

Prof. Dr. Y. R. Mulay
Vice Principal and
IQAC Co-ordinator,
Dept. of Microbiology
T. C. College, Baramati.
Date: 29/05/2024

To,
The Principal
Tuljaram Chaturchand College, Baramati.

Subject: Report of International Conference on "Biotechnology for a Better Tomorrow" at "Institute of Fundamental and Applied Research, Tashkent, Uzbekistan on 16th and 17th May 2024."

Respected Sir,

I am pleased to submit a detailed report on my recent participation in International conference on "Biotechnology for a Better Tomorrow," which I had the honor of attending on behalf of Tuljaram Chaturchand College in Tashkent, Uzbekistan, on the 16th and 17th of May 2024. This Conference is organized jointly by Tuljaram Chaturchand College, Baramati, Microbiology Society of India, Institute of Fundamental and Applied Research, Tashkent, Uzbekistan, Amity University, Noida, American Microbiological Society in association with the Institute of Fundamental and Applied Research, Tashkent, Uzbekistan.

In the opening ceremony of this conference, Professor Salohidino, International Cooperation National Research University, Tashkent, Uzbekistan, shared his views on the importance of biotechnology in human welfare. It is followed by address of Vice Principal of Tuljaram Chaturchand College, Baramati Prof. Dr. Ashok Kalange gave information about various programs in Tuljaram Chaturchand College. I myself as Convener of conference showcases the importance of biotechnology in the future food and agriculture sector. 70 researchers from Uzbekistan, Russia, Dubai, Kazakhstan, Turkey, Iran, Italy, Russia, Belarus and India participated in the conference.

The conference featured several keynote sessions and presentations by distinguished speakers, including:



2024/Microbiology/ | Int. Conference BTBT2024, Tashkent / Prof. Dr. Y. R. Mulay

Noted
2/2/24
31/05/24

Day I : 15th May 2024

Key Note Session:

Dr. Dilfuza Egamberdieva: Plant microbiome: benefits for sustainable agriculture (Uzbekistan)

Prof. Saverio Mannino: Nanotechnology in food systems. (Italy)

Presentation Session I: Agricultural biotechnology

1. Dr. Chandrakant Khilare: Exploring the potential of AMF on phytochemical profiling and health-promoting parameters of *Acmella calva* (DC.) R. K. Jansen (India)
2. Annamalai Panneerselvam: Edible mushroom cultivation technology and women's self help programme (India)
3. Farhod Eshboyev: Biological activities of the secondary metabolites of endophytic fungi isolated from *Hyssopus officinalis* (Uzbekistan)
4. Munawwar Ali Khan: Biochar combined with plant growth-promoting bacteria promotes tomato seedling growth under a reduced dose of synthetic fertilizer (India)

Presentation Session II: Medical and Pharmaceutical Microbiology

1. Dr. Anil Fokmare: Handling of temperature excursions and the role of stability data in pharmaceutical industries (India)
2. Subban Murugesan: Biogenic synthesis of CuO/ZnFe₂O₄ NCs using *Ulva lactuca* l. extract for photocatalytic degradation of congo red and in vitro biomedical applications (India)
3. Patil Madhuri Pravinkumar: A panoramic study in *Artemisia* pallets for its bioactive compounds and medicinal assets (India)
4. Muzaffar Muminov: "Immune profile of dimer rbd-based anti-coronavirus recombinant protein vaccine" (Uzbekistan).

Presentation Session III: Microbial Biotechnology

1. Dr. S B Dahikar: Biotechnological practices in producing biologically active compounds and innovative foods (India)
2. Dr. Gaurav Shah: Purification and characterization of microbial pigments: applications beyond belief (India)
3. Prof. Dr. Mulay Yogini Ramkrishna: Development of nano biocatalytic model by immobilization of amylase on silver nanoparticles & its application in detergent (India)
4. Murugaiyan Kalaiselvam: Marine microbiology: status, challenges and opportunities (India)
5. Arya Fokmare: Microbial load from birds Feces (India).



Day II: 17th May 2024

1. Prof. Natasa Poklar Ulrich: Micro- and nano-encapsulation of bioactive compounds for agrifood applications (Russia)
2. Prof. Alexei Lodygin: Implementation of functional food ingredients in fermented dairy products technology (Russia)
3. Prof. Vladimir Kurchenko: Chitosan and its derivatives regulate lactic acid synthesis during milk fermentation (Belarus)
4. Dr. Ludmila Alieva. Dr. Maria Shramko: Application of cationic polysaccharide chitosan in value-added dairy products (Online) (Russia)

Presentation Session IV: Modern trends in food and industrial biotechnology

1. Prof. Seid Mahdi Jafari: Adsorption of phenolic compounds from olive mill wastewater by surface-modified montmorillonite; a novel valorization strategy (Online) (Iran)
2. Mohammad Ali Shariati: Utilizing plant extraction to prolong the shelf life of animal-origin products (Online) (Kazakhstan)
3. Prof. Fahrettin Gogus: The valorization of valuable components from food waste by novel technologies (Online) (Turkiye)
4. Prof. Muhtor Nasyrov: Biotechnological methods for obtaining a new products of small ruminant farming in the drylands of Uzbekistan (Uzbekistan)
5. Dr. Andrei Nagdalian: Harnessing the power of metal oxide nanoparticles for pea seeds growth stimulation (Online) (Russia)
6. Dr. Natalia Oboturova: Modern trends and perspectives of food and industrial biotechnology developed at the faculty (Russia)

Presentation Session V: Environmental biotechnology

1. Dr. Tanu Jindal: Extremophiles and biotechnological application (Online) (India)
2. Dr Sarita Bhutada: Investigating anticancer potential: a comparison of synthetic and enzymatically derived gallic acid from *Aspergillus niger* (Online) (India)
3. Dr. Biswajit Rath: Microalgal biotechnology-hypes and hopes (Online) (India).

Conference ended with closing remarks of Dr. Dilfuza Egamberdieva, Head of Ecobiome R&D, National Research University (TIAME), Uzbekistan and Dr. A. M. Deshmukh, President, Microbiologists Society, India

The "Biotechnology for a Better Tomorrow" conference was a highly enriching experience, offering valuable insights into the latest trends and innovations in biotechnology. brought together leading experts, researchers, and academicians in the field of biotechnology,



offering a platform for the exchange of innovative ideas and collaborative opportunities. The knowledge gained and the connections established will significantly benefit our institution's research initiatives. The conference facilitated numerous networking opportunities. I myself feel privileged with several researchers and industry representatives, discussing potential collaborations and exchanging insights.

I presented my research on **“Development of Nano-biocatalytic model by immobilization of amylase on silver nanoparticles & its application in detergent”** which explores a novel approach to enhancing the efficiency and stability of biocatalysts used in detergent formulations. The presentation was well-received, garnering significant interest and positive feedback from both the audience as well as panel of judges.

One of the key achievements of this conference was the signing of a **Memorandum of Understanding (MOU)** with two research institutes namely.

- I) Institute of Fundamental and Applied Research University TIAME, Tashkent,
- II) Uzbekistan and Faculty of Engineering and Biotechnology, University Russian Federation, Russia.

This MOU aims to promote collaborative research, faculty and student exchange programs, and joint academic activities between the two institutions and definitely our college will gain International attention.

I would like to express my gratitude to you and the College administration for giving me opportunity and supporting my participation in this prestigious event. I look forward to discussing the outcomes in more detail and planning the next steps to implement the MOU effectively.

Thank you for your continued support.

Yours Sincerely,



Prof. Dr. Y. R. Mulay

Vice Principal and IQAC Co-ordinator

Department of Microbiology



Dr. Madhuri Patil,
P. G. Co-ordinator,
Department of Botany,
T. C. College, Baramati.
Date: 29/05/2024

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The conference featured several keynote sessions and presentations by distinguished speakers, including:



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09

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I presented my research on A panoramic study in *Artemisia* pallets for its bioactive compounds and medicinal assets (India) which explores medicinal potential and phytochemical investigation The presentation was well-received, garnering significant interest and positive feedback from both the audience and the panel of judges.

I am honored to inform you that my presentation was awarded the Best Oral Presentation Award at the conference. This recognition is a testament to the quality of research being conducted at Tuljaram Chaturchand College and highlights our institution's commitment to excellence in the field of biotechnology.

I would like to express my gratitude to you and the College administration for giving me opportunity and supporting my participation in this prestigious event. Thank you for your continued support.

Yours Sincerely,



Dr. M. P. Patil

Department of Botany

दि. २०/०३/२०२३

प्रति,
मा. प्राचार्य
तुळजाराम चतुरचंद कॉलेज
बारामती

विषय: Study in India अंतर्गत ICC - Vietnam परिषदेचा अहवाल

महोदय

Study in India अंतर्गत इंडियन चेम्बर ऑफ कॉमर्स यांनी Vietnam येथे दिनांक १ फेब्रुवारी ते ४ फेब्रुवारी २०२३ या कालावधीत Vietnam देशामध्ये Nha Trang या शहरात Conference on Co-Operation Promotion India - South Central Provinces of Vietnam या विषयावर आंतरराष्ट्रीय परिषद आयोजित केली होती. त्या अंतर्गत Vietnam Delegation मध्ये आपल्या पुर्व परवानगीने आम्ही दिनांक १ फेब्रुवारी ते ४ फेब्रुवारी या कालावधीत Vietnam येथील Nha Trang येथील परिषदेस उपस्थित राहिलो होतो. दिनांक २६ फेब्रुवारीला पहाटे आम्ही मुंबई येथून Vietnam येथील Ho Chi Minh या शहरात पोहोचलो. दिनांक २८ फेब्रुवारी २०२३ रोजी आम्ही Ho Chi Minh येथून Nha Trang city येथे पोहोचलो. दिनांक १ मार्च २०२३ रोजी परिषदेस सुरवात झाली.

सकाळच्या सत्रामध्ये ०९.३० ते ११.३० या वेळात Muong Thanh Luxury Hotel Nha Trang City येथे Plenary Session झाले. यामध्ये Chairman- Khanh Hoa province श्री मुद्दु मोहन कॉन्सुल जनरल Vietnam. श्री. सत्यम राॅय चौधरी चेअरमन ICC नॅशनल एक्सपर्ट कॅमिटी - Higher Education यांनी सहभाग घेतला. सर्व Indian delegates यांनी आपला व महाविद्यालयाचा परिचय करून दिला.

दुपारच्या सत्रामध्ये डिस्कशन सेशन आयोजित करण्यात आले तसेच बी टू बी मीटिंग आयोजित करण्यात आल्या यामध्ये वेगवेगळे सेक्शन करण्यात आले होते. यामध्ये ट्रेड इन्व्हेस्टमेंट हेल्थकेअर टुरिझम आयटी आणि एज्युकेशन अशा पद्धतीच्या मीटिंग आयोजित करण्यात आल्या. आम्ही एज्युकेशन सेक्शन मध्ये आयोजित आयोजित केलेल्या मीटिंगमध्ये सहभाग घेतला. वेगवेगळ्या विद्यापीठांमध्ये असणारे उपक्रम प्रत्येक टीमने यावेळी सांगितले. आपल्या महाविद्यालयाची व येथे चालणाऱ्या अभ्यासक्रमांची माहिती प्रा.डॉ. अविनाश जगताप यांनी दिल्ली तसेच तेथे उपस्थित असलेल्या भारतातील व Vietnam मधील वेगवेगळ्या शैक्षणिक संस्थांचे



डेलिगेट्स आलेले होते. त्यांच्याशी संवाद साधला. या मीटिंगमध्ये एकूण ४१ डेलिगेट्स यांनी भाग घेतला. त्यावेळी या शहरात असलेल्या विद्यापीठातील प्रतिनिधींची आम्ही संवाद साधला.

दिनांक ०१/०३/२०२३ रोजी Gitarattan International Business School (GIBS) India, New Delhi या संस्थेबरोबर सामंजस्य करार केला. दिनांक २ व ३ मार्च २०२३ रोजी स्थानिक विद्यापीठ तसेच वेगवेगळ्या शैक्षणिक संस्था यांना भेट देण्याचा कार्यक्रम होता. यामध्ये Nha Trang टुरिझम कॉलेज तसेच Nha Trang युनिव्हर्सिटी व्हिएतनाम व Nha Trang इंजिनिअरिंग कॉलेज येथे भेट दिली. या मधील Nha Trang युनिव्हर्सिटी येथील चान्सलर यांच्याशी चर्चा करून आपल्या महाविद्यालयातील इंग्रजी व फुड टेक्नॉलॉजी या विषयात सामंजस्य करार करण्यासाठी चर्चा केली. त्यांनी आपणास वरील विषयांसाठी सामंजस्य करार करण्यासाठी निर्मात्र केलेले आहे. दिनांक ४ मार्च २०२३ रोजी आम्ही हो ची मिन या शहरात आलो ही परिषद संपल्यानंतर आम्ही ६ मार्च २०२३ रोजी मुंबईत परत आलो.

सदर परिषद ही मुख्यत्वे विद्यार्थी व फॅकल्टी एक्सचेंज या दोन विषयावरती आयोजित करण्यात आलेली होती त्यामुळे व्हियेतनाम मधील असलेले विद्यापीठ व आपले महाविद्यालय यामध्ये सामंजस्य करार करून विद्यार्थी व फॅकल्टी एक्सचेंज प्रोग्रॅम आयोजित करण्यात येऊ शकतो.

आपण आम्हास दिलेल्या या संधीबद्दल मा. अनेकान्त एज्युकेशन सोसायटी व मा. प्राचार्य यांचे मनापासून आभार व्यक्त करत आहोत.

आपल्या माहितीसाठी सादर.

आपले विश्वासू

प्रा.डा. अशोक ई. काळगे
भौतिकशास्त्र विभाग

सोबत

- १) सामंजस्य कराराची प्रत
- २) परिषदेचे वेळापत्रक
- ३) छायाचित्रे, माहितीपुस्तके
- ४) खर्चाचा तपशिल



प्रा.डा. अविनाश एस. जागताप
संख्याशास्त्र विभाग



Date : 7/2/2023

To,
The Principal,
Tuljaram Chaturchand College,
Baramati

Sub: Report of Study in India , Nepal Education Expo 2023 Report and Visit to Tribhuvan University for research activities.

Study in India is a program started by the Ministry of Higher Education, Government of India to attract foreign students to India for higher education. Study in India recently organised education expo at Kathmandu and Birgunj in Nepal on 3,4,5 Feb. 2023. Tuljaram Chaturchand College, Baramati was invited by Study in India to participate the expo as it is a partner institution of the program. Twenty nine renowned institutions across the India participated in the education expo. Dr RamchandraSapkal along with Principal Dr ChandrashekharMurumkar were deputed from our college for the education fairs.

Education Expo in Simra – Birgunj wasorganised in hotel Gautam Raj. The expo was inaugurated by Higher education ministry Nepal and Mr Verma, the commissioner of India. About 500 students visited to the expo.

Dr Ramchandra T. Sapkal and Principal (Dr) Chandrashekhar V. Murumkarsuccessfully promoted Tuljaram Chaturchand College at the events. They explained the students the courses taught at the college, scholarships, hostels , food facilities at the mess and socio-cultural environment of the Baramati. The expo were highly successful, where we could introduce Tuljaram Chaturchand College at international level.

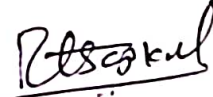
We had meeting with Dr Bhisnm Karki , Director National Research Concil Nepal Kathmandu and discuss about research activities and collaburation. He accepted our

26/2/23

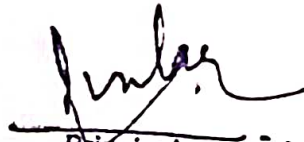
87



invitation to work with us and to work as visiting faculty at department of Physics
Tuljaram Chaturchand College, Baramati, Also we visited to campus of Tribhuvan
University Kathmandu and had meeting with HOD Physics , HOD Botany and
Biochemistry and discuss about the research collaboration activiites in future.



Dr Ramchandra Sapkal



Principal
Tuljaram Chaturchand College
Baramati



Account Details					
Account No	20100397923	Account Open Date	11/09/2007	Nomination Flag	Y
Account Type	SB-Mahabank Salary Saving Acc	Mode of Operation	OPERATING SINGLY		
Total Balance	741.81	Available Balance	741.81	Primary GSTIN	NA
Account Holder Names	Mr. AJAY ARUN DHAWALE				

Customer Details					
Name	AJAY ARUN DHAWALE	CIF Number	10100359472		
Mobile	xxxxxxxxx38	Email	xxxxxxxxxxxxxxxxxxxxxx.com		
KYC Complied	Y	KYC Expiry Date	02/08/2034	CKYC ID	xxxxxxxxx3532
Primary ID Type	ADHAR WITH SAME ADDRESS	Date of Birth	xxxxxxxxx76	Statement Date	02/09/2024
Address	ROW HOUSE NO 1, BLOSSOM CITY TAMBE NAGAR, TAL BARAMATI, PUNE - 413102, Maharashtra				

Home Branch Details					
Branch No	00073	Branch Name	BARAMATI	IFSC	MAHB0000073
Phone No	222341	Email Id	bom73@mahabank.co.in	GSTIN	27AACC80774B124
Address	NAGAR PARISHAD BLDG, BHIGWAN CHOWK, BARAMATI - 413102, MAHARASHTRA				

A. Statement for Account No 20100397923 from 01/03/2021 to 31/03/2021

Sr No	Date	Particulars	Cheque/Reference No	Debit	Credit	Balance	Channel
-1	01/03/2021	IMPS/48/105922335919/50100063729908HDFC/hdfc TO BANK OF MAHARASHTRA	105922335919	2,500.00	-	16,746.50	IMPS
2	02/03/2021	IMPS/48/106119817027/50100063729908HDFC/hdfc TO BANK OF MAHARASHTRA	106119817027	4,000.00	-	12,746.50	IMPS
3	03/03/2021	MP-TULJARAM CHATURCHAND-V No 102 FRM TULJARAM CHATURCHAND COLLEGE BARAMATI		-	1,29,646.00	1,42,392.50	22222-PAYMENT HUB
4	04/03/2021	IMPS/48/106306257815/50100063729908HDFC/hdfc TO BANK OF MAHARASHTRA	106306257815	20,000.00	-	1,22,392.50	IMPS
5	04/03/2021	652229XXXXX0199 106317007007 S1CNQ248	106317007007	10,000.00	-	1,12,392.50	ATMPOS
6	06/03/2021	MP-TULJARAM CHATURCHAND-V No 110 FRM TULJARAM CHATURCHAND COLLEGE BARAMATI		-	13,500.00	1,25,952.50	22222-PAYMENT HUB
7	06/03/2021	trf sppu bill unit		-	99,817.00	2,25,769.50	1355-PUNE UNIVERSITY CAMPUS
8	10/03/2021	IMPS/48/106906700005/50100063729908HDFC/hdfc TO BANK OF MAHARASHTRA	106906700005	40,000.00	-	1,85,769.50	IMPS
9	16/03/2021	IMPS/48/107510478170/30255377927SBIN/sbi TO BANK OF MAHARASHTRA	107510478170	50,000.00	-	1,35,769.50	IMPS
10	17/03/2021	IMPS/48/107620175878/30255377927SBIN/sbi TO BANK OF MAHARASHTRA	107620175878	7,000.00	-	1,28,769.50	IMPS
11	18/03/2021	IMPS/48/107711640304/30255377927SBIN/sbi TO BANK OF MAHARASHTRA	107711640304	15,000.00	-	1,13,769.50	IMPS
12	19/03/2021	IMPS/48/107816092614/50100063729908HDFC/hdfc TO IMPS PAYABLE POOL ACCOUNTS	107816092614	5,000.00	-	1,08,769.50	IMPS
13	22/03/2021	IMPS/48/108118070062/30255377927SBIN/sbi TO IMPS PAYABLE POOL ACCOUNTS	108118070062	2,000.00	-	1,06,769.50	IMPS
14	23/03/2021	652229XXXXX0199 108215767453 BS001702	108215767453	3,500.00	-	1,03,269.50	ATMPOS
15	25/03/2021	NEFT PUNBH21084355640 PRINCIPAL S MAHB210840536644	PUNBH21084355640	-	1,080.00	1,04,349.50	8008-NEFT/RTGS CELL
16	29/03/2021	IMPS/48/108820830037/50100063729908HDFC/hdfc TO IMPS PAYABLE POOL ACCOUNTS	108820830037	2,500.00	-	1,01,849.50	IMPS
17	30/03/2021	652229XXXXX0199 108910311312 OZ0073S1	108910311312	10,000.00	-	91,849.50	ATMPOS
18	30/03/2021	COR CSH WDL		-	10,000.00	1,01,849.50	ATMPOS
19	30/03/2021	652229XXXXX0199 108915914490 BS001702	108915914490	10,000.00	-	91,849.50	ATMPOS
20	30/03/2021	FRM VPS VINODKUMAR GUJAR BAL VIKAS MANDIR AJAY ARUN DHAWALE	357360	-	5,000.00	96,849.50	73-BARAMATI
21	31/03/2021	BY INTT		-	647.00	97,496.50	9999-CENTRAL OFF

B. Summary for Account No 20100397923 from 01/03/2021 to 31/03/2021

Total Transaction Count	21	Opening Balance	19,246.50
Total Debit Count	14	Total Debit Amount	1,81,500.00
Total Credit Count	7	Total Credit Amount	2,59,750.00
		Closing Balance	97,496.50

File Name : FEQ/2019/000122

Investigator Name : MILIND HEMRAJ GAJBHIYE

Project Title : Bacterioidal bacteriophages consortium: A novel tool for the biocontrol of oily spot disease of pomegranate

Statement of Expenditure

1st April 2022 to 31st March 2023 of the financial year 2022-23

Sr. No.	Sanctioned heads	Total funds allocated (indicate sanctioned or revised) (III)	Expenditure incurred				Total expenditure till 26 Nov. 2022 (VIII=IV+V+VI+VII)	Balance as on 31/03/2023 (IX=III-VIII)	Requirement of funds up to 31 st March next year	Remarks if any
			1 st year (27 th Nov 2019 to 31 st Mar, 2020) (IV)	2 nd year (1 st April 2020 to 31 st Mar 2021) (V)	3 rd year (1 st April to 31 st Mar 2022) (VI)	4 th year (1 st April 2022 to 26 Nov. 2022) (VII)				
1	Manpower costs		78100	409200	409200	301546	1198041	72746		
2	Consumables		0	86394	104817	182931	374142			
3	Travel	2022000	920	10006	27293	52711	90930	8173		
4	Contingencies		31890	18368	50577	49165	150000	0		
5	Overhead expenses		0	82900	82900	82900	248700	0		
6	Other cost		0	29984	29736	20280	80000	0		
7	SSR		0	0	10000	0	10000	0		
8	Equipments (N.R)	442500	440003	00	00	2497	442500	0		
9	Interest (if any)									
	Total	2464500	550913	636852	714523	692030	2594318	80919		

Dr. Milind Hemraj Gajbhiye

Signature Registrar
Tuljaram Chaturchand College
Hed of the Institution Pune

Date: 31.03.2023

[Signature]

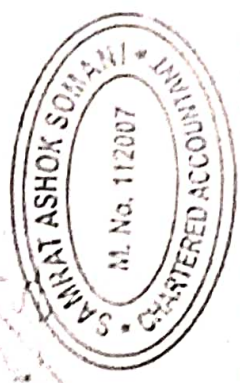
Signature Registrar
Tuljaram Chaturchand College
Hed of the Institution Pune

Date: 31.03.2023

[Signature]

Principal
Signatures of Competent financial authority:
Tuljaram Chaturchand College
Bar.am(With seal) Date: 31/03/2023

Date: 31/03/2023



UDIN: 23112007156272156