....

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Nandini Raju Kotwal.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.- Buldana. Has Successfully completed Accountancy work from

15/07/2021 to 18/08/2021 Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

श्री शिवाजी शिक्षण संस्था कर्मचारी सह.पतसंस्था
चिखली मया बुलडाणा जिल्हा र न ११०



Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Surajsing Shalikram Ingle.

A student of B. Com. I, Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found punctual and hardworking.

We wish him/her every success in life.


व्यवस्थापक

दि समता अर्बन को-ऑप क्रेडीट
संस्थापटी चिखली २ नं. २०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)



जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Sukanya Gajanan Bharad.**
 A student of **B. Com. I** , Shri Shivaji Science & Arts College, Chikhli.
Distt.:- Buldana. Has Successfully completed Accountancy work
 from **15/07/2021 to 18/08/2021** Under Internship programme.
 During this period internship programme with us. He/ She found
 punctual and hardworking.
 We wish him/her every success in life.

व्यवस्थापक
 दि समता अर्बन को-ऑप क्रेडीट
 साखळी चिखली ७ नं. २०१



दि समता अर्वन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Snehal Rajendra Ghewande.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work
from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/She found
punctual and hardworking.

We wish him/her every success in life.


व्यवस्थापक

दि समता अर्वन को-ऑप क्रेडीट
सोसायटी चिखली २ जं. २०१



दि समता अर्वन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)



जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Shubhangi Gajanan Tawar.**

A student of **B. Com. I** , Shri Shivaji Science & Arts College, Chikhli.

Distt.:- Buldana. Has Successfully completed Accountancy work
from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

दि समता अर्वन को-ऑप क्रेडीट
सोसायटी चिखली १ नं. २०१



दि समता अर्वन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Shubham Baban Shelke.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work
from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.


व्यवस्थापक
दि समता अर्वन को-ऑप क्रेडीट
सोसायटी चिखली १ तं. २०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Shrikant Rangnath Rasal.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work
from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली १ नं. २०१



सा. चिखली, जि. बुलडाणा

दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Shivani Vijay Theng.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work
from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found
punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक

दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली १ नं. २०१

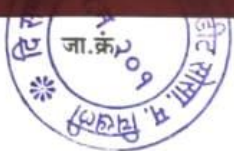


दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Shital Sanjay Gawate.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली ४४३



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Sharda Laxman Kusalkar.**

A student of **B. Com. I , Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक
दि समता अर्बन को-ऑप. क्रेडीट सोसायटी
सा. चिखली २०.८.२०२१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Sapna Dattatray Gawai.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली १ नं. २०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Sakshi Vilas Rasal.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

During this period internship programme with us. He/ She found punctual and hardworking.

We wish him/her every success in life.

व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
समासपटी चिखली १ नं. २०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा. लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Sachin Sanjiv Kakfale.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

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व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली ४४३ २०१



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Rutuja Vitthal Pawar.**

A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli.**

Distt.:- Buldana. Has Successfully completed Accountancy work from **15/07/2021 to 18/08/2021** Under Internship programme.

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व्यवस्थापक
दि समता अर्बन को-ऑप क्रेडीट
सोसायटी चिखली ४४३ २०१



सा. चिखली, जि. बुलडाणा

दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)

जा.क्र.



CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. Rushikesh Vitthal Hiwale.

A student of B. Com. I , Shri Shivaji Science & Arts College, Chikhli.

Distt:- Buldana. Has Successfully completed Accountancy work
from 15/07/2021 to 18/08/2021 Under Internship programme.

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व्यवस्थापक

दि समता अर्बन को-ऑप क्रेडीट
समाज्यटी चिखली १ नं.२०१

॥ जय सहकार ॥

फोन : २४२५९२



दि समता अर्बन को-ऑप. क्रेडीट सोसा.लि.

रजि.नं. बी.यु.डी./आर.एस.आर./२०१

चिखली ४४३ २०१ जि. बुलडाणा (महाराष्ट्र)



जा.क्र.

CERTIFICATE OF INTERNSHIP

This is to certify that, Shri / Ku. **Rushikesh Suresh Karwande**.
 A student of **B. Com. I**, **Shri Shivaji Science & Arts College, Chikhli**.
Distt.:- Buldana. Has Successfully completed Accountancy work
 from **15/07/2021 to 18/08/2021** Under Internship programme.
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 व्यवस्थापक
 दि समता अर्बन को-ऑप क्रेडीट
 सोसायटी चिखली प नं. २०१




Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana



श्री अंबिका अर्बन

मल्टीस्टेट को-ऑप. क्रेडिट सोसायटी लि. चिखली

रजिष्टर नं. एम.एस.सी.एस./सी.आर./४९२/२०१२

* स्थापना : २२/०२/१९८९

* कार्यक्षेत्र : महाराष्ट्र, मध्यप्रदेश

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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Ganesh Gajanan Khandalkar** A student of **B.Com.I Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.



Signature & Stamp

General Manager



श्री अंबिका अर्बन

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* स्थापना : २२/०२/१९८९

* कार्यक्षेत्र : महाराष्ट्र, मध्यप्रदेश

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मुख्यालय - म.खंडाळा रोड, विखली जि बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, Shri. Dipak Ramesh Lahudkar A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.

Signature & Stamp

General Manager





श्री अंबिका अर्बन

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* स्थापना : २२/०२/१९८९

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CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Dipak Dnyandev Warpe** A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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We Wish him/her every success in life.



Signature & Stamp

General Manager



श्री अंबिका अर्बन

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* स्थापना : २२/०२/१९८९

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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri./Ku. Dhanashri Samadhan Pawar** A student of **B.Com.I Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period internship programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.

Signature & Stamp



General Manager

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri./Ku. Dhanashri Ramdas Lahane** A student of **B.Com.I Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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Signature & Stamp

General Manager



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रजिष्टर नं. एम.एस.सी.एस./सी.आर./४९२/२०१२

* स्थापना : २२/०२/१९८९

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मुख्यालय - मा.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Dattu Natthu Khajure** A student of **B.Com.I Shri Shivaji Science & Arts College, Chikhli Dist.Buldana**. Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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Signature & Stamp

General Manager



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रजिष्टर नं. एम.एस.सी.एस./सी.आर./४९२/२०१२

* स्थापना : २२/०२/१९८९

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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Chaitanya Pravin Deshmukh** A student of **B.Com.I Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period internship programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.



Signature & Stamp

General Manager



श्री आबिका अबेन
मल्टीस्टेट को-ऑप. क्रेडिट सोसायटी लि. चिखली

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* स्थापना : २२/०२/१९८९

* कार्यक्षेत्र : महाराष्ट्र, मध्यप्रदेश

Email - auschikhli@gmail.com

मुख्यालय - स. खंडाळा रोड, विस्वली जि बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, Shri. Bharat Santosh Lokhande A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.



Signature & Stamp

General Manager



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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Avinash Damodhar Hade** A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

We Wish him/her every success in life.



Signature & Stamp

General Manager



श्री अंबिका अर्बन
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स्थापना : २२/०२/१९८९

कार्यक्षेत्र : महाराष्ट्र, मध्यप्रदेश

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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, Shri. /Ku. Ashvini Bharat Tayade A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

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Signature & Stamp

General Manager



श्री अंबिका अर्बन

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* स्थापना : २२/०२/१९८९

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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, Shri. /Ku. Arti Ashok Bhise A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

During this period intership programme with us. He/She found punctual and hardworking.

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Signature & Stamp

General Manager



श्री अंबिका अर्बन

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* स्थापना : २२/०२/१९८९

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CERTIFICATE OF INTERSHIP

This is to certify that, Shri. /Ku. Arpita Dilip Shinde A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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Signature & Stamp

General Manager



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CERTIFICATE OF INTERSHIP

This is to certify that, **Shri. Aniket Rajendra Dalimkar** A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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Signature & Stamp

General Manager



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* स्थापना : २२/०२/१९८९.
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मुख्यालय - म.खंडाळा रोड, चिखली जि.बुलडाणा - ४४३ २०१ फोन नं. (०७२६४) - २४४२५३, २४४७३२

CERTIFICATE OF INTERSHIP

This is to certify that, **Shri.Akshay Vithoba Horkal** A student of **B.Com.I** **Shri Shivaji Science & Arts College, Chikhli Dist.Buldana.** Has successfully completed Accountancy work from 15/07/2022 to 18/08/2022 Under Internship programme.

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Signature & Stamp

General Manager



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* स्थापना : २२/०२/१९८९

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Project Work
BSc-II
Computer Science

Project Report.



॥ ज्ञानम् परम् ध्येयम् ॥

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SHRI SHIVAJI SCIENCE & ARTS COLLEGE, CHIKHALI
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Internal Assessment - Assignment / Project Report / Seminar

Name of the Student Sachin Gajanan Surushe

Class B.Sc. 2nd year (Sem. IVth)

Academic Session : 2021....., - 2022.....

Marks Obtained : 04/04 Surushe



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Academic Session : 20 21 - 20 22

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The Topic of the assignment / Project Report is S.W.I.F.T (Society for Worldwide Interbank Financial Telecommunication)

Dated 21 / 04 / 20 22

Signature of the Teacher

who guide / taught the Examinee.

1. Dr. A.B. Kadam.

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Head of the Dept.

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**Project Report on
S.W.I.F.T.
(Society for Worldwide Interbank Financial
Telecommunicatins)**

**In partial fulfillment of requirements for the degree of
Bachelor of Science**



Submitted by:

Sachin Gajanan Surushe

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Sachin Gajanan Surushe

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S.W.I.F.T.

Introduction

The Society for Worldwide Interbank Financial Telecommunication (SWIFT), legally S.W.I.F.T.S.C., is a Belgian cooperative society providing services related to the execution of financial transactions and payments between banks worldwide. Its principal function is to serve as the Main messaging network through which international payments are initiated. It also sells Software and services to financial institutions, mostly for use on its proprietary "SWIFTNet", and ISO 9362 Business Identifier Codes (BICs), popularly known as "SWIFT codes".

The SWIFT messaging network is a component of the global payments system. SWIFT acts as a carrier of the "messages containing the payment instructions between financial institutions involved in a transaction[8]." However, the organization does not manage accounts on behalf of individuals or financial institutions, and it does not hold funds from third parties. It also does not perform clearing or settlement functions. After a payment has been initiated, it must be settled through a payment system, such as TARGET2 in Europe. In the context of cross-border transactions, this step often takes place through correspondent banking accounts that financial institutions have with each other.

As of 2018, around half of all high-value cross-border payments worldwide used the SWIFT network, and in 2015, SWIFT linked more than 11,000 financial institutions in over 200 countries and territories, who were exchanging an average of over 32 million messages per day (compared to an average of 2.4 million daily messages in 1995).

Though widely utilized, SWIFT has been criticized for its inefficiency. In 2018, the London-based Financial Times noted that transfers frequently "pass through multiple banks before reaching their final destination, making them time-consuming, costly and lacking transparency on how much money will arrive at the other end". SWIFT has since introduced an improved service called "Global Payments Innovation" (GPI), claiming it was adopted by 165 banks and was completing half its payments within 30 minutes. As a cooperative society under Belgian law, SWIFT is owned by its member financial institutions. It is headquartered in La Hulpe, Belgium, near Brussels[7]; its main building was designed by Ricardo Bofill Taller de Arquitectura and completed in 1989. The chairman of SWIFT is Yawar Shah of Pakistan, and its CEO is Javier Pérez-Tasso of Spain. SWIFT hosts an annual conference, called Sibos, specifically aimed at the financial services industry.

History

SWIFT was founded in Brussels on 3 May 1973 under the leadership of its inaugural CEO, Carl Reuterskiöld (1973–1989), and was supported by 239 banks in 15 countries. Before its establishment, international financial transactions were communicated over Telex, a public system involving manual writing and reading of messages[9]. It was set up out of fear of what might happen if a single private and fully American entity controlled global financial flows – which before was First National City Bank (FNCB) of New York – later Citibank. In response to FNCB's protocol, FNCB's competitors in the US and Europe pushed an alternative "messaging system that could replace the public providers and speed up the payment process". SWIFT started to establish common standards for financial transactions and a shared data processing system and worldwide communications network designed by Logica and developed by the Burroughs Corporation. Fundamental operating procedures and rules for liability were established in 1975, and the first message was sent in 1977. SWIFT's first international (non-European) operations center was inaugurated by Governor John N. Dalton of Virginia in 1979.

STANDARDS

SWIFT has become the industry standard for syntax in financial messages. Messages formatted to SWIFT standards can be read and processed by many well-known financial processing systems, whether or not the message traveled over the SWIFT network. SWIFT cooperates with international organizations for defining standards for message format and content. SWIFT is also Registration authority (RA) for the following ISO standards:

- SO 9362: 1994 Banking – Banking telecommunication messages – Bank identifier codes ISO 10383: 2003 Securities and related financial instruments – Codes for exchanges and market identification (MIC) ISO 13616: 2003 IBAN Registry ISO 15022: 1999 Securities – Scheme for messages (Data Field Dictionary) (replaces ISO 7775) ISO 20022-1: 2004 and ISO 20022-2:2007 Financial services – Universal Financial Industry message scheme In RFC 3615 urn:swift: was defined as Uniform Resource Names (URNs) for SWIFT FIN[3].

OPERATIONS CENTER

The SWIFT secure messaging network is run from three data centers, located in the United States, the Netherlands, and Switzerland. These centers share information in near real-time. In case of a failure in one of the data centers, another is able to handle the traffic of the complete network. SWIFT uses submarine communications cables to transmit its data. Shortly after opening its third data center in Switzerland in 2009, SWIFT introduced new distributed architecture with two messaging zones, European and Trans-Atlantic, so data from European SWIFT members no longer mirrored the U.S. data center. European zone messages are stored in the Netherlands and in part of the Swiss operating center; Trans-Atlantic zone messages are stored in the United States and in another part of the Swiss operating center that is segregated from the European zone messages[10]. Countries outside of Europe were by default allocated to the Trans-Atlantic zone, but could choose to have their messages stored in the European zone.

Data centers SN SWIFT data centers 1 Zoeterwoude, Netherlands 3 Diessenhofen, Switzerland Type OPC (Operating Center) 2 Culpeper, Virginia, United States OPC (Operating Center) OPC (Operating Center) 4 Hong Kong Command and control

SWIFTNetnetwork

SWIFT moved to its current IP network infrastructure, known as SWIFTNet, from 2001 to 2005, providing a total replacement of the previous X.25 infrastructure. The process involved the development of new protocols that facilitate efficient messaging, using existing and new message standards. The adopted technology chosen to develop the protocols was XML, where it now provides a wrapper around all messages legacy or contemporary[2]. The communication protocols can be broken down into:

InterAct

- SWIFTNetInterActRealtime
- SWIFTNetInterAct Store and Forward

FileAct

- SWIFTNetFileActRealtime
- SWIFTNetFileAct Store and Forward

Browse

- SWIFTNet Browse

Architecture

SWIFT provides a centralized store-and-forward mechanism, with some transaction management. For bank A to send a message to bank B with a copy or authorization involving institution C, it formats the message according to standards and securely sends it to SWIFT. SWIFT guarantees its secure and reliable delivery to B after the appropriate action by C. SWIFT guarantees are based primarily on high redundancy of hardware, software, and people.

SWIFTNet Phase 2

During 2007 and 2008, the entire SWIFT network migrated its infrastructure to a new protocol called SWIFTNet Phase 2. The main difference between Phase 2 and the former arrangement is that Phase 2 requires banks connecting to the network to use a Relationship Management Application (RMA) instead of the former bilateral key exchange (BKE) system. According to SWIFT's public information database on the subject, RMA software should eventually prove more secure and easier to keep up-to-date; however, converting to the RMA system meant that thousands of banks around the world had to update their international payments systems to comply with the new standards. RMA completely replaced BKE on 1 January 2009.

Products and interfaces

SWIFT means several things in the financial world: 1. A secure network for transmitting messages between financial institutions; 2. A set of syntax standards for financial messages (for transmission over SWIFTNet or any other network) 3. A set of connection software and services allowing financial institutions to transmit messages over SWIFT network. Under 3 above, SWIFT provides turn-key solutions for members, consisting of linkage clients to facilitate connectivity to the SWIFT network and CBTs or "computer based terminals" which members use to manage the delivery and receipt of their messages. Some of the more wellknown interfaces and CBTs provided to their members are: SWIFTNet Link (SNL) software which is installed on the SWIFT customer's site and opens a connection to SWIFTNet. Other applications can only communicate with SWIFTNet through the SNL. Alliance Gateway (SAG) software with interfaces (e.g., RAHA = Remote Access Host Adapter), allowing other software products to use the SNL to connect to SWIFTNet Alliance WebStation (SAB) desktop interface for SWIFT Alliance Gateway with several usage options: 1. Administrative access to the SAG 2. Direct connection SWIFTNet by the SAG, to administrate SWIFT Certificates 3. So-called Browse connection to SWIFTNet (also by SAG) to use additional services, for example Target2 Alliance Access (SAA) and Alliance Messaging Hub (AMH) are the main messaging software applications by SWIFT, which allow message creation for FIN messages, routing and monitoring for FIN and MX messages. The main interfaces are FTA (files transfer automated, not FTP) and MQSA, a WebSphere MQ interface[1].

The Alliance Workstation (SAW) is the desktop software for administration, monitoring and FIN message creation. Since Alliance Access is not yet capable of creating MX messages, Alliance Messenger (SAM) has to be used for this purpose. Alliance Web Platform (SWP) as new thin-client desktop interface provided as an alternative to existing Alliance WebStation, Alliance Workstation (soon)

and Alliance Messenger. Alliance Integrator built on Oracle's Java Caps which enables customer's back office applications to connect to Alliance Access or Alliance Entry. Alliance Lite2 is a secure and reliable, cloud-based way to connect to the SWIFT network which is a light version of Alliance Access specifically targeting customers with low volume of traffic.

Services

There are four key areas that SWIFT services fall under in the financial marketplace: securities, treasury & derivatives, trade services. And payments-and-cash management.

SWIFTREF

Swift Ref, the global payment reference data utility, is SWIFT's unique reference data service. Swift Ref sources data direct from data originators, including central banks, code issuers and banks making it easy for issuers and originators to maintain data regularly and thoroughly. SWIFTRef constantly validates and cross-checks data across the different data sets.

SWIFTNet Mail

SWIFT offers a secure person-to-person messaging service, SWIFTNet Mail, which went live on 16 May 2007. SWIFT clients can configure their existing email infrastructure to pass email messages through the highly secure and reliable SWIFTNet network instead of the open Internet. SWIFTNet Mail is intended for the secure transfer of sensitive business documents, such as invoices, contracts and signatories, and is designed to replace existing telex and courier services, as well as the transmission of security-sensitive data over the open Internet. Seven financial institutions, including HSBC, FirstRand Bank, Clearstream, DnB NOR, Nedbank, and Standard Bank of South Africa, as well as SWIFT piloted the service.

U.S. government involvement

Terrorist Finance Tracking Program

A series of articles published on 23 June 2006 in The New York Times, The Wall Street Journal, and the Los Angeles Times revealed a program, named the Terrorist Finance Tracking Program, which the US Treasury Department, Central Intelligence Agency (CIA), and other United States governmental agencies initiated after the 11 September attacks to gain access to the SWIFT transaction database.[7] After the publication of these articles, SWIFT quickly came under pressure for compromising the data privacy of its customers by allowing governments to gain access to sensitive personal information. In September 2006, the Belgian government declared that these SWIFT dealings with American governmental authorities were a breach of Belgian and European privacy laws. In response, and to satisfy members' concerns about privacy, SWIFT began a process of improving its architecture by implementing a distributed architecture with a two-zone model for storing messages (see Operations centers). Concurrently, the European Union negotiated an agreement with the United States government to permit the transfer of intra-EU SWIFT transaction information to the United States under certain circumstances. Because of concerns about its potential contents, the European Parliament adopted a position statement in September 2009, demanding to see the full text of the agreement and asking that it be fully compliant with EU privacy legislation, with oversight mechanisms emplaced to ensure that all data requests were handled appropriately. An interim agreement was signed without European Parliamentary approval by the European Council on 30 November 2009, the day before the Lisbon Treaty—which would have prohibited such an agreement from being signed under the terms of the codecision procedure—formally came into effect. While the interim agreement was scheduled to come into effect on 1 January 2010, the text of the agreement was classified as "EU Restricted" until translations could be provided in all EU languages and published on 25 January 2010.

On 11 February 2010, the European Parliament decided to reject the interim agreement between the EU and the US by 378 to 196 votes. One week earlier, the parliament's civil liberties committee had

already rejected the deal, citing legal reservations. In March 2011, it was reported that two mechanisms of data protection had failed. EUROPOL released a report complaining that requests for information from the US had been too vague (making it impossible to make judgments on validity) and that the guaranteed right for European citizens to know whether their information had been accessed by US authorities had not been put into practice.

U.S. control over transactions within the EU

On 26 February 2012 the Danish newspaper Berlingske reported that US authorities have sufficient control over SWIFT to seize money being transferred between two European Union (EU) countries (Denmark and Germany), since they succeeded in seizing around \$26,000 that was being transferred from a Danish businessman to a German bank[6][3]. The transaction was automatically routed through the US, possibly because of the USD currency used in the transaction, which is how the United States was able to seize the funds. The money was a payment for a batch of Cuban cigars previously imported to Germany by a German supplier. As justification for the seizure, the U.S. Treasury stated that the Danish businessman had violated the United States embargo against Cuba.

Security

In 2016 an \$81 million theft from the Bangladesh central bank via its account at the New York Federal Reserve Bank was traced to hacker penetration of SWIFT's Alliance Access software, according to a New York Times report. It was not the first such attempt, the society acknowledged, and the security of the transfer system was undergoing new examination accordingly. Soon after the reports of the theft from the Bangladesh central bank, a second, apparently related, attack was reported to have occurred on a commercial bank in Vietnam. Both attacks involved malware written to both issue unauthorized SWIFT messages and to conceal that the messages had been sent. After the malware sent the SWIFT messages that stole the funds, it deleted the database record of the transfers then took further steps to prevent confirmation messages from revealing the theft. In the Bangladeshi case, the confirmation messages would have appeared on a paper report; the malware altered the paper reports when they were sent to the printer. In the second case, the bank used a PDF report; the malware altered the PDF viewer to hide the transfers.

In May 2016, Banco del Austro (BDA) in Ecuador sued Wells Fargo after Wells Fargo honored \$12 million in fund transfer requests that had been placed by thieves. In this case, the thieves sent SWIFT messages that resembled recently canceled transfer requests from BDA, with slightly altered amounts; the reports do not detail how the thieves gained access to send the SWIFT messages. BDA asserts that Wells Fargo should have detected the suspicious SWIFT messages, which were placed outside of normal BDA working hours and were of an unusual size[5]. Wells Fargo claims that BDA is responsible for the loss, as the thieves gained access to the legitimate SWIFT credentials of a BDA employee and sent fully authenticated SWIFT messages. In the first half of 2016, an anonymous Ukrainian bank and others—even “dozens” that are not being made public—were variously reported to have been “compromised” through the SWIFT network and to have lost money. In March 2022, Swiss newspaper Neue Zürcher Zeitung reported about the increased security precautions by the State Police of Thurgau at the SWIFT data center in Diessenhofen. After most of the Russian banks have been excluded from the private payment system, the risk of sabotage was considered higher. Inhabitants of the town described the large complex as a “fortress” or “prison” where frequent security check of the fenced property are conducted.

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