



**Konkan Education Society's  
Anandibai Pradhan Science College,  
Nagothane, District-Raigad (Maharashtra)**



**Guided students to Participate in  
Avishkar Research Convention**



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Anandibai Pradhan Science College,  
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**Summary of the projects Presented in Mumbai University Avishkar  
Research Convention**

<b>Academic Year</b>	<b>Number of Projects</b>	<b>Zonal Level</b>	<b>University Level</b>
2017-18	Participated	06	00
	Prizes	00	00
2018-19	Participated	09	01
	Prizes	01	01
2019-20	Participated	08	01
	Prizes	01	00
2020-21	Participated	04	01
	Prizes	01	00
2021-22	Participated	06	02
	Prizes	02	00
<b>Total</b>	<b>Participated</b>	<b>33</b>	<b>05</b>
	<b>Prizes</b>	<b>05</b>	<b>01</b>



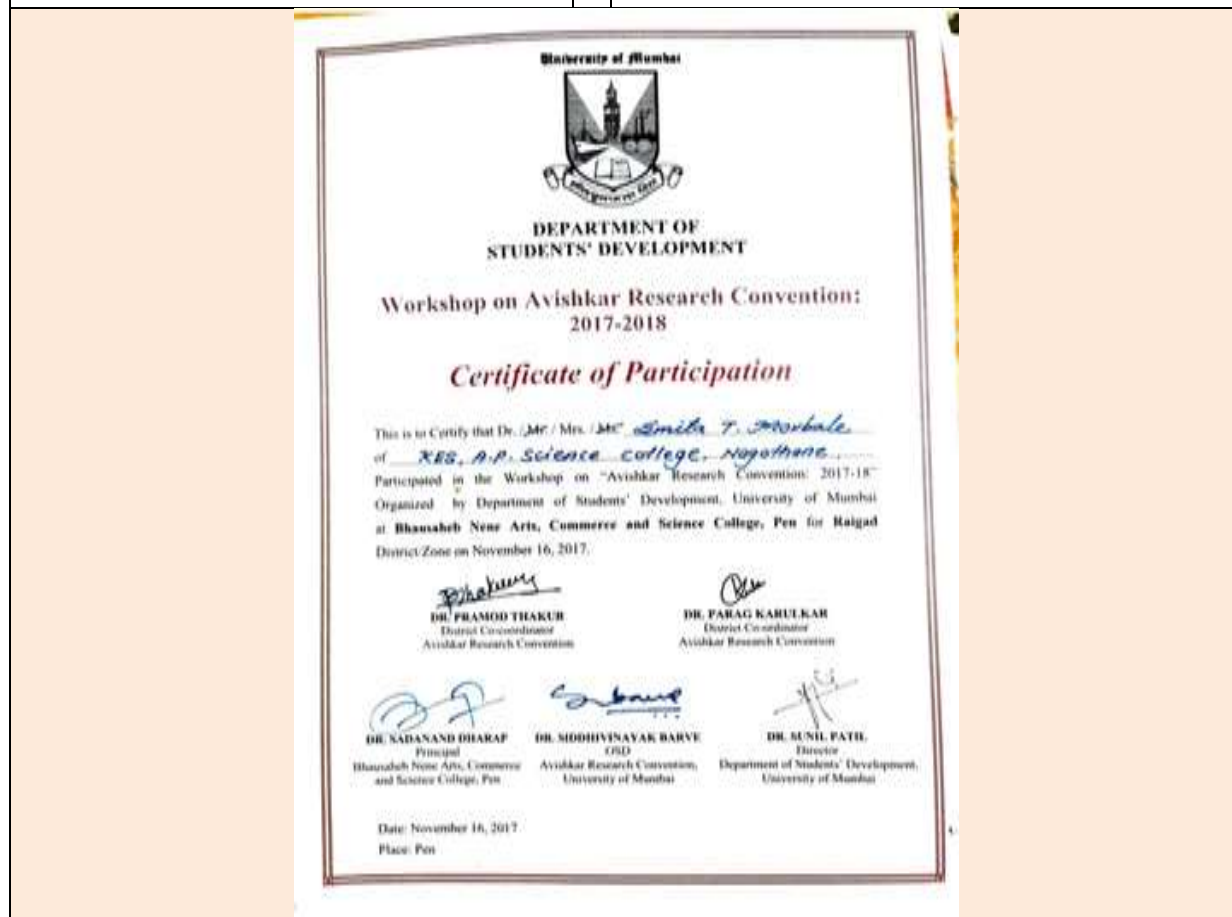
Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**AVISHKAR RESEARCH CONVENTION**

**Academic Year 2017-18**

**Activity No. 1**

<b>Name of the Activity</b>	:	<b>Participation in Workshop on Avishkar Research Convention</b>
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Date</b>	:	16/11/2017
<b>Venue</b>	:	Bhauasaheb Nene Arts, Commerce and Science College, Pen
<b>Number of beneficiaries</b>	:	1 teacher and 4 students
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Students received motivation, rules and regulation to participate at Avishkar research convention

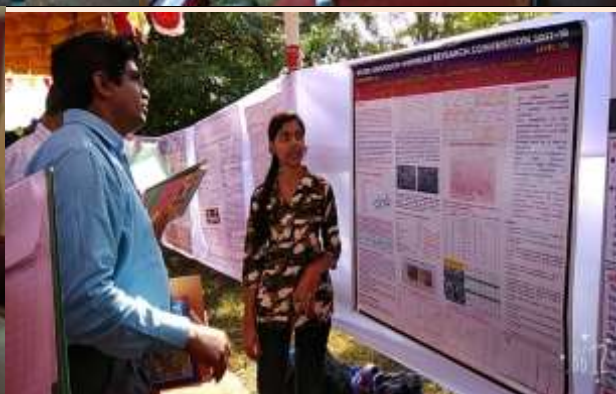




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**Activity No. 2**

<b>Name of the Activity</b>	: <b>Participation in Avishkar Research Convention</b>
<b>Name of the Organizing Department/Committee</b>	: Science Association
<b>Organized in collaboration with</b>	: University of Mumbai
<b>Time Period Required to complete projects</b>	: Two Months
<b>Date of competition</b>	: 7/12/2018
<b>Venue</b>	: University of Mumbai and Sundarrao More Arts, Commerce, Science College, Poladpur. Dist. Raigad
<b>Number of beneficiaries</b>	: 15 students with 6 research projects
<b>Aim(s)</b>	: To promote scientific temper among students
<b>Outcome(s)</b>	: Students science articles reading interest and presentation skill improved Number of Projects selected from Poster round for next level were 04



**Avishkar Research Convention Participation Details 2017-18**

<b>Project No.</b>	<b>Name of student</b>	<b>Class and Roll No.</b>	<b>Category and level</b>	<b>Title of Research Project</b>	<b>Name of the guide</b>
01	1. Pratiksha S. Pardeshee 2. Chandani More	S.Y.BSc. 154	03, UG	Orange peel as low cost catalyst for isoxazole synthesis	Dr.(Mrs) S.T.Morbale
02	1. Aakrosh J. Patil 2. Aashutosh B. Rathod 3. Aditya B. Tandel	S.Y.BSc. 152 S.Y.BSc. 166 S.Y.BSc. 164	03, UG	MCES catalysed Henry reaction: An innovative green approach	Dr.(Mrs) S.T.Morbale
03	1. Krushnali D.Gharat 2. Omkar Bhoir	F.Y.BSc. 92 F.Y.BSc. 109	01, UG	Health awareness and behaviour among adolescent students in rural school: Observational study	Dr.(Mrs) S.T.Morbale
04	1. Saloni N.Bamugade 2. NiVedita N.nWaghmare 3. Ankita R. Dhamne	S.Y.BSc. 153 S.Y.BSc. 157 S.Y.BSc. 172	01, UG	Aging with pride: Observational study	Dr.(Mrs) S.T.Morbale
05	1. Bhagyashri S. Vaybhave 2. Prajyoti Mokal	S.Y.BSc. 155 S.Y.BSc. 158	03, UG	Development and Study of Eco-friendly Herbal Mosquito Repellent	Dr.(Mrs) S.T.Morbale
06	1. Pankaj D.Mhatre 2. Kaustubh M. Mhatre	S.Y.BSc. 161 S.Y.BSc. 162	04, UG	Be Aware. Save biodiversity	Dr.(Mrs) S.T.Morbale

**University of Mumbai**  
Department of Students' Welfare  
Avishkar Research Convention

**Consolidated Entry Form**

**Details of College, Principal, Teacher Co-ordinator and Zone**

Name of the College / Recognized Institute / Department	:	K.E.S, Anandibai Pradhan Science College, Nagothane.
Address of the College / Recognized Institute / Department	:	K.E.S, Anandibai Pradhan Science College, Nagothane, Tal. Roha. Dist. Raigad.
Telephone No/s of the College / Recognized Institute / Department	:	02194 223699
email of the College / Recognized Institute / Department	:	principalapsc@yahoo.co.in

Name of the Principal / Director / Head	:	Dr. Sandesh. S. Gurav.
Mobile No. of the Principal / Director / Head	:	8149375082
Whatsapp No. of the Principal / Director / Head	:	8149375082
email of the Principal / Director / Head	:	principalapsc@yahoo.co.in

Name of the Teacher Co-ordinator	:	Dr. (Mrs) Smita. T. Morbale
Mobile No. of the Teacher Co-ordinator	:	9220545406
Whatsapp No. of the Teacher Co-ordinator	:	9220545406
email of the Teacher Co-ordinator	:	smita77zambre@yahoo.com

Name of the Zone / District	:	Raigad.
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## Details of Entries

Category No.	Title of Category	Level	No. of Research Projects	Total No. of Participants	Entry Fees per Research Project	Amount
1	Humanities, Languages and Fine Arts	UG	01+01	06	50	
		PG			50	
		PPG			50	
		TH			50	
2	Commerce, Management and Law	UG			50	
		PG			50	
		PPG			50	
		TH			50	
3	Pure Sciences	UG	03	09	50	
		PG			50	
		PPG			50	
		TH			50	
4	Agriculture and Animal Husbandry	UG	01	03	50	
		PG			50	
		PPG			50	
		TH			50	
5	Engineering and Technology	UG			50	
		PG			50	
		PPG			50	
		TH			50	
6	Medicine and Pharmacy	UG			50	
		PG			50	
		PPG			50	
		TH			50	
Grand Total					--	



College / Recognized Institute / Department)

With Regards,

(Signature of the Principal / Director / Head with Seal)

**PRINCIPAL**

**K.E.S. A. P. Science College  
Nagothane, Dist. Raigod (M.S.)**



Place: Nagothane  
Date: 30/11/2017

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Department of Students' Development, University of Mumbai

# INTER-UNIVERSITY AVISHKAR RESEARCH CONVENTION 2017-18

CATEGORY: 04

LEVEL: UG

## BE AWARE..... SAVE BIODIVERSITY



### BIODIVERSITY AT NATIONAL LEVEL (INDIAN)

- India is one of the 12 mega diversity countries of the world.
- 3.4% of the land area, accounting for 7-8% of the species of the world.
- 18% among plant rich countries
- 11% in number of endemic species of higher vertebrates
- 18% in terms of endemic diversity
- Ministry of Environment and Forests records (as of 2006)
- 47500 plants; 7% of global.
- 91000 species of mammals; 6.5% of global.
- Large numbers have **ENDEMIC - ORIGINATED** in India
- 1000 flowering plants...
- 300 corals

### ABSTRACT

- To create awareness among students, we had survey of 150 undergraduate students by questionnaire method.
- From the factual response as well as written response we found that students minds were enlighten with respect nature conservation, biodiversity conservation, global warming, deforestation, use of renewable resources etc.
- From literature study we highlighted some global threat of biodiversity.
- At the end of project we have implemented some schemes at our college like paper recycling, waste management, Vermicomposting, adopting tree etc. to make a green campus in order to attend little effort to save nature balance.

**Keywords:** Global warming, Biodiversity, deforestation.

### 1. VARIETY OF ECOSYSTEMS LAKES, SANDY, ROCKY, FRESH WATERS ETC.

### 2. DIVERSITY OF GENES

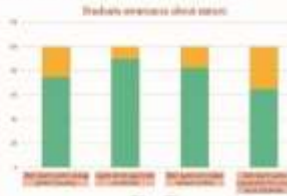


### 3. DIVERSITY OF SPECIES

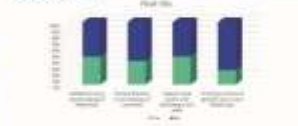


### QUATERNARY

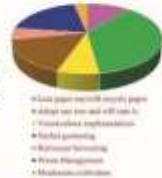
- Is it important for us to preserve nature for the future generations? If so, are we even making an effort to do that?
- Is the human race alone important as life world? If not, then aren't our actions proving otherwise?
- What would happen if animals, plants and other species are destroyed. Would we be affected?
- Are our future generations entitled to a clean and green environment? Do they even have a right?
- Is it right for us to be responsible for the extinction of certain species only for the sake of our consumption and greed?
- Is it our moral right to be clearing forests for the sake of human consumption?
- Is the sale of knowing that gasoline run vehicles lead to the destruction of natural resources, is it right for us to continue manufacturing and using them? Can we not use alternate natural resources?
- Are the guidelines which are drawn to protect the environment and nature any effective? What is causing their failure?
- What is environmental pollution and pollution of the air, soil and water doing to the world?
- Which are the gases responsible for global warming?
- Which are the gases responsible for ozone layer depletion?
- Which are the species to be extinct in five years?
- Does the pollution relate to disturbed biodiversity?
- Which are three R's to save environment?
- What efforts you can make your campus 'green and clean'?
- Make one effective slogan to save biodiversity.



### LACK OF STUDENTS AWARENESS ABOUT BIODIVERSITY



### STUDENTS RESPONSE TO MAKE THEIR CAMPUS GREEN AND CLEAN



### CONSUMPTIVE USE VALUE

- In the form of food, drugs, fibre pulp, fuel, wood fall under this group
- Forest: 88,000 endemic plant species are there.
  - about 90% of present day food crops have been domesticated from wild plants
  - A large number of wild animals are also source of food
- Drugs & Medicines: 75% world's population is dependent on plants or plant extracts for medicines
- Forest log source of fuel wood. Firewood collected by individuals are direct consumptive value.

### PRODUCTIVE USE VALUES

- Wool: production of Wool, Silk Worm- Silk, wool from sheep, lac from insects.
- Many industries are dependent on these products, e.g. pulp & paper industry, silk industry, heavy work, pearl industry, leather industry.
- Problems— trading of products from endangered species.
  - E.g. smuggling of fur, horns, test, snake skin, cat skins.
  - Risk biodiversity are exploited.
- Values associated with social life, customs, religion and psychological aspects of the people.
  - Many plants are considered holy & sacred. Eg. Tulsi, mango, papaya etc.
  - Social life, songs, dances, customs are woven with religious activities.
  - Cows, snakes, owl, bat have special value in biodiversity.

### ETHICAL VALUE

- "All life must be preserved" based on "live and let live".
- This means we don't use the species diversity as resources, but we feel sorry about the loss of a species.
  - E.g. Passenger Pigeon or Dodo
  - They have a religious value

### AESTHETIC VALUE

- It is related to the beauty of biodiversity
- The pleasure, excitement and visual peace of any area
- Concept of Eco-tourism and willingness to pay we getting grounds, leading to monetary estimate for aesthetic value of biodiversity

### What Actions Can be Taken?

1. Protected areas
2. Species protection and recovery measures
3. Ex situ and in situ conservation of genetic diversity
4. Restoration
5. Payments and markets for biodiversity and ecosystem services
6. Consider biodiversity in agriculture, forestry, and fisheries
7. Capture of benefits by local communities
8. Increased coordination
9. Public awareness and education
10. Enhanced capacity for assessing the consequences of ecosystem change
11. Increased integration of sectoral responses
12. Elimination of subsidies
13. Sustainable intensification of agriculture
14. Addressing unsustainable consumption patterns
15. Slowing global growth of nutrient loading
16. Correction of market failures
17. Integration of biodiversity conservation and development
18. Increased accountability of performance in decisions
19. Scientific data need to be made available to all sectors of society

### The Implications

There is still hope...

Future biodiversity can be used!

Processes that allow evolution and adaptations to occur must be maintained.



# INTER-UNIVERSITY AVISHKAR RESEARCH CONVENTION 2017-18

CATEGORY: 01

LEVEL: UG

## Health awareness and behaviour among adolescent students in a rural school : a cross sectional observational study

### AIM AND OBJECTIVE

- The study was to evaluate health awareness and behaviour among adolescents studying in a rural school in Rajgad district.
- Methods: A cross-sectional, quantitative, observational questionnaire-based survey was conducted among high school students between 15 to 19 years of age studying in a local rural school in Rajgad district.
- The questionnaire assessed health awareness and behaviour related to (i) exercise and nutrition; (ii) malnutrition and obesity; (iii) tobacco and (iv) sexually transmitted diseases (STI/AIDS); (v) interest in social activities.
- Overall, the health awareness among adolescent students was high. Males tend to be more aware about the importance of exercise on health while females were more aware about the ill effects of taking tobacco. Both male, female students are less aware about sexual education and sexually transmitted diseases. The results found many of them are interested in social activities and lives in isolation.

Keywords: Adolescent, Health awareness, Rural

### METHODOLOGY

- A self-designed and well-structured questionnaire was distributed randomly to high school students between 15 to 19 years of age.
- Sample Size : 187 students
- Age group : 15 to 19
- Male students : 65
- Female students : 42

### INTRODUCTION

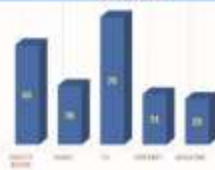
- Adolescents are the future of the country. They face a lot of changes in many ways which includes physiological, hormonal, emotional and mental.
- Adolescents as a group are particularly vulnerable to many health issues and critical behaviours that will affect health in the future.
- Realizing the need to address health issues in this vulnerable population, to improve adolescent care focusing on key areas of adolescent health including related to malnutrition, reproductive health, sexual transmitted diseases and tobacco consumption issues and their other behaviour.
- Adolescence is a period of time between childhood and adulthood
- Young girls having their first menstrual cycle
- Adolescents tend to be age-segregated. They interact mostly with their own age group, rather than with younger children and older adults.
- Adolescents are deeply affected by, and develop strong opinions about the events of the sex and society in which they live.



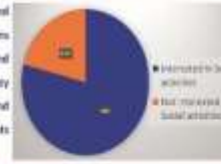
### ASSOCIATION BETWEEN HEALTH AWARENESS & GENDER

	Male		Female	
	Yes	NO	Yes	NO
Awareness of ill effects of Malnutrition and obesity	49	16	34	08
Awareness of Healthy food concept	51	14	27	07
Awareness of ill effects of taking tobacco	55	10	35	07
Awareness of Sexually transmitted diseases (STI/AIDS)	54	11	34	08
Awareness of importance of exercise on health	40	05	27	07

### SOURCES OF INFORMATION ON SEXUALLY TRANSMITTED DISEASES



Adolescents are deeply affected by, and develop strong opinions about the events of the sex and society in which they live. They tend to support ideologies, and participate in movements toward social reform.



### OTHER RESULTS

- The adolescent's new ability to think hypothetically makes them particularly interested in science and mathematics, science fiction, fantasy, horror stories, cults, meditations, and drug-induced conditions.
- An adolescent's self-absorption in their own thoughts, attitudes, and values leads them to a state of egocentrism.
- They see themselves as the center of everyone's curiosity and attention.
- This is referred to as the 'imaginary audience', where the adolescent feels everything they say or do is on display for everyone to see and judge. This makes them particularly sensitive to criticism.

### RESULTS AND DISCUSSION

- Overall, the health awareness among adolescent students in a rural school was high.
- Males had more awareness regarding importance of exercise on health while both were more aware about the ill effects of tobacco.
- Further qualitative studies should be conducted to identify potential adolescent issues so that an intervention can be planned at school, community and home level.
- Both male, female students are less aware about sexual education and sexually transmitted diseases.

### FEELING LEFT OUT

- From the study it was found that male students have more fear about loneliness which reflects little less social development among them.
- While the girl students found confident in groups as well as alone.



### WE SHARED WITH THEM 'POSITIVE COPING SKILLS'

- Pursue hobbies
- Work hard at something (keep busy) or volunteer
- Express your feelings
- Develop friendships
- Take advantage of community resources
- Set goals
- Plan for the future
- Set priorities
- Balance leisure and work
- Look at things from a different perspective
- Pursue physical fitness
- Take care of yourself (bathe, dress, rest, eat healthy)
- Learn how and take time to relax
- Find purpose and meaning for your life (develop spiritually, meditate)



### REFERENCES

- Bala DV, Bediwala IN, Patel DD, Shah PM. Epidemiological study: determinants of tobacco use in Gujarat State, India. Indian J Comm Med. 2006;31:173-4.
- Hajirullah S, Waike S, Singh SK. Are Indian adolescent girl students more conscious about their body image than their colleague boys? National Journal of Community Medicine. 2012;3(2):244-7.
- Kotcha PV, Patel S, Bani RS. Reproductive health awareness among rural school going adolescents of Vadodra district. Indian Journal of Sexually Transmitted Diseases. 2009;30(2):154-9.

### ASSESSMENT OF HEALTH AWARENESS & BEHAVIOUR DOMAINS (POSITIVE RESPONSES)

No.	Health questions (awareness and behaviour)	Values
1	Awareness of importance of exercise on health (yes)	07
2	Devoted time for exercise activity (yes)	74
3	Awareness of Healthy food concept	78
4	Consumes Breakfast and meal everyday	83
5	Awareness of ill effects of taking tobacco	90
6	Awareness of Sexually transmitted diseases (STI/AIDS)	88
7	Correct information about route of spread of Sexually transmitted diseases (STI/AIDS)	77

# INTER-UNIVERSITY AVISHKAR RESEARCH CONVENTION 2017-18

CATEGORY: 01

LEVEL: UG

## Aging with Pride...

### OBJECTIVES :-

- To study how the growing population of older adults will impact society, including considerations of economics, health care, living arrangements, and ethical and moral issues.
- To study unique health challenges faced by older adults, and describe strategies for successful and healthy aging that can begin during young adulthood.
- To motivate adults to engage themselves independently in most normal activities of daily living.
- To motivate to be able to cope with physical, social, and emotional changes
- Sense of control of their lives
- Avoid serious, debilitating diseases and disability.

### METHODOLOGY :-



### FROM LITERATURE :-

- There are several different levels upon which aging is calculated:
  - Chronological Age - The actual number of years you have been alive
  - Biological Age - A general term which encompasses physiological processes associated with aging such as loss of muscle strength and endurance, loss of ability to resist disease, wrinkling of the skin due to loss of collagen and elastin and other deficits associated with the aging process
  - Psychological Age - How old you feel and think you are
  - Social Age - How you are treated and categorized by society
- Factors which contribute to longevity are:
  - heredity, (2) environment, (3) lifestyle

### SAMPLE QUESTIONS :-

- How would you describe your general health?  
a) Excellent b) Good c) Fair d) Poor
- During past years have you faced any major changes in your life?  
If Yes Explain?
- During last two weeks have you felt bored or hopeless?  
a) Yes b) No
- During Last two weeks how often you filled in doing interest in new things?
- How often you takes drinks containing alcohol?
- Do you get at least 30 minutes of physical activities in most of the days of week like walking, Gardening, cleaning?  
a) Yes b) No
- Are you able to take care of all your personal needs by yourself?  
Discussion Questions
- What effects do having a purpose and being active have on attitudes toward life, wellness, and aging?
- Do your parents intend to retire? Do you think they should?
- Should older people be forced to stop working when they reach a certain age?

### HEALTH CONDITION RESULTS



### CONTOUSNESS ABOUT HEALTH



RESULTS	Yes %	NO %
Adults found Satisfactory by their family (son, Daughter)	32	68
Adults involved in new activities in around society	56	44
Adults having their health policy	15	85
Addicted to habits like smoking, Alcoholic	48	52
Feeling bored or hopeless	43	57
Adults involved in spiritual activities	39	61



Beautiful young people are an accident of nature, but beautiful old people are works of art.

—Eleanor Roosevelt

### POINTS CONVINCED BY US FOR THEIR HEALTHY LIFESTYLE :-

- Exercising
- Eating a diet high in fruits and vegetables
- Not smoking
- Drinking alcohol in moderation
- Getting adequate rest
- Coping with stress
- Having a positive outlook
- Develop and maintain healthy relationships
- Enrich the spiritual side of life
- Improve fitness
- Eat for health

### EXERCISE LOG :-

Date	Minutes	Activity

Chart to Follow

### AND IN CONCLUSION :-

- Social support and personal relationships play important role in health and aging.
- The study contributes to finding new ways to improve health as people age.
- Research has proven that it's never too late to adopt a healthy lifestyle and if for instance, you are a smoker and quit smoking now, your risk of heart disease begins to fall almost immediately.
- In reality, older people make many positive contributions to society; and health and social care expenditures for older people are an investment rather than a cost. These investments bring benefits to older people and returns for society as a whole.



Investing in Healthy Ageing means creating a future that gives older people the freedom to live lives that previous generations could never have imagined.

### REFERENCES :-

- Boyd, D. R., & Bee, H. L. (2012). Lifespan development (6th ed.). Upper Saddle River, NJ: Pearson.
- Brown, S. L., Lee, G. R., & Bulanda, J. R. (2006). Cohabitation among older adults: A national portrait. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 61, 571-579.
- California Health Interview Survey. (2014). CHIS Adult PublicUse File. [Data file]. Los Angeles, CA: UCLA Center for Health Policy Research



Development and Study Of Eco-Friendly Herbal Mosquito Repellent

ABSTRACT

- The chemical based mosquito repellents available in the market contain some harmful and poisonous chemicals which are likely to cause threat to human health. An attempt has been made to prepare a 100% herbal product.
- An effective and purely natural mosquito repellent cakes using Marigold leaves, Dhatura leaves and Nochi leaves was made and it has been tested. If the component present in them are suitable as mosquito repellent.
- It is effective and cheaper than presently chemical based mosquito repellent. Since it is totally herbal, it has no side effects on inhalation or even on digestion.
- Keywords: Marigold leaves, Dhatura leaves, Nochi leaves, Natural binders

INGREDIENTS



- Datura stramonium** (*D. stramonium*) is one of the widely plant with both poisonous and medicinal properties and has been proven to have great pharmacological potential with a great utility.
- Nochi**: Botanical Name- *Vitex Negundo* Linn.
- Family**- VERBENACEAE (*Nirgundi* Kula)
- Marigold leaves**: Marigolds contain Pyrethrum, a compound used in many insect repellents.

OBJECTIVE OF STUDY

- To recognize the combination of Marigold leaves, Nochi leaves and Dhatura leaves as suitable component for the mosquito repellent cake.
- To know the product is sufficient alternative for coil available in market.
- To show the significant difference of the experimental product from commercial product in terms of effectiveness.
- To produce a cheaper mosquito repellent cakes from natural ingredient.

INNOVATION OF PROCESS

- Marigold leaves, Nochi leaves and Dhatura leaves with combination of different Natural Binders as a Effective Mosquito Repellent.

DISADVANTAGES OF COMMERCIAL MOSQUITO COILS

- Mosquito repellents based on chemicals has a remarkable safety profile, but they are toxic against the skin and nervous system like rashes, swelling, eye irritation, corneal damage, liver damage, asthma, brain swelling in children, anaphylactic shock, and low blood pressure.
- Hence, natural mosquito repellents were preferred over chemical mosquito repellents.
- Its chloromethyl ether- Most potent lung cancer chemical ever discovered.
- 3 commercial mosquito coils- 100 cigarettes.

METHODOLOGY

Details of Ingredients Required For Herbal Mosquito Repellent

Ingredient	Quantity
Nochi leaves	20 grams
Marigold leaves	30 grams
Dhatura leaves	20 grams
Charcoal	10 grams
Sand	20 grams
Water	100 ml

SET-1

- 20 gms of Nochi leaves, 20 gms of Dhatura leaves and 30 gms of marigold leaves were cleaned thoroughly.
- All leaves were cut into smaller pieces and ground into domestic roller.
- The ground leaves were sun-dried for about 2 days.
- The dried leaves were powdered and powdered using mortar and pestle.

- 20 gm of different binders (sorbic) and 20 gm of charcoal will be mixed together with 100 ml of water.
- The liquid is heated and all powdered leaves are added into the mixture.
- The entire mixture will be made thick and cooled afterwards.

SET-2

Mosquito paste has been slowly poured into the small sized pest dish

The paste is sun-dried for about 24 hrs and then dried coil is removed tested for analysis.

OVERVIEW OF PROCESS



Herbal Mosquito Repellent Cake



Sr. No.	Name of the mosquito	Time of observation after burning of mosquito repellent	No. of mosquitoes present	Side effects
1	Paste of leaves + charcoal + 20% commercial roller	After 10 min	12	No irritation caused that's possible
2	Paste of leaves + charcoal + 20%	After 10 min	15	No irritation caused that's possible
3	Paste of leaves + charcoal + 20% after 10 min cooling	After 10 min	17	100% irritation cooling
4	Paste of leaves + charcoal + 20%	After 20 min	12	Less irritation cause that's
5	Paste of leaves + charcoal + 20%	After 30 min	18	Less irritation cause that's

COMPARATIVE EFFICIENCY OF HERBAL MOSQUITO REPELLENT WITH COMMERCIAL MOSQUITO

Time limit	Type of Mosquito coil	Observed Results
0-1 gm	No commercial mosquito repellent	Maximum mosquitoes
1-6 gm	Commercial coil	100% of the mosquitoes were greatly reduced
6-9 gm	Commercial coil	No of mosquitoes increased greatly
9-12 gm	Herbal mosquito repellent cake	95% of the mosquitoes were greatly reduced

Advantages and Suggestions :-

- The Mosquito repellent produced from Marigold leaves, Dhatura leaves and Nochi leaves and Natural binders thereby reduces the Product Cost.
- These could be in form of spray, cream, liquidator, coil, candle and sticks, and could be prepared using suitable carriers/solvents/diluents, to get better protection from mosquito bites.

CONCLUSIONS :-

- The mosquito repellent prepared with above different formulas was given for use by inhabitants of different localities.
- There is no significant difference between herbal mosquito cake and commercial mosquito coil with regard to mode of action.
- After an hour of continuous exposure to its smoke, neither dizziness nor coughing was experienced. The results of this investigation indicate that the herbal mosquito repellent could be beneficial for the control of vector borne diseases.
- It provides an herbal repellent with long lasting protection, safe for human life, human and domestic animal skin with no side effect.

References :-

Katz TR, Miller AL, Herbert AA (2005). Insect repellents: Historical perspectives and new Developments. *J Am Acad Dermatol*. 53 (1):888-871.

Kim JK, Chang SK, Jung EL, et al. (2000). Evaluation of repellency effect of two natural aroma mosquito repellent components, citronella and citronella. *Entomol Res*. 30(2):117-120.

Khandogaria SB, Pottalwar YN, Kataria AB (2005). Development of new drug based herbal mosquito repellent. *Natural product radiance*. 4 (1): 229-231.

Walia MS, Thakara U, Thakara J, et al. (2001). Mosquito barden and impact on the post: measure and costs for personal protection in some communities in Thailand. *J Am Mosq Control Assoc*. 17: 155-156.

MCES catalysed Henry Reaction: An innovative Green Approach

Introduction

Henry reaction, is a powerful carbon-carbon bond-forming reaction that can be used to synthesize 2-nitro alcohols by the reaction between nitroalkanes and an aldehyde compound.

2-nitro alcohols, which can be converted into 1,2-amino alcohols, a highly carbocyclic amino alcohols, amino ethers, thioethers, ketones and other important compounds.

We have reported an efficient synthesis of 2-nitroalcohols catalyzed by MCES Modified Chicken Egg Shell in a natural base catalyst at ambient temperature using simple green methodology.

Characterization of catalyst by IR, TGA and SEM analysis and application of catalyst for synthesis of different 2-nitro alcohols are presented features of green methodology.

Keywords: Henry reaction, Nitroalcohol, MCES.

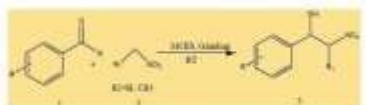
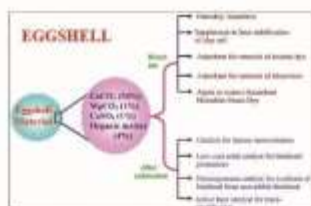
2-Nitroalcohols and its derivatives formed by Henry reaction are important pharmacophore and a privileged structures in medicinal chemistry.

Biological applications:

- Anticancer agent
- Antiviral
- Antibiotic
- Anti-inflammatory
- Antifibrotic agent
- Antiparasitic
- Anti HIV

Reported catalyst

- Alkali metal hydroxide, alkoxide
- Calcium hydroxide
- Aluminum hydroxide
- Ammonium acetate
- Primary amine
- Amine exchange resin

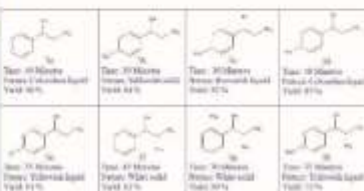


The heterogeneous reaction mixture of 4-nitrobenzaldehyde (5 mmol), nitromethane (6 mmol) and MCES (0.1 wt %) was thoroughly mixed in a mortar by grinding until the completion of reaction as monitored by thin-layer Chromatography (TLC). The mixture was acidified during the grinding. The mixture, which was initially in a partial liquid state, solidified during the process of grinding (30 min). The pure product was obtained by reprecipitation from ethanol.

After optimization study it was observed that 20 wt% of MCES catalyst is suitable to carry out the reaction with 80% yield within short period of time (30 Minutes).

OPTIMIZATION OF REACTION CONDITIONS USING VARIOUS AMOUNTS OF CATALYST

Run	Catalyst	Amount (MCES)	Time (min)	Yield (%)
1	MCES	0	30	10
2	MCES	10	30	22
3	MCES	20	30	80
4	MCES	40	30	88
5	CaCl <sub>2</sub>	20	30	80



Efficiency of CES after recycling: After efficiency of the reaction mixture, CES was recovered quantitatively simply by evaporation of excess phase and then regenerated by heating at 800°C for 2 hrs before each new usage.

Recycle cycle	Yield (%)
I	82
II	80
III	81
IV	88
V	88

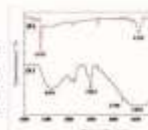
Modified Eggshell (MCES) as a base catalyst Preparation of catalyst



After thermal treatment, rest of the organic materials were burnt out and the eggshell got transformed into white soft powder, which was denominated as Modified Chicken Egg Shell (MCES) and used as catalyst in multicomponent reactions.

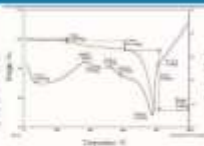
FT-IR spectra

FT-IR spectra of (a) parent eggshell and (b) MCES catalyst: A sharp stretching band is observed at 3642 cm<sup>-1</sup> due to OH group in IR spectrum of MCES, which is in parent eggshell observed at 3407 cm<sup>-1</sup>.



TGA analysis of MCES catalyst

The measured weight loss was 1.53% below 200°C, 5.51% below 800°C and reached to 43.83% between 800°C and 900°C. The weight loss of the eggshell attributed to the decomposition of CaCO<sub>3</sub> to CO<sub>2</sub> and CaO.

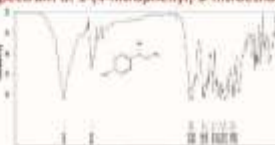


SEM Analysis

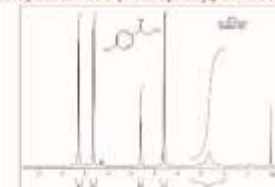
SEM micrographs of MCES catalyst shows that smaller and homogeneous particle size may be achieved with calcination of eggshell.



IR spectrum of 1-(4-nitrophenyl)-2-nitroethanol



<sup>1</sup>H NMR spectrum of 1-(4-nitrophenyl)-2-nitroethanol



<sup>13</sup>C NMR spectrum of 1-(4-nitrophenyl)-2-nitroethanol



Conclusion

- The reported method is an efficient and eco-friendly protocol for the synthesis of 2-nitroalcohol derivatives from nitroalkane substituted aldehyde and nitromethane.
- The optimization study is also reported for suitable reaction medium and catalytic amount for good yield.
- MCES reaction conditions, ambient reaction temperature and simple procedure are reported to contribute to the development of green catalytic method for synthesis of 2-nitroalcohol.
- MCES is a new, inexpensive and recyclable catalyst obtained from renewable resources which contributes to the development of new eco-friendly heterogeneous catalysts.

References

1.P. Pradyumn, A. Kumar, S. K. Mishra, S. Kumar and S. Ghosh, Tetrahedron Lett., 2012, 53(22), 3499. 2.G. S. Gupta, V. S. Chauhan, A. K. Mishra, S. Ghosh, Tetrahedron Lett., 2011, 52, 3366-3369 and 3. S. Ghosh, P. Pradyumn and S. K. Mishra, Tetrahedron Lett., 2012, 53, 2225.



Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**AVISHKAR RESEARCH CONVENTION**

**Academic Year 2018-19**

**Activity No. 1**

<b>Name of the Activity</b>	:	<b>Participation in Workshop on Avishkar Research Convention</b>
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Date</b>	:	07/09/2018
<b>Venue</b>	:	Arts, Commerce and Science Women College, Dhatav, Dist.-Raigad
<b>Number of beneficiaries</b>	:	2 teacher and 4 students
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Students received motivation, rules and regulation to participate at Avishkar research convention



Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**Activity No.2**

<b>Name of the Activity</b>	: <b>Participation in Avishkar Research Convention</b>
<b>Name of the Organizing Department/Committee</b>	: Science Association
<b>Organized in collaboration with</b>	: University of Mumbai
<b>Time Period Required to complete projects</b>	: Four Months
<b>Date</b>	: 07/12/2018
<b>Venue</b>	: M.P.A.Sc College Panvel
<b>Number of beneficiaries</b>	: 22 students with 10 research projects
<b>Aim(s)</b>	: To promote scientific temper among students
<b>Outcome(s)</b>	: Student's presentation skill improved and few students selected for next round. Project entitled "Study of effects of alkalinity of dish washing liquid on hand skin: Dish washer gloves better remedy" of Miss Nikam Ruchika Dilip (S.Y. Bsc ) and guided by Dr. Smita T. Morbale has been selected for next level





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Nagothane, Tal-Roha, Dist. Raigad, Pin. 402 106

**Activity No.3**

<b>Name of the Activity</b>	:	<b>Participation in Avishkar Research Convention</b>
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Time Period Required to complete projects</b>	:	Four Months
<b>Date</b>	:	Saturday, December 29, 2018
<b>Venue</b>	:	Rishi Dayarum and Seth Hassaram National College and Seh Wassiamull Aseomul Science College, Bandra, Mumbai (National College, Bandra)
<b>Number of beneficiaries</b>	:	3 students with 2 teachers participated
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	The project received consolidated prize







University of Mumbai  
Department of Students' Development

**13th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2018-19**

College: K.E.S. Anandibai Pradhan Science College, Roha  
(CODE: 5-04)

Zone: Raigad District

**Consolidated Entry Form-I (for Research Project Fees)**

Sr.No	Category	Level	No. of Research Projects	Total No. of Participants	Entry Fees per Research Project	Amount
1	Humanities, Languages and Fine Arts	UG	5	11	50	250
		PG			50	0
		PPG			50	0
		TH			50	0
2	Commerce, Management and Law	UG			50	0
		PG			50	0
		PPG			50	0
		TH			50	0
3	Pure Sciences	UG	3	8	50	150
		PG			50	0
		PPG			50	0
		TH			50	0
4	Agriculture and Animal Husbandry	UG	1	3	50	50
		PG			50	0
		PPG			50	0
		TH			50	0
5	Engineering and Technology	UG			50	0
		PG			50	0
		PPG			50	0
		TH			50	0
6	Medicine and Pharmacy	UG			50	0
		PG			50	0
		PPG			50	0
		TH			50	0
Grand Total			9	22		450



*[Signature]*  
PRINCIPAL  
K.E.S. A. P. Science College  
Nagallur, Dist. Raigad (M.S.)



**13th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2018-19**

College: K.E.S. Anandibai Pradhan Science College, Roha (CODE: 5-04)  
( Zone: Raigad District )

**Consolidated Entry Form-II (for Registration of Research Project)**

**Category: Humanities, Languages and Fine Arts**

**Level: UG**

Sr.No	Project Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
1	Go green:Avoid toxicity at your home	Jain Hinali Pradeep (Presenter)	26/11/1999	S.y.bsc	Cbz	244	244
2	Go green:Avoid toxicity at your home	Manjera Neha Trilokchandra	12/09/1999	Fybsc	Pcm	10	10
3	Trash talk:A case study of waste analysis at Murud	Gurav Vishakha Vijay (Presenter)	30/09/1999	Sybsc	Pcm	159	159
4	Trash talk:A case study of waste analysis at Murud	Tikone Harshali M. S.	02/10/1999	Sybsc	Pcm	157	157
5	Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy	Nikam Ruchika Dilip (Presenter)	28/01/2000	Sybsc	Cbz	245	20170164017 62036
6	Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy	Agrawal Saloni Satish	29/01/1999	Sybsc	Cbz	246	20170164017 62357
7	Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy	Helge Pratiksha Dinkar	29/09/2000	Sybsc	Pcm	182	20170164017 61482
8	Responding to Gender-Based Violence: Case study of Roha Taluka	Modi Twinkle Dilip (Presenter)	22/04/1999	Sybsc	Cb	247	20170164017 62342
9	Responding to Gender-Based Violence: Case study of Roha Taluka	Solanki Jatin Manoj	13/07/1999	Sybsc	Cbz	263	20170164017 62005 page 1/3



University of Mumbai  
Department of Students' Development

**13th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2018-19**

College: K.E.S. Anandibai Pradhan Science College, Roha (CODE: 5-04)  
( Zone: Raigad District )

**Consolidated Entry Form-II (for Registration of Research Project)**

10	Health awareness and behaviour among adolescent students in a rural school. a cross sectional observational study	Deshmukh Bhagyashree Vilas (Presenter)	23/04/2000	Sybsc	Cz	231	20170164017 61605
11	Health awareness and behaviour among adolescent students in a rural school. a cross sectional observational study	Kamble Manali Arun	13/09/1999	Sybsc	Cz	253	20170164017 61741

**Category: Pure Sciences**

Level: UG

Sr.No	Project Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
12	Tamarind leaves as a bio-alternative catalyst for C-C bond formation	Jadhav Amit Uday (Presenter)	08/07/2000	Sybsc	Pc	151	20170164017 61257
13	Tamarind leaves as a bio-alternative catalyst for C-C bond formation	Dighe Disha Dattatreya	26/11/1999	Sybsc	Pc	156	20170164017 61354
14	Tamarind leaves as a bio-alternative catalyst for C-C bond formation	Vaybhase Bhagyashri Sanjay	03/06/1999	Tybsc	Chem.	311	2016016400052114
15	MCES Catalysed Henry Reaction: An Innovative Green Approach	Avhad Prathmesh Suresh (Presenter)	22/07/2000	Sybsc	Pc	181	20170164017 61281
16	MCES Catalysed Henry Reaction: An Innovative Green Approach	Sawant Pranam Atmaram	15/11/1999	Fybsc	Pcm	33	20180164000 64284
17	MCES Catalysed Henry Reaction: An Innovative Green Approach	More Chandani Santosh	27/07/1999	Tybsc	Chem.	312	2016016400052095



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**13th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2018-19**

College: K.E.S. Anandibai Pradhan Science College, Roha (CODE: 5-04)  
( Zone: Raigad District )

**Consolidated Entry Form-II (for Registration of Research Project)**

18	Azo dye removal from industrial effluent by Karanj Bark (Pongamia Pinnata)	Singh Shivani Sandeep (Presenter)	26/08/1999	Sybsc	Cz	273	2017016401761973
19	Azo dye removal from industrial effluent by Karanj Bark (Pongamia Pinnata)	Gupta Nitish Paramanand	24/05/2001	Fybsc	Pcm	75	2018016400063764

**Category: Agriculture and Animal Husbandry**

Level: UG

Sr.No	Project Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
20	Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes	Mhatre Nivedita Vilas (Presenter)	15/10/1999	Sybsc	Pc	158	2017016401761307
21	Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes	Ghatwal Prajwal Ekanath	16/02/2000	Sybsc	Pcm	160	2017016401762237
22	Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes	Mohite Shubham Nathuram	22/06/1999	Sybsc	Pc	210	2017016401668755

The information given above is authentic and correct as per our record

Teacher Coordinator  
Date: 19/12/2018  
Place: Nagothane



Principal  
PRINCIPAL  
K.E.S. A. P. Science College  
Nagothane, Dist. Raigad (M.S.)

University of Mumbai



DEPARTMENT OF  
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13<sup>th</sup> Inter-Collegiate/  
Institute/Department

**Avishkar**

Research Convention: 2018-19

(District / Zonal Level Research Project Competitive)

## Certificate of Merit

This is to Certify that Ms. Nikam Ruchika Dilip of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts Category and UG Level** at the Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19 held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on 20 December, 2018 for Raigad District zone. The said project is selected for Final Round of 13th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2018-19.

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OSD

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DIRECTOR

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University of Mumbai

20 December, 2018

Panvel





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## Certificate of Merit

This is to Certify that **Ms. Helge Pratiksha Dinkar** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts** Category and UG Level at the **Selection Round** of **13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20 December, 2018** for **Raigad District** zone. The said project is selected for **Final Round** of **13th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2018-19**.

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University of Mumbai



20 December, 2018

Panvel



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## Certificate of Merit

This is to Certify that **Ms. Agrawal Saloni Satish** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts Category** and UG Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20 December, 2018** for **Raigad District zone**. The said project is selected for **Final Round of 13th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2018-19**.

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University of Mumbai



20 December, 2018

Panvel

University of Mumbai



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This is to Certify that Ms. Manjera Neha Trilokchandra of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Go green: Avoid toxicity at your home** in **Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on **20.12.2018** for **Raigad District zone**.

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## Certificate of Participation

This is to Certify that **Ms. Jain Hinali Pradeep** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Go green: Avoid toxicity at your home** in **Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone.**

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13<sup>th</sup> Inter-Collegiate/  
Institute/Department

**Avishkar**

Research Convention: 2018-19  
(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that Ms. Gurav Vishakha Vijay of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Trash talk:A case study of waste analysis at Murud** in **Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on **20.12.2018** for **Raigad District zone.**

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20.12.2018

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13<sup>th</sup> Inter-Collegiate/  
Institute/Department

Research Convention: 2018-19  
(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that **Ms. Tikone Harshali M.** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Trash talk:A case study of waste analysis at Murud** in **Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone.**

**DR. (MRS.) MINAKSHI GURAV**

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Avishkar Research Convention,  
University of Mumbai

**DR. SIDDHIVINAYAK BARVE**

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**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

20.12.2018

Panvel





DEPARTMENT OF  
STUDENT DEVELOPMENT



## Certificate of Participation

This is to certify that Mr. Nitish Bhatnagar (Roll No. S.S.A. 10000000000000000000) has participated and presented a Research Paper titled "Study on effects of antibiotic of antimicrobial agents on food safety" (Subject: Physics & Maths) awarded a Certificate of Participation and First Prize (Category: A) at the National Level of 10th Avishkar Research Competition, Department of Student Development, IIT Bombay, Mumbai, India, on 20th August 2019.

Dr. Nitish Bhatnagar

Dr. Nitish Bhatnagar

Dr. Nitish Bhatnagar



University of Mumbai



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STUDENTS' DEVELOPMENT



13<sup>th</sup> Inter-Collegiate/  
Institute/Department

**Avishkar**

**Research Convention: 2018-19**  
(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that **Ms. Agrawal Saloni Satish** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy** in **Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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Avishkar Rearch Convention,  
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**DR. SIDDHIVINAYAK BARVE**

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Department of Students' Development,  
University of Mumbai



20.12.2018

Panvel



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13<sup>th</sup> Inter-Collegiate/  
Institute/Department



**Avishkar**

Research Convention: 2018-19  
(District/Zonal Level Research Project Competition)

## Certificate of Participation

This is to Certify that Ms. Agrawal Saloni Satish of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts Category and UG Level at the Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19 held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on 20.12.2018 for Raigad District zone.

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## *Certificate of Participation*

This is to Certify that Ms. Nikam Ruchika Dilip of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19 held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on 20.12.2018 for Raigad District zone.

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## Certificate of Participation

This is to Certify that Ms. Tikone Harshali M. of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Trash talk: A case study of waste analysis at Murud in Humanities, Languages and Fine Arts Category** and UG Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on **20.12.2018** for **Raigad District zone.**

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## *Certificate of Participation*

This is to Certify that Ms. Gurav Vishakha Vijay of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Trash talk:A case study of waste analysis at Murud in Humanities, Languages and Fine Arts Category and UG Level at the Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19 held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on 20.12.2018 for Raigad District zone.

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This is to Certify that Ms. Jain Hinali Pradeep of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Go green: Avoid toxicity at your home in Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of **13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on **20.12.2018** for **Raigad District** zone.

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This is to Certify that Ms. Ghatwal Prajwal Ekanath of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes in Agriculture and Animal Husbandry** Category and UG Level at the Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19 held at Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad on 20.12.2018 for Raigad District zone.

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This is to Certify that **Ms. Mohite Shubham Nathuram** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes in Agriculture and Animal Husbandry** Category and **UG Level** at the Selection Round of **13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## Certificate of Participation

This is to Certify that **Ms. Mhatre Nivedita Vilas** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Nature is the best combinatorial chemist: The Wonder of Oregano leaves against Mosquitoes in Agriculture and Animal Husbandry** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Mr. Gupta Nitish Paramanand** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Azo dye removal from industrial effluent by Karanj Bark (Pongamia Pinnata)** in **Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Ms. Singh Shivani Sandeep** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Azo dye removal from industrial effluent by Karanj Bark (Pongamia Pinnata)** in **Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Ms. More Chandani Santosh** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **MCES Catalysed Henry Reaction: An Innovative Green Approach** in **Pure Sciences** Category and **UG Level** at the **Selection Round** of **13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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## *Certificate of Participation*

This is to Certify that **Mr. Sawant Pranam Atmaram** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **MCES Catalysed Henry Reaction: An Innovative Green Approach** in **Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Mr. Avhad Prathmesh Suresh** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **MCES Catalysed Henry Reaction: An Innovative Green Approach** in **Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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## *Certificate of Participation*

This is to Certify that **Ms. Vaybhase Bhagyashri Sanjay** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Tamarind leaves as a bio-alternative catalyst for C-C bond formation** in **Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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## Certificate of Participation

This is to Certify that **Ms. Dighe Disha Dattatreya** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Tamarind leaves as a bio-alternative catalyst for C-C bond formation in Pure Sciences** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone.**

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**Avishkar**

Research Convention: 2018-19  
(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that **Mr. Jadhav Amit Uday** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Tamarind leaves as a bio-alternative catalyst for C-C bond formation in Pure Sciences** Category and UG Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone.**

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## *Certificate of Participation*

This is to Certify that **Ms. Kambale Manali Arun** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Health awareness and behaviour among adolescent students in a rural school: a cross sectional observational study in Humanities, Languages and Fine Arts Category** and UG Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Ms. Deshmukh Bhagyashree Vilas** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Health awareness and behaviour among adolescent students in a rural school: a cross sectional observational study in Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District zone**.

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## *Certificate of Participation*

This is to Certify that **Ms. Helge Pratiksha Dinkar** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Study on effects of alkalinity of dishwashing liquids on hand skin: Dishwasher gloves a better remedy in Humanities, Languages and Fine Arts** Category and UG Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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## *Certificate of Participation*

This is to Certify that **Ms. Modi Twinkle Dilip** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Responding to Gender-Based Violence: Case study of Roha Taluka** in **Humanities, Languages and Fine Arts** Category and **UG** Level at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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## *Certificate of Participation*

This is to Certify that **Ms. Modi Twinkle Dilip** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Responding to Gender-Based Violence: Case study of Roha Taluka in Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round** of **13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.- Raigad** on **20.12.2018** for **Raigad District** zone.

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Research Convention: 2018-19  
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## *Certificate of Participation*

This is to Certify that **Mr. Solanki Jatin Manoj** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Responding to Gender-Based Violence: Case study of Roha Taluka in Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 13th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2018-19** held at **Mahatma Phule Arts Science and Commerce College, Panvel, Dist.-Raigad** on **20.12.2018** for **Raigad District** zone.

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Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**AVISHKAR RESEARCH CONVENTION**

**Research Activities 2019-20**

**Activity No. 1**

<b>Name of the Activity</b>	:	Orientation to Students for "preparation of Avishkar Research Projects"
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Name of Resource Person(s)</b>	:	Dr. Sandesh Gurav - Principal
<b>Date</b>	:	30/08/2019
<b>Venue</b>	:	College Campus
<b>Number of beneficiaries</b>	:	100
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Students science articles reading interest and presentation skill improved



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**Activity No. 2**

<b>Name of the Activity</b>	:	District level Avishkar research Convention for Raigad zone jointly organized with University of Mumbai
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Time Period Required to complete projects</b>	:	Four Months
<b>Date</b>	:	22/12/ 2019
<b>Venue</b>	:	Vishwaniketan institute of Management and Engineering, Khalapur
<b>Number of beneficiaries</b>	:	8 projects and 20 students participated
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Project entitled "Chemical investigation and screening of phytochemicals of folk medicine Bhamburda(Blumea Lacera) to cure dermal diseases" presented by student Miss Disha Dighe (T.Y.Bsc) and guided by teacher Miss chaitrali Patil awarded by prize at district level was also selected till ppt round at university level.





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**Activity No. 3**

<b>Name of the Activity</b>	:	University level Avishkar research Convention for Raigad zone jointly organized with University of Mumbai
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Time Period Required to complete projects</b>	:	Two Months
<b>Date</b>	:	04/1/2020
<b>Venue</b>	:	K. C. COLLEGE CHURCHGATE
<b>Number of beneficiaries</b>	:	1 teacher and 4 students participated
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Project entitled "Chemical investigation and screening of phytochemicals of folk medicine Bhamburda(Blumea Lacera) to cure dermal diseases" presented by student Miss Disha Dighe (T.Y.Bsc) and guided by teacher Miss Chaitrali Patil presented at final round

University of Mumbai



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## *Certificate of Merit*

This is to Certify that Ms. Gurav Vishakha Vijay of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (*Blumea Lacera*) to cure dermal disease in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone. The said project is selected for Final Round of 14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20.

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Place: Khalapur, Dist.- Raigad

Date: December 22, 2019

University of Mumbai



University of Mumbai

14th Inter-Collegiate/  
Institute/Department



(District/Zonal Level Research Project Competition)

## Certificate of Merit

This is to Certify that Ms. Mhatre Nivedita Vilas of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for Raigad District zone. The said project is selected for **Final Round of 14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20.**

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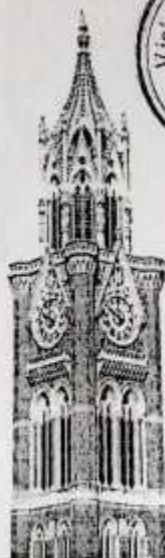
Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai



Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



University of Mumbai



14th Inter-Collegiate/  
Institute/Department

**AVISHKAR**

Research Convention: 2019-20

(District/Zonal Level Research Project Competition)

## *Certificate of Merit*

This is to Certify that Ms. Tikone Harshali Sudhir of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (*Blumea Lacera*) to cure dermal disease in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone. The said project is selected for Final Round of 14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20.

**DR. (MRS.) MINAKSHI GURAV**

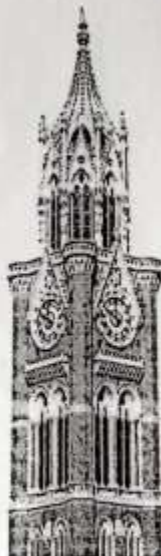
OSD

Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR

Department of Students' Development,  
University of Mumbai



Place: Khalapur, Dist - Raigad

Date: December 22, 2019



University of Mumbai



## Certificate of Participation

This is to Certify that Ms. Dighe Disha Dattatreya of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Final Round (University Level) of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Kishinchand Chellaram College, Churchgate, Mumbai on January 4, 2020**

**Dr. (Mrs.) Minakshi Gurav**  
OSD  
Avishkar Research Convention,  
University of Mumbai

**Dr. Sunil Patil**  
Director,  
Department of Students' Development,  
University of Mumbai



January 4, 2020  
Churchgate, Mumbai





University of Mumbai



## Certificate of Participation

This is to Certify that Ms. Gurav Vishakha Vijay of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Final Round (University Level) of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Kishinchand Chellaram College, Churchgate, Mumbai on January 4, 2020**

  
**Dr. (Mrs.) Minakshi Gurav**  
OSD  
Avishkar Research Convention,  
University of Mumbai

  
**Dr. Sunil Patil**  
Director,  
Department of Students' Development,  
University of Mumbai

January 4, 2020  
Churchgate, Mumbai



University of Mumbai



University of Mumbai

14th Inter-Collegiate/  
Institute/Department



**AVISHKAR**

Research Convention: 2019-20

(University Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that Ms. Tikone Harshali Sudhir of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Final Round (University Level) of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Kishinchand Chellaram College, Churchgate, Mumbai on January 4, 2020

**Dr. (Mrs.) Minakshi Gurav**  
OSD  
Avishkar Research Convention,  
University of Mumbai



**Dr. Suhil Patil**  
Director,  
Department of Students' Development,  
University of Mumbai



January 4, 2020  
Churchgate, Mumbai

University of Mumbai



University of Mumbai



14th Inter-Collegiate/  
Institute/Department

**AVISHKAR**

Research Convention: 2019-20

(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that Ms. Patil Mansi Naresh of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Nature is the best combinatorial chemist: Development and study of environmental friendly mosquito repellent liquid in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

**DR. (MRS.) MINAKSHI GURAV**

OSD

Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



University of Mumbai



## *Certificate of Participation*

This is to Certify that Ms. Manjera Nehakumari Trilokchandra of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Development and study of dust free blackboard** in **Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for Raigad District zone.

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Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR  
Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019



University of Mumbai



University of Mumbai



## *Certificate of Participation*

This is to Certify that **Ms. Khandekar Srushti Naresh** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **No heavy bags, No home work: Stress free child in Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of **14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for **Raigad District** zone.

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Avishkar Research Convention

University of Mumbai

**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,

University of Mumbai



Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



University of Mumbai



## Certificate of Participation

This is to Certify that Ms. Deshmukh Bhagyashree Vilas of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Innovations for child welfare: Positive Parenting in Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

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Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019





University of Mumbai



University of Mumbai



## *Certificate of Participation*

This is to Certify that **Mr. Gupta Nitish Paramanand** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Construction of multipurpose Glue-Gun and its applications in Engineering and Technology** Category and UG Level at the Selection Round of **14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for Raigad District zone.

**DR. (MRS.) MINAKSHI GURAV**

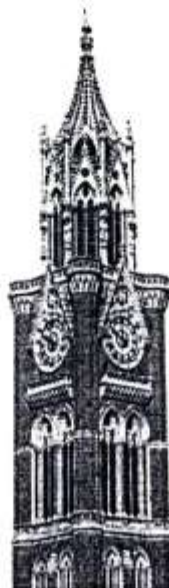
OSD

Avishkar Research Convention  
University of Mumbai

**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai



Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



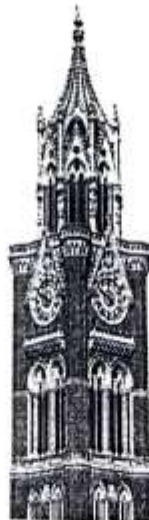
University of Mumbai



## Certificate of Participation

This is to Certify that **Dr. Smita.t.morbale** of **K.E.S. Anandibai Pradhan Science College, Roha** has guided a Research Project Titled **No heavy bags, No home work: Stress free child in Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at **Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad** on **December 22, 2019** for **Raigad District** zone.

**DR. (MRS.) MINAKSHI GURAV**  
OSD  
Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR  
Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019



University of Mumbai



University of Mumbai



14th Inter-Collegiate/  
Institute/Department

**AVISHKAR**

Research Convention: 2019-20

(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that Mr. Kadam Manish Mangesh of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled *Effect of Bryophyllum pinnatum plant extracts on calcium oxalate crystallization having a role in urolithiasis* in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

DR. (MRS.) MINAKSHI GURAV

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University of Mumbai



Dr. Sunil Patil

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



University of Mumbai



## Certificate of Participation

This is to Certify that **Mr. Bhoi Atharva Shantaram** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Effect of Bryophyllum pinnatum plant extracts on calcium oxalate crystallization having a role in urolithiasis** in **Pure Sciences Category** and **UG Level** at the **Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at **Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad** on **December 22, 2019** for **Raigad District zone**.

**DR. (MRS.) MINAKSHI GURAV**

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Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019





University of Mumbai



## Certificate of Participation

This is to Certify that **Mr. Sawant Pranam Atmaram** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Development and study of dust free blackboard** in **Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of **14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.- Raigad on **December 22, 2019** for **Raigad District zone**.

**DR. (MRS.) MINAKSHI GURAV**  
OSD  
Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR  
Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019



University of Mumbai



University of Mumbai



## *Certificate of Participation*

This is to Certify that Ms. Nikam Ruchika Dilip of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Innovations for child welfare: Positive Parenting in Humanities, Languages and Fine Arts** Category and UG Level at the Selection Round of **14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.- Raigad on **December 22, 2019** for Raigad District zone.

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**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



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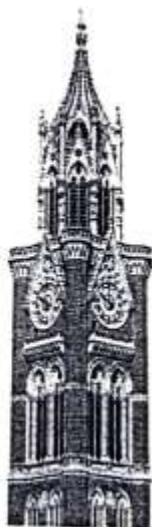
## *Certificate of Participation*

This is to Certify that Ms. Gurav Vishakha Vijay of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for **Raigad District zone**.

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Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



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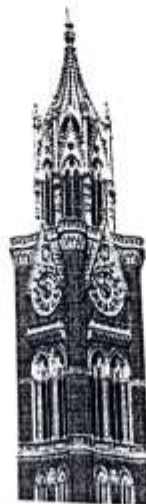
14th Inter-Collegiate/  
Institute/Department

Research Convention: 2019-20  
(District/Zonal Level Research Project Competition)

## Certificate of Participation

This is to Certify that Ms. Salunke Saloni Santosh of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled Nature is the best combinatorial chemist: Development and study of environmental friendly mosquito repellent liquid in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

DR. (MRS.) MINAKSHI GURAV  
OSD  
Avishkar Research Convention  
University of Mumbai



Dr. Sunil Patil  
DIRECTOR  
Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019





University of Mumbai



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## *Certificate of Participation*

This is to Certify that Ms. Mhatre Nivedita Vilas of K.E.S. Anandibai Pradhan Science College, Roha Participated and Presented a Research Project Titled **Chemical investigation and screening of phytochemicals of folk medicine Bhamburda (Blumea Lacera) to cure dermal disease in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

**DR. (MRS.) MINAKSHI GURAV**

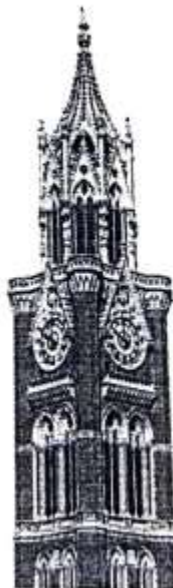
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Avishkar Research Convention  
University of Mumbai

**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai



Place: Khalapur, Dist.- Raigad

Date: December 22, 2019



University of Mumbai



University of Mumbai



14th Inter-Collegiate/  
Institute/Department

**AVISHKAR**

Research Convention: 2019-20

(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that **Mr. Salvi Harshad Harishchandra** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Nature is the best combinatorial chemist: Development and study of environmental friendly mosquito repellent liquid in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on **December 22, 2019** for Raigad District zone.

**DR. (MRS.) MINAKSHI GURAV**

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Avishkar Research Convention  
University of Mumbai

**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai



Place: Khalapur, Dist.- Raigad

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University of Mumbai



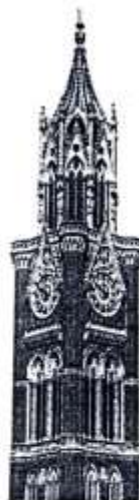
University of Mumbai



## Certificate of Participation

This is to Certify that Ms. Gharat Krushnali Dattaram of K.E.S. Anandibal Pradhan Science College, Roha Participated and Presented a Research Project Titled Effect of Bryophyllum pinnatum plant extracts on calcium oxalate crystallization having a role in urolithiasis in Pure Sciences Category and UG Level at the Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20 held at Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad on December 22, 2019 for Raigad District zone.

**DR. (MRS.) MINAKSHI GURAV**  
OSD  
Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR  
Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019



University of Mumbai



14th Inter-Collegiate/  
Institute/Department

**AVISHKAR**

Research Convention: 2019-20

(District/Zonal Level Research Project Competition)

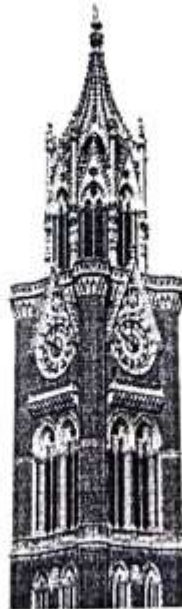
## *Certificate of Participation*

This is to Certify that **Ms. Bhoi Anushka Shantaram** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **No heavy bags, No home work: Stress free child in Humanities, Languages and Fine Arts** Category and **UG Level** at the **Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at **Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.-Raigad** on **December 22, 2019** for **Raigad District zone**.

**DR. (MRS.) MINAKSHI GURAV**

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Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**

DIRECTOR

Department of Students' Development,  
University of Mumbai

Place: Khalapur, Dist.- Raigad

Date: December 22, 2019





University of Mumbai



14th Inter-Collegiate/  
Institute/Department

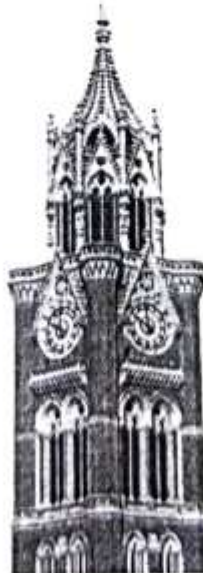
**AVISHKAR**

Research Convention: 2019-20  
(District/Zonal Level Research Project Competition)

## *Certificate of Participation*

This is to Certify that **Mr. Mulla Navid Nadeem** of **K.E.S. Anandibai Pradhan Science College, Roha** Participated and Presented a Research Project Titled **Construction of multipurpose Glue-Gun and its applications** in **Engineering and Technology** Category and **UG Level** at the **Selection Round of 14th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2019-20** held at **Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Dist.- Raigad** on **December 22, 2019** for **Raigad District zone**.

**DR. (MRS.) MINAKSHI GURAV**  
OSD  
Avishkar Research Convention  
University of Mumbai



**Dr. Sunil Patil**  
DIRECTOR  
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University of Mumbai

Place: Khalapur, Dist.- Raigad  
Date: December 22, 2019





Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**AVISHKAR RESEARCH CONVENTION**

**Academic Year 2020-21**

**Activity No.1**

<b>Name of the Activity</b>	:	Orientation program for participation in Avishkar research convention
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Date</b>	:	Sept 2020 by virtual mode
<b>Venue</b>	:	College Campus
<b>Number of beneficiaries</b>	:	70
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	Students science articles reading interest and presentation skill improved



**Konkan Education Society's**  
**'Bapusaheb Deshpande Educational Complex'**  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106

**Activity No.2**

<b>Name of the Activity</b>	:	Participation in Avishkar research convention by virtual mode
<b>Name of the Organizing Department/Committee</b>	:	Science Association
<b>Organized in collaboration with</b>	:	University of Mumbai
<b>Time Period Required to complete projects</b>	:	Two Months
<b>Date</b>	:	April 2021
<b>Venue</b>	:	virtual mode
<b>Number of beneficiaries</b>	:	11 students with 4 research projects
<b>Aim(s)</b>	:	To promote scientific temper among students
<b>Outcome(s)</b>	:	<p>1. The Project entitled "Online Learning vs. Face to Face Learning:Opinion Based Study during Covid Crisis" was awarded a Certificate of Merit by university of Mumbai at the selection round. Sawant Pranam Atmaram, Gupta Nitish Paramanand. Sawant Pratiksha Shivaji Watve Anuja participated in this winning project. Same Project was presented by Miss Pratiksha Sawant for the final round on the virtual platform.</p> <p>2 Miss Richika Nikam (M.Sc) student participated in One day online national conference on Recent Trends in Interdisciplinary Research in Basic Sciences-2021 held on April 03, 2021 held by Pillai HOC College of Arts, Science and Commerce, Rasayani. She presented a Research Paper entitled "Effect of dishwashing liquid on hand and designing the dishwashing gloves as solution".</p>



University of Mumbai  
Department of Students' Development

15th Inter-Collegiate/Institute/Department Avishkar Research  
Convention  
AY-2020-21

College: K.E.S. Anandibai Pradhan Science College, Nagothane (CODE: 5-07)  
( Zone: Raigad District )

Consolidated Entry Form-II (for Registration of Research Proposal)

Category: Humanities, Languages and Fine Arts

Level: UG

Sr.No	Research Proposal Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
1	Online Learning vs. Face to Face Learning:Opinion Based Study during Covid Crisis	Sawant Pranam Atmaram (Presenter)	15/11/1999	T.Y.BSC		390	
2	Online Learning vs. Face to Face Learning:Opinion Based Study during Covid Crisis	Gupta Nitish Paramanand	24/05/2001	T.Y.BSC		332	
3	Online Learning vs. Face to Face Learning:Opinion Based Study during Covid Crisis	Sawant Pratiksha Shivaji	13/02/2001	T.Y.BSC		391	
4	Online Learning vs. Face to Face Learning:Opinion Based Study during Covid Crisis	Watve Anuja Sunil	14/06/2003	F.Y.B.SC		01	
5	To make compost from wet garbage collected from Nagothane area and encouraging organic home gardening.	Mishra Swati Nandeshwar (Presenter)	15/05/2003	F.Y.BSC		113	
6	To make compost from wet garbage collected from Nagothane area and encouraging organic home gardening.	Gije Siddhee Dayaram	07/10/2002	F.Y.BSC		17	
7	Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study	Avhad Yash Suresh (Presenter)	26/08/2003	F.Y.BSC		93	





University of Mumbai  
Department of Students' Development

15th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2020-21

College: K.E.S. Anandibai Pradhan Science College, Nagothane (CODE: 5-07)  
( Zone: Raigad District )

Consolidated Entry Form-II (for Registration of Research Proposal)

8	Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study	Jadhav Sidharth Sunil	10/12/2002	F.Y.BSC		86	
9	Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study	Nage Aditya Dilip	13/01/2003	F.Y.BSC		88	
10	Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study	Kende Yash Babu	28/05/2002	F.Y.B.SC		92	

Category: Medicine and Pharmacy

Level: PG

Sr.No	Research Proposal Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
11	Immediate effect of bitter gourd mixed with tamarind juice on type 2 diabetic patients.	Nikam Ruchika Dilip (Presenter)	28/01/2000	M.S.C PART-I		904	

The information given above is authentic and correct as per our record

Teacher Coordinator

College Seal

Principal

Date:

Place:

University of Mumbai



University of Mumbai

15<sup>th</sup> Inter-Collegiate/  
Institute/Department



Research Convention: 2020-21

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Mr. Sawant Pranam Atmaram** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Online Learning vs. Face to Face Learning: Opinion Based Study during Covid Crisis in Humanities, Languages and Fine Arts** category and **UG** level for the **Final Round** of **15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** organised on Virtual Platform by University of Mumbai on **June22, 2021**.

**Dr. (Mrs.) Minakshi Gurav**  
OSD,  
Avishkar Research Convention,  
University of Mumbai

**Dr. Sunil Patil**  
Director,  
Department of Students' Development,  
University of Mumbai

**Churchgate,  
Mumbai  
June 22,  
2021**



University of Mumbai



University of Mumbai

15<sup>th</sup> Inter-Collegiate/  
Institute/Department



Research Convention: 2020-21

FINAL ROUND

(University Level Research Proposal Competition)

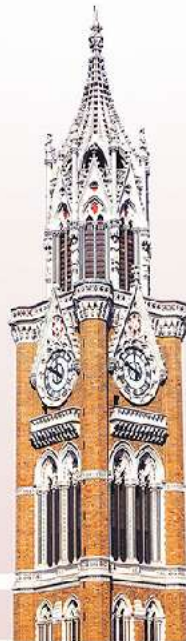
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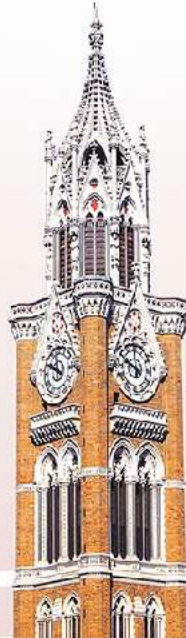
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Research Convention: 2020-21

FINAL ROUND

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## *Certificate of Participation*

This is to certify that **Ms. Watve Anuja Sunil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Online Learning vs. Face to Face Learning: Opinion Based Study during Covid Crisis in Humanities, Languages and Fine Arts** category and **UG** level for the **Final Round of 15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** organised on Virtual Platform by University of Mumbai on **June 22, 2021**.

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Institute/Department



**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

## *Certificate of Participation*

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Mumbai  
April 12, 2021



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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

## *Certificate of Participation*

This is to certify that **Mr. Avhad Yash Suresh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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Institute/Department



**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

## *Certificate of Participation*

This is to certify that **Mr. Jadhav Sidharth Sunil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Mr. Nage Aditya Dilip** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round** of **15th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

## *Certificate of Participation*

This is to certify that **Mr. Kende Yash Bapu** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Research and Analysis of Different Methods to Reduce and Recycle Plastic Waste: Case study in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round** of **15th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

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**SELECTION ROUND**

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## *Certificate of Participation*

This is to certify that **Ms. Sawant Pratiksha Shivaji** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Online Learning vs. Face to Face Learning: Opinion Based Study during Covid Crisis in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round** of **15th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Watve Anuja Sunil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Online Learning vs. Face to Face Learning: Opinion Based Study during Covid Crisis in Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 15th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

## *Certificate of Participation*

This is to certify that **Ms. Mishra Swati Nandeshwar** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **To make compost from wet garbage collected from Nagothane area and encouraging organic home gardening.** in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

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## *Certificate of Participation*

This is to certify that **Ms. Gije Siddhee Dayaram** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **To make compost from wet garbage collected from Nagothane area and encouraging organic home gardening.** in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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**AVISHKAR**

Research Convention: 2020-21

**SELECTION ROUND**

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## *Certificate of Participation*

This is to certify that **Ms. Nikam Ruchika Dilip** of **K.E.S. AnandibaiPradhan Science College, Nagothane** has participated and submitted a research proposal titled **Immediate effect of bitter gourd mixed with tamarind juice on type 2 diabetic patients.** in **Medicine and Pharmacy** category and **PG** level for the **Selection Round** of **15th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2020-21** for zone.

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Research Convention: 2020-21

FINAL ROUND

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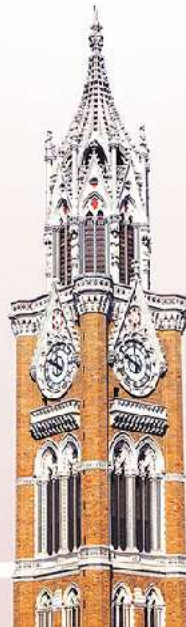
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**Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
ANANDIBAI PRADHAN SCIENCE COLLEGE  
Nagothane, Tal.-Roha, Dist. Raigad, Pin. 402 106**

**AVISHKAR RESEARCH CONVENTION**

**Academic Year 2021-22  
Activity No. 3**

<b>Name of the Activity</b>	: Participation in Avishkar research convention by virtual mode
<b>Name of the Organizing Department/Committee</b>	: Science Association
<b>Organized in collaboration with</b>	: University of Mumbai
<b>Time Period Required to complete projects</b>	: Three Months
<b>Date</b>	: April 2022
<b>Venue</b>	: virtual mode
<b>Number of beneficiaries</b>	: 28 students with 6 research projects
<b>Aim(s)</b>	: To promote scientific temper among students
<b>Outcome(s)</b>	: 1. The Project entitled "Study and Development of Antimicrobial polyherbal Hand wash was awarded a Certificate of Merit by university of Mumbai at UG level 2 The Project entitled "Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet" was awarded a Certificate of Merit by university of Mumbai at PG level



॥ कुर्वन् कर्म सुखं दुःखं गणयेत्कामयाजः ॥

Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'

**ANANDIBAI PRADHAN SCIENCE COLLEGE,**

Nagothane, Tal.Roha, Dist. Raigad, Pin. 402 106 Phone : (02194) 222582



University of Mumbai  
Department of Students' Development

**16th Inter-Collegiate/Institute/Department Avishkar  
Research Convention  
AY-2021-22**

College / University Department: K.E.S. Anandibai Pradhan Science College, Nagothane (CODE:  
5-12)  
( Zone: Raigad District )

**Consolidated Entry Form-II (for Registration of Research Proposal)**

Sr.No	Research Proposal Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
8	Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet	Nikam Ruchika Dilip (Presenter)	28/01/2000	M.SC PART-2		1017	2017016401762036
9	Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet	Bavadhane Uttam Janu	15/12/2000	M.SC. PART-1		914	2018016400064775
10	Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet	Daki Sonal Lahu	07/03/2000	M.SC PART-2		1007	8459910610

**Category: Pure Sciences**

**Level: UG**

Sr.No	Research Proposal Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
11	Study on Development and Formulation of Ginger against Infectious Diseases	Watve Anuja Sunil (Presenter)	14/06/2003	S. Y. B.SC		223	2020016400176196
12	Study on Development and Formulation of Ginger against Infectious Diseases	Pawar Ankita Anil	14/02/2003	S.Y.B.SC		208	2019016400196877
13	Study on Development and Formulation of Ginger against Infectious Diseases	Gije Sakshi Ravindra	02/07/2003	S.Y.BSC		170	2020016400201931
14	Study on Development and Formulation of Ginger against Infectious Diseases	Kumawat Pravin Ramprasad	07/09/2001	S.Y.B.SC		187	2020016400193585
15	Study and Development of Antimicrobial Polyherbal Hand wash	Patil Mansi Naresh (Presenter)	16/09/2001	T.Y.BSC		371	2019016400645921



University of Mumbai  
 Department of Students' Development  
**16th Inter-Collegiate/Institute/Department Avishkar  
 Research Convention**  
 AY-2021-22

College / University Department: K.E.S. Anandibai Pradhan Science College, Nagothane (CODE:  
 5-12)  
 ( Zone: Raigad District )

**Consolidated Entry Form-II (for Registration of Research Proposal)**

16	Study and Development of Antimicrobial Polyherbal Hand wash	Salvi Harshad Harishchandra	08/10/2001	T.Y.B.SC		385	2019016400645221
17	Study and Development of Antimicrobial Polyherbal Hand wash	Navshe Tejal Narendra	25/04/2002	T.Y.B.SC		369	2019016400645832
18	Study and Development of Antimicrobial Polyherbal Hand wash	Salunke Saloni Santosh	10/02/2002	T.Y.B.SC		384	2019016400645333
19	Study and Development of Antimicrobial Polyherbal Hand wash	Rayan Reshma Jigar	10/02/2003	T.Y.B.SC		381	2019016400645221

**Level: PG**

Sr.No	Research Proposal Title	Name	DOB	Class	Division	Roll No	PRN/PG Registration No.
20	Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum	Avhad Prathmesh Suresh (Presenter)	22/07/2000	M.SC PART-2		1001	2017016401761281
21	Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum	Deshmukh Bhagyashree Vilas	23/04/2000	M.SC PART-2		1008	2017016401761605
22	Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum	Jadhav Amit Uday	08/07/2000	M.SC PART-2		1011	2017016401761257
23	Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum	Daki Neha Vasudev	06/12/1999	PART II		1006	2017016401762303
24	Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics	Mhatre Nivedita Vilas (Presenter)	15/10/1999	PART II		1018	2017016401761307

University of Mumbai



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16<sup>th</sup> Inter-Collegiate/  
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**AVISHKAR**

Research Convention: 2021-22

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

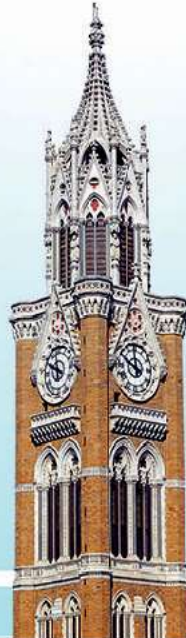
# *Certificate of Participation*

This is to certify that **Ms. Swami Sandhyarani Madhav** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Aging with pride: Intrinsic motivational study**, in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

**Dr. (Mrs.) Minakshi Gurav**  
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University of Mumbai

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Director,  
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Mumbai  
April 25, 2022





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Institute/Department



Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

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This is to certify that **Ms. Kotwal Mansi Ashok** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Aging with pride: Intrinsic motivational study.** in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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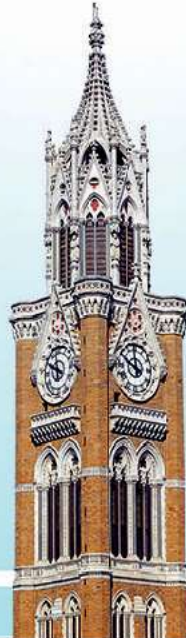
# *Certificate of Participation*

This is to certify that **Ms. Gaikar Purva Dhananjay** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Aging with pride: Intrinsic motivational study**, in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Mishra Swati Nandeshwar** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Aging with pride: Intrinsic motivational study**, in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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**AVISHKAR**

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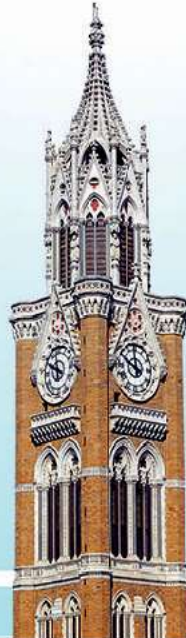
# *Certificate of Participation*

This is to certify that **Ms. Daki Neha Vasudev** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study On Water Purification By A Natural Bio- coagulants: Moringa oleifera & Cicer arietinum** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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## *Certificate of Participation*

This is to certify that **Ms. Patil Aakrosh Jaynath** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Ghotgalkar Janhavi Jeevan** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics in Pure Sciences** category and **PG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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## *Certificate of Participation*

This is to certify that **Ms. Karale Sayli Manoj** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Mhatre Sayli Ganesh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Mhatre Nivedita Vilas** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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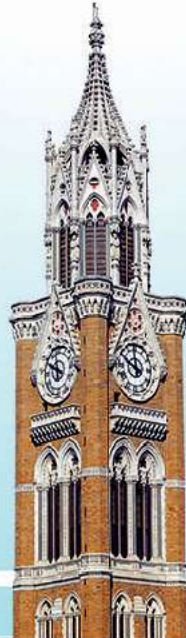
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# *Certificate of Participation*

This is to certify that **Mr. Jadhav Amit Uday** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study On Water Purification By A Natural Bio- coagulants: Moringa oleifera & Cicer arietinum** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Deshmukh Bhagyashree Vilas of K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum** in **Pure Sciences** category and **PG** level for the **Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Mr. Avhad Prathmesh Suresh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum** in **Pure Sciences** category and **PG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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# *Certificate of Participation*

This is to certify that **Ms. Rayan Reshma Jigar** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Salunke Saloni Santosh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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This is to certify that **Ms. Navshe Tejal Narendra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# Certificate of Participation

This is to certify that **Mr. Salvi Harshad Harishchandra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Patil Mansi Naresh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Mr. Kumawat Pravin Ramprasad** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study on Development and Formulation of Ginger against Infectious Diseases** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Gije Sakshi Ravindra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study on Development and Formulation of Ginger against Infectious Diseases** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Pawar Ankita Anil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study on Development and Formulation of Ginger against Infectious Diseases** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Watve Anuja Sunil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study on Development and Formulation of Ginger against Infectious Diseases** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Ms. Daki Sonal Lahu** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry category and PG level for the Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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# *Certificate of Participation*

This is to certify that **Mr. Bavadhane Uttam Janu** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry category and PG level for the Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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# *Certificate of Participation*

This is to certify that **Ms. Nikam Ruchika Dilip** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry category and PG level for the Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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## *Certificate of Participation*

This is to certify that **Mr. Vakhardar Raj Rajendra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **The Effect of Organic Manure On Cucumber Plant in Lateritic Soil of Raigad District in Agriculture and Animal Husbandry** category and **UG** level for the **Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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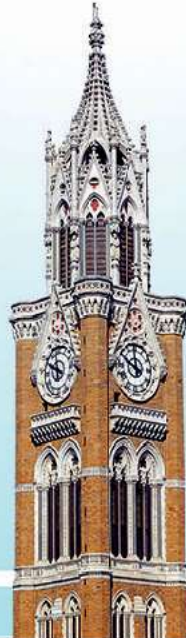
# *Certificate of Participation*

This is to certify that **Mr. Watve Aditya Anil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **The Effect of Organic Manure On Cucumber Plant in Lateritic Soil of Raigad District** in **Agriculture and Animal Husbandry** category and **UG** level for the **Selection Round of 16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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SELECTION ROUND

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## *Certificate of Merit*

This is to certify that **Mr. Salvi Harshad Harishchandra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash in Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter- Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round** of **16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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SELECTION ROUND

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## *Certificate of Merit*

This is to certify that **Ms. Rayan Reshma Jigar** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District zone**. The said research proposal is selected for **Final Round of 16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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## *Certificate of Merit*

This is to certify that **Ms. Salunke Saloni Santosh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round** of **16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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This is to certify that **Ms. Navshe Tejal Narendra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round** of **16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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This is to certify that **Ms. Patil Mansi Naresh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District zone**. The said research proposal is selected for **Final Round of 16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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Director,  
Department of Students' Development,  
University of Mumbai



Mumbai  
April 25, 2022





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16<sup>th</sup> Inter-Collegiate/  
Institute/Department



Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

## *Certificate of Merit*

This is to certify that **Mr. Bavadhane Uttam Janu** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry** category and **PG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round of 16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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OSD,  
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Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

## *Certificate of Merit*

This is to certify that **Ms. Daki Sonal Lahu** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and submitted a research proposal titled **Spinach paper-The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry** category and **PG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round of 16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Patil Mansi Naresh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organised on Virtual Platform by University of Mumbai on **May 15, 2022**.

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May 15, 2022



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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Mr. Salvi Harshad Harishchandra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash in Pure Sciences** category and **UG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organised on Virtual Platform by University of Mumbai on **May 15, 2022**.

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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# Certificate of Participation

This is to certify that **Ms. Navshe Tejal Narendra** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash in Pure Sciences** category and **UG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organized on Virtual Platform by University of Mumbai on **May 15, 2022**.

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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Salunke Saloni Santosh** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash in Pure Sciences** category and **UG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organised on Virtual Platform by University of Mumbai on **May 15, 2022**.

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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Rayan Reshma Jigar** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** in **Pure Sciences** category and **UG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organised on Virtual Platform by University of Mumbai on **May 15, 2022**.

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May 15, 2022



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Institute/Department



Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Ms. Nikam Ruchika Dilip** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has participated and presented a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet in Agriculture and Animal Husbandry** category and **PG** level for the **Final Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** organised on Virtual Platform by University of Mumbai on **May 2, 2022**.

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**May 2, 2022**  
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Research Convention: 2021-22

FINAL ROUND

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May 2, 2022  
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Research Convention: 2021-22

FINAL ROUND

(University Level Research Proposal Competition)

# Certificate of Participation

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Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

## *Certificate of Merit*

This is to certify that **Dr. Smita T. Morbale** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Study and Development of Antimicrobial Polyherbal Hand wash** which was submitted by her student **Ms. Patil Mansi** in **Pure Sciences** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round** of **16th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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Mumbai  
April 25, 2022



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Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

## *Certificate of Merit*

This is to certify that **Dr. Smita T. Morbale** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Spinach paper- The Agrofood based solution to increase the intake of nutrition for daily diet** which was submitted by her student **Ms. Nikam Ruchika** in **Agriculture and Animal Husbandry** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for **Raigad District** zone. The said research proposal is selected for **Final Round** of **16th Inter- Collegiate/Institute/Department Avishkar Research Convention: 2021-22**.

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**AVISHKAR**

Research Convention: 2021-22

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Dr. Smita T. Morbale** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Aging with pride: Intrinsic motivational study**, which was submitted by her student **Ms. Mishra Swati** in **Humanities, Languages and Fine Arts** category and **UG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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Research Convention: 2021-22

SELECTION ROUND

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## *Certificate of Participation*

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Research Convention: 2021-22

SELECTION ROUND

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This is to certify that **Dr. Smita T. Morbale** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Study on Development and Formulation of Ginger against Infectious Diseases** which was submitted by her student **Ms. Watve Anuja** in **Pure Sciences** category and **UG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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**AVISHKAR**

Research Convention: 2021-22

**SELECTION ROUND**

(District/Zonal Level Research Proposal Competition)

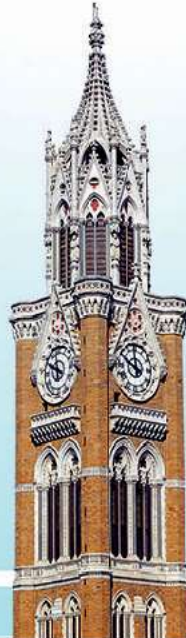
# *Certificate of Participation*

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SELECTION ROUND

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**AVISHKAR**

Research Convention: 2021-22

**SELECTION ROUND**

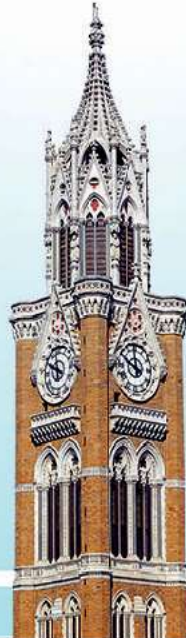
(District/Zonal Level Research Proposal Competition)

# *Certificate of Participation*

This is to certify that **Mrs. Poonam Darshan Joshi** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Study On Water Purification By A Natural Bio-coagulants: Moringa oleifera & Cicer arietinum** which was submitted by her student **Mr. Avhad Prathmesh** in **Pure Sciences** category and **PG** level for the **Selection Round** of **16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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Research Convention: 2021-22

SELECTION ROUND

(District/Zonal Level Research Proposal Competition)

## Certificate of Participation

This is to certify that **Mrs. Chitrani S. Patil** of **K.E.S. Anandibai Pradhan Science College, Nagothane** has guided a research proposal titled **Effects of extraction time, temperature and solvent on concentration and antioxidant activity of Bhamburda phenolics** which was submitted by her student **Ms. Mhatre Nivedita** in **Pure Sciences** category and **PG** level for the **Selection Round of 16th Inter-Collegiate / Institute / Department Avishkar Research Convention: 2021-22** for zone.

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