

Sonopant Dandekar Shikshan Mandalis
Sonopant Dandekar Arts, V.S. Apte Commerce and
M.H. Mehta Science College, Palghar

Avishkar Research Convention

15th State Level Avishkar Research Convention

2022-23



Inter-Collegiate / Institute / Department
Research Convention
University of Mumbai



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND
M.H. MEHTA SCIENCE COLLEGE, PALGHAR**

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Avishkar Research Convention Report: 2022-23

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Prof. Sapna Bakul Jadhav

College Co-ordinator

Prof. Mahesh Deshmukh

IQAC Co-ordinator

Dr. Kiran Save

Principal



Sonopant Dandekar Shikshan Mandali's

Sonopant Dandekar Arts, V. S. Apte Commerce
& M. H. Mehta Science College, Palghar

(Best College - University of Mumbai)

(Amongst Top 100 Colleges in India by 'India Today - MDRA Survey 2019')

Date: 05 / 08 /2022

CERTIFICATE

This is to certify that **Dr. Sapna Bakul Jadhav** is serving as an Assistant Professor in the Department of Physics at Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar, Dist. Palghar.

She has actively contributed in **Intercollegiate Avishkar Research Competition 2022-23** of the institution as college coordinator of the academic year 2021-22.

(Dr. Kiran J. Save)
Principal



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25/11/2022

**University of Mumbai
DEPARTMENT OF STUDENTS' DEVELOPMENT
15th Inter-Collegiate / Institute / Department
Avishkar Research Convention**

Since the last few years, Sonopant Dandekar College has created its position at University and National level as a quality educational hub, through a lot of events and competitions where we proved our self. Last two years we got huge success in the Avishkar Research Convention. Now this year due to present circumstances, it is not possible to organize Avishkar Research Convention as per regular mode. However, to keep the temperament of the research, the Board of Students' Development, University of Mumbai has decided to conduct this research activity on a Virtual Platform. This year, as working in the laboratories would not be possible, therefore the convention will be based on the research proposal as well as preliminary work (if done) by the students.

There will be two rounds for the convention-

1) Selection Round (District/Zone Level)

2) Final Round (University Level)

Following is the College Committee for **Avishkar Research Convention 2022**

Sr. No.	Name of the person	Designation	Department
1	Mrs. Sapna Jadhav	College coordinator	Science – Physics
2.	Mrs. Bhakti Raut	College Co-coordinator	Science -IT
3.	Mr. Vivek Kudu	Member	Arts – Marathi
4.	Dr. Shehnaz Ratnani	Member	Commerce
5.	Lt. Anagha Padhye	Member	Arts Philosophy
6.	Dr. Dilip Yadav	Member	Science – Chemistry
7.	Dr.Hrushikesh Deokar	Member	Science – Chemistry
8.	Mr, Ramdas Yede	Member	Arts History
9.	Ms. Shreya Mishra	Member	Commerce & Management
10.	Mr. Bhushan Bhoir	Member	Science – Zoology
11.	Mrs. Shailaja Palan	Member	Science - Biotechnology
12.	Mrs. Rashmi Varade	Member	Science – CS
13	Mr. Harshad Chaudhari	Member	Science – Botany
14	Mr. Tajes Chaudhari	Member	Science – Botany

The above members are supposed to motivate the student participants to prepare a quality research proposal and look at the other event organizing activity.

**(Dr. Kiran Save)
Principal**



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20/08/22

(Notice for All Senior College Teaching staff)

Avishkar Research Convention 2022-23

All the faculty members hereby informed that the Department of Students Development, University of Mumbai declared the dates for 'Avishkar Research Convention 2022-23'.

All teaching staff members have to submit the details of their student researcher and the project to **Mrs. Sapna Jadhav** on or before **30/08/2022**.

**For assistance Contact: Dr. Manish Deshmukh 9822426815
Mrs. Sapna Jadhav 8169684857**

Date: 22/08/2022

**Mrs. Sapna
Jadhav
College
coordinator**

Dr. Kiran Save
Principal
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-401404

INTRODUCTION TO “AVISHKAR” : CONCEPT & THEME OF AVISHKAR

The State Level Inter-university Research Competition was initiated by the Office of the Hon’ble Chancellor in the year 2007 with a very unique title i.e. “Avishkar”.

Research is an outcome basically of the innovative minds in the modern era with the support of well equipped laboratories and such other infrastructure. If the same is made available by the educational institution at right ages, it will not only stimulate the activities but will help to identify the students to be groomed further as acclaimed researchers in their respective fields. Much is discussed about the quality of research being carried out in the Universities. Concern has always been expressed about enhancing the standard of researches.

A peer group of like-minded talented persons inclined towards research leaves strong impact on the open minds at the tender age giving direction to take research as a career. Right opportunity when made available at the undergraduate level leads to forming such a peer group which can be molded in desired direction by motivated teachers, who became their mentors. The desired outcome of “Avishkar” would not be limited to the quality of the research in the University and to register maximum number of patents but would be to nurture the future of “Noble Laureates” ahead in forthcoming years doing fundamental research.

BASIC CONCEPT OF AVISHKAR:

- Identifying the hidden innovative scientific talents and capacities of the youth of Universities;
- Providing opportunities for inculcating research attitude in the youth and teachers of higher education system;
- Promoting talented researchers to participate at National/International events;
- Involving teachers in Minor and Major Research Projects and thus contribute in research development;
- To provide financial assistance in the form of fellowship / scholarship to the selected young researchers and teachers for innovative research development.

The organization of “Avishkar” promotes and encourages participation of multi-disciplinary faculties (six categories) of education at four different levels (UG, PG, PPG & Ph.D. teachers) to showcase novel innovative research projects under the unique theme of “Avishkar” i.e. **“Create, Sustain and Prosper”**.

About Avishkar Competition

1. Introduction

The frontiers of education are changing every day. We are moving from the knowledge based society to a society of innovation and thus research becomes one of the most important components of the higher education. Today, one of the indices for the measurement of the potential of any educational institution is its research activity. All stakeholders namely, students, teachers and other entities in the higher educational institutes should be enthused to engage themselves in research at various levels. It is essential to unveil the unknown and unexplored areas of knowledge in all fields of academic enquiry. Due to the increasing requisite of interdisciplinary approach, no discipline goes untouched from the research activity. Keeping in view the new challenges, the then Hon'ble Governor of Maharashtra and the Chancellor of the Universities in the State of Maharashtra initiated 'Aavishkar: Maharashtra State Inter-University Research Convention' in the academic year 2006-2007. Since 2006-2007 the University of Mumbai has started Aavishkar: Inter-Collegiate / Institute / Department Research Convention for its affiliated colleges, constituent colleges, recognized institutes and academic departments. The Convention is designed with the intention to develop a research culture and scientific temper among the students and research scholars. The activity will also help to develop skill, review new dimensions of explored areas of knowledge as well as the unexplored areas of enquiry. The University of Mumbai has a long tradition of 165 years with more than 852 colleges and over 9 lacs students studying in various academic departments, recognized institutes and affiliated and constituent colleges of the University. It shall be the collective responsibility of all of us to sensitize the students and teachers about the Convention and build confidence among the students to venture into research.

2. Objectives

- To identify the hidden innovative scientific talents and capacities of the students.
- To provide opportunities for inculcating research attitude in the students.
- To create academically sound youth by developing knowledge, skill and attitude of the research.
- To promote aptitude with emphasis on high standards of research and development activities for the benefit of the students.
- To explore the active student centred paradigm of education.
- To excel active learning standards of research.

- To develop personality and communication skills in the students.
- To produce a research scholars commensurate with the need of the future.
- To promote the interaction among the students for the exchange of various aspects of the research.
- To encourage the students to participate in research activities at inter-collegiate, district, University, state, zonal, national and international levels.
- To felicitate and recognize achievements of students by offering awards and honours.
- To provide financial assistance in the form of fellowships / scholarships to the selected researchers for the development of his/her innovative research.
- To provide conducive environment for the enhancement of entrepreneurial skills and incubate the valid research ideas.

3. Rules and Regulations –

A) Categories and Levels

Categories and Levels Students of the University of Mumbai are allowed to participate in any of the following category / discipline irrespective of their own discipline / course

Categories / Disciplines

Category 1: Humanities, Languages and Fine Arts

Category 2: Commerce, Management and Law

Category 3: Pure Sciences

Category 4: Agriculture and Animal Husbandry

Category 5: Engineering and Technology

Category 6: Medicine and Pharmacy

Students can participate in any of the above categories as per the levels whichever suits them as indicated below

Levels

Level 1: Undergraduate Students (UG)

Level 2: Postgraduate Students (PG)

Level 3: Post PG Students (PPG)

Level 4: In-service Teachers (TH)

B) Areas covered under each category

Category 1: Humanities, Languages and Fine Arts

It covers research areas like languages, social sciences, fine arts, education, humanities and other related fields which are of social interest like agricultural extension, preventive medicine and veterinary sciences, etc.

Category 2: Commerce, Management and Law

It covers research areas like commerce, accountancy, management, banking, insurance, law and other fields where these disciplines are applicable.

Category 3: Pure Sciences

It covers areas like all basic sciences, soil sciences, home sciences and other fields like biotechnology, microbiology, environmental sciences, life sciences, biochemistry, biophysics, bioanalytical, etc.

Category 4: Agriculture and Animal Husbandry

It covers areas like horticulture, agriculture, agronomy, entomology, fisheries, animal husbandry and other fields like biotechnology, microbiology, biophysics, biochemistry, bioanalytical chemistry, etc. where agricultural and animal husbandry aspects are covered.

Category 5: Engineering and Technology

It covers all branches of engineering and technology. It also includes computer science, information technology, agricultural engineering, food technology, dairy technology, biophysics, biomedical and biosensor, etc. where engineering and technology aspects are covered.

Category 6: Medicine and Pharmacy

It covers all branches of medicine and pharmacy. It also includes veterinary medicine, preventive medicine, epidemiology, clinical studies, etc.

C) The General Eligibility Criteria for Participation

1) The full time bonafide student enrolled in UG / PG / M.Phil. / Ph.D. / D.Sc. / D.Lit. Degree Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is eligible for the participation.

2) The student enrolled in UG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai subsequent to passing of 12th Class or HSC Examination or equivalent Examination is also eligible to participate in the UG level.

3) The student enrolled in PG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai which is of a minimum

duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai subsequent to passing of graduation is also eligible to participate in the PG level.

4) Student enrolled in correspondence course/programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is NOT eligible for the participation.

5) Casual student, external student and student pursuing certificate course/programme and bridge course/programme in the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai are NOT eligible for the participation.

6) Student enrolled in distance education programme/course of the University of Mumbai is NOT eligible for the participation.

7) Student having provisional admission in the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is NOT eligible for the participation.

8) Student can represent only that affiliated college / constituent college / recognized institute / academic department of the University of Mumbai where he/she is pursuing his/her degree / diploma.

9) The student shall NOT be allowed to represent more than 1 affiliated college / constituent college / recognized institute / academic department of the University of Mumbai during his/her current academic year.

10) Student shall have valid Identity Card of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai.

11) Student shall have PRN No. / Registration No. of the University of Mumbai.

12) Student migrating from other University can participate only when his/her admission is regularized and he/she gets admitted as a bonafide student in the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai.

13) Student from any discipline can participate in any of the above category to which his/her research project fits.

14) Any disqualification of a participant on the ground of General Eligibility Criteria may result in removal of the participant from the 'Aavishkar: Inter-Collegiate / Institute / Department Research Convention' to be held in the following three years including current year of the participation.

15) Ethics of research must be delicately observed by the student and his/her mentor.

D) Eligibility Criteria for Categories and Levels

1) The rules for each level are as follows

A. Undergraduate Students (UG)

i) A full time bonafide student enrolled in UG Degree Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is eligible for the participation.

ii) A student enrolled in UG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai subsequent to passing of 12th Class or HSC Examination or equivalent Examination is also eligible to participate in the UG level.

iii) The age of the student shall not be more than 25 years as on 30th September of the academic year in which the Convention is being held.

B. Post-Graduate Students (PG)

i) A full time bonafide student enrolled in PG Degree Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is eligible for the participation.

ii) A student enrolled in PG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai subsequent to passing of graduation is also eligible to participate in the PG level.

iii) The age of the student shall not be more than 30 years as on 30th September of the academic year in which the Convention is being held.

C. Post PG Students (PPG)

i) A student who has post graduate degree and is duly registered for M.Phil. / Ph.D. / D.Sc. / D.Litt. degree in the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is eligible for the participation.

ii) A student pursuing Post-doctoral Research in the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai is NOT eligible for the participation.

iii) A student who has submitted his/her synopsis / thesis for his/her M.Phil. / Ph.D. / D.Sc. / D.Litt. degree and his/her viva-voce examination is awaited, is also eligible for the participation.

iv) A student who has successfully completed his/her viva-voce examination for his/her M.Phil. / Ph.D. / D.Sc. / D.Litt. degree is NOT eligible.

v) There is no age limit for the PPG students.

2) Rules for Computing Years for UG and PG levels

- i) Not more than 7 years have elapsed since a student passed the examination qualifying him/her for first admission to a UG Degree or Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai.
- ii) Further, students can participate for 1 year more than the normal length of the academic programme which he/she is following.

Explanation

The restriction of participation to a period of one year more than the length/duration of the academic Programme means that student pursuing a three year degree programme (i.e. B.A, B.Sc., B.Com., etc.) can participate for four years, while a student pursuing four year degree programme (i.e. B.E., B. Tech., etc.) can participate for five years.

3) Rules for Computing Years for PPG level

Not more than 5 years have elapsed since a student was registered for the M.Phil. / Ph.D. / D.Sc. / D.Litt. programme of the affiliated college / constituent college / recognized institute / academic department of the University of Mumbai.

4. Mode of Convention/ Competition

1) The Convention shall be conducted in two modes

A) Poster and/or Model Presentation

- i) Every research project shall be presented in the form of Poster and/or Model.
- ii) The time for Poster and/or Model Presentation shall be 3 minutes followed by the discussion of not more than 3 minutes. However, there shall not be disqualification of the participant if the time exceeds.
- iii) The selected research projects shall be allowed for the Podium Presentation.

B) Podium Presentation

- i) The selected research projects shall be presented in the form of Podium Presentation.
- ii) Each research project shall be presented in a maximum of 7 minutes. A warning bell shall be given in the 6 th minutes. The participant has to finish the presentation in the given time. In case, if the time is exceeded, the research project shall be disqualified. However, 15 seconds grace period shall be allowed.
- iii) The presentation shall be followed by the discussion not exceeding more than 3 minutes.
- iv) In the discussion only Judges are allowed to ask the questions to the student participant.
- v) The results shall be announced at the Prize Distribution Ceremony.

2) Language of Presentation

The student participant shall present his/her research in Marathi or Hindi or English language.

Rounds in the Convention

The Convention shall be conducted in three rounds

1) College/Institute/Department Round

2) Zonal Round and Final Round

1) College/Institute/Department Round (Aavishkar: College Research Convention OR Aavishkar: Institute Research Convention OR Aavishkar: Department Research Convention)

i) Each Affiliated College of the University of Mumbai shall conduct Aavishkar: College Research Convention for their students OR Each Constituent College of the University of Mumbai shall conduct Aavishkar: College Research Convention for their students OR Each Recognized Institute of the University of Mumbai shall conduct Aavishkar: Institute Research Convention for their students OR Each Academic Department of the University of Mumbai shall conduct Aavishkar: Department Research Convention for their students.

ii) The College/Institute/Department shall conduct the Convention 20 days before the commencement of Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) of the University of Mumbai.

iii) The College/Institute/Department shall invite Panel of renowned Judges for the evaluation of the research projects in the Convention.

iv) The Convention shall be conducted in two modes

(A) Poster and/or Model Presentation and

(B) Podium Presentation.

v) Initially, every research project shall be presented in the form of Poster and/or Model. The time for Poster and/or Model Presentation shall be 3 minutes followed by the discussion with Judges of not more than 3 minutes. However, there shall not be disqualification of the participant if the time exceeds. The selected research projects shall be allowed for the Podium Presentation.

vi) The selected research projects shall be presented in the form of Podium Presentation. Each research project shall be presented in a maximum of 7 minutes. A warning bell shall be given in the 6th minutes. The participant has to finish the presentation in the given time. In case, if the time is exceeded, the research project shall be disqualified. However, 15 seconds grace period shall be allowed. The presentation shall be followed by the discussion with the Judges, not exceeding more than 3 minutes.

vii) Use of fireworks / arms / explosive materials at the venue of the Convention is strictly prohibited. However, if it is unavoidable for an exhibit, its imitation may be used with the prior permission of the Principal/Director/Head of the College/Institute/Department.

viii) The best research projects shall be given merits as First Rank / Second Rank / Third Rank / Consolation. The College shall honor the students securing First Rank / Second Rank / Third Rank / Consolation at the time of its Annual Prize Distribution by offering certificates and medal/trophy. The Recognized Institute OR Academic Department of the University of Mumbai shall organize

Special Prize Distribution Programme for these students.

ix) The College/Institute/Department shall select maximum 48 research projects from the Convention to depute to Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) of the University of Mumbai.

x) The College/Institute/Department shall invite Expert(s) to refine the selected research projects and enhance presentation skills. The College/Institute/Department may invite its own faculty or outside renowned person(s) in the concerned field as an Expert(s).

xi) Each College/Institute/Department shall depute maximum 48 research projects for the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) not exceeding more than 8 research projects in each level per category.

xii) If number of the research projects exceeds 48 (OR more than 8 in particular level) by the mistake of the College/Institute/Department then the right of the cancellation of concerned research project(s) shall be reserved with Director, Students' Development. Such cancelled research projects shall not be considered for declaration of merit at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round).

2) Zonal Round [Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round)]

i) The Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) shall be conducted on behalf of University of Mumbai at following different Zones.

ii) The Director, Students' Development may change the structure of the above mentioned zones by reviewing the participation in each zone and with the permission of the Board of Students' Development and shall communicate the revised structure of the zones to all Colleges/Institutes/Departments of the University of Mumbai in the beginning of the academic year.

iii) The Director, Students' Development shall approve the Schedule and Host Colleges/Institutes/Departments of the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) from the Board of Students' Development and communicate it to all Colleges/Institutes/Departments of the University of Mumbai in the beginning of the academic year. However, the Director, Students' Development may revise the Schedule and Host Colleges/Institutes/Departments because of changes in the schedule of examinations of the University of Mumbai or any unavoidable circumstances. The Director, Students' Development shall inform the revised 'Schedule and Host Colleges/Institutes/Departments' to all Colleges/Institutes/Departments of the University of Mumbai.

iv) The student(s) shall present his/her research project in the respective Zone only. However, if the student(s) fail(s) to present his/her research project in the respective Zone due to his/her

appearance/participation in the University examination/activity or college examination, then such student(s) shall be given a chance to present his/her research project in another Zone. In such case the concerned student(s) shall take prior permission of the Director, Students' Development through his/her/their Principal/Director/Head. If such research project is selected for Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) then for declaration of Zonal Championship the same project shall be considered in a Zone where the College/Institute/Department of the student(s) is located.

v) The Convention shall be conducted in two modes

(A) Poster and/or Model Presentation and

(B) Podium Presentation.

vi) Initially, every research project shall be presented in the form of Poster and/or Model. The time for Poster and/or Model Presentation shall be 3 minutes followed by the discussion with Judges of not more than 3 minutes. However, there shall not be disqualification of the participant if the time exceeds. The selected research projects shall be allowed for the Podium Presentation.

vii) The selected research projects shall be presented in the form of Podium Presentation. Each research project shall be presented in a maximum of 7 minutes. A warning bell shall be given in the 6th minutes. The participant has to finish the presentation in the given time. In case, if the time is exceeded, the research project shall be disqualified. However, 15 seconds grace period shall be allowed. The presentation shall be followed by the discussion with the Judges, not exceeding more than 3 minutes. In the discussion only Judges are allowed to ask the questions to the participant(s).

viii) Use of fireworks / arms / explosive materials at the venue of the Convention is strictly prohibited. However, if it is unavoidable for an exhibit, its imitation may be used with the prior permission of the Principal/Director/Head of the Host College/Institute/Department and/or Zone Co-ordinator and/or OSD, Aavishkar and/or Director, Students' Development, University of Mumbai

The best research projects from each category and level shall be selected for the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round). Names of the Students and details of such selected projects shall be declared at the Prize Distribution Ceremony.

3) Final Round [Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round)]

i) The Director, Students' Development shall approve the Schedule and Host Colleges/Institutes/Departments of the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) from the Board of Students' Development and communicate it to all Colleges/Institutes/Departments of the University of Mumbai in the beginning of the academic year. However, the Director, Students' Development may revise the Schedule and Host

Colleges/Institutes/Departments because of changes in the schedule of examinations of the University of Mumbai or any unavoidable circumstances. The Director, Students' Development shall inform the revised 'Schedule and Host Colleges/Institutes/Departments' to all Colleges/Institutes/Departments of the University of Mumbai.

ii) The best research projects selected from the Zonal Round shall be allowed to present in the Final Round.

iii) The Convention shall be conducted in two modes (A) Poster and/or Model Presentation and (B) Podium Presentation.

iv) Initially, every research project shall be presented in the form of Poster and/or Model. The time for Poster and/or Model Presentation shall be 3 minutes followed by the discussion with Judges of not more than 3 minutes. However, there shall not be disqualification of the participant if the time exceeds. The selected research projects shall be allowed for the Podium Presentation.

v) The selected research projects shall be presented in the form of Podium Presentation. Each research project shall be presented in a maximum of 7 minutes. A warning bell shall be given in the 6th minutes. The participant has to finish the presentation in the given time. In case, if the time is exceeded, the research project shall be disqualified. However, 15 seconds grace period shall be allowed. The presentation shall be followed by the discussion with the Judges, not exceeding more than 3 minutes. In the discussion only Judges are allowed to ask the questions to the participant(s).

vi) Use of fireworks / arms / explosive materials at the venue of the Convention is strictly prohibited. However, if it is unavoidable for an exhibit, its imitation may be used with the prior permission of the Principal/Director/Head of the Host College/Institute/Department and/or OSD, Aavishkar and/or Director, Students' Development, University of Mumbai.

vii) The best research projects shall be given ranks (First Rank / Second Rank / Third Rank / Consolation) based on the merit. The said ranks shall be declared at Prize Distribution Ceremony.

viii) First three winning research projects (First Rank, Second Rank and Third Rank) from UG and PG level and first two winning research projects (First Rank and Second Rank) from PPG level from each category shall be deputed to Aavishkar: Maharashtra State Inter-University Research Convention. However, only one student from the team shall represent the University of Mumbai for the Aavishkar: Maharashtra State Inter-University Research Convention. Such student from the team shall be selected by the Expert Panel of the University of Mumbai.

ix) In case, if the selected student withdraws his/her participation under unavoidable circumstances / valid reason then the opportunity shall be given to another student of the same team. The University of Mumbai reserves the right of selection of another student for Aavishkar: Maharashtra State Inter-University Research Convention. Such student from the same team shall be selected by the Expert Panel of the University of Mumbai. In case, if the whole winning team

withdraws their participation under unavoidable circumstances / valid reason, then the opportunity shall be given to the next team in the order of merit. The University of Mumbai reserves the right of replacing research project(s) to be deputed for Aavishkar: Maharashtra State Inter-University Research Convention. However, the merit / rank of such project(s) declared at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) as well as Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) shall remain the same and shall be counted for Zonal Championship / Category-wise Championship / Overall Second Runner-up Championship / Overall Runner-up Championship / Overall Championship.

x) In case, in a particular level of category if there is no participation of students then the Director, Students' Development shall nominate the new research project in discussion with Expert Panel and OSD, Aavishkar. In case, in a particular level of category, there is no suitable research project, then University reserves the right to depute any other appropriate research project to Aavishkar: Maharashtra State Inter-University Research Convention. In such case, the Director, Students' Development shall nominate such research project in discussion with Expert Panel and OSD, Aavishkar.

5. Awards/ Honours and Scholarships

1. Selection Round

Certificate of Participation

Every participant and his/her mentor will receive the e-Certificate of Participation.

Certificate of Merit

The participants and their mentors whose research proposals are qualified for Final Round will receive the e-Certificate of Merit.

Zonal / District Championship

Certificate for Zonal / District Championship will be given to the College / Recognized Institute / University Department whose maximum research proposals are qualified from the particular Zone / District for Final Round.

2. Final Round

Certificate of Participation

Every participant and his/her mentor will receive the e-Certificate of Participation.

Certificate of Merit

The participants and their mentors whose research proposals secured First Rank, Second Rank, Third Rank and Consolation shall receive the e-Certificate of Merit.

Category-wise Championship Certificate for the Category-wise Championship will be given to

the College / Recognized Institute / University Department scoring maximum points in a particular category. The calculation of the points shall be done on the basis of 3 points for First Rank, 2 points for Second Rank and 1 point for Third Rank. Overall Championship Rotating Overall Championship Trophy and Certificate shall be given to the College / Recognized Institute / University Department who scores maximum points at the Final Round. The calculation of the points shall be done on the basis of 3 points for First Rank, 2 points for Second Rank and 1 point for Third Rank.

Overall Runner Championship Rotating Overall Runner Championship

Trophy and Certificate shall be given to the College / Recognized Institute / University Department who scores second best maximum points at the Final Round. The calculation of the points shall be done on the basis of 3 points for First Rank, 2 points for Second Rank and 1 point for Third Rank.

Overall Second Runner Championship Rotating

Overall Second Runner Championship Trophy and Certificate shall be given to the College / Recognized Institute / University Department who scores third best maximum points at the Final Round. The calculation of the points shall be done on the basis of 3 points for First Rank, 2 points for Second Rank and 1 point for Third Rank.

Ten Grace Marks

All the participants securing First Rank, Second Rank and Third Rank from every level of each category shall be awarded with ten grace marks as per University Ordinance 0.229 after completion of the necessary formalities by the Examination Cell of the College / Recognized Institute / University Department / University of Mumbai. The Teacher Co-ordinator and/or concerned participant/s should download the Letter of Award for 10 Grace Marks from the website www.unimumbaidsd.com and complete the formalities as per the circular to be issued by Director, Students' Development in this concern.

Aavishkar: Maharashtra State Inter-University Research Convention

- i) Aavishkar: Maharashtra State Inter-University Research Convention is organized every year for all State Universities in the Maharashtra by the Office of Hon'ble Governor, Raj Bhavan, Mumbai.
- ii) As per Revised Guidelines for the Conduct of Aavishkar: Maharashtra State Inter-University Research Convention issued by the Office of Hon'ble Governor, Raj Bhavan, Mumbai, the University of Mumbai deposes 48 research projects to Aavishkar: Maharashtra State Inter-University Research Convention. It includes 6 categories and 3 levels as mentioned above in Point No. 3. The University of Mumbai deposes 3 research projects in UG level, 3 research projects in PG level and 2 research projects in PPG level in each category. The University deposes only one

student per research project. iii) The contingent of the University of Mumbai shall follow the instructions given by Director, Students' Development / OSD, Aavishkar / Team Manager(s) / Staff of the Department of Students' Development time to time.

iv) It is obligatory for the selected student(s) to make themselves available for the grooming sessions, rehearsal sessions and Aavishkar: Maharashtra State Inter-University Research Convention, failing which their prizes bagged at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) and/or Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) shall be cancelled and his/her/their performance at the Convention may be considered as null and void. Such student and his/her/their College/Institute/Department shall be liable for appropriate disciplinary action as decided by the Board of Students' Development.

v) In the State level, the Convention shall be conducted in two modes

(A) Poster and/or Model Presentation and

(B) Podium Presentation.

vi) Initially, every research project shall be presented in the form of Poster and/or Model. The time for Poster and/or Model Presentation shall be 3 minutes followed by the discussion with Judges of not more than 3 minutes. However, there shall not be disqualification of the participant if the time exceeds. The selected research projects shall be allowed for the Podium Presentation.

vii) The selected research projects shall be presented in the form of Podium Presentation. Each research project shall be presented in a maximum of 7 minutes. A warning bell shall be given in the 6th minutes. The participant has to finish the presentation in the given time. In case, if the time is exceeded, the research project shall be disqualified. However, 15 seconds grace period shall be allowed. The presentation shall be followed by the discussion with the Judges, not exceeding more than 3 minutes. In the discussion only Judges are allowed to ask the questions to the participant.

6. Certificate of Participation

1) Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) i) Certificate of Participation Every student participant and his/her mentor of the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) shall get the digital Certificate of Participation from the University of Mumbai.

ii) Certificate of Merit Every student participant and his/her mentor whose research project is selected for Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) shall get the digital Certificate of Merit from the University of Mumbai.

iii) Trophy and Certificate for the Zonal Championship Trophy and Certificate for the Zonal Championship shall be given to the College/Institute/Department whose maximum research projects are selected for Aavishkar: Inter-Collegiate / Institute / Department Research Convention

(Final Round). If the student participant of one Zone participates in another Zone under certain circumstances, his/her merit shall be considered for the Zone to which his/her College/Institute/Department belongs.

2) Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round)

i) Certificate of Participation Every student participant and his/her mentor of the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) shall get the Certificate of Participation from the University of Mumbai.

ii) Certificate of Merit and Medal Every student participant and his/her mentor whose research project secured merit (First Rank / Second Rank / Third Rank / Consolation) at the Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) shall get the Certificate of Merit from the University of Mumbai. The same student participants shall also get Gold, Silver and Bronze medal for First Rank, Second Rank and Third Rank respectively. iii)

Trophy and Certificate for the Category-wise Championship The Trophy and Certificate for the Category-wise Championship shall be given to the College/Institute/Department scoring maximum points in the particular category. iv) Trophy and Certificate for the Overall

Championship Rotating Trophy and Certificate for the Overall Championship shall be given to the College/Institute/Department scoring maximum points at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round). v) Trophy and Certificate for the

Overall Runner-up Championship Rotating Trophy and Certificate for the Overall Runner-up Championship shall be given to the College/Institute/Department scoring second best maximum points at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round).

vi) Trophy and Certificate for the Overall Second Runner-up Championship Rotating Trophy and Certificate for the Overall Second Runner-up Championship shall be given to the College/Institute/Department scoring third best maximum points at Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round). vii) Allocation of Points for

Championship The points for the declaration of Category-wise Championship, Second Runner-up Championship, Runner-up Championship and Overall Championship shall be 5 for First Rank, 3 for Second Rank and 2 for Third Rank. viii) Ten Grace Marks/Equivalent Credits All student

participants securing First Rank, Second Rank and Third Rank from every level of each category shall be awarded with ten grace marks/equivalent credits as per University Ordinance 0.229 after

completion of the necessary formalities by the Examination Cell of the concerned College/Institute/Department OR Examination Section of the University of Mumbai. The Teacher Co-ordinator and/or concerned participant(s) shall download the Letter of Award of 10 Grace

Marks from the portal available on www.unimumbaidsd.com and complete the formalities as per the circular issued by the Director, Students' Development in the month of March/April of the

current academic year.

Aavishkar: Maharashtra State Inter-University Research Convention

- i) **Blazer** Every student participant selected for Aavishkar: Maharashtra State Inter-University Research Convention, Team Managers and Experts of the University of Mumbai shall be provided a Blazer with a Crest of University Logo by the University of Mumbai. Aavishkar: Inter-Collegiate / Institute / Department Research Convention Department of Students' Development, University of Mumbai 39
- ii) **Certificate of Participation** Every student participant of the University of Mumbai who participated in Aavishkar: Maharashtra State Inter-University Research Convention and his/her mentor are awarded the Certificate of Participation from the Host University on behalf of Raj Bhavan, Office of Hon'ble Governor of the Maharashtra.
- iii) **Certificate of Merit and Medal/Trophy** Every student participant of the University of Mumbai whose research projects secured First Rank, Second Rank and Third Rank in UG level, First Rank, Second Rank and Third Rank in PG level and First Rank and Second Rank in PPG level at Aavishkar: Maharashtra State Inter-University Research Convention are awarded the Certificate of Merit and Medal/Trophy from the Host University on behalf of Raj Bhavan, Office of Hon'ble Governor of the Maharashtra. The mentors of all these students shall get the Certificate of Merit.
- iv) **Cash Prizes** The details of cash prizes for Aavishkar: Maharashtra State Inter-University Research Convention are as follows
UG Level:
 - 1 st Rank: Rs. 5000/-
 - 2 nd Rank: Rs. 3000/-
 - 3 rd Rank: Rs. 2000/-**PG Level:**
 - 1 st Rank: Rs. 5000/-
 - 2 nd Rank: Rs. 3000/-
 - 3 rd Rank: Rs. 2000/-**PPG Level:**
 - 1 st Rank: Rs. 5000/-
 - 2 nd Rank: Rs. 3000/-
- v) **The Trophy and Certificate for the Category-wise Championship**

The Trophy and Certificate for the Category-wise championship are awarded to the University scoring maximum points in the particular category.
- vi) **The Trophy and Certificate for the Overall Championship**

The Trophy and Certificate for Overall Championship are awarded to the University scoring maximum points in Aavishkar: Maharashtra State Inter-University Research Convention.

vii) The Trophy and Certificate for the Overall Runner-up Championship

The Trophy and Certificate for Overall Runner-up Championship are awarded to the University scoring second best maximum points in Aavishkar: Maharashtra State Inter-University Research Convention..

viii) Fellowship

a) Fellowship are awarded to the students secured First Rank, Second Rank and Third Rank in UG level, First Rank, Second Rank and Third Rank in PG level and First Rank and Second Rank in PPG level at Aavishkar: Maharashtra State Inter-University Research Convention.

b) It is awarded to the students secured First Rank, Second Rank and Third Rank in UG level for 1 year, First Rank, Second Rank and Third Rank in PG level for 1 year and First Rank and Second Rank in PPG level for 2 years.

c) The fellowships are

UG Level:

1 st Rank: Rs. 35,000/-

2 nd Rank: Rs. 30,000/-

3 rd Rank: Rs. 25,000/-

PG Level:

1st Rank: Rs. 35,000/-

2nd Rank: Rs. 30,000/-

3rd Rank: Rs. 25,000/-

PPG Level:

1st Rank: Rs. 1,20,000/-

2nd Rank: Rs. 1,00,000/



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND
M.H. MEHTA SCIENCE COLLEGE, PALGHAR**

Palghar, Dist. – Palghar, Pin – 401 404, E – Mail: sdscollege@yahoo.com

Annual Report of Avishkar Committee –2022-23

1. Name of the Committee: Avishkar Research Convention

2. Formation of the Committee

Sr. No.	Name of the Teacher	Designation in the Committee
1	Dr. Manish Deshmukh	Zonal Coordinator
2	Dr. Sapna Jadhav	College Coordinator
3	Mrs. Bhakti Raut	College Co-coordinator
4	Mr. Vivek Kudu	Member
5	Lt. Anagha Padhye	Member
6	Dr. Dilip Yadav	Member
7	Mr. Ramdas Yede	Member
8	Ms. Shreya Mishra	Member
9	Mr. Bhushan Bhoir	Member
10	Mrs. Shailaja Palan	Member
11	Mrs. Rashmi Varade	Member
12	Mr. Harshal Chaudhari	Member
13	Mr. Tejas Chaudhari	Member

3. Activities undertaken by Avishkar Committee* (**Annexure-1** of each activity)

Sr. No.	Name of the Activity	Date	Participation
1	Workshop on Avishkar Research Competition	30/07/2022	120
2	Mentoring Session	Weekly	Around 25

(*Workshops, University Workshops, Mentoring Sessions, Project Guide/Expert Session)

4. Details of participation of students in Avishkar events in the year* 2022-23.

Sr. No.	Level	Date	Participation	Shortlisted for the final round	Winners
1	Zonal level		30	12	3
2	Intercollegiate level		12	3	1
3	State level		1	1	1

*(Zonal, University & State level)

5. Success story:

6. Photographs of the event

7. List of participants (With college seal and stamp)

Annexure-1
Activity Report of Avishkar

Workshop on Avishkar Research Convention

Date : _____
Hall

Venue : BMS Seminar

1. About Avishkar Committee:

The purpose of initiating the organization of “Avishkar” every year by the Chancellor’s office is to provide a platform for youth from the various Universities and extending the helping hands to understand the research attitude and acquiring the scientific knowledge thus transforming for the cause of development. This will also educate youth and teachers to understand their responsibility towards societal development. Through this activity, the Research culture should be created amongst the students of our institute, with this view of our institute had formed a special committee for Avishkar Research Convention 2022-23 under the view of the college co-ordinator Dr. Sapna B. Jadhav (Asst. Professor, Department of Physics) and Zonal co-ordinator Dr. Manish M. Deshmukh (Asst. Professor, Department of Commerce). Avishkar research Committee members guided and motivated students after pandemic situation to keep the temperament of the students to participate in Avishkar Research Convention.

2. Brief description about the activity:

After pandemic circumstances, it is difficult to motivate students for participation Avishkar Research Convention as per regular mode. Through the online workshop, we have demonstrated the new format of the convention, the rules/regulation and different rounds of 15th State level Avishkar Research Convention. Also, we have provided the guidelines to present research proposals presentation.

3. Attendance report of activity conducted:

Separate PDF attached of scan copy of attendance

4. Activity Photos:

A) Invitation Mail

B) Photo of Workshop



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE
AND M. H. MEHTA SCIENCE COLLEGE**

Tal. Palghar, Dist. Palghar, Pin - 401 404.

Code.: (02525) 252163, Prin : 252317 • Resi.: 252316

website : www.sdsmcollege.com • Email: sdsmcollege@yahoo.com

Ref. No. :

Date : 26th July, 2022

To
Dr. Minakshi Gurav
Associate Professor
D.G. Ruparel College of Arts, Science and Commerce

**Subject: An invitation as an Expert Speaker in State level Avishkar Research Convention
Competition**

Respected Madam,

As per the telephonic conversation with you regarding to your talk as an Expert speaker in **State level Avishkar Research Convention Competition**, I would like to extend my invitation for the same on 30th July, 2022.

I would like to give the brief introduction of the Institution. The founder visionaries established the institution on 14th August, 1968 with a dream of providing higher education to tribal area, especially for Adivasi and Women folk in the vicinity of the Thane district. (Now Palghar District).The dream came true in June, 1970 in the form of 'Sonopant Dandekar Arts, V. S. Apte Commerce College' in the name of philosopher saint and son of the soil Late Sonopant Dandekar.

Sonopant Dandekar Shikshan Mandali's College will be holding seminar on State Level Avishkar research convention competition. On behalf of S.D.S.M. College, Palghar, I would like to cordially invite you to our college for guidance on Avishkar Research competition.

I would be grateful if you took part on this occasion and shared your expertise on the topic with our participants. Your knowledge would be an excellent addition to our program.

We hope you would be able to fit this event in your busy schedule. I would be honored if you decide to take part on this occasion. Please do not hesitate to contact me if you have any query.

Looking forward to your acceptance hear back from you.

Thanking you,

Yours sincerely,

(Dr. Kiran Save)



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE
AND M. H. MEHTA SCIENCE COLLEGE**

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Looking forward to your acceptance hear back from you.

Thanking you,

Yours sincerely,

(Dr. Kiran Save)



Sonopant Dandekar Shikshan Mandali's
Sonopant Dandekar Arts, V. S. Apte Commerce &
M. H. Mehta Science College, Palghar-401404

Organizes

“Workshop on Avishkar Research Competition”

30th July, 2022

Resource Person

Dr. Minakshi Gurav

OSD of Avishkar Research Convention, University of Mumbai

Ruparel College, Mumbai



Sonopant Dandekar Shikshan Mandali's
**SONOPANT DANDEKAR ARTS, V.S.APTE COMMERCE
AND M.H.MEHTA SCIENCE COLLEGE,**
Palghar, Dist.- Palghar, Pin- 401 404.
☎ Code No. 02525- 252163, Prin.: 252317 Resi. : 252316
Post Box No.: 02, E-mail: sdscollege@yahoo.com

WORKSHOP

ON

“State Level Avishkar Research Convention Competition”

Notice

All HOD's, mentors of Avishkar competition projects and students are hereby informed that our senior college has organized workshop for guidance on **“State Level Avishkar Research Convention Competition.”**

Resource Person: Dr. Minakshi Gurav

Date: 30th July, 2022

Time: 1.00 - 2.30 p.m.

Venue: BMS Seminar Hall.

P.S.: Attendance for all is mandatory

Avishkar Competition Co-ordinator

Mrs. Sapna B. Jadhav

Principal

PRINCIPAL
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-401404



Sonopant Dandekar Shikshan Mandali's
Sonopant Dandekar Arts, V. S. Apte Commerce &
M. H. Mehta Science College, Palghar

Organizes

“Workshop on Avishkar Research Competition”

30th July, 2022

PROGRAMME (Dated : 30th July, 2022)

12.30 p.m. : Arrival of the Guests

12.30 p.m. to 01.00 p.m. : LUNCH

Welcome (01:00 to 01.10 pm)

In Chair (Chief Guest)

Prof. Minakshi Gurav,

Ruparel College, Mumbai

01.10 p.m. to 01.15 p.m. : Introduction of the Programme Ms. Harshita Shenoy

01.15 p.m. to 01.20 p.m. : Felicitation

01.20 p.m. to 01.25 p.m. : Welcome Speech Principal Dr. Kiran Save

01.25 p.m. to 01.30 p.m. : Introduction of Resource Person Avishkar College Co-
Ordinator

Mrs. Sapna B. Jadhav

Programme

01.25 p.m. to 02.50 : Guidance on Avishkar Research At the hands of

p.m. Competition **Dr. Minakshi Gurav**

02.00 p.m. to 02.10p.m. : Vote of Thanks

Lt. Anagha Deshmukh

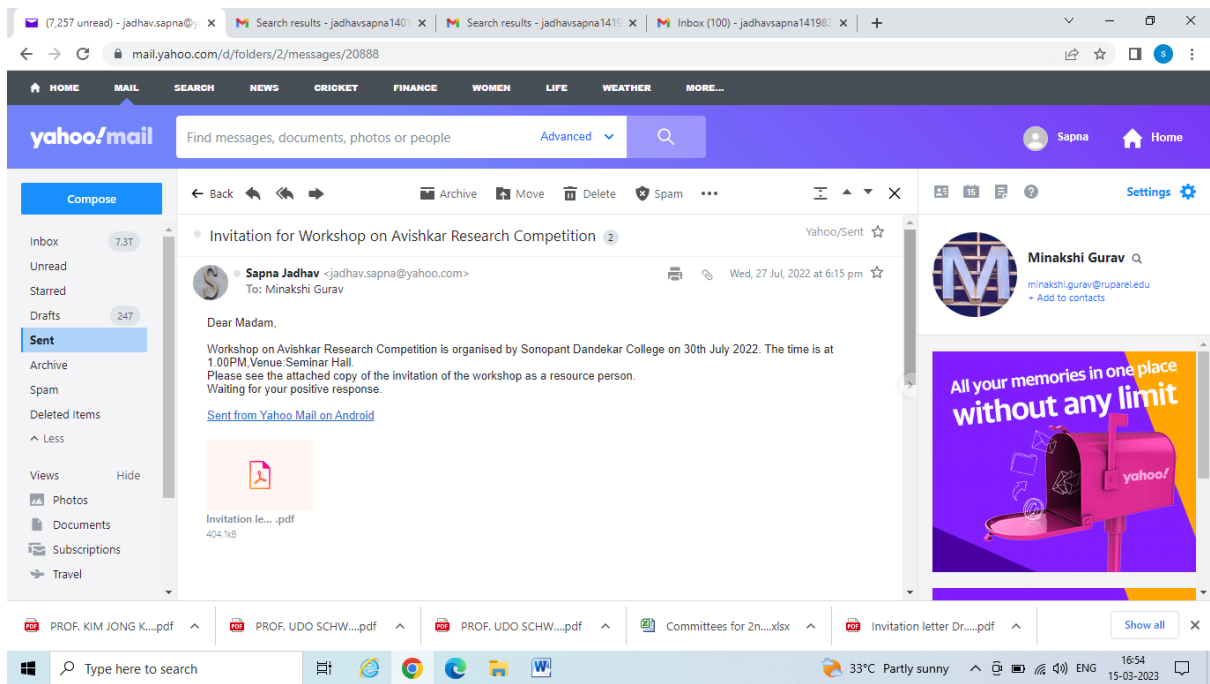


Photo of Workshop









Sonopant Dandekar Shikshan Mandal's

**SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND
M.H. MEHTA SCIENCE COLLEGE, PALGHAR**

Palghar, Dist – Palghar, Pin – 401 404, E – Mail: sdscollege@yahoo.com

Year wise consolidated Report of Avishkar competition

Sr. No.	Title	Name of the Student	Name of the Mentor	category	level	Zonal /Inter collegiate	link/photo of presentation/poster
1	Remote Monitoring System	Yadnesh Harad	Dr. Sapna Jadhav	Pure Science	UG	State Level	Poster: https://drive.google.com/file/d/17uofgJcM1lpeuE8AYPIQ9HzT89x0RxLh/view?usp=share_link PPT: https://docs.google.com/presentation/d/1vEZZXrYvQa_2hR7yXHTDg_C9yZuOwGqY/edit?usp=share_link&oid=115741290271181653586&rtpof=true&sd=true
2	Animal Intrusion Detection device using IoT	1.Raut Khushi Santosh 2.Patil Yash Hemant 3.Jaiswal Krishna Vinod 4.Jaiswal Krishna Vinod	Mrs. Bhakti Raut	Engineering and Technology	UG	Zonal	https://drive.google.com/drive/folders/1oQOof2n7KqRkIm30kWeHAOU96OIBZdG?usp=share_link
3	LUMINATING BOTTLE BY USING IOT	1.Pawar Priyanka Sambhaji 2.Shrivastav Aditi Amresh kumar		Engineering and Technology	UG	Zonal	https://drive.google.com/drive/folders/1oQOof2n7KqRkIm30kWeHAOU96OIBZdG?usp=share_link

		3.Kothari Dhrutika Bhushan 4.Vishwak arma Isha Mahendra					
4	IOT BASED RADAR DETECTIO N USING ARDUINO	1.Dandeka r Siddique Saqib 2.Bafna Aanchal Sagar 3.Bhirud Khushbu Pramod		Enginee ring and Technol ogy	UG	Zonal	https://drive.google.com/drive/folders/1oQOof2n7KqRkIm30kWeHAOU96OIBZdG?usp=share_link
5	Personal Security Guard(PSG)	Khatik Chetan Kishan		Enginee ring and Technol ogy	UG	Zonal	https://drive.google.com/drive/folders/1oQOof2n7KqRkIm30kWeHAOU96OIBZdG?usp=share_link
6		Harshal Kudu		Pure Science	PG	Zonal	PPT: https://drive.google.com/file/d/1Scgz6i34v0fSpqYzWNHJOcGWqpyMqSfE/view?usp=drivesdk Poster : https://drive.google.com/file/d/1Se8kdhRU6J4V8MvaNCNZvOvIRLzonNa6/view?usp=drivesdk
7	Demystifyin g Women Shopping Behaviour Pre and Post Covid	Mitali Sankhe	Dr. Manish Deshmu kh	Commer ce , Manage ment & Law	PPG	Zonal Level	PPT: https://docs.google.com/presentation/d/1qP8VcmZa_d1vEqxk-

	19 in Palghar						h3HwmPPQy4ruA38/edit?usp=share_link&oid=106178760019501495124&rtpof=true&sd=true
8	Nanoparticle based biofilter using carbonised coconut husk for effluent water treatment	Sarath Nair/ Arun Nair		Pure science	PG	Zonal	<p>PPT: https://docs.google.com/presentation/d/1I3ZXXzEIgUICSUcjpCiqY-JcatKB3YXz/edit?usp=drivesdk&oid=105171957795022186338&rtpof=true&sd=true.</p> <p>Poster: https://docs.google.com/presentation/d/1I364FgV3O_lq5Xukv5fjME7UnDLPetu/edit?usp=drivesdk&oid=105171957795022186338&rtpof=true&sd=true</p>
9	FLOOR CLEANING ROBOT USING IoT	Samruddhi Save Ishwary Sabale		Engineering and Technology	PG	Zonal	<p>Poster: https://drive.google.com/drive/folders/1vnQtKQtN-S6D8VcYiIGVneqKNc</p>

							WRA_Qu PPT: https://drive.google.com/drive/folders/1vnQtKQtN-S6D8VcYiIGVneqKNcWRA_Qu?usp=share_link
10	Biorise - A perfect Agri-solution	Gautam Kishan , Sonelal Prajapati		Pure Science	PG	Intercollegiate Level	PPT: https://drive.google.com/file/d/1z13s1VcUnCT1KVJsPxn9K7imhz3y9FFK/view?usp=drivesdk Poster: https://docs.google.com/presentation/d/1zluKAD4MBIcPUz2DFDIt02hPi0RrTATR/edit?usp=drivesdk&ouid=109954156532049360653&rtpof=true&sd=true
11	Synthesis of Bio-adsorbent for dye removal	Bhavesh jain/Om Prajapati/VaniDatt Rai	Dr. Shaileja Palan	Pure Sciences	PG	Intercollegiate	(PPT) https://docs.google.com/presentation/d/1J7Dm8V5E9w0NtKoVA7vqpYjvYd9WhmvTxCPYIsy0K6c/edit?usp=drivesdk poster:

							https://docs.google.com/presentation/d/1mEnEiWYQWe2zWfWhAPqqXWMcig14br4N/edit?usp=drivesdk&oid=116017194271406279112&rtpof=true&sd=true
12	Plant Monitoring System	Ram Mishra, Deep kadu, Sumedh Ugarkar, Kshitij Singh, Aniket Raut -	Ms. Tejal	Engineering and Technology	UG	Zonal	(PPT)- https://drive.google.com/file/d/1C4X7BvzYIEWYYjafFK62McEJ_qV8r1he/view?usp=sharing (Poster)- https://drive.google.com/file/d/1Dbb0Wtt_fXUNniNZ-JNUkG0ifzHxqIX/view?usp=sharing
13	Phyllanthus Emblica- A Rich Source Of Antimicrobial And Antioxidant Phytochemicals	Mansi Raut, Alaknanda E, Aakansha Bahere-	Ishwari Mehta	Medicines and Pharmacy	UG	Intercollegiate	Poster: https://drive.google.com/file/d/1TY7UWNukhMlr6WNYfbWID3DVqjfM7G5X/view?usp=drivesdk PPT(Zonal) https://docs.google.com/presentation/d/1PyAOaFoPI_yrlkq0R1gTbX2qb0WLTVMme/edit?usp=drivesdk&oid=110490727616736278699&rtpof=true&sd=true PPT(Intercollegiate) https://drive.google.com/file/d/1rai5cVg0GG

							WoWv4qPzVbLiMpJ1o2HxcN/view?usp=drivesdk
14	Risk Assessment of Adolescents for Diabetes	Priyanka Dhangada/ Tanvi Jadhav/ Varsha Gite	Jobin George	Humanities, Languages and Fine Arts	UG	Intercollegiate Level	Poster: https://docs.google.com/presentation/d/1Gji8VxnRUSFaC6_RMgNbIMqslsDkx5vc/edit?usp=share_link&oid=118123051129671019654&rtpof=true&sd=true PPT: https://docs.google.com/presentation/d/1VsqfqK-8jHT6V90nWrZMRCnfHvD3rcCV/edit?usp=share_link&oid=118123051129671019654&rtpof=true&sd=true
15	Post covid childhood obesity and related health	Arpita Atmaram Kini, Aabha Manojkumar Singh, Alok Shivshankar Tiwari -	Dr. Harshad Vanmali	Humanities, Languages and Fine Arts	PG	Intercollegiate Level	Zonal Level -Poster https://drive.google.com/file/d/1q9SdY7oHVOf1f2KTvQAfPYI6OG1qRYKM/view?usp=drivesdk PPT: https://1drv.ms/p/s!AjY6RDk-z-0_qTTYfNUXsfuiySB1 Intercollegiate Level – (Poster) https://drive.google.com/file/d/1q5XALWU2ezwZ5WME6WeI90VDhUBGxYQ0/view?usp=drivesdk PPT: https://1drv.ms/p/s!AjY6RDk-z-0_qTTYfNUXsfuiySB1
16	Herbal Aids to Protect the User Against the Common Pathogens	Omkari Potdar, Surabhi Rane -	Tejes Chaudhary	Pure Science	PG	Zonal Level	Zonal Level: Ppt https://docs.google.com/presentation/d/1Ry63dmJ1njRI3o0piRRdEn_NK_oud4jH/edit?usp=drivesdk&o

							uid=118152439393273300035&rtpof=true&sd=true Poster :https://drive.google.com/file/d/1S0voanqksq3QRCThwS04Rib9LccdQp9w/view?usp=drivesdk
17	Anti-microbial Activity of Natural Deep Eutectic Solvent (DES) of Eugenol and Cetrimide	Sahili sudhakar shivgan/Ga uri Narendra Dhanmehe r/ aniket rajendra patil -	Dr. Dilip Yadav	Pharmacy	PG	Zonal	PPT: https://drive.google.com/drive/folders/1lo9rp_dv5YbMQh_syzUAHjOcasio8h6V?usp=share_link POSTER: https://drive.google.com/drive/folders/14vni-icv9xCKzewwrfHzBoiWSDBIR1mZ?usp=share_link
18		Manasvi Mali/Unnat Vekhande/ Shaziya Shaikh -	Mrs. Dipali Mali	Humanities, Languages and Fine Arts	UG	Zonal level	PPT: https://docs.google.com/file/d/1pEJrewio0vHEGCTBzcEYNCCDrWsUOXQd/edit?usp=doclist_api&filetype=mspresentation POSTER: https://drive.google.com/file/d/1bpR3wWPII8QQi7G6w2NtJg9r9U9fuUfy/view?usp=drivesdk
19	Binge (web series) watching in new era	Surbhi Pawar/ Samiksha Palkar/Jeet	Archana Pawar	Humanities, Language and	UG	Zonal	PPT: https://docs.google.com/presentation/d/1Kot3v_IT8V42SJ0gbc

		Thakur/ Gaurav Rajwadi-		Fine Arts			vod867UJqgg7Cr/edit?usp=share_link&oid=100206788533971736188&rtpof=true&sd=true POSTER: https://docs.google.com/presentation/d/1EuXr_ANr4I7zH0ELbErDHQPsjETOj9a6/edit?usp=share_link&oid=100206788533971736188&rtpof=true&sd=true
20		Ms Babita More, Anjali Patil, Panke sh Shingada, Mayuri Raul	Hrushik esh Deokar	Pure Science s	PG	Inter colle giate	PPT: https://drive.google.com/drive/folders/1bPIHAIYKiv4mVGDDpyiuS59hBktHXAPs?usp=sharing

Success Story

University of Mumbai 15th State Level Avishkar Research Convention 2022-23

The convention is designed with the intention to develop a research culture and scientific temper among the students, scholars and teachers from undergraduate to doctoral level in the state of Maharashtra. It is a matter of great pride for the youth of the Maharashtra State that, the Office of the Chancellor has initiated four major events in the interest of the student community in various fields. The Avishkar, a State Level Inter-University Research Convention is one of the most prestigious events among those. The purpose of initiating the organization of “Avishkar” every year by the Chancellor’s office is to provide a platform for youth from the various Universities and extending the helping hands to understand the research attitude and acquiring the scientific knowledge thus transforming for the cause of development. This will also educate youth and teachers to understand their responsibility towards societal development.

Through this activity, the Research culture should be created amongst the students of our institute, with this view of our institute had formed a special committee for Avishkar Research Convention 2022-23 under the view of the college co-ordinator Dr. Sapna B. Jadhav (Asst. Professor, Department of Physics) and Zonal co-ordinator Dr. Manish M. Deshmukh (Asst. Professor, Department of Commerce).

The Inter collegiate Avishkar Research Convention 2022-23 was scheduled on 11th December, 2022 for our college zone i.e. Zone V. The committee members has guided and motivated to our student of different categories for UG, PG and PPG levels for 15th Avishkar research convention 2022-23. About 35 groups of various streams from our college participated in the Research convection with their innovative ideas. Almost 12 Projects won the gold medal at zonal level from various categories at different levels under the guidance of college mentors. Our institute won three projects at the intercollegiate level competition. In which, one Gold medal under the title of “**SMARTLAB INNOVATOR**” in pure science at UG level, Bronze medal under the title of “महाविद्यालयीन विद्यार्थांचा बोलिविषयक दृष्टीकोन आणि तो संविधित करण्याचा उपाययोजना” in Humanities, Languages and Fine Arts at PPG and Consolated prize under the title of “**POST COVID CHILDHOOD OBESITY AND RELATED HEALTH PROBLEMS IN PALGHAR**” at PPG level.

It's historical moment for our institute, for the first time in the history of institute, a student Yadnesh Harad (T. Y. B.Sc. Physics) won Gold Medal at 15th State Level Avishkar Research Convention under the guidance of Teacher mentor Dr. Sapna Bakul Jadhav and herself was champion of 14th State Level Avishkar Research Convention. He had presented project with working model in Pure Science category of undergraduate (UG) level, under the title on “**SMARTLAB INNOVATOR**”.

Photos of Success story







संशोधनातून विकास साधणारा



वैद्यक शास्त्र आणि औषधशास्त्र विभाग

नैसर्गिक लिग्नीनपासून रबर निर्मिती



रबर संशोधनासाठी अनेक प्रकारचे रसायने वापरण्यात येतात. त्यातून रबर तयार करणे हे अतिशय महत्त्वाचे काम आहे. त्यासाठी अनेक प्रकारचे रसायने वापरण्यात येतात. त्यातून रबर तयार करणे हे अतिशय महत्त्वाचे काम आहे. त्यासाठी अनेक प्रकारचे रसायने वापरण्यात येतात.

अभियांत्रिकी आणि तंत्रज्ञान विभाग

विजेची बचत शक्य



विजेची बचत शक्य आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून विजेची बचत शक्य आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.

वायुफाय होणार अधिक सुरक्षित



वायुफाय होणार अधिक सुरक्षित आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून वायुफाय होणार अधिक सुरक्षित आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.

मानव्यविद्या, भाषा आणि कला विभाग

रुढी परंपरांबाबतची सत्यता



रुढी परंपरांबाबतची सत्यता आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून रुढी परंपरांबाबतची सत्यता आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.

आविष्कार

अलीकडे सावित्रीबाई फुले पुणे विद्यापीठ येथे राज्यस्तरीय आंतरविद्यापीठीय 'आविष्कार' संशोधन स्पर्धेचे आयोजन करण्यात आले होते. या स्पर्धेचे हे १५वें वर्ष होतं. राज्याभरतील २२ विद्यापीठांनी यात सहभाग नोंदवला होता. निकालांसाठी मुंबई विद्यापीठात सर्वाधिक ७९ गुणांची कमाई करत १२ सुवर्ण, ५ रौप्य, २ कांस्य पदकांची कमाई करत चौथ्यांदा विजयी होण्याचा बहुमान मिळवला.

आविष्कार महोदयसमवेत मुंबई विद्यापीठातून संशोधन पौष्ठासाठी विकसलेल्या रबर हे संशोधनापासून विकसलावयाचे यंत्रणेचे प्रमुख अधिकारी	संशोधन महोदयसमवेत मुंबई विद्यापीठातून संशोधन पौष्ठासाठी विकसलेल्या रबर हे संशोधनापासून विकसलावयाचे यंत्रणेचे प्रमुख अधिकारी	सहस्राध्यक्षीय विद्यापीठाच्या कल्पनासमितीचे निर्देशित सदस्यसभेचे उपाध्यक्ष प्रमुख अधिकारी
संशोधन महोदयसमवेत मुंबई विद्यापीठातून संशोधन पौष्ठासाठी विकसलेल्या रबर हे संशोधनापासून विकसलावयाचे यंत्रणेचे प्रमुख अधिकारी	संशोधन महोदयसमवेत मुंबई विद्यापीठातून संशोधन पौष्ठासाठी विकसलेल्या रबर हे संशोधनापासून विकसलावयाचे यंत्रणेचे प्रमुख अधिकारी	संशोधन महोदयसमवेत मुंबई विद्यापीठातून संशोधन पौष्ठासाठी विकसलेल्या रबर हे संशोधनापासून विकसलावयाचे यंत्रणेचे प्रमुख अधिकारी

पाच राज्य पदकांची कमाई

आविष्कार स्पर्धेतून सुवर्ण पुरस्कार मिळवत १२ सुवर्ण पदकांमध्ये ५ रौप्य पदकांची कमाई करत, कांस्य पदकांची कमाई करत चौथ्यांदा विजयी होण्याचा बहुमान मिळवला. या स्पर्धेतून सुवर्ण पुरस्कार मिळवत १२ सुवर्ण पदकांमध्ये ५ रौप्य पदकांची कमाई करत, कांस्य पदकांची कमाई करत चौथ्यांदा विजयी होण्याचा बहुमान मिळवला.

संशोधन प्रभावी उपचारांसाठी...

आविष्कार स्पर्धेतून सुवर्ण पुरस्कार मिळवत १२ सुवर्ण पदकांमध्ये ५ रौप्य पदकांची कमाई करत, कांस्य पदकांची कमाई करत चौथ्यांदा विजयी होण्याचा बहुमान मिळवला. या स्पर्धेतून सुवर्ण पुरस्कार मिळवत १२ सुवर्ण पदकांमध्ये ५ रौप्य पदकांची कमाई करत, कांस्य पदकांची कमाई करत चौथ्यांदा विजयी होण्याचा बहुमान मिळवला.

वैद्यकशास्त्र आणि औषधशास्त्र विभाग

अॅल्युमिनियमचा पुनर्वापर



अॅल्युमिनियमचा पुनर्वापर होऊ शकतो. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून अॅल्युमिनियमचा पुनर्वापर होऊ शकतो. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.

मूलभूत शास्त्र विभाग

ऑक्सिजन, तापमान मोजणार उपकरण



ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.

ऑक्सिजन, तापमान मोजणार उपकरण आपली पाहणीसाठी ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.	ऑक्सिजन, तापमान मोजणार उपकरण आपली पाहणीसाठी ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात. त्यातून ऑक्सिजन, तापमान मोजणार उपकरण आहे. यासाठी अनेक प्रकारचे यंत्रणे वापरण्यात येतात.
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1. Photos of Certificate of Team Manager (At Zonal, Intercollegiate & State level)

A) Zonal Level

- I. Certificates of Participant
- II. Certificates of Participant Mentor

B) Intercollegiate Level

- I. Certificates of Selected Participant
- II. Certificates of Participant Mentor
- III. Certificates of participants Selected for State Level

C) State Level

- I. Certificates of State Level Winner
- II. Certificates of Mentor



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(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Ms. Jadhav Tanvi Sanjay** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes in Humanities, Languages and Fine Arts** Category and UG Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

Dr. Minakshi Gurav
OSD,
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Dr. Sunil Patil
Director,
Department of Students' Development,
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This is to Certify that **Ms. Dhangada Priyanka Ramesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Gite Varsha Ashok** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Patil Swaranjali Anil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar** zone.


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This is to Certify that **Ms. Patil Athashri Pankaj** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar** zone.


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This is to Certify that **Ms. Mulay Nivedita Dimesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LGBTQ** in **Humanities, Languages and Fine Arts** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Ms. Shinde Sayali Babu of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LGBTQ in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Ms. Patel Ishika Pralay** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LGBTQ in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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OSD,
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Certificate of Participation

This is to Certify that **Ms. Patel Astha Kalpesh of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LGBTQ in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Mali Manasvi Ghanshyam** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Shaikh Shaziya Salim** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Palkar Samiksha Anant** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **BINGE (WEB SERIES) WATCHING IN NEW ERA** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Pawar Surbhi Bajirao** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **BINGE (WEB SERIES) WATCHING IN NEW ERA** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. More Krutika Mangesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Panhale Ritu Arun** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Jadhav Akshata Kishor** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Singh Aabha Manojkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Kini Arpita Atmaram** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Churi Harshit Ramesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar** zone.


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This is to Certify that **Mr. Burange Om Prakash** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LGBTQ in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Vekhande Unnat Dipak** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Thakur Jeet Dhiraj of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **BINGE (WEB SERIES) WATCHING IN NEW ERA** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Rajwadi Gaurav Anthony** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **BINGE (WEB SERIES) WATCHING IN NEW ERA** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Tiwari Alok Shivshankar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Sankhe Mitali Suryakant** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Demystifying women shopping behavior pre and post Covid 19 in Palghar in Commerce, Management and Law** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Patel Mokshika Amrut** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Effect of Sunlight on Quality of Packaged Water** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Hussien Rabina Zakir** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Ecofriendly Approach to Designed Fluorenone by Using Tamarind Pulp Extract** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Raul Mayuri Mahesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Patil Anjali Laxman** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. More Babita Vijay** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Hussen Rabina Zakir** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Ecofriendly Approach to Designed Fluorenone by Using Tamarind Pulp Extract** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mrs. Shinde Pooja Vilas of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **TO STUDY ANTIMICROBIAL ACTIVITY OF BIMETALLIC COMPLEX** in **Pure Sciences** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mr. Prajapati Om Sarojkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Rai Vani Dutt Ashokkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Jain Bhavesh Dinesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal in Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Pawade Sahil Santosh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **mart Product to Reduce Human Errors in Industries in Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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Certificate of Participation

This is to Certify that **Mr. Harad Yadnyesh Sanjay** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **mart Product to Reduce Human Errors in Industries in Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Gupta Sumit Manoj** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Ecofriendly Approach to Designed Fluorenone by Using Tamarind Pulp Extract** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Kadu Grinabh Naresh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Piezo Electric Harvesting : Towards Green Energy in Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Shingada Pankesh Mohan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Jha Aashish Jaygovind** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Piezo Electric Harvesting : Towards Green Energy in Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Kudu Harshal Pundalik** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Diversity of Insects in Aпти (Khurd) Village of Vikramgad Tehsil, Palghar.** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Siddiqui Shama Parveen Md. Kausar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Herbal Air Room Freshener - An Application of Ethnobotany in Agriculture and Animal Husbandry** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Patil Dhruvika Dinesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Soilless Cultivation of Indigenous Variety Crops of Palghar District for Conservation of Biodiversity in Agriculture and Animal Husbandry** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Rane Surabhi Mohan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Herbal Aids to Save User Against the Common Pathogens in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Potdar Omkari Mangesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Herbal Aids to Save User Against the Common Pathogens in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Padvale Roshani Santosh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Utilization Of Floral Waste into Aromatic Amicable Wrist Band in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Kale Madhu Ganesh of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Utilization Of Floral Waste into Aromatic Amicable Wrist Band in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mr. Nair Arun Muralidharan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Nanoparticles based biofilters using carbonised coconut husk for effluent water treatment in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mr. Nair Sarath Unnikrishnan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Nanoparticles based biofilters using carbonised coconut husk for effluent water treatment in Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Prajapati Sonelal Santhoshkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Biorise-A perfect Agri-solution!** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Gautam Kishankumar Bindulal** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Biorise-A perfect Agri-solution!** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Agrawal Mansi Devendra** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **INSECT ROBOT DETECTING LANDMINES FOR DEFENCE PURPOSE** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Mahato Aarti Jaylal of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **INSECT ROBOT DETECTING LANDMINES FOR DEFENCE PURPOSE** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Sabale Ishwary Gajanan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Floor Cleaning Robot in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Save Samruddhi Milind** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Floor Cleaning Robot in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Bhirud Khushbu Pramod** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **IOT BASED RADAR DETECTION USING ARDUINO** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Bafna Aanchal Sagar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **IOT BASED RADAR DETECTION USING ARDUINO** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Vishwakarma Isha Mahendra** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LUMINATING BOTTLE BY USING IOT** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Kothari Dhruvika Bhushan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LUMINATING BOTTLE BY USING IOT** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Shrivastav Aditi Amresh Kumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LUMINATING BOTTLE BY USING IOT** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Pawar Priyanka Sambhaji** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **LUMINATING BOTTLE BY USING IOT** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Jadhav Dipali Nitin of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Animal Intrusion Detection device using IoT in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Raut Khushi Santosh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Animal Intrusion Detection device using IoT in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Ugarkar Sumedh Sachin** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Singh Kshiti** Nilesh of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Raut Aniket Jaiprakash** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Kadu Deep Bharat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Mishra Shriram Sanat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Patil Pratham Narottam** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Smart Mirror -Mirror with computing capabilities in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar zone**.

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This is to Certify that **Mr. Pandey Anant Anil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Smart Mirror -Mirror with computing capabilities in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Mali Ritvik Bhupesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Smart Mirror -Mirror with computing capabilities in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Bind Abhishek Somaru** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Smart Mirror -Mirror with computing capabilities in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Khot Atharva Ramchandra** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **INSECT ROBOT DETECTING LANDMINES FOR DEFENCE PURPOSE** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Dandekar Siddique Saquib** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **IOT BASED RADAR DETECTION USING ARDUINO** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Jaiswal Krishna Vinod** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Animal Intrusion Detection device using IoT in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Patil Yash Hemant** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Animal Intrusion Detection device using IoT in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Khatik Chetan Kishan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Personal Security Guard(PSG)** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Edachali Alakanandha Karthikeyan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar zone**.


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This is to Certify that **Ms. Behere Akanksha M** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Raut Mansi K** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ms. Shivgan Sahili Sudhakar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Anti-microbial Activity of Natural Deep Eutectic Solvent(DES) of Eugenol and Cetrimide in Medicine and Pharmacy** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Ms. Dhanmeher Gauri Narendra** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Anti-microbial Activity of Natural Deep Eutectic Solvent(DES) of Eugenol and Cetrimide in Medicine and Pharmacy** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mrs. Parab Shraddha Shankar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **SYNTHESIS AND STUDY OF BIOLOGICAL ACTIVITIES OF BIMETALLIC COMPLEX** in **Medicine and Pharmacy** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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Certificates of Zonal project Mentors



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This is to Certify that **Krutika D Patel** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **LGBTQ** which was presented by **Mr. Burange Om** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mrs Bhakti P. Patil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Personal Security Guard(PSG)** which was presented by **Mr. Khatik Chetan** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Dr. Suhas P. Janwadkar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **SYNTHESIS AND STUDY OF BIOLOGICAL ACTIVITIES OF BIMETALLIC COMPLEX** which was presented by **Mrs. Parab Shraddha** in **Medicine and Pharmacy** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Suhas P. Janwadkar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **TO STUDY ANTIMICROBIAL ACTIVITY OF BIMETALLIC COMPLEX** which was presented by **Mrs. Shinde Pooja** in **Pure Sciences** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Vaibhava Sachin More** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Ecofriendly Approach to Designed Fluorenone by Using Tamarind Pulp Extract** which was presented by **Mr. Gupta Sumit** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dipali Mali** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** which was presented by **Mr. Vekhande Unnat** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Viraj D. Chabake** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Soilless Cultivation of Indigenous Variety Crops of Palghar District for Conservation of Biodiversity** which was presented by **Ms. Patil Dhruvika** in **Agriculture and Animal Husbandry** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar zone**.


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This is to Certify that **Archana Vishnu Pawar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **BINGE (WEB SERIES) WATCHING IN NEW ERA** which was presented by **Ms. Palkar Samiksha** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Lisa Sam** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Biorise-A perfect Agri-solution!** which was presented by **Mr. Gautam Kishankumar** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Mr. Hardik Shyam Churi** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Nanoparticles based biofilters using carbonised coconut husk for effluent water treatment** which was presented by **Mr. Nair Sarath** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mrs Bhakti P. Patil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Animal Intrusion Detection device using IoT** which was presented by **Ms. Raut Khushi** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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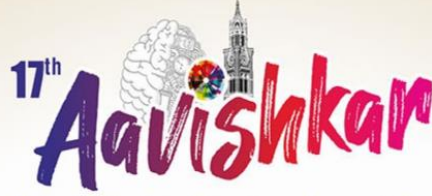

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This is to Certify that **Mrs Bhakti P. Patil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **LUMINATING BOTTLE BY USING IOT** which was presented by **Ms. Pawar Priyanka** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Krutika Hrudaynath Churi** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Floor Cleaning Robot** which was presented by **Ms. Save Samruddhi** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Suprit Sanjay Narvankar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Diversity of Insects in Apti (Khurd) Village of Vikramgad Tehsil, Palghar**. which was presented by **Mr. Kudu Harshal** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Hrushikesh P. Deokar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** which was presented by **Ms. More Babita** in **Pure Sciences** Category and **PG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr.shailaja .p.palan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** which was presented by **Mr. Jain Bhavesh** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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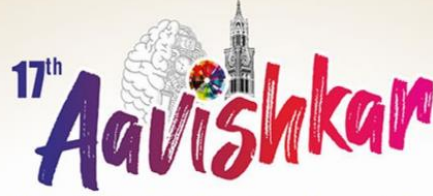

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This is to Certify that **Dr. Pooja H. Kini** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Effect of Sunlight on Quality of Packaged Water** which was presented by **Ms. Patel Mokshika** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr.sapna Bakul Jadhav** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Piezo Electric Harvesting : Towards Green Energy** which was presented by **Mr. Jha Aashish** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Dilip K. Yadav** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Anti-microbial Activity of Natural Deep Eutectic Solvent(DES) of Eugenol and Cetrimide** which was presented by **Ms. Dhanmeher Gauri** in **Medicine and Pharmacy** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Ashwin D. Bhagat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **INSECT ROBOT DETECTING LANDMINES FOR DEFENCE PURPOSE** which was presented by **Ms. Mahato Aarti** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Dr.harshad Vanmali** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** which was presented by **Ms. Kini Arpita** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mr. Harshal Chaudhari** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Utilization Of Floral Waste into Aromatic Amicable Wrist Band** which was presented by **Mr. Kale Madhu** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Ishwari Nitesh Mehta** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** which was presented by **Ms. Raut Mansi** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Tejal Dipak Bagul of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Smart Mirror -Mirror with computing capabilities** which was presented by **Mr. Bind Abhishek** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar zone**.


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This is to Certify that **Dr. Vaibhava Sachin More** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Ecofriendly Approach to Designed Fluorenone by Using Tamarind Pulp Extract** which was presented by **Ms. Hussien Rabina** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Mr. Tejas Narhar Chaudhari** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Herbal Aids to Save User Against the Common Pathogens** which was presented by **Ms. Potdar Omkari** in **Agriculture and Animal Husbandry** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. darshana Salil Chaudhari** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** which was presented by **Ms. Patil Athashri** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Dr. Sapna Bakul Jadhav** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **mart Product to Reduce Human Errors in Industries** which was presented by **Mr. Harad Yadnyesh** in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Vivek Kudu** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** which was presented by **Ms. Jadhav Akshata** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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This is to Certify that **Jobin George** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Risk Assessment Of Adolescents For Diabetes** which was presented by **Ms. Dhangada Priyanka** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar** zone.


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This is to Certify that **Tejas Narhar Chaudhari** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Herbal Air Room Freshener - An Application of Ethnobotany** which was presented by **Ms. Siddiqui Sana parveen** in **Agriculture and Animal Husbandry** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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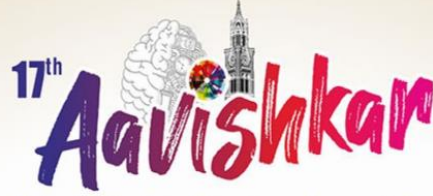

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This is to Certify that **Tejal Dipak Bagul of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Plant monitoring system** which was presented by **Mr. Mishra Shiram** in **Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.

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This is to Certify that **Dr. Manish M. Deshmukh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Demystifying women shopping behavior pre and post Covid 19 in Palghar** which was presented by **Ms. Sankhe Mitali** in **Commerce, Management and Law** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


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University of Mumbai



Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Dr. Sapna Bakul Jadhav** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Smart Product to Reduce Human Errors in Industries** which was presented by in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** zone.


Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai


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

December 11, 2022
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Certificates of selected project Mentors



University of Mumbai

17th
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Inter-Collegiate/Institute/Department Research Convention
(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr. Suhas P. Janwadkar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **TO STUDY ANTIMICROBIAL ACTIVITY OF BIMETALLIC COMPLEX** which was submitted by **Mrs. Shinde Pooja** in **Pure Sciences** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

Dr. Minakshi Gurav
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Dr. Sunil Patil
Director,
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December 11, 2022
Palghar





University of Mumbai

17th
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Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dipali Mali** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** which was submitted by **Mr. Vekhande Unnat** in **Humanities, Languages and Fine Arts** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

Dr. Minakshi Gurav

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Aavishkar,
University of Mumbai

Dr. Sunil Patil

Director,
Department of Students' Development,
University of Mumbai



December 11, 2022
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University of Mumbai

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Inter-Collegiate/Institute/Department Research Convention
(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr. Hrushikesh P. Deokar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** which was submitted by **Ms. More Babita** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Dr. Sunil Patil
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University of Mumbai

December 11, 2022
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University of Mumbai

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Inter-Collegiate/Institute/Department Research Convention
(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr.shailaja .p.palan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** which was submitted by **Mr. Jain Bhavesh** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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December 11, 2022
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Inter-Collegiate/Institute/Department Research Convention
(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr.harshad Vanmali** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** which was submitted by **Ms. Kini Arpita** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ishwari Nitesh Mehta** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** which was submitted by **Ms. Raut Mansi** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr.darshana Salil Chaudhari** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** which was submitted by **Ms. Patil Athashri** in **Humanities, Languages and Fine Arts** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Vivek Kudu** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** which was submitted by **Ms. Jadhav Akshata** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Jobin George of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Risk Assessment Of Adolescents For Diabetes** which was submitted by **Ms. Dhangada Priyanka** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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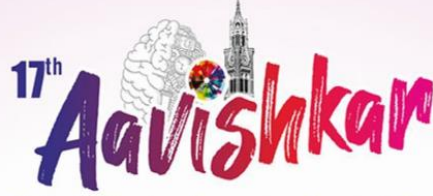


December 11, 2022
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Inter-Collegiate/Institute/Department Research Convention
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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Tejal Dipak Bagul of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Plant monitoring system** which was submitted by **Mr. Mishra Shriram in Engineering and Technology** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr. Manish M. Deshmukh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Demystifying women shopping behavior pre and post Covid 19 in Palghar** which was submitted by **Ms. Sankhe Mitali** in **Commerce, Management and Law** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Dr. Sapna Bakul Jadhav of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has guided a Research Project titled **Smart Product to Reduce Human Errors in Industries** which was submitted by in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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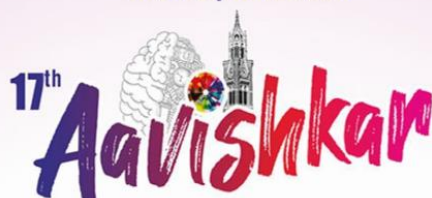
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Certificates of Selected Participants for Intercollegiate Level



University of Mumbai



Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mrs. Shinde Pooja Vilas of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **TO STUDY ANTIMICROBIAL ACTIVITY OF BIMETALLIC COMPLEX** in **Pure Sciences** Category and **PPG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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December 11, 2022
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University of Mumbai

17th
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Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mr. Vekhande Unnat Dipak** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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December 11, 2022
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University of Mumbai

17th
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Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Shaikh Shaziya Salim** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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University of Mumbai

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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Mali Manasvi Ghanshyam** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Do Electric Bikes Make Sense Over Petroleum Bikes.....?** in **Humanities, Languages and Fine Arts** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. More Babita Vijay of Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Certificate of Merit

This is to Certify that **Ms. Patil Anjali Laxman** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Raul Mayuri Mahesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mr. Shingada Pankesh Mohan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Bio-waste to Bio-catalyst: An efficient route for chemical synthesis** in **Pure Sciences** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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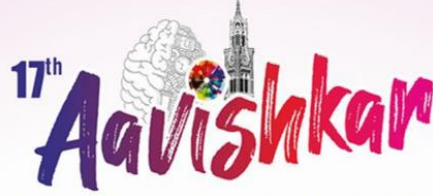


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Inter-Collegiate/Institute/Department Research Convention
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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mr. Jain Bhavesh Dinesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal in Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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Certificate of Merit

This is to Certify that **Mr. Rai Vani Dutt Ashokkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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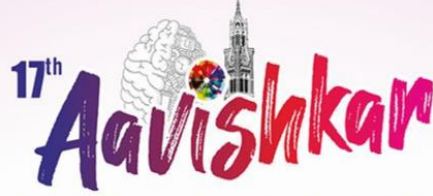

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Inter-Collegiate/Institute/Department Research Convention

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Certificate of Merit

This is to Certify that **Mr. Prajapati Om Sarojkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Synthesis of Bio-Adsorbent for Dye removal** in **Pure Sciences** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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This is to Certify that **Ms. Kini Arpita Atmaram** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai

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



December 11, 2022
Palghar





University of Mumbai

17th
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Inter-Collegiate/Institute/Department Research Convention
(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Singh Aabha Manojkumar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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Certificate of Merit

This is to Certify that **Mr. Tiwari Alok Shivshankar** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Post Covid Childhood Obesity and related health problems in Palghar, Maharashtra.** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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This is to Certify that **Ms. Raut Mansi K** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Dr. Sunil Patil
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This is to Certify that **Ms. Behere Akanksha M** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Dr. Sunil Patil
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This is to Certify that **Ms. Edachali Alakanandha Karthikeyan** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **PHYLLANTHUS EMBLICA- A RICH SOURCE OF ANTIMICROBIAL AND ANTIOXIDANT PHYTOCHEMICALS** in **Medicine and Pharmacy** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Patil Athashri Pankaj** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


Dr. Minakshi Gurav
OSD,
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University of Mumbai


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

December 11, 2022
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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Patil Swaranjali Anil** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar Zone**. The said Research Project is selected for **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round)**.


Dr. Minakshi Gurav
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Aavishkar,
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Dr. Sunil Patil
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Palghar





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Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mr. Churi Harshit Ramesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव** in **Humanities, Languages and Fine Arts** Category and **UG Level** at **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round)** organized by the University of Mumbai at **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** on **December 11, 2022** for **Palghar Zone**. The said Research Project is selected for **17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round)**.


Dr. Minakshi Gurav
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Certificate of Merit

This is to Certify that **Ms. Jadhav Akshata Kishor** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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This is to Certify that **Ms. Panhale Ritu Arun** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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This is to Certify that **Ms. More Krutika Mangesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **महाविद्यालयीन विद्यार्थ्यांचा बोलीविषयक दृष्टीकोन आणि तो संवर्धित करण्याच्या उपाययोजना** in **Humanities, Languages and Fine Arts** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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This is to Certify that **Ms. Gite Varsha Ashok** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes in Humanities, Languages and Fine Arts** Category and UG Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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This is to Certify that **Ms. Dhangada Priyanka Ramesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes in Humanities, Languages and Fine Arts** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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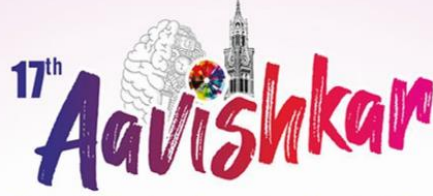

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December 11, 2022
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This is to Certify that **Ms. Jadhav Tanvi Sanjay** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Risk Assessment Of Adolescents For Diabetes in Humanities, Languages and Fine Arts** Category and UG Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

Dr. Minakshi Gurav

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Dr. Sunil Patil

Director,
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This is to Certify that **Mr. Mishra Shriram Sanat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


Dr. Minakshi Gurav
OSD,
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Dr. Sunil Patil
Director,
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Certificate of Merit

This is to Certify that **Mr. Mishra Shriram Sanat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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This is to Certify that **Mr. Kadu Deep Bharat** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


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This is to Certify that **Mr. Raut Aniket Jaiprakash** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

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



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This is to Certify that **Mr. Singh Kshitij Nilesh** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


Dr. Minakshi Gurav
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Aavishkar,
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Dr. Sunil Patil
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University of Mumbai

December 11, 2022
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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Mr. Ugarkar Sumedh Sachin** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Plant monitoring system in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).

Dr. Minakshi Gurav
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Dr. Sunil Patil
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December 11, 2022
Palghar





University of Mumbai

17th
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(Zonal Round)

Academic Year 2022-23

Certificate of Merit

This is to Certify that **Ms. Sankhe Mitali Suryakant** of **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** has participated and presented a Research Project titled **Demystifying women shopping behavior pre and post Covid 19 in Palghar in Commerce, Management and Law** Category and **PG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar on December 11, 2022 for **Palghar** Zone. The said Research Project is selected for 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Final Round).


Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai


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

December 11, 2022
Palghar



D) State Level

I. Certificates of State Level Winner



II. Certificates of Mentor



III. Overall Pure Science First Rank

University of Mumbai



DEPARTMENT OF
STUDENTS' DEVELOPMENT

Certificate of Merit

This is to certify that Sonopant Dandekar Shikshan Mandali's **Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar** affiliated to the University of Mumbai has been awarded an '**Overall Championship (First Rank)**' in **Pure Sciences** Category in the 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention organized by the Department of Students' Development, University of Mumbai for the academic year 2022-23.



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

Prof. (Dr.) Ravindra Kulkarni
Vice-Chancellor,
University of Mumbai

December 1, 2023
Fort, Mumbai

- E Overall Championship Certificate
- I Zonal Level Championship

University of Mumbai



DEPARTMENT OF STUDENTS' DEVELOPMENT

Certificate of Merit

This is to certify that Sonopant Dandekar Shikshan Mandali's Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar affiliated to the University of Mumbai has been awarded an 'Overall Championship (First Rank)' for Zone V: Palghar District in the 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention organized by the Department of Students' Development, University of Mumbai for the academic year 2022-23.



[Handwritten signature of Dr. Sunil Patil]

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

[Handwritten signature of Prof. (Dr.) Ravindra Kulkarni]

Prof. (Dr.) Ravindra Kulkarni
Vice-Chancellor,
University of Mumbai

December 1, 2023
Fort, Mumbai

II Appreciation for Zonal Round Conduction

University of Mumbai



DEPARTMENT OF STUDENTS' DEVELOPMENT

Academic Year: 2022-23

Certificate of Appreciation

This is to certify that Sonopant Dandekar Shikshan Mandali's **Sonopant Dandekar Arts, Vaman Shreedhar Apte Commerce and M.H. Mehta Science College, Palghar** conducted the **17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round)** for **Zone V: Palghar** on **Sunday, December 11, 2022**.

On behalf of the University of Mumbai, we thank and appreciate the efforts taken by the Principal and his team of Students, Teaching Staff, Administrative Staff and Non-Teaching Staff. We also extend special appreciation to the Management of the College.



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

Prof. (Dr.) Digambar Shirke
Vice-Chancellor,
University of Mumbai

Mumbai
December 26, 2022

2.

3. Photos of Poster

17th Avishkar Research Convention 2022-23

Category: Engineering and Technology
Personal Security Guard(PSG)
Slot No:
Level:UG

Abstract

(PSG) system is made to remove all possible state which can lead to loss of life in emergency conditions . Losing consciousness is one of the draw back of humans in such conditions which can be handled by this sytem.

Objectives

- 1.Fast Evacuation .
2. Save life.
- 3.To understand the importance of safety in our premises
- 4.To solve problems using IOT safely and securely.

Analysis

LIFE SAVIOUR SYSTEM

Fire emergency
Damage caused by fire incidence
1. Property

Earthquake
Damage caused by Earthquake incidence
1. Life
2. Property

Medical
Damage caused by Medical emergency
1. Life
2. Property

Incident Type	Life (0-50)	Property (0-50)
Fire	~25	~25
Earthquake	~30	~20
Medical	~20	~10
Manual	~25	~25

Problem statement and gap analysis

- 1.Current system needs manual works which can lead to human errors & time delay.
- 2.So to minimize the time delay , remove human errors and any kind of manual work this new system (PSG) is introduced.
- 3.This system will tackle this problems with the help of intelligent, rational decision and with the concept of quick response, quick evacuation, advance navigation, advance alert system.

Methods

Tree Structure

Iteration

Connectionist method

Results

Social Benefits

Save Life

Save property

High Security

Cost Benefit

Applications

- 1.Industries
- 2.Malls
- 3.Schools and colleges
- 4.Any structure up to 4 storage.

Conclusion

Personal Security Guard(PSG) is replacement of old emergency handling system. Old emergency system work to controlling the situation and to save property damage. But PSG will control the situation save property and life

17th Avishkar Research Convention 2022-23

Category- Engineering and Technology Level: UG Slot no:

Animal Intrusion detection device using IoT

Abstract

Agriculture is essential for the development of India especially economically. agriculture also needs security. Farmers face problems like animals damaging their crops or someone steal their crop. Due to this they must stay on farm to protect the crop from animals or intruders, but it increases workload on farmers. In this situation, they may use a security device to protect their farms. So an IoT based intruder detector system is used to alert the farmer when an intruder enters the farm. The proposed research work has used the IR sensor to detect the intruder and GSM module is used to send a notification to farmer.

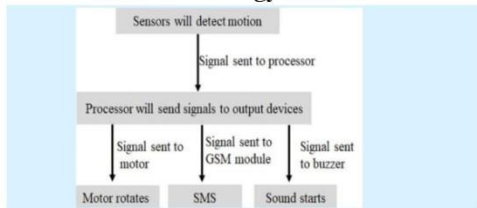
Problem Statement

1. Farmers all over India face the problem of crop destruction and damage due to animal intrusion in the farmlands
2. Most of the damage done is not compensated and causes economical and resource damage.

Objectives

1. To design and develop alarming system for farmers in rural areas.
2. To protect the farmer and crops from animals and birds with the help of easy technology
3. To help monitor movements in the farm via remote access.

Methodology



Social Relevance



Results



Conclusion

1. As a result, our work would assist farmers in securing their farmlands.
2. The farmers secure the farm securing farm increasing his yield and also increasing the country's overall productivity.

References

1. Preethi, Gajula Siva Sai, et al. "Internet of Things based Smart Farm Security System." 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC), IEEE, 2021.
2. Chaganti, Rajasekhar, et al. "Blockchain-Based Cloud-Enabled Security Monitoring Using Internet of Things in Smart Agriculture." Future Internet 14.9 (2022): 250.

17th Avishkar Research Convention 2022-23

Category: Engineering & Technology	IOT BASED RADAR DETECTION USING ARDUINO	Level: UG Slot no:
ABSTRACT		EXPECTED OUTCOME
<p>We design our system that is IOT BASED RADAR DETECTION USING ARDUINO which detect different physical components such as distance, speed, position, range, direction, size etc. Which can be either fixed or be in motion. System is not essentially affected by variations in temperature or lighting conditions and also to cure all the flaws Time delay, Resolve multiple targets etc. Gives us More visual Data and Accuracy in graphical representation on mimic Radar screen.</p>		
PROBLEM STATEMENT AND GAP ANALYSIS		APPLICATION
<ol style="list-style-type: none"> 1. In this current radar system there are some flaws like takes more time due to signal travels freely in air and space. 2. Data Collection and Accuracy can be more challenging due to object is in motion. 3. It cannot Distinguish and Resolve multiple targets and that are deep in the sea, also cannot Differentiate the color of object. 		<ol style="list-style-type: none"> 1. Underwater networks 2. Driverless vehicle system 3. In various military operations 4. In aircrafts
OBJECTIVES		SOCIAL BENEFITS
<ol style="list-style-type: none"> 1. To develop an ultrasonic RADAR. 2. To detect the fixed or moving object. 3. To measure the distance of the object from the system. 4. To measure the angle of the moving object. 5. Reducing human time and effort. 		<ol style="list-style-type: none"> 1. Implementation of RADAR at very low cost. 2. Mobile RADAR system. 3. Readings are updated rapidly. 4. Small in size. 5. Easy to construct.
METHODOLOGY		CONCLUSION
		<ol style="list-style-type: none"> 1. Ultrasonic Radar Using Arduino UNO was successfully implemented and executed. 2. The range can be Adjust up- to the 400 cm rang or according to sensor capacity.
METHODOLOGY		REFERENCES
		<ol style="list-style-type: none"> 1. MEHTA, S., & TIWARI, S. (2018). RADAR SYSTEM USING ARDUINO AND ULTRASONIC SENSOR. INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT, 3(4), 14-20. 2. GHOGHRE, D. A., DHANSHRI, A., & PRIYANKA, A. (2017). RADAR SYSTEM USING ARDUINO. IN NATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING & TECHNOLOGY (PP. 53-56).

Inter-University Avishkar Research Convention 2022-23

Category: Engineering and Technology Level: UG Slot no:

Floor Cleaning Robot

Abstract	Problem Statement	
<p>Cleaning the dust from the floor is one of the daily tasks that must be completed. With the help of ultrasonic sensor it detects the obstacles in front of them and sends signal to processor, accordingly it takes turn to avoid that obstacle. The floor cleaner robot is designed to make cleaning interactions easier than they would be if done manually. It saves the time of the people and helps to clean the surface of the floor without any human intervention.</p>	<ol style="list-style-type: none"> Cleaning the dust from the floor is one of the daily tasks that must be completed. Dust-cleaning operations take a long time Other activities are sometimes disregarded. 	
Objectives	Application Logic	Benefits
<ol style="list-style-type: none"> To clean houses To clean industries No manual work required Saves time and energy Less expensive 		<ol style="list-style-type: none"> Less manual work required. It saves time. It can clean corners where humans cannot reach. Ideal for people with mobility issue. Has no range issue.
Results	Conclusion	References
	<ol style="list-style-type: none"> The ultrasonic sensor detects the obstacle and then the controller commands the motors to change direction. All operations like changing the path in case of hurdles are performed automatically. Our robot can reach out to places where human access is not possible. 	<ol style="list-style-type: none"> Arduino Based Floor Cleaning Robot using Ultrasonic Sensor (circuitdigest.com) (PDF) Autonomous Floor Cleaning Robot (researchgate.net) (PDF) Automatic floor cleaning (slideshare.in) Burman, Vibha, and Ravinder Kumar. "IoT-Enabled Floor Cleaning Robot."

17th Avishkar Research Convention 2022-23

Category-Engineering and Technology Level:UG

Landmines Detecting Robot

Abstract	Methodology
<p>A land mine is an explosive device that is designed to destroy or disable an enemy and hidden under or on the surface of ground, especially in mine-affected countries like Afghanistan and Iraq. Most landmines are laid on just below the surface of ground and are activated by pressure or trip-wire. Usually most of the landmines will contain many metallic parts, which can be made use of in their detection. The mines which are embedded amid the war time may stay undetected. As the name suggests detection is done using Metal Detector and hence can be done further away from the mine carefully. Mine detection robots will go from this path where soldiers pass the roads in mine areas.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; background-color: #d9e1f2;">Understand the Problem</p> <hr/> <p style="text-align: center; background-color: #d9e1f2;">Finding a solution using appropriate technology</p> <hr/> <p style="text-align: center; background-color: #d9e1f2;">Building Application Logic</p> <hr/> <p style="text-align: center; background-color: #d9e1f2;">Data Collection</p> <hr/> <p style="text-align: center; background-color: #d9e1f2;">Results and Finding</p> </div>
<p>Problem Statement</p> <ol style="list-style-type: none"> In today's world landmines are one of the biggest problems due to which many people die. Sometimes while checking with metal detectors many people die. This system will address this issue using intelligent and logical decision-making. Additionally, the idea of an improved alert system in-depth navigation. 	<p style="text-align: center;">Results and finding</p> <div style="text-align: center;"> </div>
<p style="text-align: center;">Objectives</p> <ol style="list-style-type: none"> To less loss of armed force To get quick results To make defence system to be smart To build economically easy to implement in defence system 	<p style="text-align: center;">Conclusion</p> <p>The interface developed is a powerful tool for the control of differential drive robots. The control modes along with the mapping make the system a useful demining robotic system. The ideas and techniques mentioned in this paper can be used to make better landmine detecting robots.</p>
<p style="text-align: center;">Social Relevance</p> <ol style="list-style-type: none"> Portable Device and easy to carry Quick to check landmines Control the loss of human affected by landmines Device can be used in every defence areas where landmine testing is required 	<p style="text-align: center;">Reference</p> <ol style="list-style-type: none"> Svetlana Larionova (2007). Automated Landmine Detection by means of a Mobile Robot. Faculty of Science and Technology, University of Coimbra Ihab Makki (2017). Hyperspectral Imaging for Landmine Detection. Optimization and Control [math.OA]. POLITECNICO DI TORINO.

LUMINATING BOTTLE BY USING IOT

Abstract

We have come up with a solution for two basic but important problems. The first problem is the plastic bottles. Large amount of used plastic bottle are thrown into the river / seas which causes the death of various creatures. The second problem is of electricity supply and high billing. In the rural area there is less electricity supply and where there is proper supply of electricity but the poor people are not able to afford to pay high billing. So, our solution to this problem is to reuse the plastic bottle to make the lamp which will decrease the emission of carbon dioxide up to some extent. In this, solar panel get energy from the sun and then the lithium batteries will get charged from the solar panel and the charged lithium batteries emit the energy to the led during night time and led glows. This lamp can be used by anybody because it is user as well as eco friendly.

Problem Statement

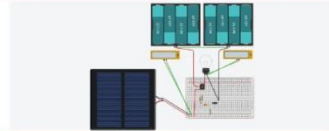


2. Finding the solution using appropriate Technology



The lithium ions batteries gets charged by solar panel → The lithium ions batteries emits the energy to the LED during night time.

3. Circuit Diagram



Objectives

1. To provide energy without carbon emissions.
2. To reduce the fatal accident such as fire hazard.
3. To provide zero emissions and less pollution.
4. To be a beneficial device to economically weaker society.
5. To spread luminescence in the darkness.

Methodology

The Whole Methodology is divided into **Three** fundamental steps



Benefits

- Low cost
- User friendly
- Avoid accidental burn and fire
- Reuse of plastic bottle
- Eco friendly

1. Understand the problems

-
1. Disposable water marine creatures each year. bottle waste washes into the Ocean and kills **1.1 million**
 2. The water bottling process releases **2.5 million** tons of carbon dioxide into the atmosphere annually.
 3. Poor people are not able to pay electricity money.

Conclusion

-
1. Solar panel get charged during daytime by sunlight.
 2. The lithium ions batterie gets charged by solar panel.
 3. The lithium ions batterie emits the energy to the bulb during night time.
 4. At night time it automatically gets turn on

References

1. Alrubaih, M. S., et al. "Research and development on aspects of daylighting fundamentals." *Renewable and Sustainable Energy Reviews* 21 (2013): 494-505.
2. Kim, Jeong Tai, and Marija S. Todorovic. "Tuning control of buildings glazing's transmittance dependence on the solar radiation wavelength to optimize daylighting and building's energy efficiency." *Energy and Buildings* 63 (2013): 108-118.

Biorise-A perfect Agri-solution !!

PROBLEM

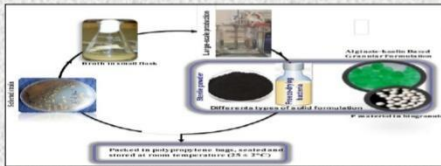
Effect of Air pollution on photosynthetic pigment

ABSTRACT

The exhaust of industries, automobiles cause air pollutions. Examples:- oxides of nitrogen, sulphur, particulate emissions. These air pollutants drastically affect photosynthetic pigments and reduce chlorophyll contents. The reduction in chlorophyll is due to conversion of chlorophyll into pheophytin by loss of magnesium ions. In the present study formulation of biofertilizer has been done by finding out nitrogen fixation bacteria, phosphate solubilizer bacteria and addition of new carrier mixture. Biofertilizers overcome the effects of air pollution on plants and enhance the chlorophyll contents of plants collected from polluted sites. This biofertilizer has great potential to replace chemical fertilizers.

MATERIAL AND METHOD

Carrier Extraction
Harvesting of Spirodela polyrhiza
↓
Separation and cleaning with water
Sunlight drying for 5-7 days
↓
Grinding in small particles, separate large particle
↓
Sterilization at 121 degree Celsius 15 psi
Use this as carrier molecule



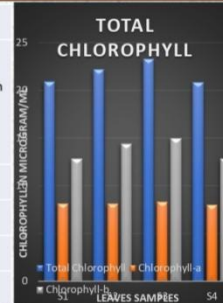
OBJECTIVE

1. N₂ Fixation
2. Phosphate solubilization
3. Enhancement of chlorophyll content
4. Reduce aging of vegetable crops



RESULTS

Sites	Chlorophyll contents		
	Chl-a (ug/ml)	Chl-b (ug/ml)	Total chlorophyll (ug/ml)
S ₁	8.120	12.822	20.938
S ₂	8.156	14.424	22.187
S ₃	8.313	14.944	23.279
S ₄	8.023	12.854	20.860



CONCLUSION

The total chlorophyll content, chlorophyll-a, chlorophyll-b, estimated by using Arnon's method. Total chlorophyll were found to be less for samples collected from industrial area comparing to samples from non-polluted site. Biofertilizer has potent ability to enhance chlorophyll content and makes soil fertile.

REFERENCES

- Rajalakshmi .K1, N. Banu2, (2014) *Extraction and Estimation of Chlorophyll from Medicinal Plants*
1Research Scholar, Department of Biotechnology, Vels Institute of Science, Technology and Advanced Studies, Chennai, Tamil Nadu, India.

17th Inter- university Avishkar Research Convention 2022-23

Category VI: Medicine and Pharmacy

Level : PPG

SYNTHESIS AND STUDY OF BIOLOGICAL ACTIVITIES OF BIMETALLIC COMPLEX

ABSTRACT

The reagent (N,N-bis (o-Vanillinidene) ethylenediamine) is synthesized and it is characterized by FT-IR, NMR. This ligand used to coupled with Ni(II) to get Monometallic complex. Another monometallic complex have been prepared by using 1-Nitroso-2-naphthol as a reagent with Fe (III). The combination of these two will give Hetero-bimetallic complex. The prepared complex is characterized by using FT-IR, UV-Visible Spectroscopy. The said complex shows promising Antimicrobial Activity against S.aureus , B.subtilus ,S.typhi and E.coli.

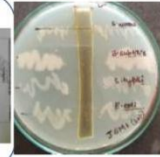
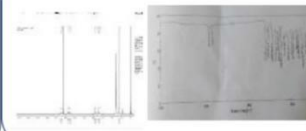
INTRODUCTION

The recent trend is use of bimetallic complexes as a bioactive molecule .Two metals present in the complex may be same or different. As compared to monometallic complexes, bimetallic complexes provide faster reaction rate and greater selectivity. In short, the field of bimetallic complexes is faster growing field because of their promising bioactivities.

OBEJECTIVES

The bimetallic complexes may have higher bioactivity as well due to the double chelating effect of ligands in transition metal complexes.. This work is used to synthesis and study of biological activities of bimetallic complex.

CHARACTERISATION



Active against S.aureus, B.subtilus, S.typhi and E.coli.

CONCLUSION

Reagent and bimetallic complex synthesized. This Synthesized reagent characterized through spectral study. Bimetallic complex gives promising result against S.aureus, B.subtilus ,S.typhi and E.coli.

REFERENCES

- 1) HK. Tamai, 'Bimetallic complexes; A mini review of their synthesis, and potential antitumor activities' April 2019.
- 2) BJ Pandya, PK Bhattacharya, 'Studies on some ternary complexes and heterobimetallic complexes of oxovanadium (IV)' Indian J. Chem. 1985;Vol 24A: 403-406.

MATERIALS AND METHODS



17th Intercollegiate Avishkar Research Convention 2022-23

पालघर तालुक्यातील फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव

Category - 1

Slot No -

Level - U.G.

गोषवारा

'भौगोलिक दृष्ट्या निकट असणाऱ्या समाजापैकी सामाजिक-सांस्कृतिकदृष्ट्या उच्च वर्गाचा प्रभाव निम्नस्तरातील समाज जीवनावर व संस्कृतीवर पडतो.' पालघर तालुक्यातील फुदगी समाजावर आदिवासी, आगरी, वाडवळ, मांगेला समाज संस्कृतीचा प्रभाव आहे. हे गृहीतक विचारात घेऊन फुदगी समाज संस्कृतीचा शोध घेण्यात आला आहे. हे संशोधन करताना पालघर तालुक्यातील केळवा, माहीम, खारेकुरण आणि शिरगाव या गावातील फुदगी पाडे संशोधनाच्या केंद्रस्थानी ठेवण्यात आले आहेत.

प्रस्ताविक

फुदगी समाज-संस्कृती संशोधनासाठी निवडण्यामागची भूमिका: ब्रिटिश काळात भारतात गुलाम म्हणून आणलेली ही एक विशिष्ट जमात आहे. अतिमागास आणि अल्पसंख्यांक समाज आहे. अलीकडच्या काही वर्षांत इतर मागासवर्गीय जमातीत (ओ.बी.सी.) समावेश करण्यात आला असला तरी जातीचे प्रमाणपर सर्वांना उपलब्ध झालेले नाही. शिक्षणाचे प्रमाण अल्प आहे. गुन्हेगार म्हणून पूर्वी हा समाज ओळखला जाई. पालघर आणि वसई या दोन तालुक्यातील ठराविक गावांपुरताच हा समाजसिमीत आहे. बेहरापट्टी व स्वनउच्चपणाची विशिष्ट पद्धत यामुळे सहज वेगळी दिसणारी ही जमात. स्वतःची अशी विशिष्ट संस्कृती नाही. वाडवळ, आदिवासी, मांगेला, आगरी समाज संस्कृतीचा प्रभावानुसार तयार झालेली संमिश्र संस्कृती आहे.

उद्दिष्ट/ हेतू:

- 1) दुरुिक्षित व अतिमागास फुदगी समाजाचे अस्तित्व अधोरेखित करणे.
- 2) फुदगी समाजावर अन्य समाज संस्कृतीचा असलेला प्रभाव शोधणे.

संशोधन पद्धत:

प्रस्तुत विषयावरील संशोधन करीत असताना क्षेत्रीय अभ्यासपद्धत व मुलाखत तंत्राचा वापर केला आहे.

निष्कर्ष:

- माहीम- टेंभी येथील फुदगी वस्ती मांगेला समाजाच्या वस्ती नजिक असल्याने मांगेला समाज संस्कृतीचा प्रभाव दिसतो. (मांगेला समाजातील होळी गीतांचा प्रभाव, मांगेला समाजातील पुरुषांप्रमाणे पहराव)
- पालीपाडा आणि रांजणपाडा हे फुदगी पाडे आदिवासी पाड्याजवळ आहेत त्यामुळे आदिवासी संस्कृतीचे अनुकरण झालेले दिसते. (मृत्यूनंतर बात लावली जाते, लग्नात भगत बोलावला जातो, भगताला बोलवून जागरण घातले जाते)
- वाडवळ समाजाच्या शेतीवाडीत काम करणाऱ्या फुदगी समाजावर वाडवळी लम्पगीतांचा प्रभाव दिसतो.
- पालघर तालुक्यातील काही फुदगी लोकां मांगेला समाजासोबत मासेमारी करताना दिसतात. काही वाडवळ समाजाप्रमाणे शेतीवाडी करताना दिसतात. काही फुदगी आगरी समाजाच्या मिठागरांमध्ये काम करतात तर बहुतांश फुदगी आदिवासीप्रमाणे शेतमजुरी करतात.
- मांगेला, वाडवळ, आदिवासी, आगरी समाजातील आडनावे स्वीकारलेली आहेत. (शिनावारी, पटकर, मलकर, राजत, पाटील, नाईक)
- फुदगी समाजावर मांगेला, वाडवळ, आदिवासी, आगरी समाज संस्कृतीचा प्रभाव आहे.



महाविद्यालयीन विद्यार्थ्यांचा बोलीविषयक दृष्टिकोन आणि तो संवर्धित करण्याच्या उपाययोजना

Category - 1

Slot No:

Level - P.G.

गोषवारा

मानवाचा शैक्षणिक विकास हा त्यांच्या बोली भाषांना मारक ठरतो. बोली या गावठी असतात, त्यातून अभिव्यक्त होणे हे अप्रतिष्ठेचे मानले जाते. असा समज प्रचलित आहे. महाविद्यालयीन शिक्षण घेत असताना विद्यार्थ्यांना आपल्या बोली वारश्याची जाणीव आहे का ? हे तपासणे गरजेचे आहे. कारण हाच समूह बोलीभाषा विसरतो आहे आणि हाच समूह बोली जिवंत ठेवू शकतो. या संशोधन प्रकल्पात 'महाविद्यालयीन विद्यार्थी बोली आणि बोली संवर्धना बाबतीत अनभिज्ञ आहेत'. हे अभ्युपगम आहे. संशोधनातून याची सत्यता पटली. विविध तज्ञांच्या बोली संदर्भातील विचारांचा आधार घेत उपाययोजना सुचविल्या आहेत.

प्रस्ताविका

कोणतीही बोली आपले सांस्कृतिक संचित आहे. बोली हा सामाजिक सांस्कृतिक वारसा देखील आहे. आजच्या काळात बोली झपाट्याने नष्ट होताना दिसत आहे. डॉ. गणेश देवी याभाषातज्ञानी 'बोलीसंहार' ही संकल्पना मांडली आहे. जगातल्या अनेक बोली नामशेष झाल्या आहेत. बोलीचे जतन करणे आणि महाविद्यालयीन विद्यार्थ्यांमध्ये बोली संवर्धनाविषयी प्रबोधन करणे. हा या संशोधनाचा हेतू आहे.

उद्दिष्ट/ हेतू:

- 1) महाविद्यालयीन विद्यार्थ्यांचा बोलीविषयक दृष्टिकोन तपासणे.
- 2) बोली संवर्धनाच्या उपाययोजना सुचविणे.

संशोधन पद्धत:

- 1) क्षेत्रीय संशोधन पद्धती
- 2) संवेक्षण
- 3) मुलाखती

प्रत्यक्ष संशोधन

सदर संशोधनासाठी २२ प्रश्नांची प्रश्नावली तयार करण्यात आली. यात वस्तुनिष्ठ स्वरूपातले तर काही प्रश्न वर्णनात्मक स्वरूपाचे आहेत. विद्यार्थ्यांना विस्तृत लिहिण्याची संधी देण्यात आली. हा अभ्यास विशेषतः किनारपट्टीवरील महाविद्यालयात केला. सोनोपंत दांडेकर महाविद्यालय पालघर, अण्णासाहेब वर्तक महाविद्यालय वसई महाविद्यालयातून संवेक्षण अर्ज भरून घेण्यात आले. यास समिश्र प्रतिसाद मिळाला.

निष्कर्ष

- महाविद्यालयीन विद्यार्थ्यांमध्ये बोलीविषयी जागरूकता दिसत नाही.
- त्यांच्या बोलीला 'गावठी' असे म्हणतात.
- त्यांना बोली भाषा आणि प्रमाण भाषा यातील फरक समजत नाही.
- आपल्या बोलीमध्ये कोणते शब्द आता वापरले जातात हे देखील विद्यार्थ्यांना सांगता येत नाही.
- काही अपवाद सोडल्यास सर्व विद्यार्थ्यांना आपली बोलीभाषा ही प्रतिष्ठेची वाटते.
- पालघर जिल्ह्यातील बोली अजुनी कोणत्याही मालिकामध्ये वापरलेली नाही.
- पालघर जिल्ह्यातील आदिवासी बोली ही सोशल मिडीयात वापरली जाते.
- विद्यार्थ्यांना आपली बोली भाषा नष्ट होत आहे याची जाणीव देखील दिसत नाही.
- त्यांना बोली विषयक जाणीव कोणीही करून दिलेली नाही.

उपाययोजना

- महाविद्यालयीन विद्यार्थ्यांचे बोली संदर्भात प्रबोधन करणे.
- बोलीचे महत्व पटवून देणे.
- बोली भाषेमध्ये विविध स्पर्धा आयोजित करणे.
- कोणतीही बोली ही 'गावठी' नसते हे विद्यार्थ्यांना पटवून देणे.
- विद्यापीठीय अभ्यासक्रमांमध्ये बोलीभाषाचा अंतर्भाव करणे.
- बोलीचे नमुने ध्वनिमुद्रित करण्यास प्रोत्साहन देणे.
- अभ्यासक्रमात बोलीभाषांना प्राधान्य देणे.
- बोलीभाषेत साहित्यनिर्मिती करण्याकरिता विद्यार्थ्यांना चालना देणे.

तू पाहनी जाधेल काय?(वारली)

यी कायचेकाय सांगतयं (आगरी)

मी कोकणातला असय(मालवणी)

आज माना शालत जाया निही वाटं(मल्हार कोळी)

University Avishkar Research Convention 2022-23

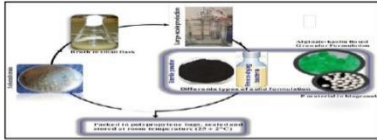
Biofertilizer To Enhance Chlorophyll Contents

ABSTRACT

In the present investigation, comparative studies have been done, to find the effect of air pollutants generated from the exhaust of industries and automobiles on the chlorophyll content of leaves. And finding out nitrogen fixation bacteria, phosphate solubilizing bacteria, and formulation of biofertilizer to overcome the effects of air pollution on plants. The leaves samples of spinach (*Spinacia oleracea*), Fenugreek were collected from areas with potentially higher and lower levels of air pollution. Photosynthetic pigments chlorophyll-a, chlorophyll-b and total chlorophyll were quantified. A reduction in the photosynthetic pigments of plant leaves growing in higher polluted sites as compared to non or less polluted ones. Nitrogen is one of the important elements used during chlorophyll synthesis. The reduction in chlorophyll content is due to degradation of chlorophyll into pheophytin by the loss of magnesium ions. Chlorophyll content may differ in different periods of time under different conditions of pollution stress and different meteorological conditions. The utilization of plant growth promoting rhizobacteria (PGPR) in agriculture is continuously increasing as it offers an effective tool to replace the use of chemical fertilizers, pesticides and other harmful supplements (Ansari et al., 2017, Ansari and Mahmood, 2019a). Growth promoting substances are produced in huge quantities by the action of these rhizosphere microorganisms that directly or indirectly influence the overall morphology and physiology of the crops. Recent advances in the field of sustainable development relies on the use and diversity of PGPR, their colonizing capability and the mechanism of action that may be used to facilitate their application as a dependable element in the management of sustainable agricultural system (Bhattacharyya and Jha, 2012, Di Benedetto et al., 2017, Ansari and Mahmood, 2019a, Ansari and Mahmood, 2019b).

MATERIAL AND METHOD

1. The chlorophyll and carotenoids contents from the heavily air polluted area were quantitatively estimated by Arnon's (1849) method. The results thus obtained were compared with the control.
2. Formulation of biofertilizer by using nitrogen fixing bacteria and phosphate solubilizing bacteria (PSB).
3. Plants grown under formulated biofertilizer and further chlorophyll content were estimated and studied.



CONCLUSION

The total chlorophyll content, chlorophyll-a, chlorophyll-b, estimated by using Arnon's method. Total chlorophyll were found to be less for samples collected from industrial area comparing to samples from non-polluted site. Biofertilizers increase the availability of plant nutrients and can help in maintenance of the soil fertility over a long period. As discussed earlier, some microorganisms have the beneficial role of biological nitrogen fixation to supply nitrogen to crops, solubilizing insoluble phosphates to plant-available (soluble) forms and synthesizing biomass for manuring of crops. Biofertilizers are, therefore, economical, renewable and eco-friendly, but they cannot totally replace chemical fertilizers. Biofertilizer use is an important component of Integrated Nutrient Management and organic farming. These technologies are becoming vital in modern-day agricultural practices. The changing scenario of agricultural practices and environmental hazards associated with chemical fertilizers demand a more significant role of biofertilizers in coming year.

OBJECTIVE

1. N2 Fixation
2. Phosphate solubilization
3. Enhancement of chlorophyll content
4. Reduce aging of vegetable crops



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- E. Manolopoulou1, Th. Vartzakas2 and A. Petsalaki2, Chlorophyll Determination in Green Pepper using two different extraction methods 1Dept. of Crop Production Technological Educational Institute of Peloponnese, School of Agricultural Technology, Food Technology and Nutrition2Department of Food Technology, Antikalamos 24100 Kalamata, Greece. Becky Nancy Aloo 1,* , Ernest Rashid Mbega 2

RESULTS

S1 (*Spinacia oleracea*) -
Family: Amaranthaceae
Method used: Arnon's method
Total chlorophyll= 20.938 ug/ml
Chlorophyll-a = 8.120 ug/ml
Chlorophyll-b = 12.822 ug/ml



S2 (*Spinacia oleracea*) -
Family: Amaranthaceae
Method used: Arnon's method
Total chlorophyll= 22.187 ug/ml
Chlorophyll-a = 8.156 ug/ml
Chlorophyll-b = 14.424 ug/ml



S3 (*Trigonella foenum-graecum*)
Fenugreek:
Family: Fabaceae
Method used: Arnon's method
Total chlorophyll= 23.279 ug/ml
Chlorophyll-a = 8.313 ug/ml
Chlorophyll-b = 14.974 ug/ml



S4 (*Trigonella foenum-graecum*)
Fenugreek:
Family: Fabaceae
Method used: Arnon's method
Chlorophyll= 20.86 ug/ml
Chlorophyll-a = 8.023 ug/ml
Chlorophyll-b = 12.854 ug/ml



17th Avishkar Research Convention 2022-23

Category : Humanities, Languages & Fine Arts Level : UG Slot No :

BINGE (WEB SERIES) WATCHING IN NEW ERA

ABSTRACT

Web series and online streaming material are increasingly popular today across all age groups. With the rise of internet streaming and the production of web series material in India and other nations, web series are rapidly replacing television. Different OTT platforms, including YouTube, Amazon Prime, Netflix, Hotstar, and other platforms, have made significant investments in local content recently. Because they take us places that television won't, web series have become more and more popular in India in recent years. The public can view programmes whenever it's convenient for them thanks to web series and internet streaming. The psychosocial effects of web series and other online streaming content on people of all ages are the main subject of this study. The researcher also looked into how people perceived online streaming and web shows. Information was gathered from the respondents through direct communication and a questionnaire. The respondents ranged in age from 14 to over 40 and came from a variety of institutions, including schools, colleges, universities, and working professionals. As a result, this study encompasses all facets of web series bingeing in the new era that have an impact on an individual's overall performance.



RESEARCH METHODOLOGY

Data Collection

PRIMARY DATA:

- Age group of 14th to above 45 years
- Around 557 respondents for data analysis.
- Data from students Private tuitions, Junior college, Senior college, Post graduate and working professionals.
- Area from Palghar and Dahahu Taluka.
- Structured Questionnaire and Unstructured Questionnaire
- Formal and informal interactions with working professionals

SECONDARY DATA

- Websites on Google.
- International Journals.
- National journals.
- Articles and Newspapers.

OBJECTIVES OF THE STUDY

- To understand the psychological and societal effects of bingeing
- To study whether watching web series has impact on health.

HYPOTHESIS

- Bingeing positively affects on psychologically and socially
- There is relationship between age group and bingeing(web series)

RESULTS AND FINDINGS

- We took around 557 respondents from different age groups females watch more web series than males.
- Age group of 18-25 is more addicted to web series which consist of junior college, graduation and post graduation students.
- Majority respondents believe that they don't get impacted due to watching web series.
- Working professional point of view is they watch web series for knowledge purpose.
- Overall our research study says that Web series are trending more than TV serials due to short episodes and repetitive family dramas. There positive and negative both effects but age group of 18-25 are more towards web series. There Personal, Academic life is also affecting them.

LIMITATIONS OF THE STUDY

- The study is conducted in the geographical Palghar and Dahahu taluka area only
- Study is taken only for specified age group
- Watching series is different based on their personal thoughts, therefore a definite conclusion cannot be drawn

CONCLUSION

The outcome made it quite evident that web series and internet streaming material had a big influence on individuals. The web series content that is displayed on online platforms attracts young people. Youth have been affected psychosocially by the violent, sexual, and abusive content that is available on OTT platforms. They both concur that they have experienced rage, aggression, anxiety, and depression symptoms. If it becomes unmanageable, it will cause significant psychosocial problems for young people.

LITERATURE REVIEW

- Dhiman, B., & Malik, P. S. (2021) "Psychosocial Impact of Web Series and Streaming Content: A Study on Indian Youth"
- Pranit Gupta February 26, 2021 "The Factors Effecting Shift of Indian Customers from T.V Series to Web Series- the Future of OTT Services in India"
- Unnimaya P Devan, Mekha Babu Febi Jstin , Sandy Viju 2021 "Increasing Trend and Effects of Web Series Among Youth"

DATA ANALYSIS AND INTERPRETATION

How long do you usually spend viewing web series in a day? Which OTT platforms do you use to watch the web series? Do you think web series are affecting you socially and psychologically ?



Around 38% Respondents are watching 0-1 hour daily. 48.80% people are watching around 2-3 hours and the age group of 18-25 watches more web series. 35% respondents are using YouTube when we asked them, their answer was its free they don't have to pay. Others are paid and those are using paid their family members are using membership. When asked to the respondents whether the web series and online content have psychological and socially effects on them, 65.40% of respondents said yes, it has an impact on them. While, 34.60% said no, that it never had a psychological impact on them

17th Avishkar Research Convention 2022-23

Category : Humanities, Languages & Fine Arts Level : UG Slot No

LGBTQ: The Rise of Third Gender and Struggle for Societal Acceptance

ABSTRACT

A person's gender identity will be same as or different from their birth. Gender identity is each person's internal and individual choice of gender. The LGBTQ community people faces many problems like they are sexually assaulted, physically attacked and extreme violence when compared to heterosexual peers. Within the LGBTQ community our project exclusively focuses on the TRANSGENDER community. Recently in India Prachi Rathod transgender became a government doctor. Naaz Joshi is India's first transgender International Beauty Queen. The purpose is to find out where transgender community stands in the newly formed Palghar District in the state of Maharashtra.

Methodology

Secondary Data

- We have gathered some information with the help of research papers available on Google websites.
- We also referred to some articles regarding LGBTQ of well known newspapers like TOL.

Primary Data

- We have completed 364 responses on this project surveys.
- Interaction with the Transgender community in Palghar area.

Objectives

- To create safe and inclusive educational/ work environment.
- Make efforts to ensure safe accommodation for LGBTQ community.
- To give them that respect, Dignity, and Equality which is given to heterosexual society.
- Differences adolescence girls and boys on attitude towards lesbian and gay people.

LIMITATIONS OF THE STUDY

- Study was limited to the Palghar Area.
- Study is taken only for specified age group such as 18-25, 25-30, 30-40 & 40 above.
- The main reason behind this is to get equal amount of Employment & Education rights for LGBTQ.
- To make youth understand to support the LGBTQ Organization with positive attitude.
- The reason behind why to made them feel unwelcome at a place of worship.

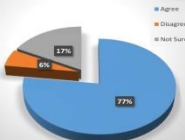
CONCLUSION

- The research basically tends at the conclusion that people are aware and not ashamed of their sexuality.
- Also majority of people agree that LGBTQ community people should get equal rights , opportunities, respect, and dignity.
- The positive responses of people on the question that is there really a need for third gender? shows that people are accepting them and are willing change the stereotypes of there should be only two genders

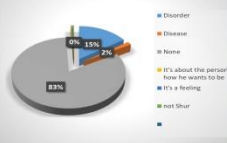
REFERENCE

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- <https://www.bhjustice.org/topics/lgbtq/>
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Do you agree with the decision of court regarding enforcement of Transgender Person's Right Act 2019 ?



Is being LGBTQ a disorder or disease ?



Utilization Of Floral Waste Into Aromatic Amicable Wrist Band

Abstract

Floral waste management is major concern as it accounts 16 % of water pollution. Disposal of flowers in rivers, ponds, etc. lead to water pollution as well as affects the living organisms present in waters. So, the floral waste must to convert into the valuable products like aromatic wrist band from the aromas of the flowers as a waste. This band will act as an aroma therapy and will provide relief by inhaling the fragrance of wrist band. The remaining floral waste material can be used for preparing vermicompost. It is one of the easiest methods to recycle temple flower waste to produce quality compost. This study describes the management of floral waste. This will resolve the problems of disposal floral wastes and ultimately the water pollution will get reduced and when aroma is inhaled the scented molecule in essential oil travels from the olfactory nerves directly to the brain and specially impact the amygdala. Which result into good mental health.

Why Waste Management?

1. One of essential aspects of floral waste management is recycling for conservation of natural resources.
2. Degradation of floral waste is extremely slow process as compared to kitchen waste.
3. During rainy days, the condition get worsen with mosquitoes and flies breeding on floral waste or floral waste may results into breeding ground of diseases.
4. Floral waste management reduces the effects of waste on the environment.

Methods

1. Collection of flowers from temple waste
2. Washing and cleaning
3. Segregation or separation
Extraction of essential oil from temple flowers waste by appropriate method.
4. Formation of aroma to band
5. Packaging of aromatic band

Objectives

1. To minimize the environmental pollution specially water pollution .
2. To get clean surrounding near temple areas .
3. To make valuable and cost effective products .



Applications

1. People will get employment
2. Acts as Aromatherapy
3. Relief from anxiety and depression
4. Clean water bodies
5. Clean surrounding near temple areas
6. Boost feeling of relaxation
7. Cutting your waste disposal cost
8. Finding new source of revenue

Conclusions

1. This research describes the management of floral wastes by conversion into valuable products such as Aromatic Wrist Band .
2. The floral wastes can have important applications in Aroma Industries .
3. This will resolve the problems of disposal of floral waste and ultimately the water and environmental pollution get reduced.

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2. Management of floral waste by conversion to value added products and their applications-M.S.Waghmare , A.B.Gunjil, N.N.Patil.
3. Utilization of floral waste for extraction of valuable products: A close loop approach towards environmental sustainability and waste management- Singh.P , Singh .R , Mishra P.K.

Before



After




Nanoparticle Based Biofilter Using Carbonized Coconut Husk For Effluent Water Treatment

Abstract:- Exponential growth in industrialization increases pollution in the environment. Nowadays, Due to the release of effluent waste water directly into the environment, which can cause severe problems for humans and aquatic ecosystems. Hence, there is need for the removal of toxic heavy metals and dye from effluent wastewater releasing into open waterbodies. Activated carbon based filters are commonly used for removal of heavy metals. Activated carbon remains an expensive material, and therefore the need for safe and economical methods of eliminating heavy metals from natural sources has prompted research interest in the production of low-cost alternatives to commercially available activated carbon. So present study we are making activated charcoal material from the coconut husk as a natural absorbent which will used as a nanomaterial for the biofilter

Research problem

1. Industrial effluents released into open water sources causes harm to aquatic and terrestrial animals.
2. Activated carbon nanoparticle are expensive



Objective

1. To synthesize nanoparticles from Carbonized Coconut Husk.
2. To synthesize membrane from CCH nanoparticles.
3. To characterize nanoparticles (SEM/TEM) and testing for efficiency (UPLC/XRD).

Why carbonized coconut husk???

1. Higher adsorption
2. Inexpensive
3. Easily available
4. Easy to maintain
5. Remove odour
6. Antibacterial property

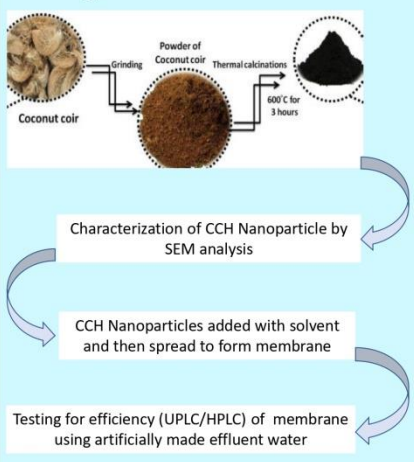


Benefits to society

1. Filters microbial air contamination
2. Prevent toxic chemicals reach into water bodies
3. simultaneous concentration and partial (monovalent ion) demineralization of dairy products.
4. Used for removal of dyes released by textile industry



Methodology



Expected result/ Outcomes

1. Formation of Nanosize particle of Carbonized coconut husk,
2. Heavy metal adsorption capacity in range 75-90%.

Future aspect

1. Can be used for removal of heavy metal from effluent water.
2. Can be used for water purification.

Reference









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HERBAL AIDS TO SAVE USER AGAINST THE COMMON PATHOGENS

CATEGORY : AGRICULTURE & ANIMAL HUSBANDARY

SLOT NO. :

LEVEL: 2

ABSTRACT	ETHNOBOTANICAL PLANTS USED FOR HERBAL PRODUCTS			SURVEY															
<p>Due to increasing micro-organism contamination people are in need of shield against the germs. This research applies use of ethnobotanical studies for making of four herbal products namely Herbal wristbands, Herbal cloth-friendly stickers, Herbal sleeves and Herbal filter pads. These herbal products will save user from the common pathogens present in the environment due to its ayurvedic properties. The ethnobotanical plants used in the research are Vitex negundo and Eucalyptus spp. The extraction procedure is carried out with the help of Soxhlet apparatus and Clevenger apparatus for oil extraction. These herbal aids have aromatic and stress-relieving properties of the herbs. The herbal products are cost effective and biodegradable.</p>	<p>Plant names</p> <p><i>Vitex negundo</i></p> 	<p>Plant part used</p> <p>Extract from dried leaves powder</p>	<p>Major chemical constituent</p> <p>Terpinenn-4-ol, globulol, β-caryophyllene, α-guaiene, sabinene and linalool</p>	<p>Medicinal properties</p> <p>Antiviral, antibacterial, antimicrobial, antioxidants, antimycobacterial and antifungal activities.</p>	<p>Q1. HOW EFFECTIVE ARE HERBAL AIDS AGAINST COMMON PATHOGENS?</p> 														
	<p><i>Eucalyptus spp.</i></p> 	<p>Oil from dried leaves powder</p>	<p>Eucalyptol, terpenoids and other phenolic constituents</p>	<p>Antiviral, antibacterial, antifungal, antimicrobial and therapeutic and aromatic effect.</p>	<p>Q2. WHICH HERBAL PRODUCTS ARE MOST EFFECTIVE?</p> 														
	<p>RESEARCH METHODOLOGY</p> <p>A. COLLECTION OF PLANT MATERIAL - • Collection of leaves • Sun drying • Conversion into powder form</p> <p>B. EXTRACTION PROCEDURE - • In case of <i>Vitex negundo</i> – Soxhlet apparatus • In case of <i>Eucalyptus spp.</i> – Clevenger apparatus for oil extraction</p> <p>C. COATING OF HERBAL PRODUCTS - • Spray technique method • Herbal product subjected to medicinal properties of herbs</p> <p>FINAL PRODUCTS</p> 			<p>Q3. HOW EFFECTIVE ARE HERBAL AIDS AGAINST COMMON PATHOGENS?</p> 															
<p>RESEARCH PROBLEM</p> <p>It is found that people wearing mask, children playing in public parks are facing various problems as mentioned below:</p> 	<p>ZONE OF INHIBITION</p> <table border="1"> <thead> <tr> <th>NUTRIENT MEDIA</th> <th>BACTERIAL CULTURE</th> <th>DAIMETER OF ZONE OF INHIBITION (CM)</th> </tr> </thead> <tbody> <tr> <td>Nutrient Agar</td> <td><i>E. coli</i></td> <td>3.1 cm & 2.8 cm</td> </tr> <tr> <td>Nutrient Agar</td> <td><i>P. aeruginosa</i></td> <td>2.1 cm & 2.3 cm</td> </tr> <tr> <td>Nutrient Agar</td> <td><i>S. aureus</i></td> <td>3.2 cm</td> </tr> </tbody> </table>			NUTRIENT MEDIA	BACTERIAL CULTURE	DAIMETER OF ZONE OF INHIBITION (CM)	Nutrient Agar	<i>E. coli</i>	3.1 cm & 2.8 cm	Nutrient Agar	<i>P. aeruginosa</i>	2.1 cm & 2.3 cm	Nutrient Agar	<i>S. aureus</i>	3.2 cm	<p>Q4. HOW EFFECTIVE ARE HERBAL AIDS AGAINST COMMON PATHOGENS?</p> 			
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<p>OBJECTIVES</p> <ol style="list-style-type: none"> To make use of ethnobotanical plant extracts on the coating herbal products. To protect users against the common pathogens. To reduce the stress levels of users. 	<p>BENEFITS TO THE SOCIETY</p> <p>EMPLOYMENT TO FARMERS GROWING ETHNOBOTANICAL PLANTS</p> <p>EMPOWERMENT TO LOCAL BACHAT GATS</p> <p>HERBAL EXTRACT ALSO HAS MOSQUITO REPELLENT PROPERTIES</p> <p>SOURCE OF INCOME FOR WOMEN SELLING THESE PLANTS</p> <p>WILL MAKE YOU FEEL MENTALLY SAFE</p> <p>WILL CREATE HYGIENCE CUSTOM IN SOCIETY</p> <p>WILL CREATE AWARENESS ABOUT AYURVEDIC PLANTS</p>			<p>COST BENEFIT ANALYSIS</p> <table border="1"> <thead> <tr> <th>HERBAL PRODUCTS</th> <th>COST OF PRODUCTS</th> <th>VALIDITY OF PRODUCTS</th> </tr> </thead> <tbody> <tr> <td>HERBAL FILTER PADS</td> <td>Rs.30</td> <td>30-45 days</td> </tr> <tr> <td>HERBAL SLEEVES</td> <td>Rs.30</td> <td>30 days</td> </tr> <tr> <td>HERBAL WRIST BANDS</td> <td>Rs.10</td> <td>24 hours</td> </tr> <tr> <td>HERBAL CLOTH-FRIENDLY STICKERS</td> <td>Rs.15</td> <td>24 hours</td> </tr> </tbody> </table>	HERBAL PRODUCTS	COST OF PRODUCTS	VALIDITY OF PRODUCTS	HERBAL FILTER PADS	Rs.30	30-45 days	HERBAL SLEEVES	Rs.30	30 days	HERBAL WRIST BANDS	Rs.10	24 hours	HERBAL CLOTH-FRIENDLY STICKERS	Rs.15	24 hours
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<p>WHY HERBAL PRODUCTS???</p> <ol style="list-style-type: none"> Save user against the common pathogens. Aromatic and stress-relieving properties. Cost-effective. User-friendly. No side-effects. Biodegradable. 	<p>CONCLUSION</p> <p>The medicinal properties of herbal extract will save you against the common pathogens. All these herbal aids are user-friendly, stress-relieving and cost effective.</p>																		
<p>REFERENCES</p> <ol style="list-style-type: none"> Kothandan, Sangeetha, and Rajarajan Swaminathan. "Evaluation of in vitro antiviral activity of Vitex Negundo L., Hyptis suaveolens (L) poit., Asian Pacific Journal of Tropical Disease 4 (2014): S111-S115. Cermelli, Claudio, et al. "Effect of eucalyptus essential oil on respiratory bacteria and viruses." Current microbiology 56.1 (2008): 89-92. 																			

Inter – University Avishkar Research Convention 2022-23

Category - II Commerce, Management & Law

Level 2 : (PG)

Demystifying Women Shopping Behaviour Pre and Post Covid 19 in Palghar



Objectives	Problem Statement
<ol style="list-style-type: none"> To study women shopping behavior pre and post covid To find out factors motivating shopping behavior and ultimate buying decision To study the marketing strategies of companies to keep women as a crucial consumer To find out a different perspective on payment methods To understand futuristic trends in retail channels 	<p>Pandemic created newer roadblocks for both online and physical channels. Owing to pandemic it might have resulted in demand derailment in physical channels which in turn will impact retailers . This paper aims to understand the women shopping behavior pre and post covid</p>

Research Methodology	Analysis and Findings
<p>The primary data for the existing research has been gathered via questionnaire form for record collection. The secondary data had been accumulated from numerous reports, web sites, books, and magazines, Newspapers, SSRN, and Research Papers. The respondents are from Palghar District, Maharashtra. The researcher has adopted the Convenient Sampling Method. Approximately 500 respondents were contacted to fill out the survey questionnaire.</p>	<ul style="list-style-type: none"> 21 % of the respondents feel unsafe while shopping online thereby creating space for retailers to work on consumer safety perception Cash on delivery is a preferred mode of payment for 68 % of the respondents followed by UPI (15%), Net banking is the least preferred mode of payment (3%) 73% of the respondents agree they tend to shop online more than physically during Covid 65 % of the respondents agree online shopping is more comfortable than online Food & Beverages is the most purchased product during Covid (30 %) followed by fashion (28%) and medicines (14%) . 60 % of the respondents agreed covid increased their online shopping and 15% of the respondents shopped online for the first time 57 % of the respondents tend to prefer to shop on mobile application followed by website on mobile (24%) indicating mobile commerce is the new era in ecommerce 42% of the respondents prefer Amazon for their online shopping followed by Flipkart (22%) and Meesho (20 %) Two major factors enabling consumers to know about online website are social media (34 %) and word of mouth (18 %) The top 3 parameters for selecting a particular online website are quality (22 %), price (18%) and service (16%)
Conclusion	
<p>To sum up Covid 19 has had a huge influence on women's shopping behavior. Women buyers owing to their financial freedom will continue to buy online even post pandemic. Amazon will emerge as a market leader in Ecommerce industry specially in Palghar District. Social media and word of mouth will drive online website traffic. Consumerism is here to stay as online shopping gets the much-needed growth due to the ease of cash on delivery and UPI payments. There is no substitute for traditional parameters such as quality, price and overall service in shaping consumer buying journey. Mobile commerce will be a major factor driving online ecommerce due to digitization and easy access. Growing number of companies can invest in mobile application to ease shopping experience as youngster prefer mobile commerce. The only research question to be studied ahead is the safety of online transactions which the retailers must incorporate in their business model.</p>	

