

## GARGI EDUCATION INSTITUTE'S

# GARGI AGRICULTURE RESEARCH AND TRAINING INSTITUTE NASHIK.



Asia's First Wine, Brewing and Alcohol Technology College

Affiliated to Savitribal Phule Pune University (Institute Id No. PU/NS/C/149/2009)
Approved by Government of Maharashtra, Accredited By NAAC
ISO 9001:2015 Certified

# 3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

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## INNOVATIVE STUDENT WINE, BREW AND ALCOHOL BEVERAGE PRODUCTION PROJECTS

The GARTI Institute motivates research and innovation by fostering a culture of exploration in alcohol production and beyond. Students are empowered with financial aid and encouraged to pioneer novel alcoholic beverages, nurturing a research-driven ethos among peers and faculty.

we prioritize a culture of exploration in alcohol production and beyond, empowering students with financial aid and encouraging pioneering endeavours in beverage innovation. Our initiatives are strategically designed to promote sustainability, innovation, community engagement, and social responsibility. Through sustainable innovation grants, students receive funding to research eco-friendly brewing and wine making practices, focusing on water conservation and waste reduction. Our experimental Flavors incubator provides a creative space for students to experiment with unconventional ingredients and flavour combinations under faculty mentor-ship, driving innovation within the industry.

Entrepreneurship support is central to our mission, offering resources and mentor-ship for students interested in transforming their projects into viable businesses. We facilitate partnerships with local producers to source sustainable ingredients, emphasizing the unique regional characteristics of our beverages. Our community engagement events series invites participation from the wider community through public tastings, panel discussions, and workshops. Cross-disciplinary collaboration is encouraged, enabling students to tackle complex challenges together, while industry immersion experiences provide practical skills and insights.

Social impact initiatives are integrated into student projects, promoting responsible drinking habits, and addressing social issues related to alcohol consumption. Additionally, our digital innovation hub equips students with tools for effective marketing and distribution in the digital marketplace.

By incorporating these elements into our approach to research and innovation, the GARTI Institute cultivates a dynamic ecosystem that fosters creativity, collaboration, and entrepreneurship in alcohol production and beyond.



## GARGI EDUCATION INSTITUTE'S GARGI AGRICULTURE RESEARCH AND TRAINING

## INSTITUTE NASHIK.

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Name of Students :- Siddhant Mohite & Atharv Tambade

Title: - Vinification From Sapindaceous Fruit.

<u>Product Details:-</u> Vinification from Sapindaceous fruit offers a unique exploration in wine making. Ripe fruit is crushed for juice, fermented with selected yeast, and aged to craft distinctive wines showcasing the fruit's Flavors.



Name of Students: - Akshay Bediskar & Tushar Dhole

Title: - Pineapple-Infused Beetroot Wine.

<u>Product Details:-</u> "Pineapple-infused beetroot wine combines the earthy richness of beetroot with the tropical sweetness of pineapple for a uniquely flavourful and aromatic beverage."



Name of Students: - Kiran Shinde & Hrutiket Khaire & Bhagwat Tambe

Project Title: - Muskmelon Wine.

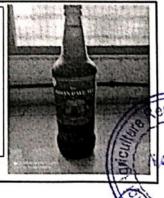
<u>Project Details:</u> -"Muskmelon wine captures the refreshing essence of ripe melons, offering a subtly sweet and aromatic experience with every sip."



Name of Students: - Akshay Awkale & Aniket Arakh

Title: - Indian Pale Ale.

<u>Project Details</u>: - Indian Pale Ale (IPA) is a hop-forward beer style known for its strong hoppy flavor, originally brewed with higher alcohol content to survive long voyages to India during the British colonial era.





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## COLLABORATIVE AGREEMENTS FOR KNOWLEDGE TRANSFER

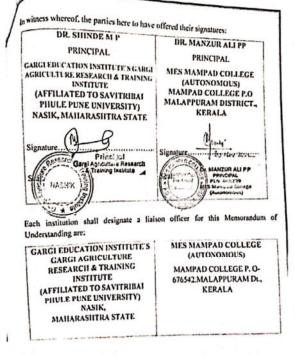
The general objective of MOU is to facilitate and stimulate collaborative and mutually beneficial programme for both campuses. MOU with MES Mampad college, Kerela.

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1	MORANDUM OF UNDERSTANDING (In this NP day of Nanomber 2022	
	Between Department of Wise, Brewing and Alcohol Tech	sology
1 Ga	rgi Agriculture Research & Training Inst Maharashtra State	
	and	
	Department of Food Terbuology	
,	MES Mampad College (Autonomous),	Kerala
the devel apaduction which set Qargi Ag	ral objective of this memorandum of orderstanding is to opponent of cullaborative and mutually hereficial prog- tor of short-term certificate ordine programmes in "Wine- re to enhance the intelhermal life and cultural device- riculture Research & Training Institute, Nasik, M S ar- tys, MES Mampad Colley (Autonomous) has agreed in in the field of education	browing and alcohol" nent of both campuses.
- 1 dis	100 p	SUBTREAM
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al Conducting study through o facilitate learning activity b) Collaborate to offer online Webs 2. The Mot shall a m to achieve a broad balance in the ser benefits and this shall be subject to periodic review by both camp Both the institutions agree to assist is the socking of appropria human resources through virtual mode, teaching aids etc. only by their ent. If any Invasture is not willing to share details of any o they are free to do so. 4. Establish a mutually beneficial MoU between colleges that she creative response to the organizational missions of both im Perform the collaborative activates without any financi Personn the collaborative activities without any flanacial bards institutions. No financial bards of any feet from stadens and stal 6. All the above online activities will be conducted on Gorgi in developed LMS Software "GYANADA & SANWAD".
 The above MoU will come in effect once the loss of Webicare program. Reporting requirements and time trains.

This MeU will commence on 30°I L'0022 fir I yours (Renew every year). This Mod is the complete agreement between Gargi Apriculture Research & Training Institute basis, M.S. and Department of Food Technology, M.S. Mampal College and College a

1. Both educational institutions by









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## MOU WITH BOROTON RESEARCH CENTRE PVT. LTD.

#### MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding (herein after called as the "MoU") is entered into on this the 1th DAY OF January MONTH 2020, by and between

GARGI AGRICULTURE RESEARCH AND TRAINING INSTITUTE (GARTI), Plot. No.29, Sector-45, Naik Farm, Patil Nagar, Near Trimurti Chowk, CIDCO, Nashik-422008, referred as "First Party', the institution which expression ,unless excluded by or repugnant to the subject or context shall include its successors—In office, administrators and assigns)

AND

Boroton Research Centre Pvt.Ltd., 9, Shivsunder Park, Jagtap Mala, Untwadi, Nasik-422008

SECOND PARTY, and represented herein by its CEO, Dr.Yogesh R.Bhadane(hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors--- In office, administrators and assign). (First Party and Second Party are hereinafter jointly referred to as 'Party') as

- A) First Party is a Higher Education Institution named: (i)GARGI AGRICULTURE RESEARCH AND TRAINING INSTITUTE (GARTI), Nashik
- B) First Party & Second Party believe that collaboration & co-operation between themselves will promote more effective use of their resources, and provide each of them with enhanced opportunities.
- C) The Parties to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- E) Boroton Research Centre Pvt.Ltd., the Second Party is engaged in Business, Skill Development, Practical Education & R &D Services in the field of Wine Technology and related fields.
- F) Give related information, its branches, and dimensional information about the industry concerned with which MoU is sworn.













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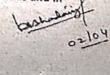


#### CO-OPERATION

- 1.1 Both Parties are united by common interest and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and second party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of the industry, the Secondary Party.

#### CLAUSE 2 SCOPE OF THE MOU

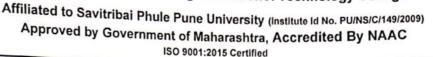
- 2.1. The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.2. Curriculum Design: Second party will give valuable inputs to the first party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3. Industrial training & Visits: Industry and Institution interaction will give an Insight in to the latest development / requirements of the industries; the second party to permit the faculty and students of the first party to visit its group companies and also involve in industrial Training Programs for the first party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition.
- 2.4. Research and Development: Both parties have agreed to carry out the joint research activities in the fields of good Quality Wine making.
- 2.5. Skill Development Programs: Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.6. Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.



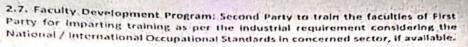




Asia's First Wine, Brewing and Alcohol Technology College







- 2.6. Placement of Trained students: Second party will actively engage to help the delivery of the training and placement of students of the First Party Into internship/ Jobs; and will facilitate placements The Second Party will itself absorb the trained students.
- 2.9. Both parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the programmes on the terms specified herein.
- 2.10. There is no financial commitment on the part of the Gargi Agriculture Research and Training Institute, the First party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately, time to time

#### CLAUSE 3 INTELLECTUAL PROPERTY

3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppels or otherwise, create in either party and right, title, interest on license in or to the intellectual property ( including but not limited to know- how, inventions , patents copy rights and designs) of the other party.

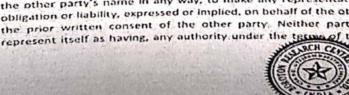
#### CLAUSE 4

VALIDITY

4.1 This Agreement will be valid until it is expressly terminated by either party on mutually agreed terms, during which period Boroton Research Center Pvt Ltd.the second party as the case may be, will take effective steps for implementation of this MOU. Any act on the part of training partner or Good drop Wine Cellar, the second party after termination of this agreement by way of communication, correspondence etc. shall not be construed as an extension of this MOU.

#### CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

5.1. It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construct as a partnership. Neither party is authorized to use the other party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other party, without the prior written consent of the other party. Neither party shall have, nor of this MOU to make









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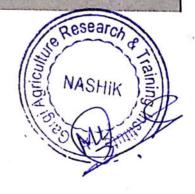


agreements of any kind in the name of or binding upon the other party, to pledge the other Party's credit, or to extend credit on behalf of the other Party. First Party. Any divergence or difference derived from the interpretation or application of the Mou shall be resolved by arbitration between the parties as per the Arbitration act, 1966. The place of the arbitration shall be at Hashik. This undertaking is to be construed in accordance with Indian Law with exclusive Jurisdiction in the Courts of Nashik. AGREED: Boroton Research Center Pvt Ltd. Gargi Agriculture and Training Institute, Nashik Dr. Yogesh. R. Bhadane Mr. Deepak K Kulkarni CEO Administrative Officer **Authorized Signatory Authorized Signatory** Boroton Research Center Pvt Ltd. Gargi Agriculture Research and Training Institute 9 Shivsunder Park Jagtap Mala Untwadi Plot No 29, Survey no. 45, Naik Farm, Patil Nashik 422008 Nagar, Near Trimurti Chowk, Nashik-422008, Maharashtra, India 9422620068 Mobile No.:7588557851/ 7588557852 info@boroton.com E-mail:garticollege@gmail.com www.boroton.com Website:www.gargiedu.com Witness 2:

Witness 1

Biron-

Birari Mikhil Mukund





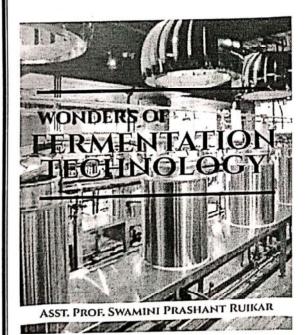


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## PUBLICATION AND RESEARCH PAPER RECORD.

Research and publication in wine technology are essential for driving innovation and progress in the wine industry, and helping winemakers produce high-quality wines that delight consumers around the world. It inspires students for better tomorrow in research and innovation.



ISOLATION, CHARACTERIZATION AND ENCAPSULATION OF LACTOBACILLIUS SPP. TO BE USED AS PROBIOTICS

JSER

RESEARCH PAPER OF ASST PROF RADHIKA LAHAMANGE (GARTI)

BOOK PUBLISHED BY ASST. PROF. SWAMINI RUIKAR (GARTI)





CERTIFICATE OF RESEARCH PAPER BY ASST.PROF. KAVITA BHAVSAR



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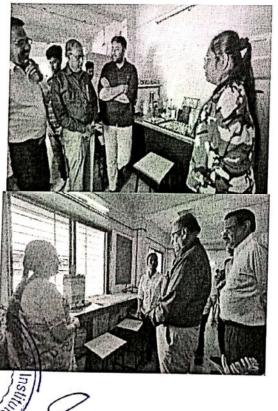


#### WORKSHOP AND SEMINAR DETAIL

workshops and seminars are essential in the wine technology industry as they provide a platform for students to learn, network, and stay ahead of the curve in a rapidly evolving field professional way. By participating in these events, Students can enhance their skills, expand their knowledge, and contribute to the advancement of the industry.

	Name of Program	National Science Day	
1.	Date	28/02/2023	
	Number of Participants	49	

We celebrated national science day on 28th February, 2023. Program's introduction given by Asst. Prof. Swamini P. Ruikar. Our college principal Dr. M. P. Shinde gave information about why we celebrate Science. On this day students made various type of science project and, we arranged science exhibition. Students participated in exhibition very happily.









Asia's First Wine, Brewing and Alcohol Technology College

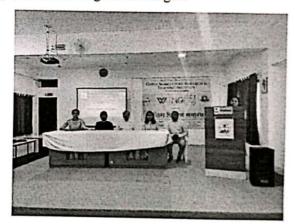
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2	Name of Program	One day skill development worksho	
2.	Date	07/04/2023	
	Number of Participants	57	

We organized one day skill development workshop on 7th april 2023. Program's introduction was given by Asst. Prof. Salunkhe. Mr. A. S. Deore Was chief guest of program he guided to our students about communication skills, soft skills, Interview Skill. He gave speech about better communication point. He interacts with students.

At the end of program vote of thanks given by Asst. Prof. Yogita Kshirsagar.









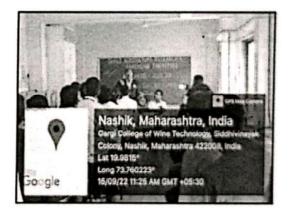
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#### AVISHKAR COMPETITION RECORD

Avishkar is an intercollegiate research competition organized by Savitribai Phule Pune University (SPPU) in Pune, Maharashtra. It is a platform for students to showcase their research and innovation in various fields such as science, engineering, humanities, and social sciences. Participants present their research projects, innovative ideas, and solutions to problems in front of a panel of judges. Institute organized Avishkar Spardha on 15th Sept, 2022 at college level as per university circular. We invited to Dr. S. V. Patil Asst. Professor at R.Y.K. College Nashik, as a judge of this program. Dr. S. V. Patil give information about what is Avishkar Spardha. Students performed various project some related to Wine technology some related to commerce.











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#### NOTICE: AVISHKAR COMPETITION FOR STUDENTS.



GARGI EDUCATION INSTITUTE
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ISO CERTIFIED 9001-2015
NAAC ACCREDITATED 'B'GRADE

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BELATE SHEL ANAVORAD DATTATRAF BACHHAO
19. SANNY NO 45. NIAR FURM PUR NORM, NIARO (2000),
NIARO 40. 200 (20. ), 1. NI REG. (175-27-27-47)
ACCOCKENDEL CONT.

10-00. 10-

दिशोक:- ०२/०५/२०२२

सूचना अविष्कार स्पर्धा सर्व विद्यार्थीसाठी

महाविद्यालवातील सर्थ विद्यार्थांना व शिक्षकांना (MLPhDpb.D. रविस्ट्रेशन केले असेल त्यांनी) कळविष्यात देते की, संशोधक निर्माण करण्याच्या दुर्शने २०११-१०२३ या शैक्षणिक वर्षासाठी साविजीवाई फुले विद्यापीठ अविन्वार स्पर्ध आयोजित करते.

या सर्पेचे स्तर पुढीतत्रमाणे असर्वात

९) प्रथम स्तर्गेव अविष्कार संशोधन स्मर्धा - महाविद्यालयीन स्तर (College Level)

२) बर्रात सर्पेतीत निवडतेत्या रागोधक स्पर्धकांना विभागीय स्वरावर (Zonal Leval) स्पर्पेत पाग पेता

रे) Zonal Leval स्पर्रेतील अतिष स्पर्धकांना Aspire सारख्या संशोधन प्रोतसाहन योबनाशी जोडण्यात येईत.

आयत्वा महाविद्यालयावील जास्तीत जास्त विद्याचीनी वात सहभाग नोंदवाजा, आपसी नाने प्रा.एपिका बराडे व ममदा बावसार बांच्याकडे दिनांक ७ सप्टेंबर २०२२ पर्यंत नोंदवावीत .



(गार्गी अंग्रीकल्चर रिमर्च और ट्रेनिंग इन्स्टिट्यूट)



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NAAC ACCREDITATED 'B'GRADE

Date:- 02/09/2022

Avishkar Research Competition

Guldelines for college level/Zonal Avishkar Competition

1) Participant Poster Size should be 1 m X 1m only.

2) Name of participant should not be on the poster.

3)Name of guide/mentor should not be on the poster.

4) Name of the department or its constituent/affilited colleges or a recognized instit should not be on the poster.

5) Only selected entries will be taken further for Zonal level.

6) The judges decision will be final.



Gargi Agriculture Re







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#### NOTICE OF AVISHKAR GUIDELINE.



#### GARGI EDUCATION INSTITUTE GARGI AGRICULTURE RESEARCH & TRAINING INSTITA ISO CERTIFIED 9001:2015 NAAC ACCREDITATED 'B'GRADE

Affiliated Savitribal Phule Pune University
FOUNDED BY: IATE SIRL ANANDRAO DATTATRAY BACHHAO
Plot No. 29, Survey No. 45, Naik Farm, Paul Neger, Near Timurii Chowk, CiDCO,
Nashik. 422 DOO (M.S.), Tol Fax: 0253-2370474 Email: garticollege@gmail.com Phone 0283-2378474 Mohi 7588587881

Ref. No. Garti/871/2021-22/132

Date:- 23/09/2022

Shrikant Gaikward, Deputy Register, IQAC department, SPPU.

Subject :- To send hard copies and soft copies of entries for Avishkar research competition Respected Sir,

As per your circular number IQAC/70 dated on 01/09/2022, We have organized avishkar competition in our college. This competition is examined by Dr.S.V.Patil from H.P.T and R.Y.K college and by principal Dr.M.P.Shinde sir.

As per your letter we are sending following information to you for futher necessary action.

Sr.No Category Level

UG only Pure science

Thank you

Avishkar coordinator (Asst Prof. R.R.kute)

Enclosed:

1) List of participants

2) Geotaggaed photographs
3) One min video clip of winners
4) A3 size poster of winners
5) Abstract copy of winners

Principal

Your Faithfully

(Dr.M.P.Shinde)
Principal
Gargi Agriculture Research
& Training Institute

NOTICE FOR NECESSARY DOCUMENTS SHOUD SUBMIT FOR AVISHKAR COMPETITION.



Research



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6 mails gartisoflege e gmail.com

Avishkar Competition 2022

PARTICIPANT LIST IN

**AVISHKAR COMPETITION** 

Level - UG

Category -Pure Sciences

	Participant List			
Sr.No	Participant name	Title of project	Class	
1	Nupur Bhardwaj	Production of Dasiffron	T.Y.B.Se (WRAT)	
2	Sumith Dhulam	Production of probletic beer	T.Y.B.Se (WBAT)	
3	Shreyash Zade	Bumblebee mandarius sparkella production	(WBAT)	
4	Suyash pagare	Extraction of Flavonoid from grape	S.Y.B.Se (WBAT)	
5 .	Gayatri Dhangar	Production of wine from	S.Y.B.Se	





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CAMPATERIA SHEET STREET GARGI AGRICULTURE RESEARCH & TRAINING INSTITUTE ISO CERTIFIED 9001;2015 NAAC ACCREDITATED 'B'GRADE

Affiliated Savietbal Phule Plane University

FOUNDED BY: LATE SHRL ANADORAD HATTATRAY FACTHIAD

Plot No. 29, Survey No. 43, No. Fram. Pash Nogar, New Tothard Chowk, CIDCO,
Nashik-422 006 (M.S.), Tel Fax 0255-2378474

Kmail: garticollege or quantitions Phones 0255-2378474 Mebi 754857851

Date - 15/09/2022

Avishkar Competition 2022

Level - UG

Category -Pure Sciences

Selected Project of Winners

Sr.No	Participant name	Title of project	Class
1	Nupur Bhardwaj	Production of Dasiffron	T.Y.B.S
2	Somith Dhulam	Production of probletic beer	T.V.B.S
3	Shreyash Zade	Bomblebee mandarina	T.Y.B.S
3	Shreyash Zade	Humblebee mandarina sparkella production	T.Y.B (WB/



LIST OF WINNERS OF AVISHKAR COMPETITION.





#### GARGI EDUCATION INSTITUTE'S

## GARGI AGRICULTURE RESEARCH AND TRAINING INSTITUTE NASHIK.

B

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## PROJECT REPORT OF STUDENTS PARTICIPATED IN AVISHKAR COMPETITION

Gargi Agriculture Research And Training Institute
(GARTI), Nashik

#### PRODUCTION OF DASIFFRON

#### ABSTRACT

The aim of present work is to establish suitable procedure for production of good quality of wine using dry fruits as main ingredients. Amongst the various dry fruits, by comparing notificional aspects, availability of raw material, ease of handling we have selected dates and raisins. Individually, juices of date and raisins were extracted followed by mixing in 2:1 proportion. The above blended base was fermented by Saccharomyces cerevisiae around 20°C for 8-9 days. The resultant wine can be balanced, medium-heavy bodied with complexity in aroma in sensory characteristic because it retains aroma of date and raisins with additional saffron flavour.

Created by- Miss. Nupur Amol Bhardwaj. Guided by- Prof. Mrs. Rekha Kute Madam



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# AVISIIKAR 2022 GARGI AGRICULTURE RESEARCH & TRAINING INSTITUTE (GARTI). PRODUCTION OF PROBIOTIC BEER

#### Abstract

Many evidences and studies proved that functional foods have large potential in reducing the risk of diseases, which caused in increase in the demand for functional foods. Alcoholic Beverages can be described functional if they do not contain more than 1.2% v/v ethanol (Regulation 2006). The aim is to produce a problotic beer with increased biological value, with the use of probiotic yeast strain known us. Saccharomyces boulardii and tangerine essential oil. The research study of Stoulardii, proved probiotic viability against stomach aclds, bite saits and ethyl alcohol tests. Essential oils add certain biological value to the beverage.



SUBMITTED BY, SUMITH DHULAM, T.Y. BS: WBAT, GUIDED BY, Mrs. BERNA EUTE

#### GARGI AGRICULTURE RESEARCH AND TRAINING INSTITUTE [GARTI], NASHIK

Bumblebee Mandarina Sparkella Production

#### Abstract

The present project is run to establish a suitable procedure for production of blend sparkling wine by Carbonation method using orange and honey. Carbonation Is a value- added process that can affect the mouthfeel, perception of volatile compounds, perception of sweetness enhances its sensory characteristics. Orange Juice and diluted honey were mixed to get a base which further fermented by yeast to obtain a wine of the desirable sensory characteristics i.e., balanced medium bodied, semi-sweet wine with moderate alcohol level retaining its natural characteristics of orange and honey with prickling effect.



Created by - Shreyash Zade. Gulded by - Mrs. Rekha Kute.









Asia's First Wine, Brewing and Alcohol Technology College

Affiliated to Savitribai Phule Pune University (Institute Id No. PU/NS/C/149/2009) Approved by Government of Maharashtra, Accredited By NAAC ISO 9001:2015 Certified

## CHART OF PROJECT REPORT DONE BY STUDENTS FOR AVISHKAR.

