Pune District Education Association's
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune- 411028
Affiliated to Savitribai Phule Pune University, Pune

Self Study Report: 2024 (4th Cycle)

Criterion – 3
Research, Innovation and Extension

Key Indicator 3.2- Innovation Ecosystem

Metric: 3.2.1(QlM)

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL BENGALURU

Innovation Ecosystem

and

Research Incubation Center

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14	MOU Maharashtra Information Technology Support Center, Maharashtra & PDEA'S, Annasheb Magar Mahavidyalaya, Hadapsar, Pune	144 to 165
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List of Research Center's

Sr. No	Research Center Department Names
1	Commerce
2	Chemistry
3	Economics
4	Marathi
5	Physics
6	Microbiology
7	Environmental Science
8	English

List of Research Guide's

PDEA's

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28

Research Centers Details (2023-24)

Sr. No	Research Centre Name	Centre Affiliation Dates	Guide Name (In House)	Recognition Dates
1	Commerce	2021-22 to 03/12/2028	Prin. Dr. Nitin Ghorpade L	07/09/2018 to 06/09/2026
			Dr. Auti S. S.	19/12/2021 to 13/04/2029
			Dr. Satav G. P.	06/02/2018 to 19/12/2025
			Dr. Mulay P.P.	04/12/2020 to 03/12/2028
2	Economics	2022-23 to 2025-26	Dr. Sasane A N	04/12/2020 to 31/05/2026
3	Marathi	2021-22 to 2025-26	Dr. Sasane P	24/12/2020 to 23/12/2028
			Dr. Zagade N	22/3/2021 to 21/3/2029
4	English	2023-24	Dr. Dhiraj D. J.	11/05/2022 to 25/06/2038
5	Chemistry	2021-22 to 09/05/2022	Dr. Nikam L.	30/11/2017 to 29/11/2025
6	Microbiology	2021-22 to 14/04/2024	Dr. Patil N. N.	4/9/2019 to 14/4/2024
			Dr. Khisti U. V.	4/9/2019 to 16/5/2025
			Dr. Shinde S. R.	5/1/2022 to 24/11/2041
7	Physics	2021-22 to 2025-26	Dr. Mene R. U.	07/09/2018 to 06/09/2026
			Dr. Joshi R. P.	20/09/2021 to 21/05/2029
8	Environment Science	2023-24 to 2027-28	Dr. Giramkar S. V.	30/11/2017 to 29/11/2025
			Dr. Ranadive K. R.	19/12/2019 to 18/12/2027
			Dr. Danai-Tambhale S. D.	19/12/2019 to 19/11/2026
			Dr. Patil N. N.	20/03/2019 to 14/04/2024

List of Research Student's Admitted For Ph.D.

List of Research Students Admitted for Ph.D.

Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
1	21030179919	Govind Suryakant Namde	Dr. Satav G. P.	Commerce- Business Administration	“यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ नाशिक अंतर्गत येणाऱ्या अभ्यासकेंद्रांच्या प्रशासकीय कार्यपद्धतीचा विश्लेषणात्मक अभ्यास”	NT-(B)
2	22030176213	Chandrashekhar Dinkar Kale	Dr. Satav G. P.	Commerce - Business Administration	“महाराष्ट्र शासनाकडून पुरविल्या जाणाऱ्या पायाभूत सुविधांच्या उपलब्धतेचा पुणे जिल्हातील महाराष्ट्र राज्य औद्योगिक विकास महामंडळ मधील लघुउद्योगाच्या विकासावर झालेल्या परिणामांचा अभ्यास”. (संशोधन कालखंड-२०१२ ते २०२२)	NT-(C)
3	21030058623	Bharat Bhauso Raut	Auti Shubhangi Sunil	Commerce - Business Adminis	सर्व शिक्षा अभियानाच्या निधीचे वितरण व त्याच्या परिणामकारकतेचा विश्लेषणात्मक अभ्यास.	OBC
4	21030086463	Kaveri Dattatraya Suryavanshi	Mungi Ashlesha Ram	Commerce - Business Administration	इलेक्ट्रॉनिक वाहन उत्पादकांच्या प्रशासकीय समस्या व आव्हाने यांचा चिकित्सक अभ्यास-	OBC
5	22030032829	Madhumanjiree Abhaykumar Oak	Auti Shubhangi Sunil	Commerce - Business Administration	A Study of Human Resource Affected by Technological Advancement in Food Processing Industries	Open
6	2203006052	Pratik Andai	Ghorpade Nitin	Commerce - Business	एकल विक्रयाधिकार (फ्रेंचायझिंग) उद्योगाच्या व्यावसायिक संधी व	Open
7	22030080513	Sameer Bhagwan Gaikwad	Auti Shubhangi Sunil	Commerce - Business Administration	Role of Leadership in Enhancing Performance of Sales Team with reference to Construction Industry in Pune	SC
8	21030220311	Vandana Ramdas Joshi	Dr. Satav G. P	Commerce - Business Administration	पुणे महानगरपालिकेतील स्मार्ट सिटी अंतर्गत विविध प्रकल्पांच्या व्यवस्थापनाचा चिकित्सक अभ्यास	ST
9	22030076712	Ulhas Baban Langote	Mulay Prashant Prabhakar	Commerce - Statistics and Computer Applications	“A NEW APPROACH TO FIND Pth ROOT OF A SQUARE MATRIX USING IT’S CHARACTERISTIC EQUATION AND IT’S STATISTICAL COMPARISON WITH OTHER METHODS”.	OBC

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
10	21030019351	Abdul Samad Riyaz Ahmed Khan	Mulay Prashant Prabhakar	Commerce - Statistics and Computer Applications	“To Study the Performance Evaluation of Students on Virtual Mode Using Data Mining and Opinion Mining Techniques”	Open
11	21030109319	Vinaya Umesh Nimbolkar	Mulay Prashant Prabhakar	Commerce - Statistics and Computer Applications	“To Propose a Paradigm for Mobile App Developers by Adopting Privacy by Design for Data Privacy Leakage by Android Apps”	Open
12	21030230925	Pratiksha Wahul	Mulay Prashant Prabhakar	Commerce - Statistics and Computer Applications	A Study Of Trends In Digital Payment Modes Adopted By The Customers Of Cooperative Banking Sector After Demonetization Using Data Mining Techniques	SC
13	21030079993	Shaila Baburao Dhotre	Bhujbal Namdeo Nivrutti	Chemistry	Synthesis, characterization and comparative study of Cu doped TiO2 by sol-gel and hydrothermal method and its effects on degradation of dyes.	OBC
14	21030094434	Amol Shantaram Bhosale	Bhujbal Namdeo Nivrutti	Chemistry	Synthesis and characterization of Zn doped TiO2 and its application for the degradation of spent wash colour.	Open

List of Research Students Admitted for Ph.D.

Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
15	21030250371	Ketaki Kedar Saravate	Kulkarni Madhuri Sanjeev	Chemistry	Designing of green methods for the synthesis of N-heterocycles and study of their anti-microbial activity	Open
16	21030167053	Netaji Popat Mali	Bhujbal Namdeo Nivrutti	Chemistry	Synthesis, characterization and comparative study of Ce and Zr doped ZnO and its applications for degradation of amine industrial waste.	Open
17	21030166641	Revati Rahul Nagarkar	Kulkarni Madhuri Sanjeev	Chemistry	Study towards green organic transformations through interactions of electrophilic conjugated systems and dinucleophiles	Open
18	22030180095	Archana Anil Ghadge	Shinde Shubhangi Rajkumar	Microbiology	Microbial Synthesis of Iron Oxide Nanoparticles and their Potential For Remediation of Phosphates and Nitrates in Dairy Effluent	EWS
19	22030042772	Seema Dattatray Sherkar	Patil Neha Nitin	Microbiology	“Biosynthesis of Titanium dioxide (TiO2) nanoparticles: their agro applications as nanobiofertilizer, nanobiopesticides and antibiotic nanoparticle conjugates”	EWS

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
20	21030040015	Meghmala Sheshrao Waghmode	Patil Neha Nitin	Microbiology	Screening, Isolation and Identification of microorganisms for bioremediation and ecotoxicological studies on Acetaminophen and Hydroxychloroquine as pharmaceutical micropollutants.	NT-(C)
21	21030106491	Urmila Shankar Dhanagar	Shinde S. R.	Microbiology	Studies on Bioremediation of textile dyes using Silver and Titanium oxide Nanoparticles synthesized by fungal isolate.	NT-(C)
22	21030002127	Mrunal Rajendra Mulay	Patil Neha Nitin	Microbiology	Studies on Biofabrication of Zinc and Copper Nano Biofertilizers, Nano Biopesticides and Production of Zinc Nano Compounds for Human Health.	OBC
23	21030197247	Prajkta Chetan Shinde	Khisti Ujwala Vinayak	Microbiology	Production of Microbial Surface Active Agents and Agriculture Applications of the Conjugates with Cu and Zn Nanoparticles.	OBC
24	21030052902	Anita Ramnath Pardeshi	Patil Neha Nitin	Microbiology	Identification of Biomarkers for Detection of Microbial Spoilage in Grape Juice.	Open

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
25	21030054146	Mamta Ganpati Jangave	Shinde S R	Microbiology	Role of Nanomaterials in Microbial Bioremediation of Pesticide.	Open
26	21030086158	Poonam Dnyaneshwar Jagtap	Khisti Ujwala Vinayak	Microbiology	Studies on biocontrol potential of microorganisms isolated from crop plants in sustainable agriculture	Open
27	21030083584	Shrihari Bhimrao Kale	Patil Neha Nitin	Microbiology	Production of Microbial Pigments and their Potential in Biomedical and Industrial Applications.	Open
28	21030107290	Vasundhara Tukaram More	Khisti Ujwala Vinayak	Microbiology	Microbial Diversity Profiling of Endosphere of Commercial Horticulture Crops and Evaluation of Their Potential in Sustainable Agriculture.	Open
29	21030033253	Vishakha Pravin Jadhav	Khisti Ujwala Vinayak	Microbiology	Studies on Epiphytic and Endophytic Microorganisms from Mangifera indica and their Applications in Agriculture.	Open
30	21030227805	Arti Ashok Indais	Khisti Ujwala Vinayak	Microbiology	Screening and Isolation of Plant Growth Promoting Bacteria from Allium cepa and Allium sativum Rhizosphere and their Potential against Plant Pathogens.	SC

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
31	21030015611	Komal Mohan Gajarmal	Patil Neha Nitin	Microbiology	Synthesis of Copper Nano particles Using Moringa oleifera Plant : Its Application as a Sustainable Alternative in Agriculture and Water Purification.	SC
32	21030221618	Pravin Vilas Kurkute	Joshi Ramakant Prabhakar	Physics	Synthesis and characterization of metal doped Bismuth Based Vanadium Oxide (BiVO4) for photocatalytic activity	EWS
33	21030181764	Rahul Hanumant Vishwase	Kulkarni H R	Physics	SYNTHESIS AND CHARACTERISATION OF MANGANESE DOPED NICKEL OXIDE REDUCED GRAPHENE OXIDE COMPOSITE FOR SUPERCAPACITOR APPLICATIONS	EWS
34	21030014219	Vaibhav Swami Kanke	Katkar S A	Physics	Synthesis and Characterization of Metal Ferrites (MXFe2O4, X=Co, Cu, Mn, Ni) Nanostructures for Energy Storage Devices	EWS
35	21030022602	Vyankati Rama Jadhav	Bhise R B	Physics	SYNTHESIS AND CHARACTERIZATIO N OF RARE EARTH Sm3+ DOPED IN ZnMgFe2O4 NANOCRYSTALLINE FERRITE MATERIALS FOR GAS SENSING APPLICATION	NT-(B)
36	21030156364	Mahadev Agatrao Parekar	Mene Ravindra Udayrao	Physics	Studies on Metal Oxides- Polymer Nanocomposites for Supercapacitor Applications	NT-(C)
37	21030069632	Fakir Altaf Isuf	Kulkarni Harishchan dra Ramchandr a	Physics	SYNTHESIS AND CHARACTERIZATIO NS OF CERIUM DOPED VANADIUM OXIDE REDUCED GRAPHENE OXIDE COMPOSITE FOR SUPERCAPACITOR APPLICATION	OBC

List of Research Students Admitted for Ph.D.

Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
38	21030150749	Kiran Dattatray Gawade	Bhise R B	Physics	INVESTIGATION OF STRUCTURAL, MAGNETIC, DIELECTRIC AND ELECTRIC PROPERTIES OF RARE EARTH Er3+ DOPED IN ZnCuFe2O4 NANOFERRITE MATERIALS USING SOL-GEL AUTOCOMBUSTION TECHNIQUE	OBC
39	21030003007	Manoj Vitthalrao Junnarkar	Joshi Ramakant Prabhakar	Physics	Synthesis, Characterization and Antimicrobial Activity of Mixed Metal Ion Doped Hydroxyapatite for Biomedical Application.	OBC
40	21030103327	Pranali Ashok Ghule	Pisal Sunanda Harischandra	Physics	Investigation on Titanium dioxide (TiO2)-Cuprous Oxide (Cu2O) Heterostructures for Dye-Sensitized Solar Cell Applications	OBC
41	22030006458	Tanuja Mukund Pandit	Katkar Amar Shankar	Physics	Synthesis and Characterization of Aluminium doped Metal Ferrites (MxFe2O4, X= Co, Zn, Mg, Mn) Nanostructures for Supercapacitors	OBC
42	21030232128	Chetankumar Dattatraya Chavare	Kulkarni Harishchandra Ramchandra	Physics	SYNTHESIS AND CHARACTERIZATIONS OF NICKEL COBALT PHOSPHATE REDUCED GRAPHENE OXIDE COMPOSITE FOR SUPERCAPACITOR APPLICATION	Open

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
43	21030031144	Mahesh Govind Bagal	Pisal Sunanda Harischandra	Physics	INVESTIGATION OF MAGNESIUM COBALT OXIDE FOR SUPERCAPACITOR APPLICATION	Open
44	21030211828	Mitali Somnath Pawase	Katkar Amar Shankar	Physics	SYNTHESIS AND CHARACTERISATION OF RARE EARTH Sm3+ DOPED IN NiCoFe2O4 NANCRYSTALLINE FERRITE MATERIALS FOR ENERGY STORAGE DEVICES	Open
45	21030015987	Nandkumar Dnyaneshwar Veer	Bhise Ramesh Baburao	Physics	GREEN SYNTHESIS AND CHARACTERIZATION OF RARE EARTH MATERIAL DOPED WITH COBALT-ZINC SPINEL FERRITES FOR ENERGY STORAGE APPLICATION	Open
46	21030146450	Rajaram Baliram Raut	Kulkarni Harishchandra Ramchandra	Physics	Synthesis and characterization of Cerium doped Nickel-Magnesium spinel Ferrite nano composite for supercapacitor application	Open
47	21030128296	Ramdas Sopan Bhilare	Pisal Sunanda Harischandra	Physics	Synthesis and Characterisation of Nickel-Manganese Spinel Ferrite for Supercapacitor Applications	Open
48	21030106072	Shamal Dilip Dhamale	Joshi Ramakant Prabhakar	Physics	Study of the performance of TiO2-WO3 nanostructures for the Dye Sensitized Solar Cell Application	Open

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
49	21030223351	Sudhakar Abhiman Chavan	Kulkarni Harishchandra Ramchandra	Physics	SYNTHESIS AND CHARACTERIZATIONS OF CERIUM DOPED NICKEL OXIDE REDUCED GRAPHENE OXIDE COMPOSITE FOR SUPERCAPACITOR APPLICATION	Open
50	21030105189	Alhat Sachin Khandu	Kulkarni Harishchandra Ramchandra	Physics	WO3 and TiO2 Based Metal Oxide Nanostructures for Optoelectronics and Environmental Applications	SC
51	22030083076	Ashvini Ramdas Morey	Joshi Ramakant Prabhakar	Physics	Investigation of the Performance of SnO2-WO3 Nanostructures for the Dye-Sensitized Solar Cell Applications	SC
52	21030045928	Ganesh Haribhau Tupe	Katkar Amar Shankar	Physics	Hybridization of Polyaniline (PANI) nanostructures with the Carbon Nanomaterial for energy storage devices	SC
53	21030253791	Jitendra Chandrabhan Satpute	Mene Ravindra Udayrao	Physics	Synthesis and Characterisation of Metal Oxide-Conducting Polymer Nanocomposite for Gas Sensing Application	SC
54	21030214799	Kranti Prakashrao Hasnalkar	Bhise Ramesh Baburao	Physics	Synthesis of Tb3+ Substituted in Co-Zn Ferrite Nanoparticles for Energy Storage Devices	SC

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
55	21030127338	Sanchita Vishwas Chavan	Pisal Sunanda Harischandra	Physics	SYNTHESIS AND CHARACTERISATION OF RARE EARTH Dy3+ DOPED IN ZnCuFe2O4 NANOCRYSTALLINE FERRITE MATERIALS FOR GAS SENSING APPLICATION	SC
56	21030054715	Kalpana Bharat Lende	Kulkarni Harishchandra Ramchandra	Physics	Study of Physio-Chemical behavior of Ion-solvent Interactions in Aqueous and Non-Aqueous solutions at different temperatures by using Ultrasonic Technique	ST
57	21030151368	Nilima Ramdas Joshi	Shelke Pandit Nivrattirao	Physics	Investigation of Graphene oxide and mixed metal oxide nanocomposite by sensing application	ST
58	21030138431	Dilip Madansing Pawar	Sasane Ashok Namdev	Economics	“औद्योगिक वसाहतीमुळे झालेल्या आर्थिक व सामाजिक विकासाचा चिकित्सक अभ्यास विशेष संदर्भ: शिरूर, दौंड व हवेली तालुका (२०१५ ते २०२२)”	DT-(A) / VJ
59	21030208725	Prakash Devchand Pawar	Mane Anant Bapurao	Economics	आर्थिकदृष्ट्या दुर्बल घटकांच्या विकासाकरिता शाश्वत विकासाच्या शून्य उपासमार ध्येयासंदर्भात राबविण्यात येणाऱ्या योजनांचा अभ्यास - (विशेष संदर्भ ठाणे जिल्हा)	DT-(A) / VJ
60	21030051833	Swati Deepak Waghmode	Gavhale Balu Vaman	Economics	पुणे विभागातील शेतकरी उत्पादक कंपन्यांची ‘कृषी मूल्य साखळी’ विकासातील भूमिका (२०११-२०२१)	NT-(C)

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
61	21030015099	Vishnu Mahadev Gundre	More Bhimrao Pandurang	Economics	मराठवाड्यातील विविध पर्यटन स्थळांचा आर्थिक अभ्यास (विशेष संदर्भ: औरंगाबाद, उस्मानाबाद आणि लातूर) २०१२- २०२१	NT-(C)
62	21030134576	Ganesh Maruti Zurunge	Gavhale Balu Vaman	Economics	पुणे जिल्ह्यातील शेतीपूरक व्यवसायांसंबंधित शासकीय योजनांचा अभ्यास	OBC
63	21030024588	Rohit Sopan Baravkar	Gavhale Sandipan Raghunath	Economics	" जिल्हा मध्यवर्ती सहकारी बँकेने वितरित केलेल्या कर्जाचे शेती विकासातील योगदान " (संदर्भ: पुणे जिल्हा मध्यवर्ती सहकारी बँक) सन २०१०-११ ते २०२०-२१	OBC
64	21030207000	Sarika Parasharam Bagawade	Mane Anant Bapurao	Economics	सांगली जिल्ह्यातील शासकीय वित्तपुरवठा आणि समावेशक आरोग्याचा अभ्यास (२०१२-२०२२)	OBC
65	21030223224	Vitthal Kadubal Devadhe	Sasane Ashok Namdev	Economics	बँक ऑफ महाराष्ट्राने पुणे जिल्हा ग्रामीण विकासासाठी केलेला कृषी व बिगरकृषी कर्ज पुरवठ्याचा तुलनात्मक अभ्यास (सन 2011-12 ते 2021-22)	OBC
66	21030168780	Apar Sharma	Thopate Mahadeo Gulabrao	Economics	"A STUDY OF SOCIO-ECONOMIC GENDER IMBALANCES IN HIGHER EDUCATION: WITH SPECIAL REFERENCE TO DELHI NCR"	Open

List of Research Students Admitted for Ph.D.

Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
67	21030052567	Ashwini Prabhakar Bhoite	More Bhimrao Pandurang	Economics	A Study of Correlation of Indian Share Market and Indian Economy from 2015 to 2025	Open
68	21030213097	Nita Shivaji Shinde	Sasane Ashok Namdev	Economics	“पुणे जिल्ह्यातील कुक्कुटपालन व्यवसायाचा ग्रामीण अर्थव्यवस्थेवरील आर्थिक व सामाजिक परिणामाचा एक विशेष अभ्यास” (सन -२०११-१२ ते २०२१-२२)	Open
69	21030112514	Nitin Pandurang Khartode	Kamble Chandrakant Pandurang	Economics	Economic Analysis of Livestock in Maharashtra Special Reference with Pune District 2011-12 to 2021-22	Open
70	21030047502	Pournima Tukaram Pachpute	More Bhimrao Pandurang	Economics	पुणे जिल्ह्यातील महिला स्वयंसहाय्यता बचत गटांचा ग्रामीण विकासातील योगदानाचा अभ्यास (2012 ते 2022)	Open
71	21030095610	Priya Singh	Mane Anant Bapurao	Economics	Socio Economic study of construction workers with special Reference to Pune city. (2011-2021)	Open
72	21030008734	Priya Vithal Gaikwad	Gavhale Balu Vaman	Economics	Evaluation of Microfinance in Women Empowerment through SHGs: with special reference to Osmanabad District (2010-2020)	Open

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
73	21030071199	Rajendra Vasantrao Mali	Kamble Chandrakant Pandurang	Economics	A Cross Sectional Analysis of Healthcare Expenditure and its Economic Impact on Rural Households: A Case study of Satara district in the state of Maharashtra(2011-12 to 2021-22)	Open
74	21030228651	Sandeep Balasaheb Kotwal	Gavhale Balu Vaman	Economics	“पुणे जिल्ह्यातील कृषी विकास योजनांच्या लाभाचा अभ्यास”	Open
75	21030145301	Sarika Vijay Jagtap	Gavhale Balu Vaman	Economics	पुणे जिल्ह्यातील कृषी उत्पन्न बाजार समितीतील अडतदारांच्या सामाजिक व आर्थिक परिस्थितीचा अभ्यास	Open
76	21030140824	Vasundhara Dattaram Salunkhe	Sasane Ashok Namdev	Economics	कृष्णा खोरे विकास प्रकल्पांतर्गत टेंभू उपसा जलसिंचन योजनेचा आर्थिक आणि सामाजिक परिणामाचा विशेष अभ्यास (संदर्भ - सांगली जिल्ह्यातील व्याप्त तालुके) (सन 2014 ते 2022)	Open
77	21030003011	Babasaheb Laxman Kale	Gavhale Balu Vaman	Economics	आदिवासी समाजातील लोकांच्या आर्थिक व सामाजिक परिस्थितीचा अभ्यास संदर्भ: पुणे जिल्हा (कालावधी: सन २०१० ते २०२०)	SC
78	21030048364	Jyotsana Dattatraya Kamble	Mane Anant Bapurao	Economics	“ पुणे व पिंपरी - चिंचवड महानगरपालिकेच्या विकासातील शहरी पायाभूत सुविधांची आव्हाने आणि धोरणांच्या अंमलबजावणीचा अभ्यास.”	SC

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
79	21030132198	Namrata Dilip Chandanshive	Kamble Chandrakant Pandurang	Economics	सोलापूर जिल्ह्यातील दुग्धउत्पादन उद्योगातील महिलांच्या कार्य-जीवन संतुलनाचा आर्थिक विश्लेषणात्मक अभ्यास (२०१०-११ ते २०२०-२१)	SC
80	21030012583	Siddharth Sukhadeo Londhe	More Bhimrao Pandurang	Economics	उजनी धरण पाणलोट क्षेत्रांतर्गत उपसा - जलसिंचन करणाऱ्या शेतकऱ्यांचा सामाजिक व आर्थिक अभ्यास(विशेष संदर्भ दौंड, इंदापूर व कर्जत तालुका - २०१० ते २०२०)	SC
81	21030109771	Anjali Ravindra Jadhav	Sasane Pravin Subhash	Marathi	स्त्री लिखित मराठी कादंबरीतील पर्यावरणीय प्रबोधन : एक अभ्यास	DT-(A) / VJ
82	21030055357	Ashish Shahaji Taware	Waghmare Dhananjay Vasant	Marathi	नीरजा यांच्या साहित्यातील स्त्रीजीवन दर्शन : एक अभ्यास	EWS
83	21030061757	Kalpesh Sakharam Biradar	Ghodke Prabhakar Pandurang	Marathi	'साधना' साप्ताहिकाचे मराठी साहित्यातील योगदान १९६० ते २०००	EWS
84	21030056554	Vijay Manik Andhare	Sasane Pravin Subhash	Marathi	मराठी विडंबन कविता : एक अभ्यास	EWS

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
85	21030039502	Anuradha Satish Shelke	Gaikwad Deepak Baban	Marathi	गिरिजा कीर यांच्या बालसाहित्यातील मूल्य - जाणिवांचा अभ्यास	NT-(C)
86	21030167631	Pandurang Revannath Pawar	Zagade Nana Sopan	Marathi	क्रीडाक्षेत्रातील खेळाडूंच्या मराठी अनुवादित आत्मचरित्रांचा चिकित्सक अभ्यास	NT-(C)
87	21030057529	Rutuja Somnath Khomane	Lamture Pradnya Nagesh	Marathi	पश्चिम महाराष्ट्रातील साहित्यिकांच्या आत्मचरित्रांचा अभ्यास	NT-(C)
88	21030113895	Vidyashri Anand Jadhavar	Tate Deshmukh Pravin Yashwant	Marathi	उमा कुलकर्णी यांनी मराठी भाषेत अनुवादित केलेल्या एस. एल. भैरप्पा यांच्या कादंबऱ्यांचा सामाजिक दृष्टीने अभ्यास	NT-(D)
89	21030188602	Asha Sameer Girme	Ghodke Prabhakar Pandurang	Marathi	तृतीयपंथीयांचे जीवन चित्रण करणा-या मराठी साहित्यकृतींचा अभ्यास	OBC
90	21030200809	Dipalee Vijay Shinde	Lamture Pradnya Nagesh	Marathi	२००० नंतरच्या मराठीतील महिला कथाकारांच्या कथेतील अभिव्यक्ती विशेषांचा अभ्यास (निवडक महिला कथाकारांच्या अनुषंगाने)	OBC

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
91	21030049417	Ganesh Ramdas Bhagat	Ghodke Prabhakar Pandurang	Marathi	महाराष्ट्रातील कीर्तन परंपरांचे बदलते स्वरूप : एक अभ्यास	OBC
92	21030176538	Kiran Ramdas Mhetre	Shevate Jagadish Dinkar	Marathi	भाऊसाहेब पाटणकर, संगीता जोशी, इलाही जमादार,श्रीकृष्ण राऊत व प्रदीप निफाडकर यांची गझल रचना : एक अभ्यास	OBC
93	21030016893	Mane Mahendra Bhagwan	Bagul Mahadu Mangliram	Marathi	मराठीतील प्रयोगशील कादंबरी लेखनाचा रुपबंधात्मक अभ्यास (इ.स. २००० ते २०२०)	OBC
94	21030084748	Manisha Shivaji Lagad	Tate Deshmukh Pravin Yashwant	Marathi	संत चोखामेळा यांच्या अभंगातील मूल्ये : एक अभ्यास	OBC
95	21030012124	Nilima Jayant Karne	Zagade Nana Sopan	Marathi	संत तुकारामांचे अभंग व महात्मा फुले यांच्या अखंडांचा तुलनात्मक अभ्यास	OBC
96	21030203525	Seema Ashok Nale	Waghmare Dhananjay Vasant	Marathi	महानुभाव संप्रदायातील आख्यान कवितेचा शैली मीमांसात्मक अभ्यास (महदंबा आणि नरेंद्र कवी यांच्या विशेष संदर्भात)	OBC

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
97	21030070169	Varsha Vaijinath Ghadage	Sasane Pravin Subhash	Marathi	महाराष्ट्र साहित्य पत्रिका या नियतकालिकाचे वाङ्मयीन योगदान (१९८० - २०२०)	OBC
98	21030081581	Vitthal Bansi Pande	Waghmare Dhananjay Vasant	Marathi	भालचंद्र नेमाडे यांच्या कादंबऱ्यांतील नायकांचा मनोविश्लेषणात्मक व समाजशास्त्रीय अभ्यास	OBC
99	21030072375	Zamir Afjalkhan Kagadi	Zagade Nana Sopan	Marathi	महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने प्रकाशित केलेल्या इस्लामविषयक ग्रंथांचा चिकित्सक अभ्यास	OBC
100	21030086143	Dnyanesh war Kisan Gadage	Gaikwad Deepak Baban	Marathi	वारकरी संतांच्या रचनांमधील कृष्णदर्शन	Open
101	21030167727	Ganesh Subhash Dhage	Lamture Pradnya Nagesh	Marathi	मायबोली व मिसळपाव या मराठी संकेतस्थळांवरील कथांचा अभ्यास.	Open
102	21030051473	Gavhane Jayshri Shankar	Sasane Pravin Subhash	Marathi	मध्ययुगीन कालखंडातील हिंदीतील राधा गीते व मराठीतील गवळण गीते यांचा तौलनिक अभ्यास	Open

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
103	21030127580	Hema Vasant Shidture	Thorat Rajendra Dattatray	Marathi	मुस्लीम स्त्रियांनी केलेले मराठी साहित्य लेखन : एक अभ्यास (आत्मचरित्र, कथा, कविता)	Open
104	21030165516	Jagannath Kondiba Shivale	Waghmare Dhananjay Vasant	Marathi	मराठी कादंबरीतील प्रयोगशीलता : एक चिकित्सक अभ्यास (कालखंड १९९० ते २०२०)	Open
105	21030172813	Kantaram Vasant Khamkar	Bhawari Hanumant Laxman	Marathi	पश्चिम महाराष्ट्रातील आदिवासी लोककलांचा सामाजिक, सांस्कृतिक दृष्टीने अभ्यास	Open
106	21030174353	Kumudini Khandu Borhade	Shevate Jagadish Dinkar	Marathi	'दैनिक मराठा'चे वाङ्मयीन व सामाजिक कार्य	Open
107	21030077903	Rahul Shrikant Mokashi	Sasane Pravin Subhash	Marathi	वारकरी स्त्री संतांच्या अभंगातील प्रबोधन विचार : एक अभ्यास	Open
108	21030134530	Ramchandra Vitthal Rawool	Deore Rajendrasing Jagannath	Marathi	मराठी साहित्यातील इ. स. २००० नंतरच्या निवडक ग्रामीण कथा : एक चिकित्सक अभ्यास	Open

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Sr.No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
109	21030223379	Rani Santosh Shendkar	Tate Deshmukh Pravin Yashwant	Marathi	ऊसतोड मजुरांच्या जीवनावरील मराठी साहित्य : एक अभ्यास	Open
110	21030141395	Rekha Vitthal Said	Zagade Nana Sopan	Marathi	मराठी विज्ञान कादंबऱ्यांचा चिकित्सक अभ्यास (२००० ते २०२०)	Open
111	21030013544	Rupali Bhaurao Aachawale	Bagul Mahadu Mangliram	Marathi	मराठीतील प्रेरणादायी आत्मचरित्रे : एक अभ्यास (२००० ते २०२०)	Open
112	21030206468	Sangita Namdev Devkar	Zagade Nana Sopan	Marathi	'खेळ' या अनियतकालिकाचे वाङ्मयीन योगदान	Open
113	21030188673	Sayali Sanjay Rumale	Deore Rajendrasing Jagannath	Marathi	मराठीतील निवडक कथात्म साहित्यातील अतिवास्तववादी चित्रणाचा विवेचक अभ्यास	Open
114	21030037027	Suraj Atmaram Pawar	Gaikwad Deepak Baban	Marathi	संत तुकाराम महाराजांच्या अभंगगाथेतील दृष्टांत : एक अभ्यास	Open

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
115	21030058257	Suryawanshi Nikhil Vilas	Tate Deshmukh Pravin Yashwant	Marathi	मराठी ग्रामीण कादंबरीतील बदलते ग्रामजीवन :एक अभ्यास इ.स.२००० ते २०२०	Open
116	21030095235	Swamiraj Suryakant Bhise	Ghodke Prabhakar Pandurang	Marathi	मराठी संतकवी तुकाराम आणि कन्नड संतकवी कनकदास यांच्या काव्याचा तौलनिक अभ्यास	Open
117	21030250337	Swapnil Subhash Joshi	Lamture Pradnya Nagesh	Marathi	सई परांजपे यांच्या साहित्याचा अभ्यास	Open
118	21030206389	Tarannum Isaq Shaikh	Bagul Mahadu Mangliram	Marathi	मराठी कथा वाङ्मयातील स्त्रियांची सामाजिक व सांस्कृतिक व्यक्तिचित्रणे : चिकित्सक अभ्यास (कालखंड २००० ते २०२०)	Open
119	21030074691	Tejal Kewal Gosavi	Bhawari Hanumant Laxman	Marathi	विजया राजाध्यक्ष, अरुणा ढेरे, प्रिया तेंडुलकर आणि उर्मिला पवार या लेखिकांच्या कथा : एक चिकित्सक अभ्यास	Open
120	21030136495	Vijaya Chandulal Lade	Thorat Rajendra Dattatray	Marathi	महानुभावांचा मराठी व्याकरण विचार	Open

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
121	21030092524	Vinod Popat Pawar	Shevate Jagadish Dinkar	Marathi	गाणपत्य संप्रदायातील मराठी ग्रंथांचा विवेचनात्मक अभ्यास	Open
122	21030195919	Anil Shivaji Kengar	Shevate Jagadish Dinkar	Marathi	लोकरंग भूमीवरील निवडक लोककलांचे बदलते स्वरूप : एक अभ्यास	SC
123	21030177512	Ashwini Narayan Mohite	Gaikwad Deepak Baban	Marathi	राजा मंगळवेढेकर व डॉ. हरिकृष्ण देवसरे यांच्या बालकथांचा तौलनिक अभ्यास	SC
124	21030089481	Kumar Vitthalrao Aher	Pawar Nanasaheb Dhondiba	Marathi	महात्मा जोतीराव फुले यांच्या वैचारिक साहित्यावरील मराठीतील भाष्यांचा चिकित्सक अभ्यास	SC
125	21030160389	Nagannath Dattatray Lokhande	Zagade Nana Sopan	Marathi	डॉ . बाबासाहेब आंबेडकर यांच्या पत्रकारितेतील भाषासौष्ठव व शैलीविचार : एक अभ्यास	SC
126	21030085673	Padmini Pradip Bhosle	Sasane Pravin Subhash	Marathi	समर्थ रामदासांच्या 'दासबोध' ग्रंथाचा शैलीवैज्ञानिक अभ्यास	SC

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Sr. No.	App. ID	Full Name	Research Guide	Subject	Research Topic	Category
127	21030050781	Pallavi Shrikant Gaikwad	Waghmare Dhananjay Vasant	Marathi	मध्ययुगीन कालखंड ते प्रबोधन युगातील काही निवडक संत व समाजसुधारकांच्या साहित्यातील समाज प्रबोधनात्मक जाणीवांचा अभ्यास	SC
128	21030121855	Vijay Jagannath Lokhande	Bhawari Hanumant Laxman	Marathi	मराठी साहित्यातील बालकथा : एक चिकित्सक अभ्यास	SC
129	21030137415	Manohar Dulaji Mohare	Bhawari Hanumant Laxman	Marathi	आदिवासी मराठी कथासाहित्य : एक चिकित्सक अभ्यास	ST
130	21030085948	Suvarna Bhimaji Dhadvad	Ghodke Prabhakar Pandurang	Marathi	आदिवासी साहित्याला वाहिलेल्या नियतकालिकांचा अभ्यास (२००० ते २०२०)	ST

List of the Student's Research Papers

Sr.No	Research Student Names	Research Guide	Title of the Resdearch Paper
1	Poonam Jadhav	Prof. Dr. Shubhangi Auti	ISSUES AND POSSIBILITIES IN MARKETING OF AGRICULTURAL COMMODITIES
2	Vaishali Jadhav	Dr. Jagtap E. J.	Bharatatil Shri Udyojakta Sandhi and Awhane
3	Vaishali Jadhav	Dr. Jagtap E. J.	Boudhik Sampada Adhikarat Samavisht Asnari Naitik Mulaya
4	Mr. Shivshant M. Wasamwar	Dr. Shubhangi S. Auti	CHANGING RURAL MARKET SCENARIO
5	Pradnya V Dhamankar	Dr. Jagtap E. J.	- GST and Its Impact on Trade and Investment
6	Yogesh Lahangi	Dr. Jagtap E. J.	Human resource management practices in scheduled and nationalised bank in India
7	Yogesh Lahangi	Dr. Jagtap E. J.	Role and Effectiveness of Job Evaluation in Human Resource Management
8	Kharale Prajakta & Shivshankar Akash	Prof. Dr. Neha Nitin Patil	MICROBIAL FORMULATION OF BIO-BRIQUETTES USING LIGNOCELLULOSIC AND FLORAL BIOMASS
9	Wagmode Meghamala Sheshrao , Lende Sneha Balu , Gaikwad Pranali Ratankumar,	Prof. Dr. Neha Nitin Patil & Prof. Dr. Khisti Ujwala Vinayak	Studies on Biodegradation of Acetaminophen by Bacillus subtilis subsp. subtilis NCIB 3610(T)
10	Seema D. Sherkar,Meghmala S. Waghmode, Karan V. Khaldkar, Avishkar R. Patil	Prof. Dr. Khisti Ujwala Vinayak	Nanotoxicological study of Cu-doped TiO2 nanoparticles on Gram positive bacteria Bacillus amyloliquificans
11	M V Bhailume ,M V Deshpande1 , P R Zende, S A Kodag, A G Divse		Production Of Chitinase Enzyme From Fish Waste

12	B.B.Bahule*, R.R. Sangpal, Shital Jagtap, Rutuja Sawane, Shubhangi Dorage		Green Synthesis of Pyrazole Derivatives employing 1,3-Dipolar Cycloaddition Reaction using Phenyl hydrazones and Benzoquinone under basic condition
13	Kamlesh Lodha, Deepak Wavhal, Namdeo Bhujbal, Priyanka Mazire, Sneha Bhujbal, Ashlesha Korde, Kamini Bagul, Amit Roy, Rohan Meshram, Vaishali Shinde		Synthesis and biological evaluation of 9-aryl-1,8-dioxo-octahydroxanthene derivatives as antileishmanial agents
14	O.C. Pore a , A.V. Fulari b , C.D. Chavare c , D.S. Sawant d , S.S. Patil e , R.V. Shejwal a , V.J. Fulari e , G.M. Lohar a,*		Synthesis of NiCo2O4 microflowers by facile hydrothermal method: Effect of precursor concentration
15	Madhuri Sawant, Rupali Bhavsar, Dr. Anju Y. Mundhe*, Ajay Shinde, Shrutkirti Shukla, Divya Lande, Shubham Chavan, Ajit Ronge	Dr. Sharad Giramkar	Faunal Diversity of Divegaon, Purandar Taluka, Pune District, M/S, India
16	Waghmode Meghmala S , Bhujbal Ravina R , Masalkar Swati D, Goud Sambhaji A , Gunjal Aparna B	Patil Neha N1	Microbially Induced Calcite Precipitation for Sustainable Agriculture and Construction
17	- Mayuri N. Bhosale1 *, Susmita R. Phalke1 , Meghmala S. Waghmode1 ,	Dr. Neha N. Patil , Dr. Aparna B. Gunjal	Microbial Assisted Reduction of Lead by River Isolate
18	- Meghmala Sheshrao Waghmode, Gaurav Kumalakar Gaikwad, Mayur Anil Ghule, Pravin Jaysingh Indalkar	Neha Nitin Patil	Studies on Cytokine Production in Gutkha and Panmasala Chewers

Title of the Research Paper: - ISSUES AND POSSIBILITIES IN MARKETING OF AGRICULTURAL COMMODITIES

Name of the Research Student: - Poonam Jadhav

Name of the Guide: - Dr. Shubhangi Auti

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ISSUES AND POSSIBILITIES IN MARKETING OF AGRICULTURAL COMMODITIES

Poonam Jadhav

Assistant Professor, Vishwakarma College of Arts, Commerce & Science, Kondhwa, Pune

Dr. Shubhangi Auti

Professor, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune

Abstract

The study discusses the challenges and opportunities of rural marketing in India. The rural market in the Indian economy is divided into two basic divisions. Rural markets have grown in importance in recent years, as economic expansion has resulted in a significant increase in rural people's purchasing power, and rural people's preferences are changing. As a result, every marketing player wants to invest in rural areas. Though there are enormous potential and large growths opportunities in rural markets, there are several issues that have created barriers to accessing rural markets. This study advances the exploration of numerous rural marketing strategies as well as the existing rural marketing ecosystem, highlighting major difficulties and suggestions linked to rural marketing.

Keyword: Rural marketing, marketing issues in rural areas, rural marketing potentials

Introduction:

Agricultural marketing is broadly the exchange or bartering of agricultural produce. To form such exchanges possible various processes viz., processing, storage, transportation, grading, inspection, pricing, advertising, wholesale and retail sale etc are included. From the purpose of view of the govt, the function of Agriculture Marketing is to link the assembly of agricultural commodities with sustainable supply and trade that's economically beneficial. At the government level, the government can provide services to the farmers by fixing marketing intelligence, i.e. the market value of agricultural products and a system that builds barriers in terms of cultivation. Government can encourage farmers by creating policies to make different options regarding supply chain. Farmers employed farm sector inputs like local seeds and farmyard manure within the past. These inputs were easily accessible to them; farmers' market purchases of crop inputs were low. Farm inputs, like improved seeds, fertilizers, insecticides and pesticides, farm machinery, implements, and financing, are increasingly important within the production of farm products in recent years. The new farming technology responds to input. Product and input marketing must be included within the scope of agricultural marketing.

Objective of Study

Objective of Study Rural markets offer unrealized potential as a component of any economy. Several challenges confront the search to thoroughly explore rural markets. The concept of agricultural markets in India, also as in several other countries like China, remains growing, and therefore the sector presents variety of issues, including understanding the dynamics of rural markets and developing methods to provide and satisfy rural consumers.

Research methodology

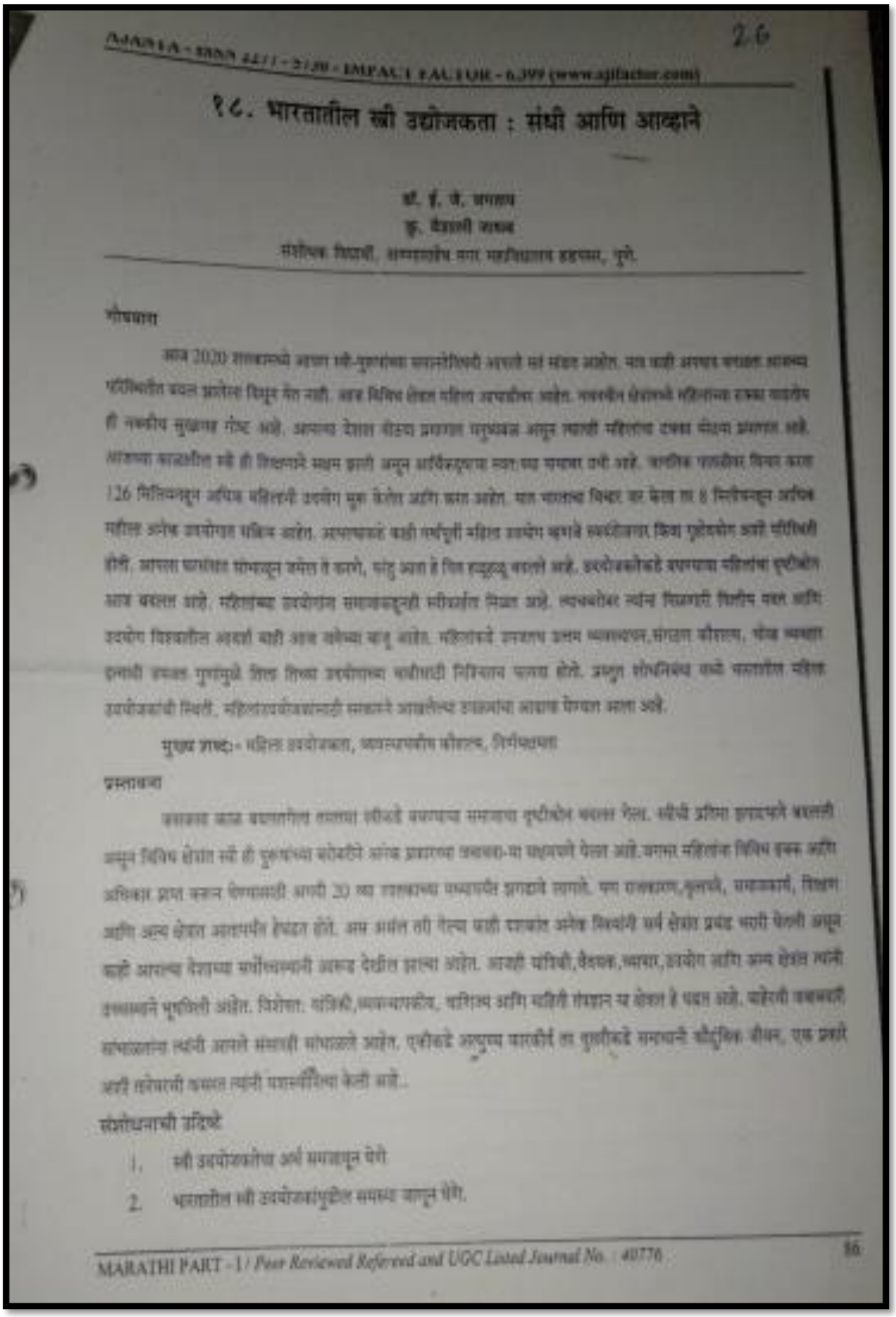
This research article attempts to provide a deeper understanding of the function of rural marketing in economic development. The study also intends to investigate the issues confronting rural marketing in the current context. The descriptive research approach is utilised in this study for this goal, which is based on the utilisation of secondary sources of data acquired from books. Journals, periodical publications, government publications, articles, newspapers, and websites, among other things.

Rural marketing concept

Title of the Research Paper: - Bharatatil Shri Udyojakta Sandhi and Awhane

Name of the Research Student: - Vaishali Jadhav

Name of the Guide: - Dr. Jagtap E. J.



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१८. भारतातील स्त्री उद्योजकता : संधी आणि आव्हाने

डॉ. ई. जे. जगताप
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गोषवारा

आज 2020 शतकामध्ये आपला स्त्री-पुरुषांचा सामनेरोखरी आपले मत मांडत आहेत. मात्र काही अपवाद वगळता आजच्या परिस्थितीत बदल प्रत्येक ठिकाणी घेत नाही. आज विविध क्षेत्रात महिला उपयोगीत आहेत. नवनवीन क्षेत्रामध्ये महिलांच्या दबक्या पावलांचे ही नवकीच सुद्धाच गोष्ट आहे. आपल्या देशात वेडेच प्रमाणात मनुष्यबळ असून त्यापैकी महिलांचा टक्का मोठ्या प्रमाणात आहे. आजच्या काळातील सर्व ही शिक्षणाचे महत्व झाली असून आर्थिकदृष्ट्या स्वतःच्या पायावर उभी आहे. जागतिक पातळीवर विचार करता 126 मिलियनहून अधिक महिलांनी उद्योग सुरु केलेले आहेत तसा आहेत. यात भारताचा विचार का केला तर 8 मिलियनहून अधिक महिला अनेक उद्योगात सक्रिय आहेत. अपवादाने काही मर्यादित महिला उद्योग व्यवसाय स्वतंत्रपणा किंवा पूर्वजांच्या असणारी परिस्थिती होती. आपला घरातील सांभाळून जमेल ते करणे, परंतु आता हे चित्र हळूहळू बदलले आहे. उद्योजकांकडे बघण्याचा महिलांचा दृष्टीकोन आज बदलत आहे. महिलांच्या उद्योगांना समाजकडूनही मोठ्याप्रमाणात मिळत आहे. त्यामुळेच त्यांना शिक्षणाची शिलीम पदवी आणि उद्योग विश्वातील अडचणी याही आज कमेच्या बाजू आहेत. महिलांकडे उपजतच उत्तम व्यवस्थापन,संघटन कौशल्य, योग्य व्यवहार इत्यादी उत्तम गुणांमुळे जिथे तिच्या उद्योगाच्या यशीगाठी निश्चितच चालत होते. प्रस्तुत संशोधनिबंध मध्ये भारतातील महिला उद्योजकांची स्थिती, महिलाउद्योजकतेसाठी समाजने आखलेल्या उपाययोजना आव्हाने मांडण्यात आला आहे.

मुख्य शब्द:- महिला उद्योजकता, आधुनिकयुगीन कौशल्य, लिंगभेदभाव

प्रस्तावना

कालच्या काळ बदलातील तत्वाचा स्वीकार बदलत्या समाजाचा दृष्टीकोन बदलला गेला. स्त्रीची प्रतिमा झपाट्याने बदलली असून विविध क्षेत्रात स्त्री ही पुरुषांच्या बरोबरीने अनेक प्रकारच्या उंचावत-या शिखरांचे पेलत आहे.जगभर महिलांना विविध हक्क आणि अधिकार प्राप्त करून घेण्यासाठी आणी 20 व्या शतकाच्या पध्दतीने झगडावे लागले. मग राजकारण,कृषीचे, समाजकार्य, शिक्षण आणि अन्य क्षेत्रात असलेपणे हेरंदर होते. अन अशिल ती ऐतच्य काही दशकात अनेक स्त्रियांनी सर्व क्षेत्रात प्रचंड भरारी घेतली असून काही आपल्या देशाच्या सर्वोच्चस्थानी असल्या देखील झालेल्या आहेत. आजही परिचारी,वैद्यकक,व्यापार,उद्योग आणि अन्य क्षेत्रात त्यांनी इच्छाशक्तीने भूमिकेली आहेत. विशेषत: बांधिकी,व्यवस्थापकीय, परिवार आणि महिती संशोधन या क्षेत्रात हे पदन आहे. पहिलेची कल्पनाही सांगाळतांना त्यांनी आपले संसारही सांगाळले आहेत. एकीकडे अनुषंग घरकीर्ण तर दुसरीकडे समाजाने चौदुंबिक जीवन, एक प्रकारे अशी तारेवरची कसरत त्यांनी यशस्वीरित्या केली आहे..

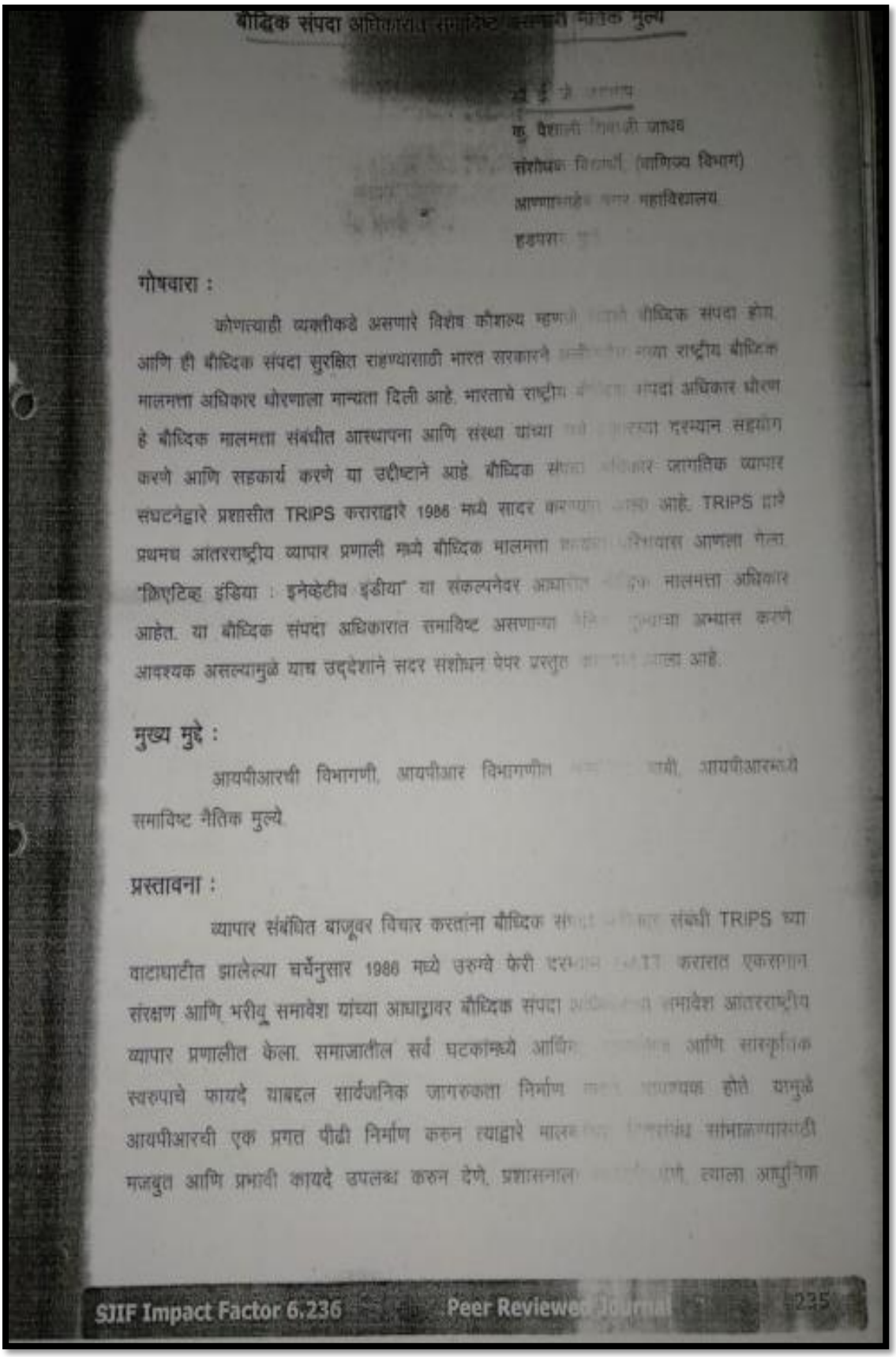
संशोधनाची उद्दिष्टे

1. स्त्री उद्योजकतेचा अर्थ समजून घेणे.
2. भारतातील स्त्री उद्योजकांपुढील समस्या जाणून घेणे.

Title of the Research Paper: - Boudhik Sampada Adhikarat Samavisht Asnari Naitik Mulaya

Name of the Research Student: - Vaishali Jadhav

Name of the Guide: - Dr. Jagtap E. J.



बौद्धिक संपदा अधिकारात समाविष्ट असणारी नैतिक मुल्ये

कु. वैशाली शिवाजी जाधव
संशोधक विद्यार्थी (वाणिज्य विभाग)
आण्णासाहेब [illegible] महाविद्यालय
[illegible]

गोषवारा :

कोणत्याही व्यक्तीकडे असणारे विशेष कौशल्य म्हणजे बौद्धिक संपदा होय. आणि ही बौद्धिक संपदा सुरक्षित राहण्यासाठी भारत सरकारने [illegible] नवा राष्ट्रीय बौद्धिक मालमत्ता अधिकार धोरणाला मान्यता दिली आहे. भारताचे राष्ट्रीय [illegible] संपदा अधिकार धोरण हे बौद्धिक मालमत्ता संबंधीत आस्थापना आणि संस्था यांच्या [illegible] दरम्यान सहयोग करणे आणि सहकार्य करणे या उद्दीष्टाने आहे. बौद्धिक संपदा अधिकार जागतिक व्यापार संघटनेद्वारे प्रशासीत TRIPS कराराद्वारे 1986 मध्ये सादर करण्यात आला आहे. TRIPS द्वारे प्रथमच आंतरराष्ट्रीय व्यापार प्रणाली मध्ये बौद्धिक मालमत्ता [illegible] विषयास आणला गेला. "क्रिएटिव्ह इंडिया : इनेव्हेटीव इंडीया" या संकल्पनेवर आधारित [illegible] मालमत्ता अधिकार आहेत. या बौद्धिक संपदा अधिकारात समाविष्ट असणाऱ्या [illegible] अभ्यास करणे आवश्यक असल्यामुळे याच उद्देशाने सदर संशोधन पेपर प्रस्तुत [illegible] आला आहे.

मुख्य मुद्दे :

आयपीआरची विभागणी, आयपीआर विभागणीत [illegible] बाबी, आयपीआरमध्ये समाविष्ट नैतिक मुल्ये.

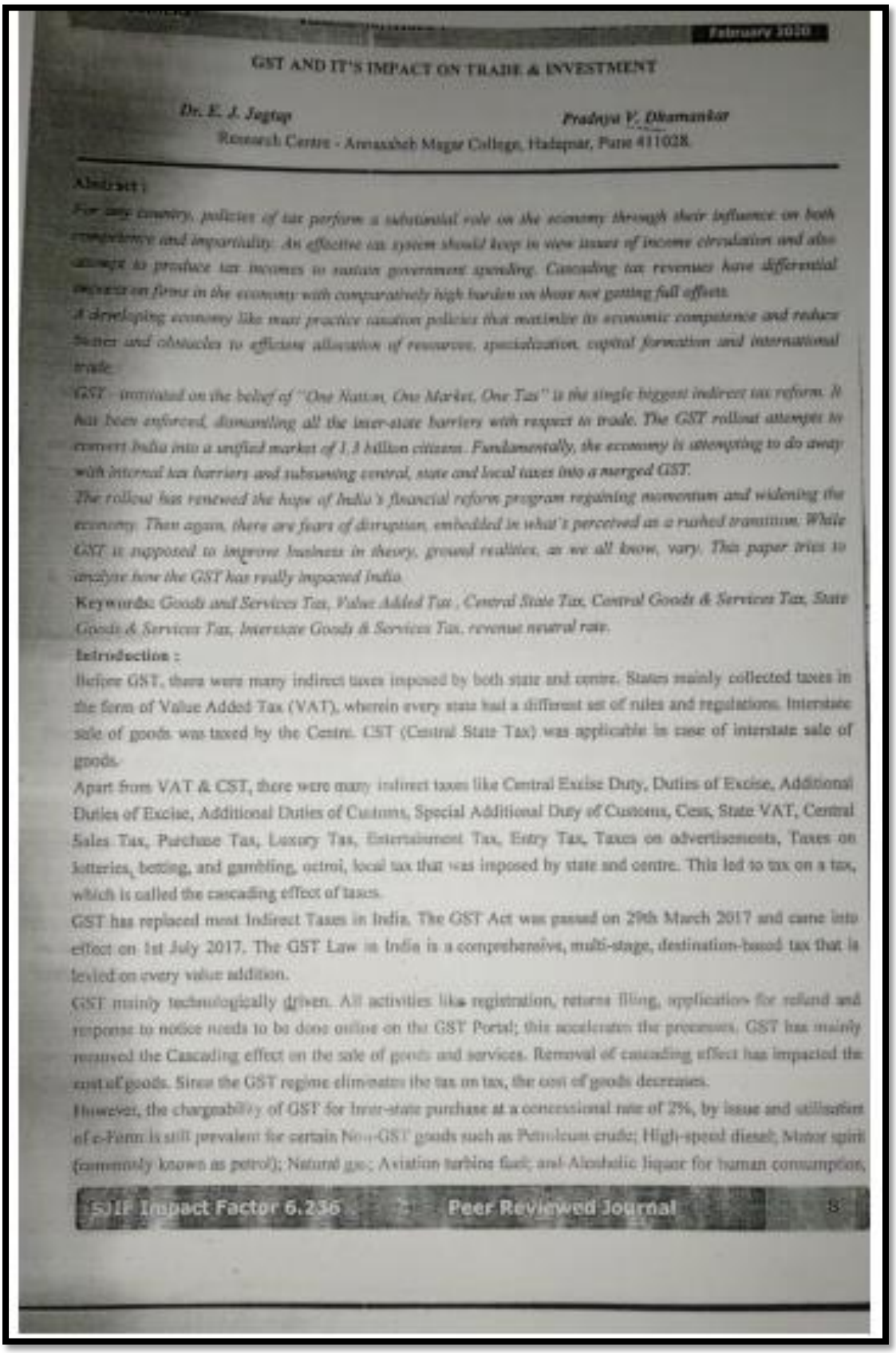
प्रस्तावना :

व्यापार संबंधित बाजूवर विचार करताना बौद्धिक [illegible] संबंधी TRIPS च्या वाटाघाटीत झालेल्या चर्चेनुसार 1986 मध्ये उरुग्वे फेरी दरम्यान [illegible] करारात एकत्रीत संरक्षण आणि भरीव समावेश यांच्या आधारावर बौद्धिक संपदा [illegible] समावेश आंतरराष्ट्रीय व्यापार प्रणालीत केला. समाजातील सर्व घटकांच्ये आर्थिक [illegible] आणि सांस्कृतिक स्वरुपाचे फायदे याबद्दल सार्वजनिक जागरुकता निर्माण [illegible] आवश्यक होते. यामुळे आयपीआरची एक प्रगत पीढी निर्माण करुन त्याद्वारे मालक [illegible] संबंधीत सांभाळण्यासाठी मजबुत आणि प्रभावी कायदे उपलब्ध करुन देणे. प्रशासनाला [illegible] याची, त्याला आधुनिक

Title of the Research Paper: - GST and Its Impact on Trade and Investment

Name of the Research Student: - Pradnya V Dhamankar

Name of the Guide: - Dr. Jagtap E. J.



GST AND IT'S IMPACT ON TRADE & INVESTMENT

Dr. E. J. Jagtap *Pradnya V. Dhamankar*
Research Centre - Annasaheb Magar College, Hadapsar, Pune 411028.

Abstract :
For any country, policies of tax perform a substantial role on the economy through their influence on both competence and impartiality. An effective tax system should keep in view issues of income circulation and also attempt to produce tax incomes to sustain government spending. Cascading tax revenues have differential impacts on firms in the economy with comparatively high burden on those not getting full offsets.
A developing economy like ours practice taxation policies that maximize its economic competence and reduce barriers and obstacles to efficient allocation of resources, specialization, capital formation and international trade.
GST - initiated on the belief of "One Nation, One Market, One Tax" is the single biggest indirect tax reform. It has been enforced, dismantling all the inter-state barriers with respect to trade. The GST rollout attempts to convert India into a unified market of 1.3 billion citizens. Fundamentally, the economy is attempting to do away with internal tax barriers and subsuming central, state and local taxes into a merged GST.
The rollout has renewed the hope of India's financial reform program regaining momentum and widening the economy. Then again, there are fears of disruption, embedded in what's perceived as a rushed transition. While GST is supposed to improve business in theory, ground realities, as we all know, vary. This paper tries to analyze how the GST has really impacted India.

Keywords: *Goods and Services Tax, Value Added Tax , Central State Tax, Central Goods & Services Tax, State Goods & Services Tax, Interstate Goods & Services Tax, revenue neutral rate.*

Introduction :

Before GST, there were many indirect taxes imposed by both state and centre. States mainly collected taxes in the form of Value Added Tax (VAT), wherein every state had a different set of rules and regulations. Interstate sale of goods was taxed by the Centre. CST (Central State Tax) was applicable in case of interstate sale of goods.

Apart from VAT & CST, there were many indirect taxes like Central Excise Duty, Duties of Excise, Additional Duties of Excise, Additional Duties of Customs, Special Additional Duty of Customs, Cess, State VAT, Central Sales Tax, Purchase Tax, Luxury Tax, Entertainment Tax, Entry Tax, Taxes on advertisements, Taxes on lotteries, betting, and gambling, octroi, local tax that was imposed by state and centre. This led to tax on a tax, which is called the cascading effect of taxes.

GST has replaced most Indirect Taxes in India. The GST Act was passed on 29th March 2017 and came into effect on 1st July 2017. The GST Law in India is a comprehensive, multi-stage, destination-based tax that is levied on every value addition.

GST mainly technologically driven. All activities like registration, returns filing, application for refund and response to notice needs to be done online on the GST Portal; this accelerates the processes. GST has mainly removed the Cascading effect on the sale of goods and services. Removal of cascading effect has impacted the cost of goods. Since the GST regime eliminates the tax on tax, the cost of goods decreases.

However, the chargeability of GST for Inter-state purchase at a concessional rate of 2%, by issue and utilization of e-Form is still prevalent for certain Non-GST goods such as Petroleum crude; High-speed diesel; Motor spirit (commonly known as petrol); Natural gas; Aviation turbine fuel; and Alcoholic liquor for human consumption,

Title of the Research Paper: - Human resource management practices in scheduled and nationalised bank in India

Name of the Research Student: - Yogesh Lahangi

Name of the Guide: - Dr. Jagtap E. J.

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Human Resource Management Practices in schedulet and nationalised Banks in India

[1]Yogesh Langhi, [2]Dr.Jagtap E.J.
[1]Research Scholar, [2]Research Guide,
Annasaheb Magar Colleg Hadapsar

Abstract :- *The human sources in the banking sector are not only important, but expensive and delicate. Adoption of improved technologies by upgrading their work methods, work norms, technical and managerial skills and employees' motivation to face up to the fast emerging challenges, has become the need of the hour. The present study has been an attempt to make a comparative analysis of human resource management practices relating to employees' recruitment, selection, promotion, compensation packages, training and development practices in the public and private sector commercial banks in India and the way these are linked with the employees' job satisfaction. To study the HRM policies, practices and trends with respect to recruitment, selection and promotion, compensation, training and development in the commercial banks, secondary data have been gathered. The trends in business per employee, profit per employee, staff strength, branches, deposits per employee, advances per employee, cost per employee, establishment expenses per employee etc.*

KEYWORD:-Scduled banks, nationalised bank, HRM,Job evaluation,jobanalysis etc.

1. **Introduction:** - Introduction For more than a century now, human resource management, as a discipline and practice in the management of people in an organization, has evolved and developed into different areas. These disciplines and practices have gone through a process of trial and error, theory building and testing of various concepts by practicing managers and academics (Farnham & Pimlott 1979; Storey 1989; Armstrong 1995). The underlying forces behind the evolution and development of human resource management have been (and still are) mainly environmental, and the quest for knowledge of better ways of acquiring and utilising labour. Human Resource Management (HRM) is a relatively new approach to managing people in any organization. People are considered the key resource in this approach. It is concerned with the people dimension in management of an organization. Since an organization is a body of people, their acquisition, development of skills, motivation for higher levels of attainments, as well as ensuring maintenance of their level of commitment are all significant activities. These activities fall in the domain of HRM. Human Resource Management is a process, which consists of four main activities, namely, acquisition, development, motivation, as well as maintenance of human resources. Scott, Clothier and Spriegel have defined Human Resource Management as that branch of management which is responsible on a staff basis for concentrating on those aspects of operations which are primarily concerned with the relationship of management to employees and employees to employees and with the development of the individual and the group. Human Resource Management is responsible for maintaining good human relations in the organization. It is also concerned with development of individuals and achieving integration of goals of the organization and those of the individuals. Northcott considers human resource management as an extension of general management, that of prompting and 2 stimulating every employee to make his fullest contribution to the purpose of a business.

2. **Objectives:-**

1. Understand nature of Human Resource Management
2. Know the differences between Personnel Management and Human Resource

Title of the Research Paper: - Role and Effectiveness of Job Evaluation in Human Resource Management

Name of the Research Student: - Yogesh Lahangi

Name of the Guide: - Dr. Jagtap E. J.

INTERNATIONAL RESEARCH JOURNAL OF MULTIDISCIPLINARY STUDIES

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Role and Effectiveness of Job Evaluation in Human Resources Management

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[1]Research Scholar, [2]Research Guide,

Annasaheb Magar College Hadapsar

Abstract :- *Decisions about what jobs are worth take place all the time. The decisions may be made informally, based on assumptions about the value of a job in the market place or in comparison with other jobs in the organization. Or it may be a formal approach, either some type of job evaluation, as described in this chapter, or a systematic comparison with market rates. It has been asserted by Gupta and Jenkins (1991) that the basic premise of job evaluation is that certain jobs 'contribute more to organizational effectiveness and success than others, are worth more than others and should be paid more than others'. Evaluating 'worth' leads directly or indirectly to where a job is placed in a level or grade within a hierarchy and can therefore determine how much someone is paid. The performance of individuals also affects their pay, but this is not a matter for job evaluation, which is concerned with valuing the jobs people carry out, not how well they perform their jobs.*

Keyword:- Job Evaluation ,Job Classification ,Job Description, Profile, Analytical job evaluation, Job ranking, Bench mark of job, etc.

Introduction:-

This chapter covers a definition of job evaluation, formal and informal approaches, analytical and non-analytical formal schemes, market pricing, computer-aided job evaluation, making the choice between approaches, introducing a new or substantially revised scheme and equal pay considerations. Job evaluation defined Job evaluation is a systematic process for defining the relative worth or size of jobs within an organization in order to establish internal relativities.

The last aim is important. In its Good Practice Guide on Job Evaluation Schemes Free of Sex Bias the Equal Opportunities Commission (2003) stated that: 'Non-discriminatory job evaluation should lead to a payment system which is transparent and within which work of equal value receives equal pay regardless of sex.' Approaches s to establishing the worth of jobs fall broadly into two categories: formal and informal. Formal job valuation Formal approaches use standardized methods to evaluate jobs that can be analytical or non-analytical. Such schemes deal with internal relativities and the associated process of establishing and defining job grades or levels in an organization. An alternative approach is 'extreme market pricing' in which formal pay structures and individual rates of pay are entirely based on systematically collected and analysed information on market rates and no use is made of job evaluation to establish internal relativities. Extreme market pricing should be distinguished from the process of collecting and analysing market rate data used to establish external relativities, having already determined internal relativities through formal job evaluation. Job evaluation survey had a formal scheme) and, indeed, its use is extending, not least because of the pressures to achieve equal pay. Although formal job evaluation may work systematically it should not be treated as a rigid, monolithic and bureaucratic system. It should instead be regarded as an approach that may be applied flexibly. Process – how job evaluation is used – can be more important than the system itself when it comes to producing reliable and valid results. Informal job evaluation Informal approaches price jobs either on the basis of assumptions about internal and external relativities or simply by reference to going or market rates when recruiting people, unsupported by any systematic analysis. There are, however, degrees of informality. A semi-formal approach might

Title of the Research Paper: - MICROBIAL FORMULATION OF BIO-BRIQUETTES USING LIGNOCELLULOSIC AND FLORAL BIOMASS

Name of the Research Student: - Kharale Prajakta

Name of the Guide: -Prof. Dr. Neha Nitin Patil

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MICROBIAL FORMULATION OF BIO-BRIQUETTES USING LIGNOCELLULOSIC AND FLORAL BIOMASS

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ABSTRACT

Considering the cost of fuel, it is the need of the hour for the utilization of waste as a fuel source. Leaf litter waste and floral waste biomass present in the surrounding serve as potential materials in bio-briquettes formulation. Leaf litter wastes (Almond leaves, Ashoka leaves, Cluster fig leaves), and floral wastes such as (Marigold, Tuberose, and Rose) was used for the study. The waste was microbially treated using *Lactobacillus plantarum* ATCC 8014 and Lactobacillus brevis ATCC 14869 for rapid decomposition of wastes. The briquettes were formulated using wet briquetting, manual pressure, and cylindrical mould methods. Paper pulp along with wheat bran at a 35:5 ratio was used as an artificial binding agent. The preliminary analysis includes the contents of moisture, volatile matter, ash, fixed carbon, etc. Bio briquettes were ultimately analyzed by FESEM, FT-IR, TGA, Density, and Calorific values. Comparisons were done using untreated lignocellulosic biomass-based briquettes and commercially available briquettes. Briquettes made from waste that has undergone microbial processing have a calorific value of 5968.20w kJ/Kg, a density of 0.26 kg/cm3, 8.4% moisture content, 10% volatile matter content, 13.65% ash content, 67.95% fixed carbon content, a maximum burning time of 17 minutes, and a minimum ignition time of 3 minutes. While the briquettes made from untreated waste have calorific value of 4205.10 kJ/Kg, density of 0.20 kg/cm3, 10.8% moisture content, 15% volatile matter content, 15.11% ash content, 59.05% fixed carbon content. This comparative study shows microbially treated bio briquettes can offer good agriculture waste management and new fuel opportunities.

Keywords: Bio-briquettes, floral waste, Leaf litter waste, Wet briquetting.

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1. Introduction: -

Energy is notably essential in improvement, national and local environmental protection *(Mohammed et al., 2020, Oladeji and Oyetunji, 2013)*. The issue of an energy crisis is raised by the depletion of natural resources *(Anggono et al., 2017)*. Fossil fuel is currently the primary energy source utilised to produce everyday fuels like kerosene and cooking gas *(Demirbas 2007)*. The prices of fuel are influenced by declining energy sources. Due to a large market's demands and scarce supplies, fuel prices will rise. Production and proper use of energy are very essential and to address these concerns and lead to sustainable improvement various new methods are used *(Ajimotokan et al., 2019, Pandey and Regmi, 2013)*. Biomass has been taken into consideration as an amazing capacity renewable energy source, both for the richer countries and for the developing world *(Demirbas 2007, Demirbas 2001)*. Biomass is considered the third-largest energy source in the world, after coal, oil, and other fuels *(Anggono et al., 2017, Bapat et al., 1997)*. Floral waste has been reported to have the potential to serve as the source as value added products (*Waghmode et al., 2018*).

The briquettes made from turning low bulk-density biomass into high bulk-density fuel are known as biomass briquettes. The unconventional energy source

Title of the Research Paper: - MICROBIAL FORMULATION OF BIO-BRIQUETTES USING LIGNOCELLULOSIC AND FLORAL BIOMASS

Name of the Research Student: - Shivshankar Akash

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MICROBIAL FORMULATION OF BIO-BRIQUETTES USING LIGNOCELLULOSIC AND FLORAL BIOMASS

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ABSTRACT

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Title of the Research Paper: - Studies on Biodegradation of Acetaminophen by Bacillus subtilis subsp. subtilis NCIB 3610(T)

Name of the Research Student: - Wagmode Meghamala Sheshrao

Name of the Guide: -Prof. Dr. Neha Nitin Patil & Prof. Dr. Khisti Ujwala Vinayak

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Studies on Biodegradation of Acetaminophen by *Bacillus subtilis subsp. subtilis* NCIB 3610(T)

WAGHMODE MEGHMALA SHESHRAO[1*], LENDE SNEHAL BALU[1], GAIKWAD PRANALI RATNAKAR[1], PATIL NEHA NITIN[1] and KHISTI UJWALA VINAYAK[1]

[1]Department of Microbiology, PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune.

Abstract

Acetaminophen (paracetamol) has been classified as one of the emerging organic pollutants due to its entrance into the water bodies. Removal of pharma micropollutants using microorganisms or synthetic systems from the environment is desirable. In this study, acetaminophen degrading microorganism was isolated from Pharmaceutical industrial wastewater. Identification of the isolate was carried out using morphological, biochemical, and 16s rRNA sequencing. *Bacillus subtilis* subsp. *subtilis* NCIB 3610(T) showed 73.2% degradation of paracetamol (2500 ppm) based on colorimetric and reverse phase high performance liquid chromatography analysis. Based on the Computer Assisted Kinetic Evaluation (CAKE) program, it can be concluded that the strain exhibits Simple first-order model (SFO). The degradative product was identified as 4-aminophenol based on High Resolution Mass Spectrometry method. The chemotaxis assay reported that the strain understudy was found to be suitable for the bioaugmentation purposes.

Article History
Received: 03 October 2022
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Keywords
4 Aminophenol; Acetaminophen; *Bacillus Subtilis*; Biodegradation.

Introduction

The presence of pharmaceutical contaminants in the aquatic environment has become a subject of emerging concern.[1] The pharmaceuticals contaminants comprising drugs, heavy metals, dyes, and personal care products have been considered emerging environmental contaminants due to their occurrence in water bodies.[2,3] Now, many of these compounds are perceived worldwide ranging from ng/L to µg/L but due to their biologically active potential, it could affect the ecosystem. With the increased production and consumption, micropollutants and personal care products are occurring in the environment.

One of the most frequently detected pharmaceutical painkillers in treated and untreated waste water is acetaminophen (APAP, paracetamol, N-acetyl-para-aminophenol).[4] Acetaminophen is a heavily demanded over the counter medicine. Paracetamol

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Doi: http://dx.doi.org/10.12944/CWE.18.1.14

Title of the Research Paper: - Studies on Biodegradation of Acetaminophen by Bacillus subtilis subsp. subtilis NCIB 3610(T)

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Studies on Biodegradation of Acetaminophen by *Bacillus subtilis subsp. subtilis* NCIB 3610(T)

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Title of the Research Paper: - Nanotoxicological study of Cu-doped TiO2 nanoparticles on Gram positive bacteria Bacillus amyloliquificans

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ORIGINAL ARTICLE OPEN ACCESS

Nanotoxicological study of Cu-doped TiO2 nanoparticles on Gram positive bacteria *Bacillus amyloliquificans*

Seema D. Sherkar[1]*,Meghmala S. Waghmode[1], Karan V. Khaldkar[1], Avishkar R. Patil[1], and Ujwala V. Khisti

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ABSTRACT

Titanium dioxide is being one of technologically important material in the field of nanotechnology. Titanium dioxide doped with copper nanoparticles are widely used because of its thermodynamic stability, anticorrosion, high photo catalytic activity, wide band gap, high transmittance in visible and infrared spectral range. In the present study, TiO2 doped with copper nanoparticles was synthesized from Titanium isopropoxide as a precursor using by hydrothermal method and sol-gel technique. Cu doped TiO2 nanoparticles were characterized by Fourier-transform infrared spectroscopy (FTIR), UV-Visible spectroscopy, and scanning electron microscopy with Energy Dispersive X –ray Spectroscopy (SEM / EDX). The Cu doped TiO2 nanoparticles were found to be spherical, ellipsoidal and irregular in shape. Individual nanoparticles as well as a few aggregates are found having the size of 5-20 nm. The biocompatibility of the Cu doped TiO2 nanoparticles with their photo catalytic activity make them future candidate for the development of sustainable environmental remediation technologies. To assess bioremoval of the cu doped nanoparticles on the microorganisms, this study was undertaken. In this study growth of Bacillus amyloliquificans was checked against various concentration of nanoparticles prepared by the both methods (2, 3, 4 and 5w/v %). It was seen that the microorganism has ability to grow in presence of nanoparticles with increase in the total protein content. The 5% concentration of Cu doped TiO2 enhanced the cell mass protein of Bacillus amyloliquificans by 3.63 times.

Keywords: *Bacillus amyloliquificans, Cu doped TiO2, Sol Gel, and Bioremediation*

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1) INTRODUCTION:

Due to the enormous applications of nanotechnology, the environmental and ecological effects ofnanomaterials have to be considered. Changes of nanomaterials will not only help ensure thesafety of Nano technological applications, but also help design functional materials that haveminimal adverse effects [3]. Titanium dioxide (TiO2) has been widely used in many fields [2]. Toenhance the functional properties and applicability of titanium dioxide, doped versions of TiO2are benign synthesized to enhance catalytic activity for light harvesting applications [5]. Many researchers have conducted studies toevaluate if nano-scale titanium dioxide would have biological impacts [1]. TiO2 NPs has been reported to have antimicrobial activities due to the reactive oxygen species formation. On theother hand, copper NPs appear to have higher cytotoxicity than copper ions because they maypenetrate the cell membrane and release copper ions inside the cell [15]. However, it is still not clear whether there is synergistic effect when TiO2 NPs aredoped with CuO. Also, very few studies have examined the natural remediation of toxic metalNPs from the environment [17],which can be another important considerationof NPs; ecological impact. This study employed a model bacterial species: *Bacillus amyloliquefaciens* aGram-positive bacterium and a model strain for the study of Nano toxicology. The objectives ofthis study are: 1) to determine the toxicity of Cu-doped TiO2 NPs; and 2) to investigate bacterialresponses to NPs.

2) MATERIALS AND METHODS

2.1)Synthesis of Cu doped Nanoparticals:

Cu doped NP s are Synthesized by two methods i)Hydrothermal Method ii) Sol gel Method

2.1.1) Hydrothermal Method:

The term hydrothermal process is define as performing chemical reaction in solvent contained in sealed vessels in which the temperature of solvent can be brought to aroundtheir critical points via heating

Title of the Research Paper: Production Of Chitinase Enzyme From Fish Waste

Name of the Research Student: - M V Bhailume ,M V Deshpande1 , P R Zende, S A Kodag, A G Divse

Name of the Guide: -

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Production Of Chitinase Enzyme From Fish Waste

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ABSTRACT

Fishery processing industries generate large amounts of products. The disposal of these waste represents an increasing environmental and health problem. To avoid wasting of these by products, various disposal methods have been applied including insulation, fermentation hydrolysate and fish oil production. Fish by products provide an excellent nutrient source for microbial growth useful in enzyme production process, which is largely governed by the cost related to growth media. Recently environmental regulations are becoming stricter, requiring new disposal methods based on fact that fish waste may considered as an important of protein, lipids and material with high biological value. In this current study, fish waste was prepared and tested as growth substrate for microbial enzymes production. Three isolates were isolated from soil which produced chitinase enzyme. Chitinase enzyme was purified and activity which was confirmed by standard enzyme assays and thin layer chromatography.

Keywords: chitin, enzyme assay, thin layer chromatography

Introduction: [1] [5] [8][9] [14] [15][16]

India is a major producer of fish. India holds second ranks in the world after China; contributing to 5.68% of global fish production. The country has a long coastline of 8118 km and inland fishery resource include 1.96 lakh km stretch of rivers and canals, 29.07 lakh hector reservoirs 24.40 lakh hector ponds and tanks . In recent years, total fish production is 9.58 million metric tons with a contribution of 6.14 million metric tons from inland sector and 3.44 million metric tons from marine sector respectively .

Approximately 131 (85%) million tonnes of fish were directly utilized as food and the rest (15%) was underutilized as live bait for fishing, ornamental products (pearls and shells), feed for carnivorous farmed species and marine worm. The production of fish in China Indonesia, India and Russia has increased while fish production decreased in other countries over the ten year period. About 75% fish resource was used for human

Title of the Research Paper :- **Green Synthesis of Pyrazole Derivatives employing 1,3-Dipolar Cycloaddition Reaction using Phenyl hydrazones and Benzoquinone under basic condition**

Name of the Research Student: - B.B.Bahule, R.R. Sangpal, Shital Jagtap, Rutuja Sawane, Shubhangi Dorage

Name of the Guide: -

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D.O.I: 10.56201/ijccp.v9.no1.2023.pg44.47

Abstract

The present study depicts the green synthesis of different Pyrazole derivatives from Phenyl hydrazones. The 1,3-dipolar cycloaddition reaction of Phenyl hydrazones with Benzoquinone is carried out under mild basic condition using bases like Pyridine and Triethyl amine. The reaction is conducted at room temperature so the unwanted by products are not formed. The work-up is also easy and can be accomplished by pouring the reaction mixture on ice and filtration of the solid product formed in the reaction. The crude products are further purified by the Column chromatography or recrystallisation techniques. The purified products are characterized by IR and ^1H NMR spectroscopy.

Keywords: *Cycloaddition, Benzoquinone, Phenyl hydrazones, Triethyl amine, Pyridine*

Introduction

Pyrazoles are the important class of organic compounds possessing various biological activities including anti-cancer activity. The synthetic approaches for designing these derivatives have been reported by various researchers. Multicomponent pyrazole synthesis from alkynes, nitriles and Titanium imido complexes have been achieved [1]. Pharmacologically important pyrazoles are synthesized by different approach [2]. A sonication method for pyrazole synthesis is reported recently in the literature [3].

Copper catalysed pyrazole synthesis in continuous flow is clean and rapid one [4]. Synthesis and molecular docking of thiazoyl - pyrazole derivatives and their anti-cancer property has been reported [5]. Silica coated catalyst was employed for the synthesis of pyrazole derivatives [6]. Some pyrazole derivatives also possess the herbicidal properties and were successfully synthesized [7]. Synthesis and anti-cancer activity of some 1,3,5-Trialkyl-1H-Pyrazoles have been successfully accomplished [8]. Pyrazoles are synthesized under solvent free condition [9]. Alkenylchalciones are used as a precursors for the synthesis of pyrazoles involving cyclisation approach with hydrazine. Multisubstituted synthesis of pyrazoles is known to involve (3+2) cycloaddition approach [11]. Amphibilic reactivity of hydrazine has been used for the synthesis of pyrazoles. New 2-(4,5-dihydro-1H-Pyrazlyl) triazole derivatives were synthesized in a one –pot and multistep way has been reported [12]. Synthesis

Title of the Research Paper :- **Synthesis and biological evaluation of 9-aryl-1,8-dioxo-octahydroxanthene derivatives as antileishmanial agents**

Name of the Research Student: - **Kamlesh Lodha, Deepak Wavhal, Namdeo Bhujbal, Priyanka Mazire, Sneha Bhujbal, Ashlesha Korde, Kamini Bagul, Amit Roy, Rohan Meshram, Vaishali Shinde**

Name of the Guide: -

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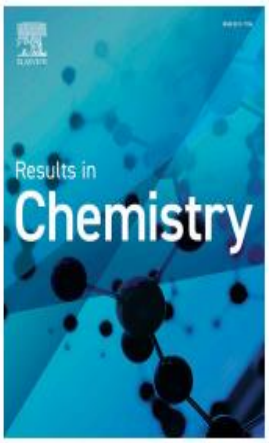

Synthesis and biological evaluation of 9-aryl-1,8-dioxo-octahydroxanthene derivatives as antileishmanial agents

Kamlesh Lodha, Deepak Wavhal, Namdeo Bhujbal, Priyanka Mazire, Sneha Bhujbal, Ashlesha Korde, Kamini Bagul, Amit Roy, Rohan Meshram, Vaishali Shinde

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Title of the Research Paper :- **Synthesis of NiCo2O4 Microflowers by Facile Hydrothermal Method: Effect of Precursor Concentration**

Name of the Research Student: - Fulari A.V.

Name of the Guide: - Dr. Mene R. U.

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Research paper

Synthesis of $NiCo_2O_4$ microflowers by facile hydrothermal method: Effect of precursor concentration

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ABSTRACT

In this work, $NiCo_2O_4$ microflowers are developed via hydrothermal method. The impact of precursor concentration on morphology and supercapacitor performance is investigated. The XRD, FTIR and XPS study reveals the formation of $NiCo_2O_4$. The FE-SEM study shows the formation of microflower-like morphology. The $NiCo_2O_4$ with molar ratio Ni:Co = 1:2 exhibited a BET specific surface area of 147.3 $m^2 g^{-1}$. The supercapacitor study confirms the optimized $NiCo_2O_4$ electrode showed a maximum sp. capacitance of 747.4 F g^{-1} at 5 mV s^{-1}. It exhibited highest energy density of 9.27 Wh kg^{-1} (@55.55 W kg^{-1}) and 82.32% capacity retention over 5000 cycles.

1. Introduction

In the last decades, research is more focused on modern electrode materials for energy storage devices (ESD) so as to complete the increasing demand for highly efficient renewable devices [1]. Among the various ESDs, supercapacitors are noteworthy candidates because of its excellent coulombic efficiency, high cyclic stability and higher power density than other ESDs [2]. The different conducting polymers [3], transition metal oxides like RuO_2 [4], MnO_2 [5], NiO [6], and Co_3O_4 [7], CeO_2 [8] has been widely studied as an electrode for pseudocapacitors. The ternary metal oxides (TMOs) deliver greater specific capacitance (sp. capacitance) than conducting polymers as it contains multi-electron redox reactions [9]. In addition, due to their rich redox-active sites and improved electronic conductivity, TMOs show better capacitive performance than single metal oxides [10]. Among the various TMOs, battery type nickel cobaltite ($NiCo_2O_4$) has been considered as promising electrode material in supercapacitor applications [11]. The high electrical conductivity and improved sp. capacitance of $NiCo_2O_4$ are due to the contributions from different valence states of the cobalt and nickel ions [12].

Researchers have tried to improve supercapacitor performance by synthesizing $NiCo_2O_4$ with different morphologies. Sethi et al. [13] developed $NiCo_2O_4$ nanorods using the low-temperature solvothermal method. The prepared $NiCo_2O_4$ nanorod reported 440 F g^{-1} sp. capacitance at a scan rate of 5 mV s^{-1}. Also, it exhibited 94% initial capacity retention over 2000 cycles. Waghmode et al. [14] prepared rodlike to flowerlike $NiCo_2O_4$ via chemical bath deposition method by varying reaction times. The optimized $NiCo_2O_4$ electrode achieved a maximum sp. capacitance of 540 F g^{-1} at a scan rate of 5 mV s^{-1} and 93.5% initial capacity retention over 1000 cycles. Han et al. [15] synthesized $NiCo_2O_4$ featherlike arrays by hydrothermal method. The $NiCo_2O_4$ electrode reported a maximum sp. capacitance of 450 F g^{-1} at 0.5 A g^{-1}. This electrode exhibited outstanding cyclic stability of 139.6% over 3000 cycles.

A literature survey showed that hydrothermal is a noteworthy technique for synthesizing different inorganic nanostructures with high complexity and structural specialties [10]. In the present investigation, we have synthesized a microflower-like structure of $NiCo_2O_4$ by using a hydrothermal method and used it as electrode material for supercapacitor application. The effect of Ni:Co concentration on the surface morphology and electrochemical supercapacitor performance of the $NiCo_2O_4$ material is investigated.

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Available online 29 April 2023

Title of the Research Paper :- **Faunal Diversity of Divegaon, Purandar Taluka, Pune District, M/S, India**

Name of the Research Student: - **Madhuri Sawant, Rupali Bhavsar, Dr. Anju Y. Mundhe*, Ajay Shinde, Shrutkirti Shukla, Divya Lande, Shubham Chavan, Ajit Ronge**

Name of the Guide: - **Dr. Sharad Giramkar**

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Faunal Diversity of Divegaon, Purandar Taluka, Pune District, M/S, India

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ABSTRACT

Animal survey was conducted in Divegaon located in Purandar Taluka, Pune District, M/S, India. Divegaon is surrounded by Haveli Taluka towards west, Pune Taluka towards west, Bhor Taluka towards South, Khandala Taluka towards South. The total geographical area of village is 274.98 hectares. Survey area is about 585 meters above sea level. A checklist of 51 animals was prepared by walking survey method. Out of these, 11 animals belong to 8 families of phylum Arthropoda and 40 animals belong to 30 families of phylum Chordata.

Keywords: Insect, Reptiles, Birds, Mammals, Divegaon, Biodiversity.

I. INTRODUCTION

Most of the biodiversity hotspot are located in Maharashtra, India. The common animals found in Maharashtra are tiger, bison, Gawa, Neelgai, wild deer, sambar, crocodile, uncommon migratory birds etc. To safeguard these areas and market them as tourism attractions, the state has made appropriate steps to establish numerous wildlife parks and sanctuaries. Biodiversity is necessary for all species on Earth, including humans, to function properly. We cannot have healthy ecosystems that give us with the air we breathe and the food we consume without a diverse range of animals, plants, and microorganisms.

Biodiversity is necessary for maintaining ecological processes such as water cycle stabilization, soil fertility maintenance and replenishment, pollination and cross-fertilization of crops and other vegetation, soil erosion protection. The preservation of biological diversity leads to the preservation of vital ecological diversity, which is necessary for food chain continuance.

II. OBJECTIVES OF THE STUDY

The main objective of present study was to observe animal diversity in study area and to study key indicators species found in study area.

Title of the Research Paper :- **Microbially Induced Calcite Precipitation for Sustainable Agriculture and Construction**

Name of the Research Student: - Waghmode Meghmala S , Bhujbal Ravina R , Masalkar Swati D, Goud Sambhaji A , Gunjal Aparna B

Name of the Guide: - Patil Neha N

GORTERIA JOURNAL

ISSN: 0017-2294

Microbially Induced Calcite Precipitation for Sustainable Agriculture and Construction

*Waghmode Meghmala S[1], Bhujbal Ravina R[1], Masalkar Swati D[1], Goud Sambhaji A[1], Gunjal Aparna B [2] and Patil Neha N[1]**

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Abstract

Microbially induced calcite precipitation is attaining a great importance as 'biomimetic' inspiration. Biomineralization is the process by which living organisms carry out reactions that promote mineral precipitation. Bio inspired engineering is futuristic approach for green civil infrastructure with microbial natural phenomenon. This study was done to evaluate the microbially induced calcite precipitation activity of bacteria on strengthening of soil and building material. Ureolytic strains were isolated and identified using biochemical properties as Alcaligenes sp., Bacillus aeolius, Bacillus naganoensis, Bacillus carboniphilus and Bacillus velezensis by 16srRNA sequencing method. Strains found to have the potential of calcite production were grown on calcite precipitation agar and B4 medium. Characterization of calcite was done using stereomicroscopy, scanning electron microscopy, Fourier Transform Infra-Red Spectroscopy and X-ray diffraction techniques. Both circular and hombohedral shapes of calcites were observed with size ranging between 20 to 600 nm. For the utilization of microbially induced calcite precipitation, activity in soil strengthening, sulfur rich soil (80 ppm) was used for field experiment with Zea mays. Maize grown in soil containing Bacillus velezensis, showed elevated vigor index. Concrete brick ameliorated with Bacillus naganoensis and Bacillus velezensis, are herein reported for first time contributing towards increase in crushing load, compressive strength as well as water absorption capacity in comparison to control and bricks meliorated with other strains. This study has concluded that MICP process can be used for sustainable environment.

Keywords: Microbially induced calcite precipitation, bioconsolidation, biomineralization, biogrouting, ureolytic bacteria, vigor index, *Bacillus velezensis*

1.0 Introduction

1.1 Biomineralization:

It is a process in which bacteria produce minerals like carbonates calcium phosphates etc. The synthesis of minerals categorized into two classes, biologically induced mineralization (BIM) and biologically controlled mineralization (BCM). Minerals are synthesized directly at a specific location within or on the cell only under certain conditions in the case of BCM. In case of BIM, the minerals are formed extracellularly as a result of metabolic activity of the organism (1). Minerals known to be formed by means of BIM through passive surface facilitated mineralization includes phosphates, metal sulfates and carbonates. Among all the minerals that have been associated with biomineralization, carbonates are the most observable. Microbially induced calcium carbonate precipitation (MICCP) can be used in

Title of the Research Paper :- **Microbial Assisted Reduction of Lead by River Isolate**

Name of the Research Student: - Mayuri N. Bhosale1 *, Susmita R. Phalke1 , Meghmala S. Waghmode1 ,

Name of the Guide: - Dr. Neha N. Patil , Dr. Aparna B. Gunjal

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Microbial Assisted Reduction of Lead by River Isolate

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ABSTRACT

The present study deals with isolation and identification of heavy metal lead reducing microorganism from Mula-Mutha river, Pune, India. A strain was characterized based on its morphological and biochemical screening test. It was confirmed as *Bacillus cereus* ATCC 14579 by MALDI-TOF and 16S rRNA sequencing. The selected isolate successful in reducing lead up to 500 ppm. It showed maximum reduction potential up to 89 % in supernatant and 88% in pellet. The reduction of lead by that isolate was estimated by using atomic absorption spectroscopic studies. The isolate showed extracellular as well as intracellular bioaccumulation mechanism for the reduction of lead.

Key words: *Bacillus cereus* ATCC 14579, Bioreduction, Lead, Heavy metal.

1. INTRODUCTION

Around the globe the developing countries are facing the problem of heavy metal pollution. The persistent and non-degradable nature of heavy metal cause a serious threat to human health and the accumulation of these metals at different levels of the food chains also adds threat to plants, animals, aquatic life, and humans. Heavy metal ions in water are characterized by their toxicity, mobility to living beings even at low concentrations. Heavy metals cause significant environmental problems by their presence in water and soil, further which is aggravated by different anthropogenic activities. These anthropogenic activities convert metals into various forms that are highly toxic and persist for longer time in the environment [1].

Heavy metals refer as the metals which having specific gravity greater than 5.0 (or density 5.0g/cm3). There are 23 types of heavy metals which can have ill-effects because of exposure are: Au, Ga, V, U, Zn, Sn, Tl, Te, Ag, Pt, Ni, Hg, Mn, Pb, Fe, Co, Cu, Cr, Ce, Cd, Bi, As, Sb. Since the toxicity of a metals is linked with its different forms, it is worthwhile to know about different forms that are found in water bodies [2]. The heavy metals concentration in water bodies is increasing day by day. Even at low concentrations some heavy metals are highly toxic to human health and cause adverse effects on environment. These metals are silent, subtle, and stalking killers. The heavy metals like Fe, Mo and Mn have low toxicity while Zn, Ni, Cu, V, W, Cr, CO having average toxicity and some such as Sb, Cd, Hg, Pb, U, Ag are highly toxic. Toxic effects of some heavy metals on humans are given below (figure 1.)

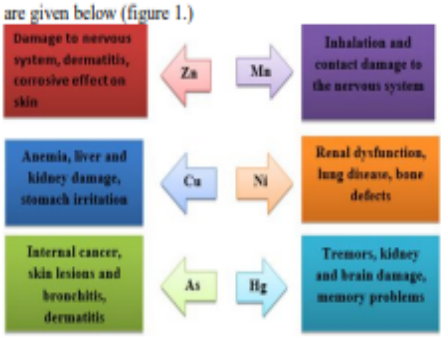

Figure 1: Effects of various heavy metals on human health.

lead is one of the non bioessential heavy metal which persist in environment for longer period and shown ecotoxicity in humans. Exposure to lead can result in wide range of biological effects which basically depends on the level and durations of exposure [3]. When exposure rate is high ultimately it results in toxic biochemical effects in humans which in turns cause problems in the synthesis of hemoglobin, effects on joints, reproductive system, kidneys, gastrointestinal tract and chronic or acute damage to nervous system. Even at minute concentrations lead being toxic, it is regarded to be one of the most toxic pollutants with primary sources from metal smelting industries, plumbing pipes, and manufacturing of insecticides [4]. Some natural processes like volcanic emissions, soil erosion and mineral mobilization also

Title of the Research Paper :- **Studies on Cytokine Production in Gutkha and Panmasala Chewers**

Name of the Research Student: - **Meghmala Sheshrao Waghmode, Gaurav Kumalakar Gaikwad, Mayur Anil Ghule, Pravin Jaysingh Indalkar**

Name of the Guide: - **Neha Nitin Patil**

Original Article

Studies on Cytokine Production in Gutkha and Panmasala Chewers

Abstract

Introduction: Panmasala is one of the products which have been favored by the people of all ages In Indian. It contains areca nut, lime, flavoring agents and catechu. It holds a prominent place in Indian market. It has been reported to affect human health by causing oral cancer and dysfunctioning of vital organs. **Materials and methods:** Current research was carried on testing the effect of saliva of panmasala eaters on cytokine production by peripheral blood mononuclear cells (PBMC's). Panmasala (Vimal) and Gutkha (RMD) were used for the study of cytokine modulation. MACSPlex Cytokine12 assay was used for the estimation of cytokine after treatment of PBMC's with the saliva of panmasala eater. **Results:** Concentration of cytokines (IL 10, IL 12, L 17, IFN α, IFN γ, TNF α, GM CSF,IL 4,IL 6,IL 5,IL 2 and IL 9) was found to be increased in the sample containing PBMC's treated with the saliva of panmasala. **Conclusion:** Based on the findings supported with the statistical analysis, it can be concluded that panmasala and gutkha have negative impact on immune function. There is a strong need to generate social awareness about health hazards of pan masala and gutkha.

Keywords: *Cytokines, gutkha, immunity, oral cancer, panmasala*

Meghmala Sheshrao Waghmode, Gaurav Kumalakar Gaikwad, Mayur Anil Ghule, Pravin Jaysingh Indalkar, Neha Nitin Patil

Department of Microbiology, PDEA's Annasaheb Magar Mahavidyalaya, Pune, Maharashtra, India

Introduction

In India panmasala, betel quid and gutkha are favorite products in rural as well as urban areas.[1] Panmasala is dehydrated product made using catechu, areca nut, slaked lime (calcium oxide and calcium hydroxide), cardamom, artificial perfuming, and flavoring substances.[2] Chewing of betel quid or its variants such as pan masala, gutkha (mitha pan) kiwam and zarda, leads to oral submucous fibrosis (OSMF) which resulted in difficulty in mouth opening.[3] OSMF is the previous stage of oral cancer. Oral cancer is the eleventh most widespread cancer worldwide[4] (WHO 2005). According to the study undertaken in the Department of Oral Pathology, Patna Dental College and Hospital, Patna, where total 50 cases of the patient diagnosed with the OSMF were evaluated to find out the relation between OSMF and chewing habit of areca nut or its products. Based on the histopathological examination of biopsy tissue from oral mucosa, researchers concluded that incidence of OSMF in gutkha chewers is far faster and more rigorous as compared in areca nut products chewers.[3]

Research has been carried out on the studies of malignant transformation of OSMF into oral squamous cell carcinoma (OSCC).[5] A significant finding has been recorded about the correlation between areca and gutkha chewing with the prevalence of OSCC where males are more susceptible.[5]

Oral cancer is often preceded by the disorder known as Oral Potentially Malignant Disorders (OPMDs). The multistep neoplasia "OSCC" has scores of genetic and epigenetic changes allied to cancerous transformation. They are "OPMDs found out to be erythroplakia, oral leukoplakia, and skin rash triggered by the immune system (lichen planus). Studies have been carried out on proinflammatory cytokines in saliva as prospective biomarkers of OPMDs and OSCC.[6-9] Tumor necrosis factor (TNF)-α is a cytokine with diverse effects. The important components in malignant transformation process[10] are inflammation, angiogenesis, programmed cell death, and proliferation. The TNF-TNF receptor system plays a significant role in these malignant transformation process.[10] The TNF-α has been found to damage DNA of cells. This results in malignant transformation due to induction of reactive oxygen species.[11] Moreover, TNF family members contribute to immune

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Quick Response Code:

Checklist of Fungi From Kalsubai Area, Maharashtra State – Part I

Author: Prof. Dr. Randive K. R.

CHAPTER

14

CHECKLIST OF FUNGI FROM KALSUBAI AREA, MAHARASHTRA STATE– PART 1

Swami P. R., Ghadage B. S. and
Ranadive K. R.*

Abstract

This is the highest peak of the state of Maharashtra. During this visit 14 fungi were collected from which Aphyllophorales are found to be dominant in the same area. This is the first effort to document the diversity of the Kalsubai area.

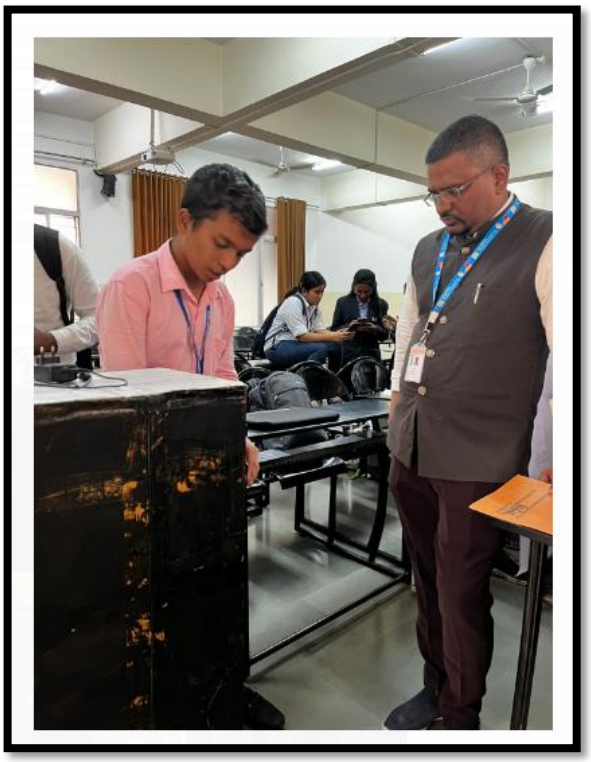
Keywords: *Aphyllophorales, Basidiomycetes, Diversity, Fungi.*

Department of Botany, P. D. E. A. Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028, Maharashtra, India,

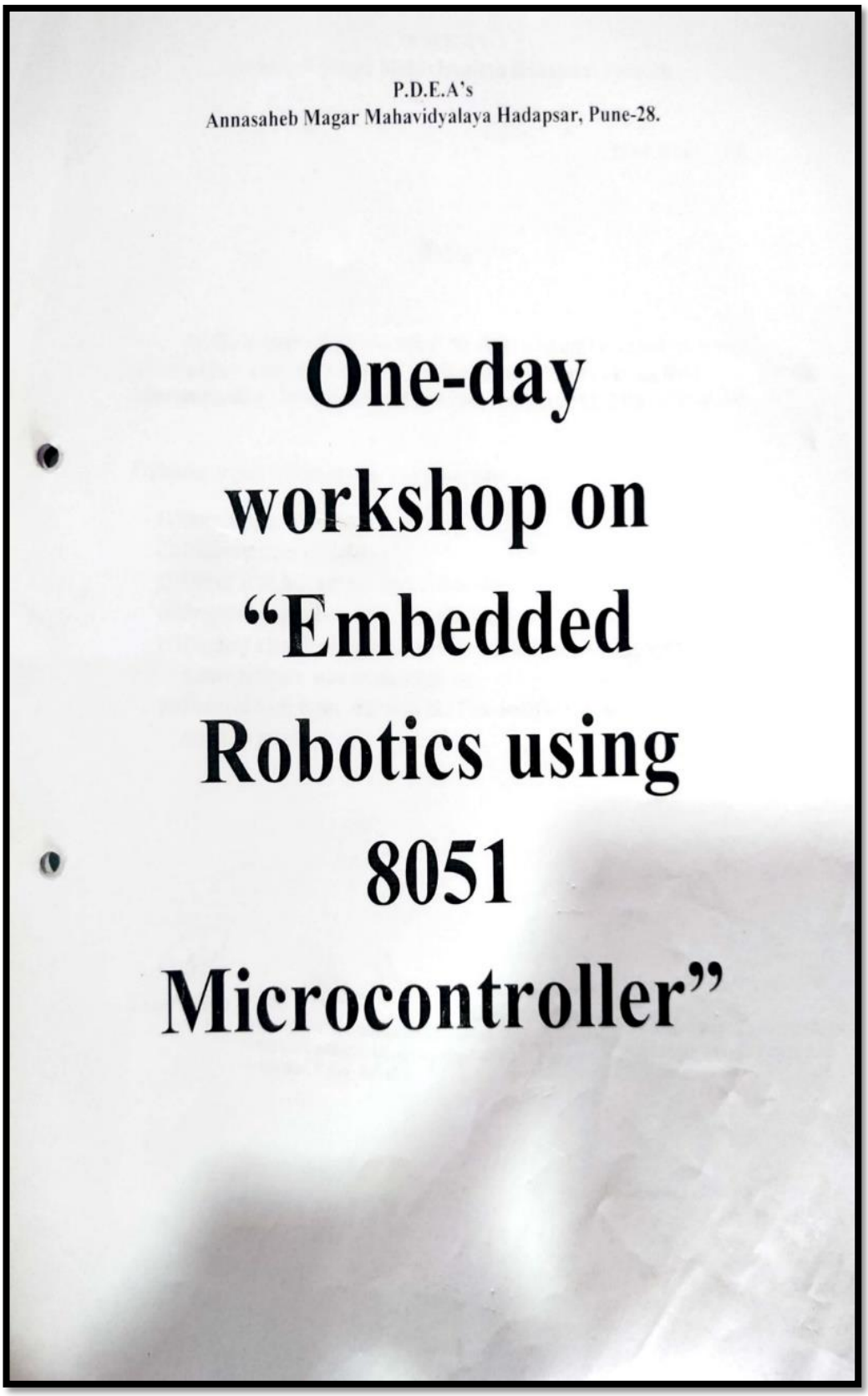
Innovative Idea and Thoughts to Address Social and Economical Problems

Smart Dust Bin

Smart Dust Bin



Robotic Car



P.D.E.A's
Annasaheb Magar Mahavidyalaya Hadapsar, Pune-28.

One-day workshop on "Embedded Robotics using 8051 Microcontroller"

Notice

P.D.E.A's
Annasaheb Magar Mahavidyalaya Hadapsar, Pune-28.

Date: 16/08/2018

Notice

All the Students of FY/ SYBSc (CS), those who are interested are hereby informed that, a one day workshop on **"Embedded Robotics using 8051 Microcontroller"** is organized in Electronics Dept on 22/08/2018 at 10.00 am.

Following topics will be covered in the session-

(1) Introduction of Robotics
(2) Different types of Robots.
(3) Use of 8051 Microcontroller for Robotics
(4) Programming Robots using Embedded C
(5) Creating a Robot using different materials like motor, base, 8051 microcontroller, wire connections, etc.
(6) Demo of basic types of Robots like Line-Follower, Robotic Car, Obstacle detection robot.

Coordinator

Head
Department of Electronics
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411 028.

Co-ordinator
IQAC Committee
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-28.

Principal
Annasaheb Magar Mahavidyalaya
Hadapsar Pune - 411 028.

Report

P.D.E.A's
Annasaheb Magar Mahavidyalaya Hadapsar, Pune-28.

Date: 22/08/2018

Report

A one day workshop on **"Embedded Robotics using 8051 Microcontroller"** was organized for the students of FY/ SYBSc(CS) in Electronics Lab on 22/08/2018 from 10.00 am onwards. Total 46 students who were interested had participated in this workshop.

This workshop was organized to make students aware about the Robotics. They were informed about robotics field and these technologies are used to develop machines that can be use as a substitute for humans and replicate human actions. Robots can be used in any situation, any purpose and for as much required time without stopping .Today many robots are used in dangerous environments like bomb detection and de-activation, manufacturing processes, or where humans cannot survive. Information about the embedded robotics was given to the students. This helped them understand about what robotics is and how they can shape their studies to form a carrier in the same.

Following topics were covered in this Training session-

(1) Introduction of Robotics
(2) Different types of Robots
(3) Use of 8051 Microcontroller for Robotics
(4) Programming Robots using Embedded C Language
(5) Creating/ making a Robot using different materials like motor, base, 8051 microcontroller, wire connections, batteries, etc.
(6) Demo of basic types of Robots like Line-Follower, Robotic Car, Obstacle detection robot.

Coordinator

Head
Department of Electronics
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411 028.

Principal
Annasaheb Magar Mahavidyalaya
Hadapsar Pune - 411 028.

Attendance

Pune District Education Association

Annsaheb Magar Mahavidyalaya, Hadapsar, Pune - 411 028

Department of Electronics

Workshop Attendance(2018-19)

S. N.	Student Name	Sign
1	Abnave Rutuja B	
2	Adling Ankita Ashok	
3	Barge Bhagyashri B	
4	Bhogade Monika B	
5	Bhondve Aishwarya Y	
6	Biramane Vaishavi S	
7	Chaudhari Bhakti S.	
8	Ansari Saddam Cholo	
9	Avasare Saurabh A.	
10	Bangar Swaraj Shrikant	
11	Bhor Vaibhav Dada	
12	Bhosale Omkar Sambhaji	
13	Charoskar Pavan Abaji	
14	Chikhale Atish Tanaji	
15	Ghume Manali Ravindra	
16	Dorge Trupati Rajendra	
17	Gaikwad Poonam D	
18	Gaiwad Ankita Raguram	
19	Garkar Puja Dnyandeo	
20	Ghule Sonam Arun	
21	Gupta Suchitra V.	
22	Dagade Deepak L.	
23	Dham Karan Arun	
24	Dimbale Sanket Dilip	
25	Divekar Mohan Sunil	
26	Gaikwad Sujit Ashok	
27	Gange Mahesh Trimbak	
28	Ghadage Sujay B.	
29	Gupta Nikhil R.	
30	Patil Sameer Balkrishna	
31	Gurav Kshamata V.	—
32	Hulule Priyanka P.	
33	Jore Harshada Vinod	
34	Kaule Tejaswi Vijay	
35	Kunjir Kiran Vijay	
36	Kunjir Tejaswini B.	
37	Langote Vaishali D.	
38	Gupta Suraj Mohan	—
39	Hendre Paritosh M.	
40	Jagtap Omkar Ganpat	—
41	Kale Vivek Raju	
42	Kamble Mayuresh Balaji	
43	Kapse Yash Abhay	
44	Khedekar Akash S.	
45	Dangade Kusum R.	
46	Holam Kishor Balasaheb	

Head
Department of Electronics
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411 028.

Photo’s

Photo’s


GPS Map Camera
Pune, Maharashtra, India
Plot no 101 indraprasht housing society, near Anna magar college,
Subhash Nagar, Hadapsar, Pune, Maharashtra 411028, India
Lat 18.504032°
Long 73.953497°
01/08/23 11:51 AM GMT +05:30
Google

Smart Helmet

E-helmets reduces accident chances

Abstract-Motorcycle accidents are very common these days and contribute about 80% of the road traffic accidents . about 73% are youngsters in the age group of 18-35. people using two wheelers die in India due to head injuries. The risk of death is nearly 25% times more among people who does not wear a helmet compared with those with a helmet. Wearing a helmet is the single most effective way to reduce head injury. That's why we need some upgrade and latest features in new helmets.

key words- safety ,devices, connectivity,

Introduction- we daily use helmet as a safety feature for riding bikes. Helmets help to protect our head ,which can be get damage during an critical accident. If our brain get any serious damage then there is very high chances of death. But during using helmet while riding ,we face some issues. like:- not getting 180 degree view while driving, air flow issues, fog on glass cover of helmet during raining, attending emergency calls while riding. Time by time features and safety is upgrading in cars and trucks, what about bike rides?

As solution we can add features such as-

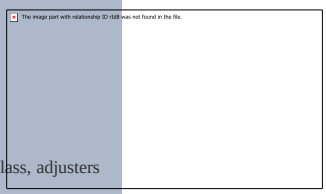
1.refraction oriented or anti glare transparent glasses for helmets

2.Bluetooth connectivity

3.stereo and ai based speakerphones

4.aerodynamic for good air ventilation like sports car get in their design

5.customization for comfortable ride and many more…



Materials- strong and safe helmet, Bluetooth devices, small stereo speakerphones or audio buds, anti-glare glass, adjusters for devices,

Results- as a result after installing this features in helmet the given problems will be get solved easily.

conclusion- A smart helmet is a type of protective headgear which makes bike driving safer than before. The main purpose of this helmet is to provide safety for the rider. a smart motorcycle helmet will do more than protect your head. It usually has added features.

References- 1). www.steelbird.com

2).studs head protection technology (book)

Patents

Dr. Zagade Nana

FORM 5
THE PATENTS ACT 1970
(39 of 1970)
&
The Patents rules, 2003
DECLARATION AS TO INVENTORSHIP
[See section 10(6) and rule 13(6)]

1. NAME: OF APPICANT (S)	1. Dr. Rajesh Bhaskar Survase 2. Dr. Santosh Tukaram Jadhav 3. Dr. Nana Zagade 4. Dr. Shashikant Memane 5. Prof. Naresh Uttamrao Patil 6. Dr. Ashok Bhagwan Divekar 7. Mr. Vijay Subhash Survase 8. Dr. Arjun Baban Doke 9. Dr. Shrikant Tukaram Ghadge 10. Ms. Maitrayee Ashok Divekar

Hereby declare that the truth and first inventor (s) of the invention disclosed in the provisional specification filed in pursuance of my application numbered 2023_____ dated _____ are.

2. **INVENTOR (S)**

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Date 31/05/2023

Dr. Rajesh Bhaskar Survase
(Applicant's Signature)

3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT (S) IN THE CONVENTION COUNTRY:-

-NA-

~~**We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).**~~

Dated this____day of ____, 2022.

Signature:-NA

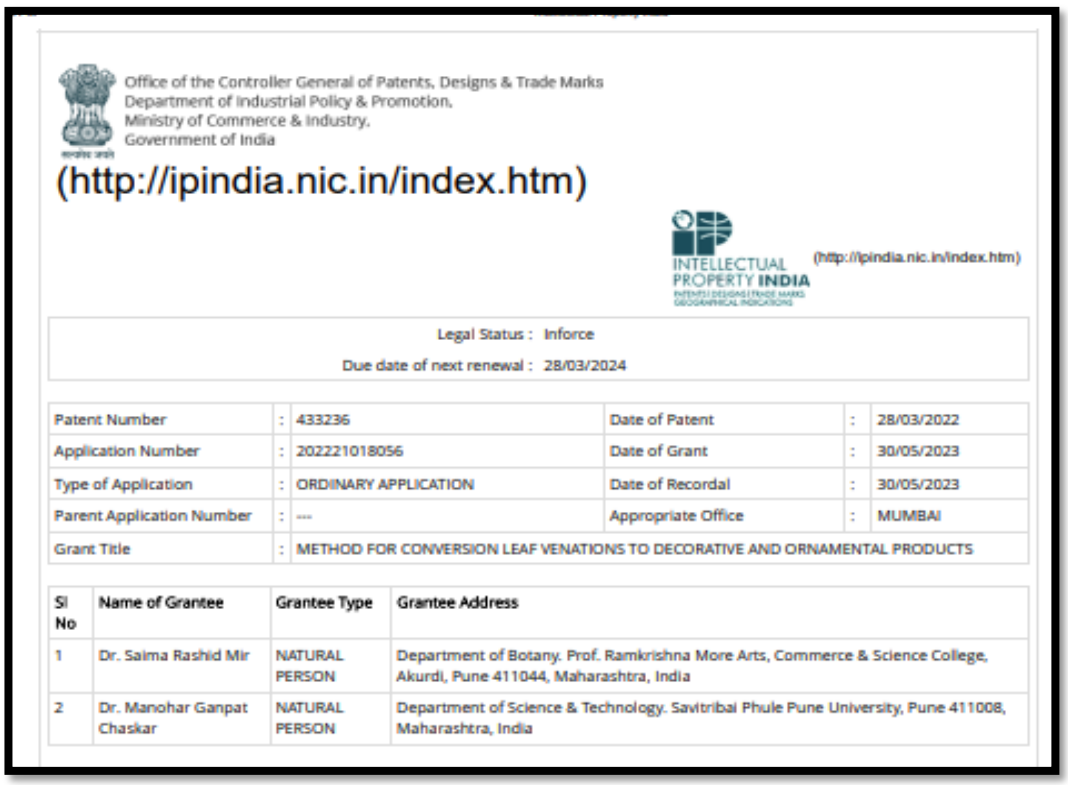
Name: of signatory:- NA

To,

The controller of patent

The patent office, at Delhi/Mumbai/Chennai/Kolkata.

Dr. Bajirao Maruti Shinde



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Legal Status : Inforce

Due date of next renewal : 28/03/2024

Patent Number	:	433236	Date of Patent	:	28/03/2022
Application Number	:	202221018056	Date of Grant	:	30/05/2023
Type of Application	:	ORDINARY APPLICATION	Date of Recordal	:	30/05/2023
Parent Application Number	:	---	Appropriate Office	:	MUMBAI
Grant Title	:	METHOD FOR CONVERSION LEAF VENATIONS TO DECORATIVE AND ORNAMENTAL PRODUCTS			

Sl No	Name of Grantee	Grantee Type	Grantee Address
1	Dr. Saima Rashid Mir	NATURAL PERSON	Department of Botany. Prof. Ramkrishna More Arts, Commerce & Science College, Akurdi, Pune 411044, Maharashtra, India
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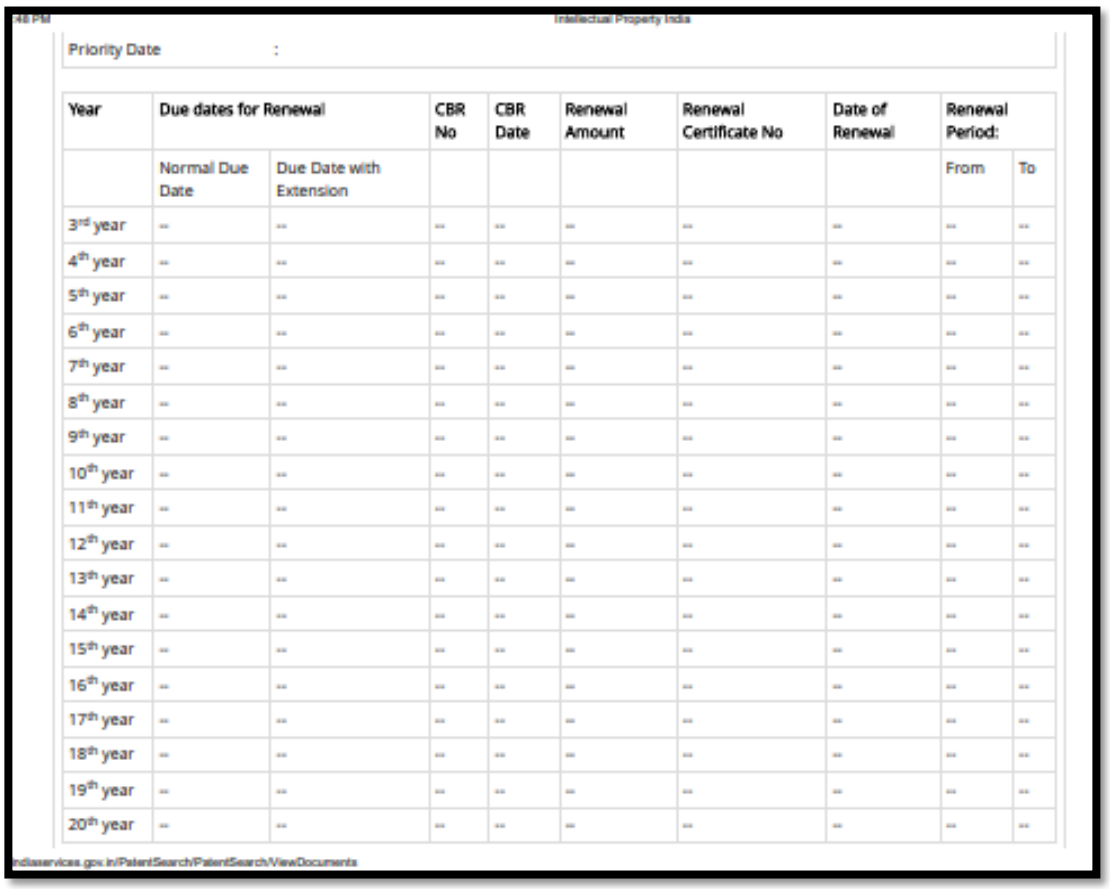

48 PM Intellectual Property India

Priority Date :

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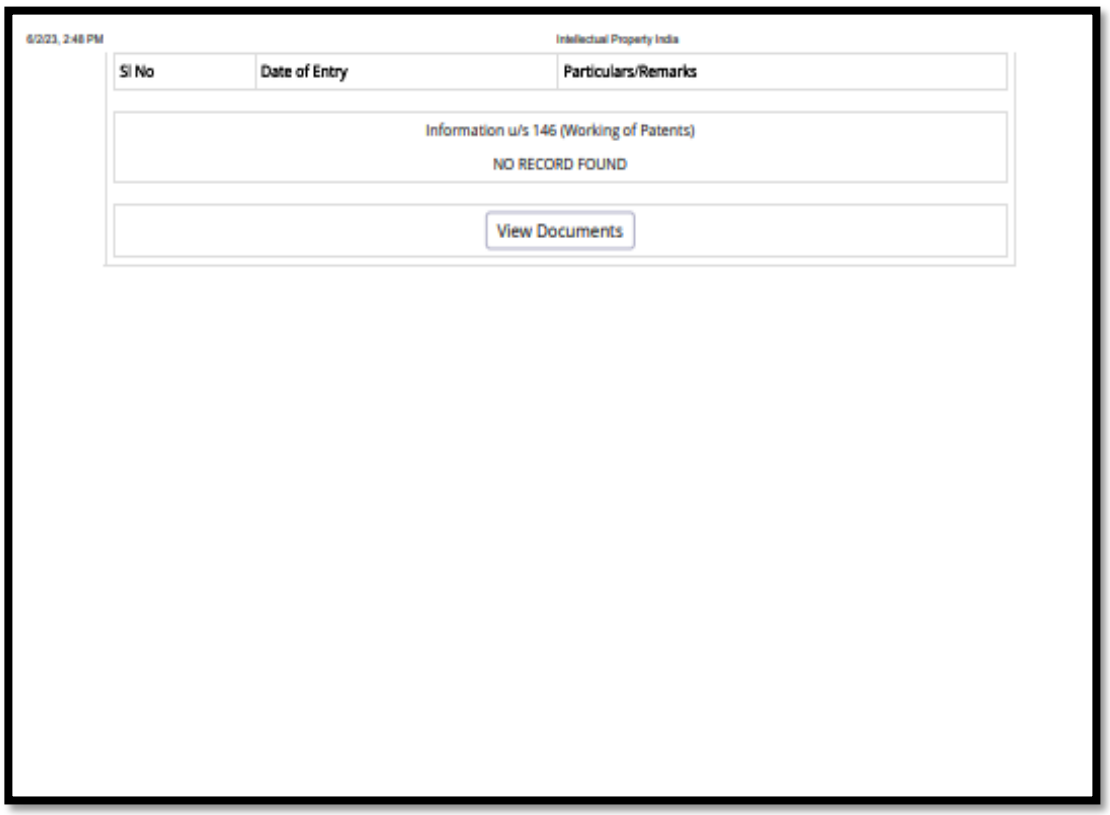

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Sl No	Date of Entry	Particulars/Remarks

Information u/s 146 (Working of Patents)

NO RECORD FOUND

View Documents

Dr. Khisti U. V.

FORM 1 THE PATENTS ACT, 1970 [39 of 1970] & THE PATENTS (AMENDMENT) RULES, 2006 APPLICATION FOR GRANT OF PATENT [See Sections 7, 54 & 135 and rule 20(1)]	(FOR OFFICE USE ONLY) Application No: Filing date: Amount of Fee paid: CBR No. Signature:

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Novel formulation, 'Aacutiammune' for the management of COVID-19

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5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY - NOT APPLICABLE -

Country	Application Number	Filing Date	Name of the applicant	Title of the invention

Dr. Khisti U. V.

FORM 1 THE PATENTS ACT, 1970 [39 of 1970] & THE PATENTS (AMENDMENT) RULES, 2006 **APPLICATION FOR GRANT OF PATENT** [See Sections 7, 54 & 135 and rule 20(1)]	**(FOR OFFICE USE ONLY)** Application No: Filing date: Amount of Fee paid: CBR No. Signature:

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Novel formulation, "LCDvir" for the management of COVID-19

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3. TITLE OF THE INVENTION:
Novel formulation, 'G2B' for the management of COVID-19

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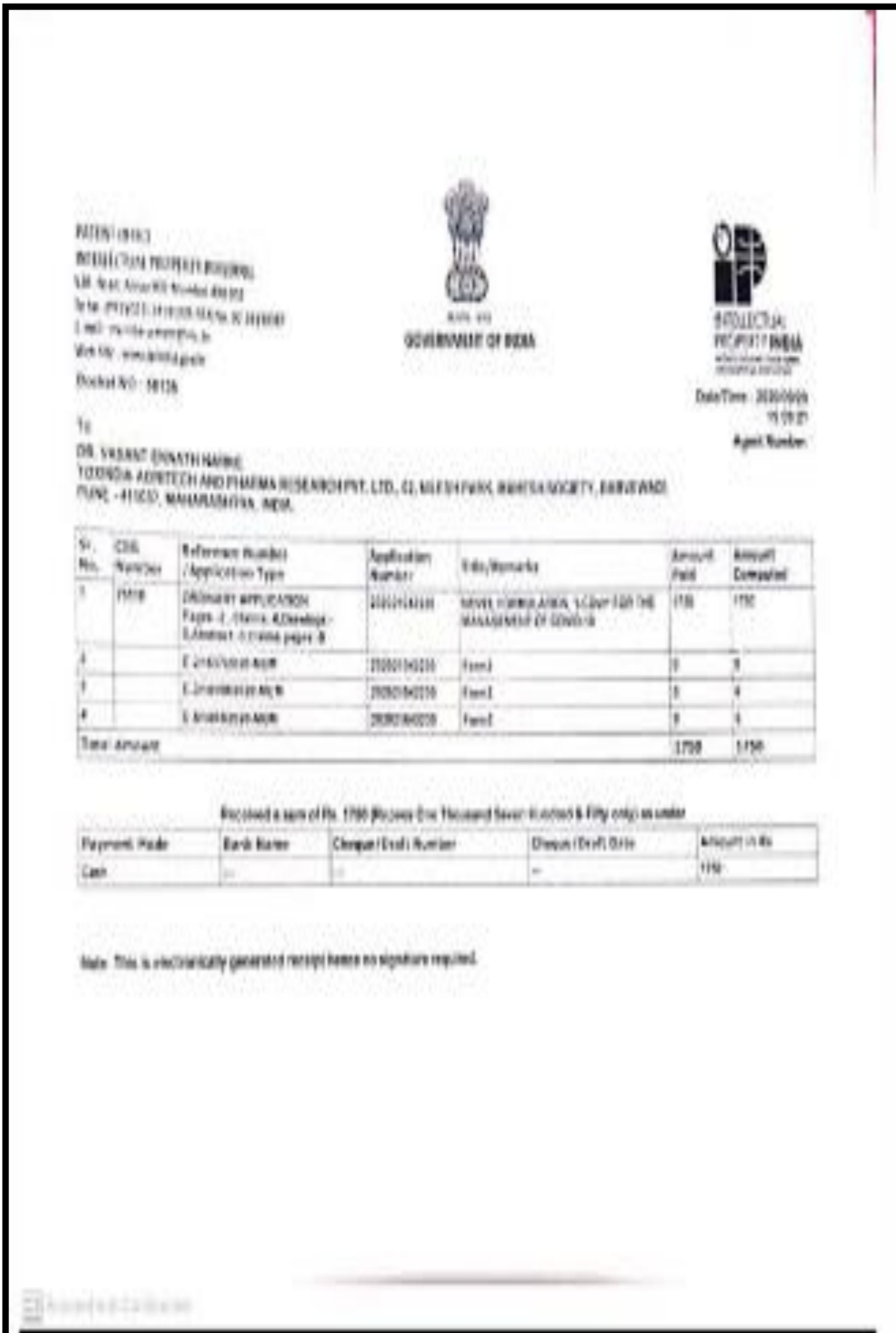
5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY - NOT APPLICABLE -

Country	Application Number	Filing Date	Name of the applicant	Title of the invention

Dr. Khisti U. V.



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Date/Time : [illegible]
Agent Number:

To
DR. VASANT [illegible]
[illegible] AGRITECH AND PHARMA RESEARCH PVT. LTD., [illegible]
PUNE - [illegible], MAHARASHTRA, INDIA.

Sr. No.	CBR Number	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
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4		[illegible]	[illegible]	Form [illegible]	[illegible]	[illegible]
Total Amount					1750	1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) as under

Payment Mode	Bank Name	Cheque/ Draft Number	Cheque / Draft Date	Amount in Rs.
Cash	--	--	--	1750

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Dr. Khisti U. V.

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To

Sr. No.	Form Number	Reference Number / Application Type	Application Number	Title / Remarks	Amount Paid	Amount Payable
1	[illegible]	ORDINARY APPLICATION Pages: 2 Claims: 4 Drawings: - Additional: 0 Claims pages: 0	[illegible]	NOVEL FORMULATION, MANUFACTURING PROCESS FOR THE MANAGEMENT OF COVID-19	1750	1750
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Note: This is electronically generated receipt hence no signature required.

Devadhe Suresh Atmaram

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2023

(21) Application No.202321077112 A
(43) Publication Date : 15/12/2023

(54) Title of the invention : MEASURING THE EFFECTIVENESS OF ONLINE SHOPPING

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(57) Abstract :
ABSTRACT OF MEASURING THE EFFECTIVENESS OF ONLINE SHOPPING Online shopping has become an increasingly popular activity for consumers who are looking for convenience, convenience and ease. This trend has been further enabled by the growth of digital technologies, such as e-commerce, mobile commerce, and social media, which have created opportunities to purchase products and services from sellers. As such, it is important to evaluate the effectiveness of online shopping in order to identify potential improvements for the user experience. This can be done by measuring a variety of metrics, such as customer satisfaction, conversion rates, cart abandonment rates, product returns, scalability, trustworthiness, and customer service. Additionally, analytics such as seller conversion rate, click-through rate, and cart abandonment rate can be used to quantify the consumer-level performance of an online store. Overall, an evaluation of online shopping efforts must also consider both the quantitative and qualitative dimensions of the user experience. The survey results were compared and analyzed to determine the key differences between the two purchasing experiences. The results suggest that consumers who shop online are more satisfied and loyal than those who shop at traditional stores, with higher levels of customer loyalty and satisfaction. Additionally, online stores show higher sales growth rates and more cost-effective, making them more beneficial for businesses. Overall, online stores exhibit higher customer acquisition costs due to the costs of the customer's purchase rates. This suggests that the adoption of effective online sales strategies is necessary for businesses to maximize the effectiveness of online shopping.

Fig 1: Proposed conceptual model

No. of Pages : 10 No. of Claims : 6

Devadhe Suresh Atmaram

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/11/2023

(21) Application No.202321077113 A

(43) Publication Date : 15/12/2023

(54) Title of the invention : THE IMPACT OF E-COMMERCE ON EMERGING MARKETS

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7)Devadhe Suresh Atmaram
8)Dr. Rajesh TrambakBirajdar
9)Dr. Sanadhan Dharma Shinde
10)Dr. Dnyaneshwar Vithalrao Phad
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12)Dr. Shinde Atma Haribu Assistant Professor, Economi
Address of Applicant :Assistant Professor, Economics, Modern College, Ganeshkhind, Pune, Maharashtra 411016 Pune

(51) International classification : G06Q0030020000, G06Q0030000000, G06Q0010000000, G06Q0030020300, G06Q0020400000
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract :
ABSTRACT THE IMPACT OF E-COMMERCE ON EMERGING MARKETS E-Commerce has the potential to bring radical changes to the economic enterprises of emerging markets due to its availability, affordability, and efficiency. The rapid development of new technology and platforms have increased access to key resources in these markets that can enable businesses to reduce costs, increase revenue, and use new business models that take advantage of market opportunities. Furthermore, E-Commerce can help emerging markets to build an integrated, digital economy that unlocks the potential of many of their citizens and creates new opportunities for small and medium-sized enterprises (SMEs). In terms of access, emerging markets are experiencing increasing access to digital technology, enabling SMEs to embrace E-Commerce channels. Additionally, the widespread use of mobile (subscriber) has allowed rural and underserved segments of the population to enter the digital economy. These advancements in technology are forming a new marketplace that is allowing even the smallest emerging markets businesses to access an global consumer base. In addition to this access advancements brought about through technology, E-Commerce also offers affordability. Many emerging markets are already highly competitive, and e-commerce serves to bring about further price reductions and incentivized pricing models. This can be a tremendous benefit to SMEs, who are often working on smaller budgets and unable to afford traditional retail-based models. Finally, E-Commerce provides a highly efficient channel for emerging markets businesses. By eliminating the need for a physical store, E-Commerce channels significantly reduce cost and time associated with running a business. Additionally, many of these businesses are able to utilize business intelligence and data analytics tools to gain insights and optimize their customer offerings. These technologies can be leveraged to optimize marketing dollars and provide tailored services to their customers. Overall, the growth of E-Commerce has had a tremendous impact on emerging markets economies. It has given businesses access to global markets, affordability, and efficiency, creating a platform that can unleash the potential of many of these markets.

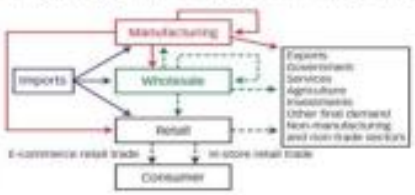
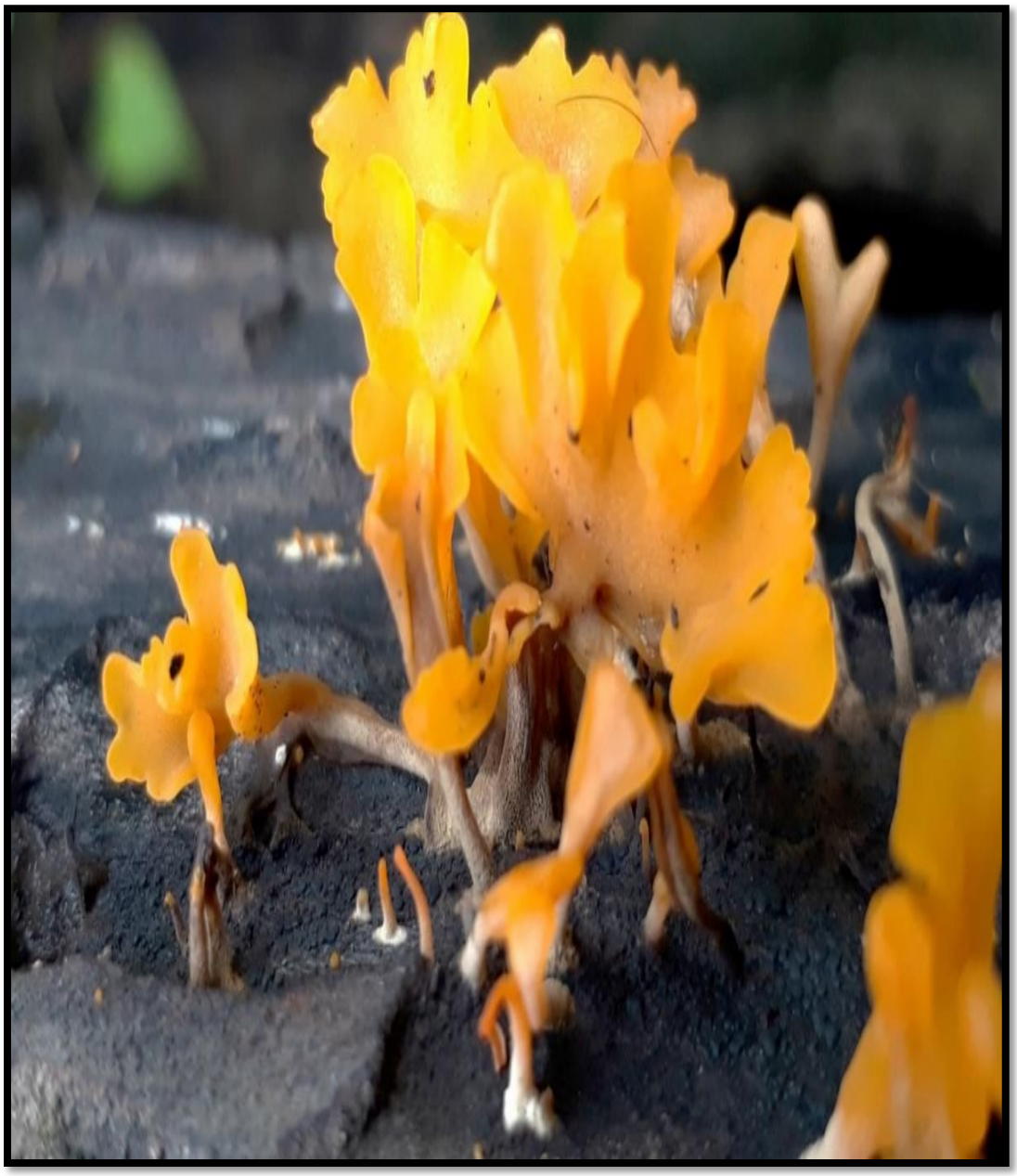


Fig.1: Proposed innovation model

No. of Pages : 13 No. of Claims : 9

Fungi Conservation Club



DEVELOPED FIRST INDIAN WEBSITE ON FUNGI:

www.fungifromindia.com-

URL: .http://www.fungifromindia.com/fungiFromIndia/buildPage.php?page=home

- ✓ A self-funded website giving details of all Indian fungi from various groups. The first group that is wood rotting fungi is already completed in the form of IAD-Indian Aphyllofungal Database and other groups of fungal work of database is in progress with 7528 species records of India.The Databases are as follows- IAD- Indian Aphyllo-Fungal Database, IMD-Indian Myxomycetous Database, IMFD-Indian Marine Fungal Database, IASD-Indian Ascomycetous Fungal Database, IMUD-Indian Mushroom Database, IRFD-Indian Rust Fungal Database and ILD- Indian Lichen Database.

- ✓ The same Databases are added on the North American Databases from which URLS are as follows

  http://lichenportal.org/portal/collections/misc/collprofiles.php?collid=114 (Lichens)
  http://mycoportal.org/portal/collections/misc/collprofiles.php?collid=92 (Ascomycetes)
  http://mycoportal.org/portal/collections/misc/collprofiles.php?collid=93 (Mushrooms)
  http://mycoportal.org/portal/collections/misc/collprofiles.php

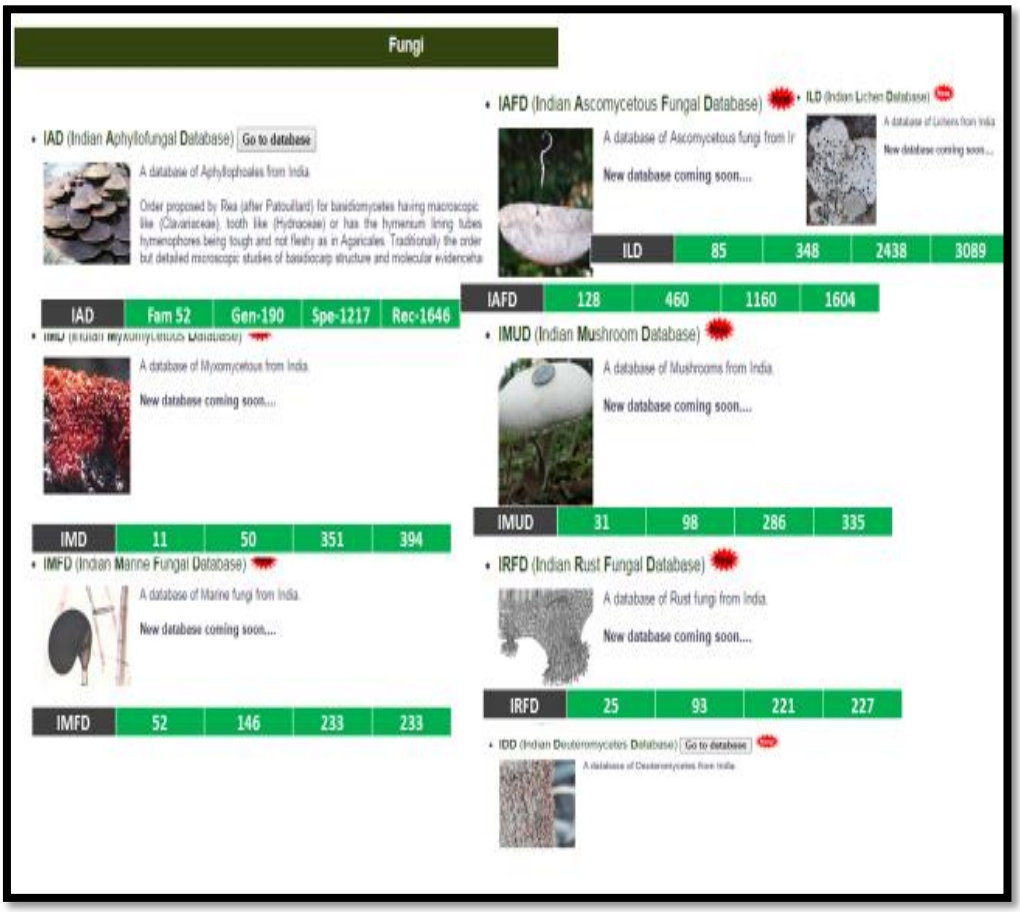
Website

URL: http://www.fungifromindia.com/fungiFromIndia/buildPage.php?page=home

A self-funded website giving details of all Indian fungi from various groups. The first group that is wood rotting fungi is already completed in the form of **IAD- Indian Aphyllofungal Database** and other groups of fungal work of database is in progress with 7528 species records of India. The Databases are as follows- **IAD- Indian Aphyllo-Fungal Database, Indian Myxomycetous Database, Indian Marine Fungal Database, Indian Ascomycetous Fungal Database, Indian Mushroom Database, Indian Rust Fungal Database and Indian Lichen Database.**

Databases	Details of the databases			
	Number of Families	Number of genera	Total Number of species	Total Number of records
IAD	52	190	1217	1646
IMD	11	50	351	394
IMFD	52	146	233	233
IAFD	128	460	1160	1604
IMUD	31	98	286	335
IRFD	25	93	221	227
ILD	85	348	2438	3089
IDD	85	178	610	693
Total	469	1563	6516	8221

Website


Fungi
IAD (Indian Aphyllofungal Database) Go to database
A database of Aphyllophorales from India
Order proposed by Rea (after Patouillard) for basidiomycetes having macroscopic like (Clavariaceae), tooth like (Hydnaceae) or has the hymenium lining tubes hymenophores being tough and not fleshy as in Agaricales. Traditionally the order but detailed microscopic studies of basidiocarp structure and molecular evidencehs
IAD Fam 52 Gen-190 Spe-1217 Rec-1646
IAFD (Indian Ascomycetous Fungal Database)
A database of Ascomycetous fungi from Ir
New database coming soon....
ILD (Indian Lichen Database)
A database of Lichens from India
New database coming soon....
ILD 85 348 2438 3089
IAFD 128 460 1160 1604
IMD (Indian Myxomycetous Database)
A database of Myxomycetous from India
New database coming soon....
IMD 11 50 351 394
IMFD (Indian Marine Fungal Database)
A database of Marine fungi from India
New database coming soon....
IMFD 52 146 233 233
IMUD (Indian Mushroom Database)
A database of Mushrooms from India
New database coming soon....
IMUD 31 98 286 335
IRFD (Indian Rust Fungal Database)
A database of Rust fungi from India
New database coming soon....
IRFD 25 93 221 227
IDD (Indian Deuteromycetes Database) Go to database


Only Lichen Database from India
https://lichenportal.org/cnalh/collections/index.php
Asian Lichen Herbaria
Ibaraki Nature Museum, Lichen collection (INM) more info...
Indian Lichen Database (ILD) more info...
Lichen specimens of National Museum of Nature and Science, Japan (TNS-L) more info...
Moscow State University Herbarium (MW) more info...
Saitama Museum of Natural History, Lichen specimens (SMNH) more info...
Lichens
ILD (Indian Lichen Database)
A database of Lichens from India
New database coming soon....
The same Databases are added on the North American Databases from which URLS are as follows
http://lichenportal.org/portal/collections/misc/collprofiles.php?collid=114(Lichens)
http://mycoportal.org/portal/collections/misc/collprofiles.php?collid=92(Ascomycetes)
http://mycoportal.org/portal/collections/misc/collprofiles.php?collid=93(Mushrooms)
http://mycoportal.org/portal/collections/misc/collprofiles.php?collid=94 (Rusts)

Website

- ✓ Genus *Ranadivia* Zmitr. 2018 of Family Fomitopsidaceaehas been coined in honor of my name by Dr. Ivan Zmitrovich, Kumarow Botanical Institute, St. Petersberg Russia In Mycological Taxonomic literature volume entitled “FOLIA CRYPTOGAMICA PETROPOLITANA No. 6 By Dr. I. V. ZMITROVICH in CONSPECTUS SYSTEMATIS POLYPORACEARUM v. 1.0 PETROPOLI 2018”. It has been added on the International Mycological Databases like Mycobank (http://www.mycobank.org/quicksearch.aspx) and Index Fungorum. (http://www.indexfungorum.org/names/Names.asp) under the Legitimate (means Accepted Worldwide) category.

  In the Etymology he wrote that : The new genus was named in honor of the Indian Mycologist Kiran Ranadive, who extensively studied the diversity and taxonomy of the Polyporales in India.”
- ✓ Got 1 species New to World New Species of Fungus from India- Xylaria symplococci) Xylaria symploci A. Pande, Waingankar., Punekar & Ranadive [as ‘symplocosii’], Indian J. For. 28(3): 267 (2005)URL: http://www.indexfungorum.org/names/NamesRecord.asp?RecordID=585173

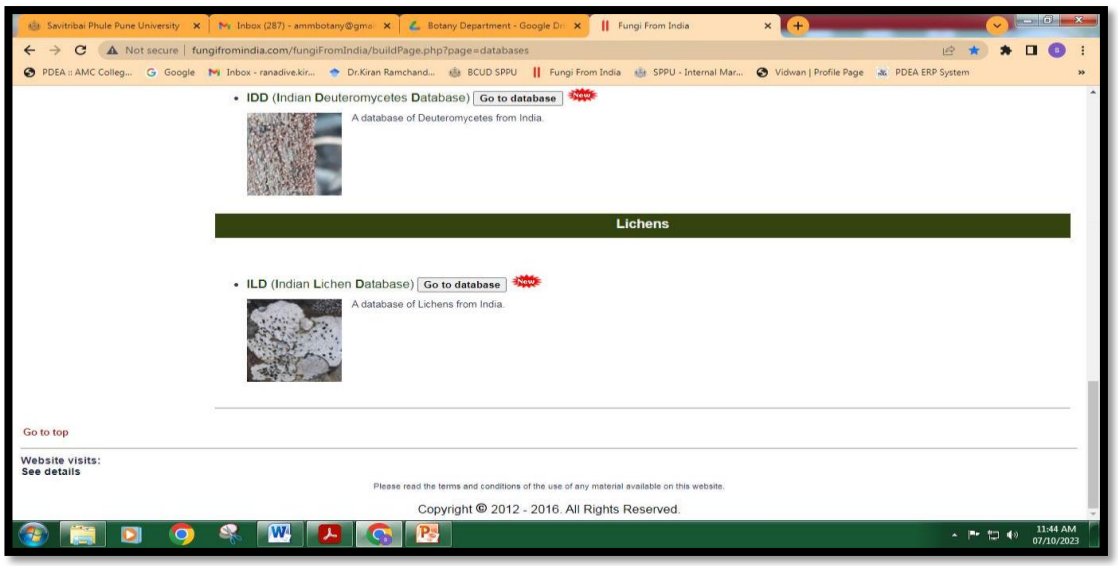
Award

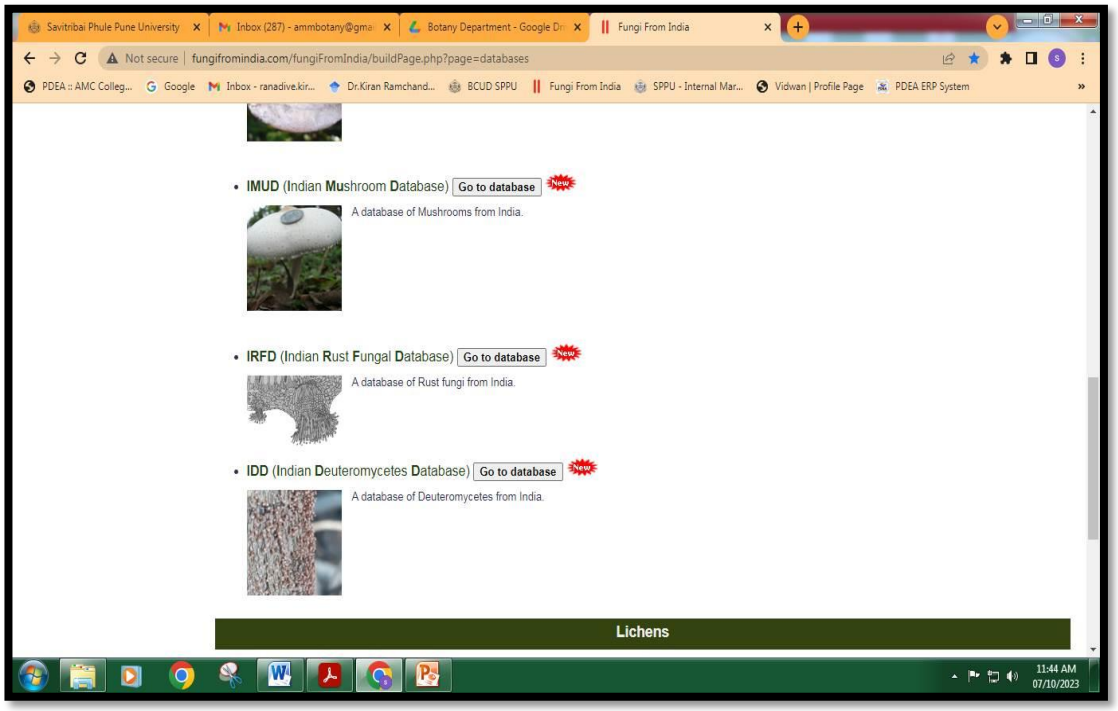
- ✓ Got Martin-Baker Research Award from Mycological Society of America, in 2017 and got 2500$. First Indian to get the award

INTERNATIONAL RECOGNITION:

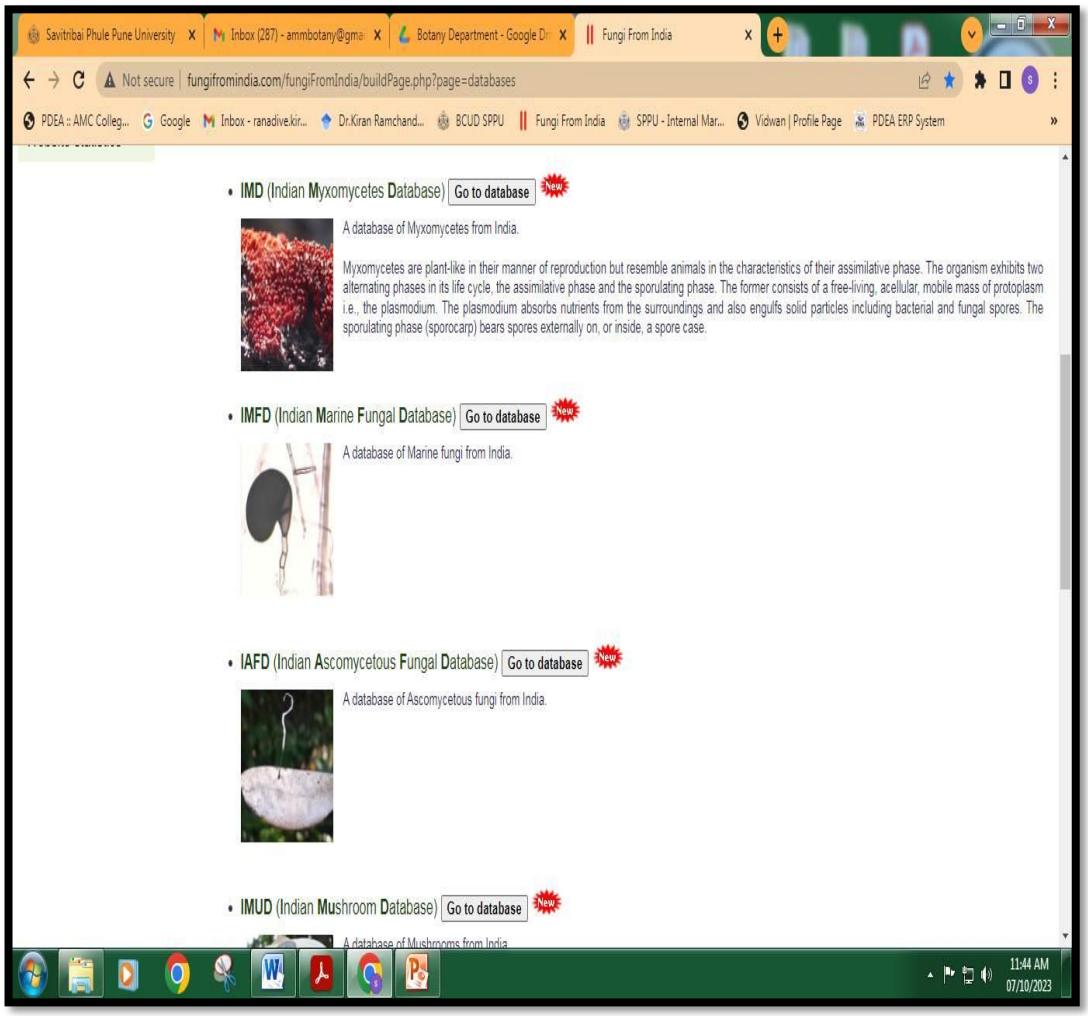
Selected as a **Commission member of IUCN** Species Survival Commission **(SSC)** Mushrooms, Brackets and Puffballs Specialist Group 2017-2020 has been confirmed by Hon. Dr. Gregory Mueller for the period 2020-2025. Now the member of the IUCN Species Survival Commission(SSC). (On 21st Dec 2020)

Selected as a **Commission member of IUCN** Species Survival Commission **(SSC)** Mushrooms, Brackets and Puffballs Specialist Group for **Asia** level, period 2020-2025.





Website


Savitribai Phule Pune University
Inbox (287) - ammbotany@gma
Botany Department - Google Dr
Fungi From India
Not secure | fungifromindia.com/fungiFromIndia/buildPage.php?page=databases
PDEA :: AMC Colleg...
Google
Inbox - ranadive.kir...
Dr.Kiran Ramchand...
BCUD SPPU
Fungi From India
SPPU - Internal Mar...
Vidwan | Profile Page
PDEA ERP System
IMD (Indian Myxomycetes Database) Go to database New
A database of Myxomycetes from India.
Myxomycetes are plant-like in their manner of reproduction but resemble animals in the characteristics of their assimilative phase. The organism exhibits two alternating phases in its life cycle, the assimilative phase and the sporulating phase. The former consists of a free-living, acellular, mobile mass of protoplasm i.e., the plasmodium. The plasmodium absorbs nutrients from the surroundings and also engulfs solid particles including bacterial and fungal spores. The sporulating phase (sporocarp) bears spores externally on, or inside, a spore case.
IMFD (Indian Marine Fungal Database) Go to database New
A database of Marine fungi from India.
IAFD (Indian Ascomycetous Fungal Database) Go to database New
A database of Ascomycetous fungi from India.
IMUD (Indian Mushroom Database) Go to database New
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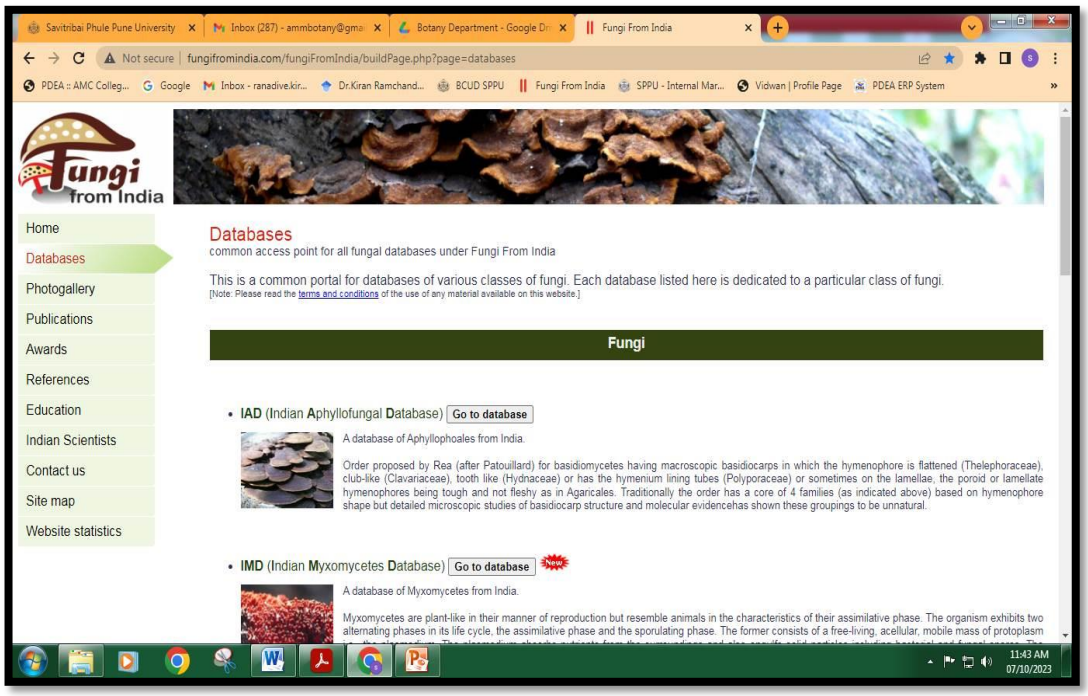
Savitribai Phule Pune University
Inbox (287) - ammbotany@gma
Botany Department - Google Dr
Fungi From India
Not secure | fungifromindia.com/fungiFromIndia/buildPage.php?page=databases
PDEA :: AMC Colleg...
Google
Inbox - ranadive.kir...
Dr.Kiran Ramchand...
BCUD SPPU
Fungi From India
SPPU - Internal Mar...
Vidwan | Profile Page
PDEA ERP System
Fungi from India
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Indian Scientists
Contact us
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Website statistics
Databases
common access point for all fungal databases under Fungi From India
This is a common portal for databases of various classes of fungi. Each database listed here is dedicated to a particular class of fungi.
[Note: Please read the terms and conditions of the use of any material available on this website.]
Fungi
IAD (Indian Aphyllofungal Database) Go to database
A database of Aphyllophoales from India.
Order proposed by Rea (after Patouillard) for basidiomycetes having macroscopic basidiocarps in which the hymenophore is flattened (Thelephoraceae), club-like (Clavariaceae), tooth like (Hydnaceae) or has the hymenium lining tubes (Polyporaceae) or sometimes on the lamellae, the poroid or lamellate hymenophores being tough and not fleshy as in Agaricales. Traditionally the order has a core of 4 families (as indicated above) based on hymenophore shape but detailed microscopic studies of basidiocarp structure and molecular evidencehas shown these groupings to be unnatural.
IMD (Indian Myxomycetes Database) Go to database New
A database of Myxomycetes from India.
Myxomycetes are plant-like in their manner of reproduction but resemble animals in the characteristics of their assimilative phase. The organism exhibits two alternating phases in its life cycle, the assimilative phase and the sporulating phase. The former consists of a free-living, acellular, mobile mass of protoplasm
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07/10/2023

Award


Savitribai Phule Pune University
Inbox (287) - ammbotany@gma
Botany Department - Google Dr
Fungi From India
Not secure
fungifromindia.com/fungiFromIndia/buildPage.php?page=home
PDEA :: AMC Colleg...
Google
Inbox - ranadive.kir...
Dr.Kiran Ramchand...
BCUD SPPU
Fungi From India
SPPU - Internal Mar...
Vidwan | Profile Page
PDEA ERP System
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Awards
References
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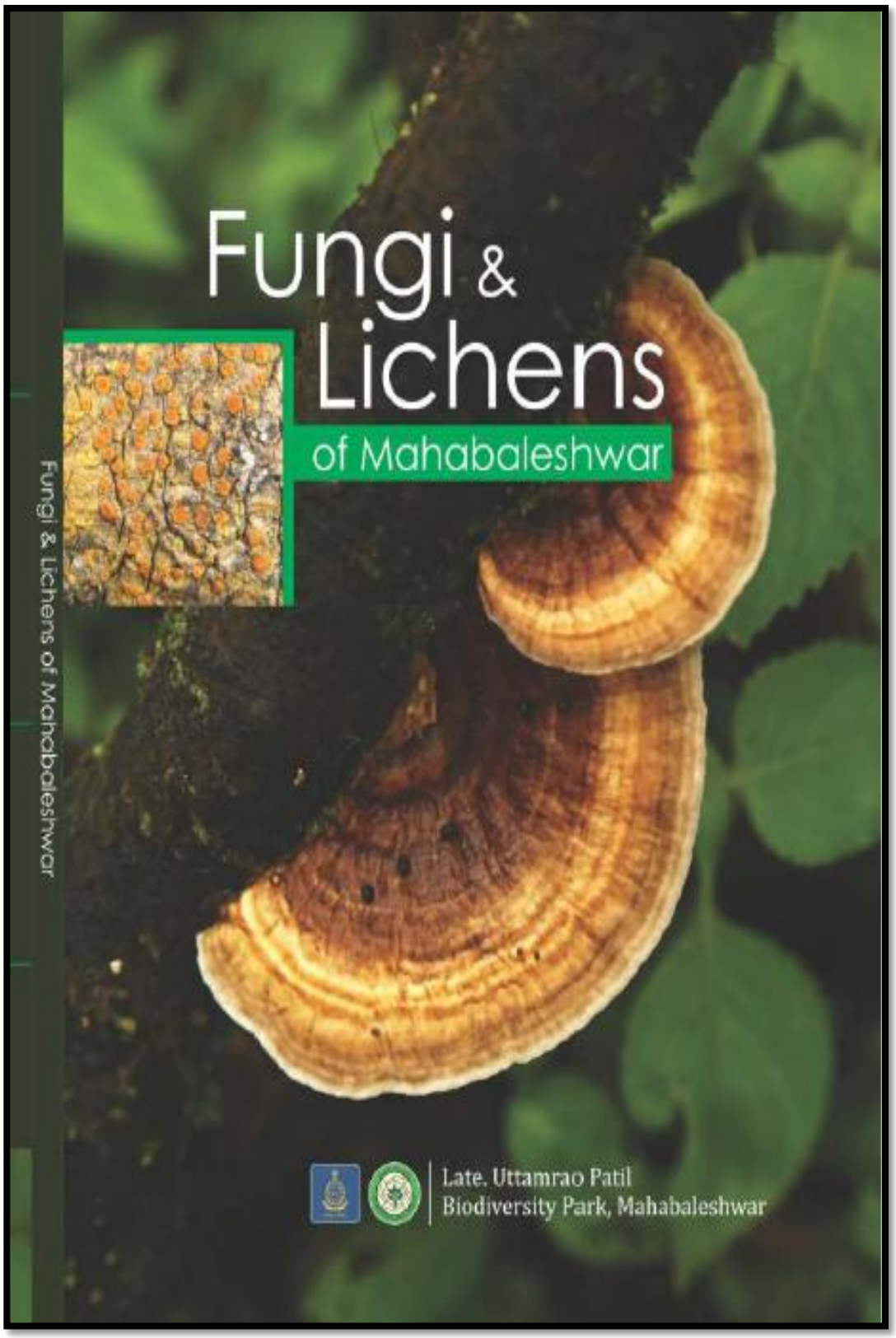
Indian Scientists
Contact us
Site map
Website statistics
Welcome to the Fungi From India
Collection of Taxonomic Databases of Indian fungi.
In the current decade, there is a growing realisation about sustaining the biodiversity the Indian subcontinent is blessed with. Of particular interest, are the Western Ghats, which sustain rich resources and is also a part of our habitation. Unfortunately, the talk of biodiversity that reaches the common person is quite limited. The efforts undertaken by people to conserve rare or endangered floral or faunal members, often overlook the value of microflora which include fungi.
Waiting for www.fungifromindia.com...
11:45 AM
07/10/2023

Reference Books Published

Book Name : Fungi & Lichens

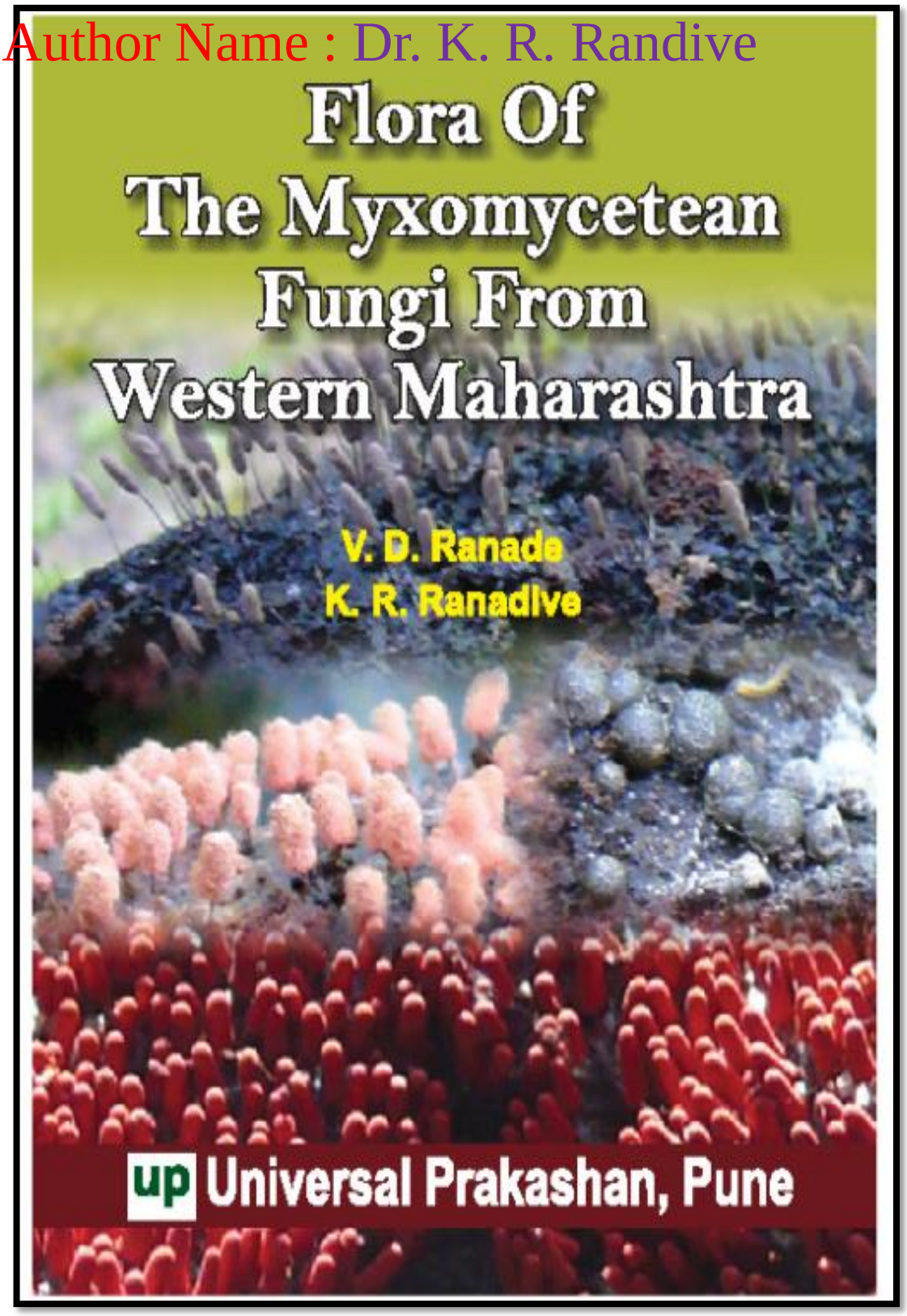
Author Name : Dr. K. R. Randive



Reference Books Published

Book Name : Flora of the Myxomyceteam Fungi From Western Maharashtra

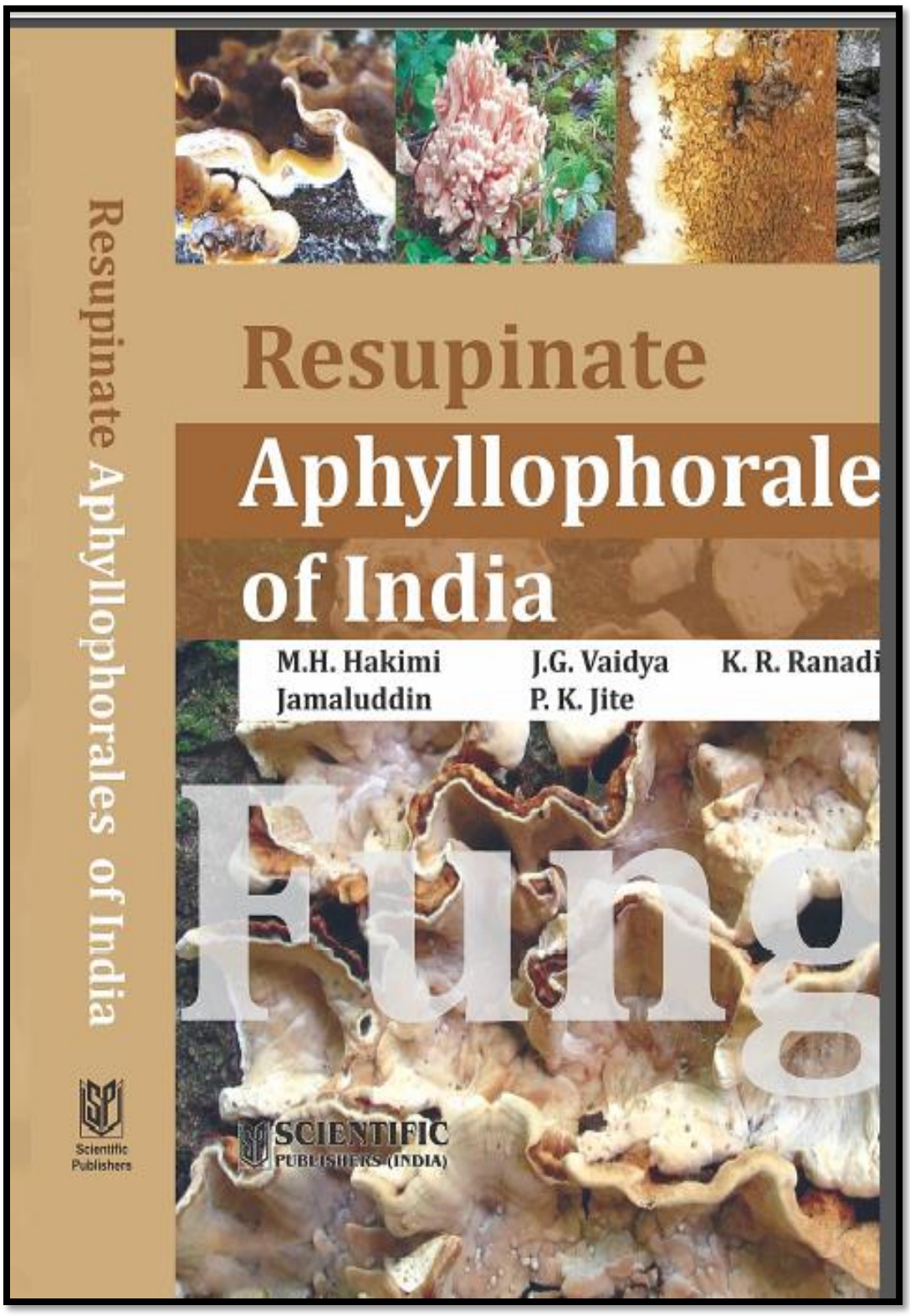
Author Name : Dr. K. R. Randive



Reference Books Published

Book Name :Resupinate Aphyllophorale of India

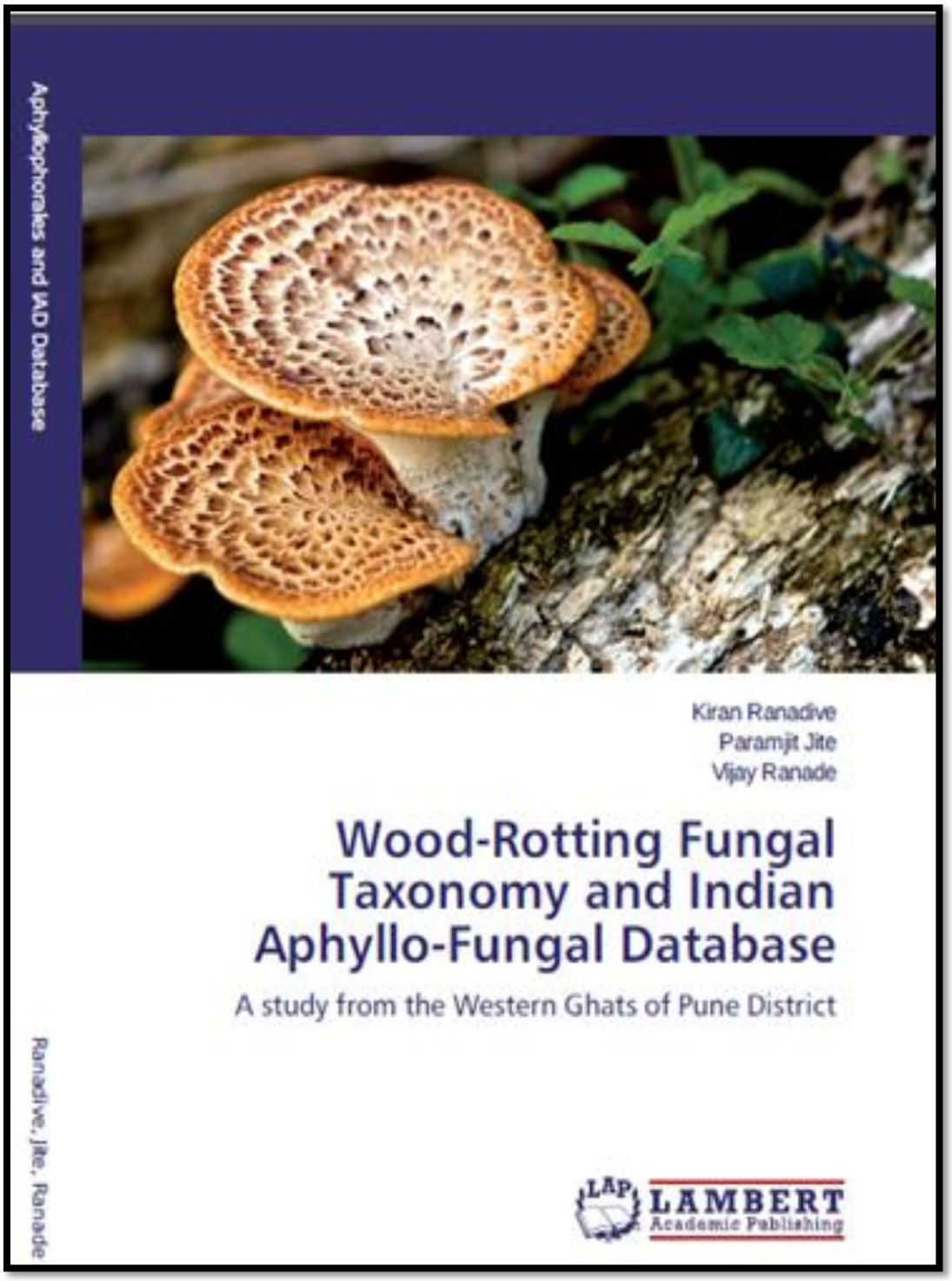
Author Name : Dr. K. R. Randive



Reference Books Published

Book Name : Wood- Rotting Fungal Taxonomy and Indian Aphyllo-Fungal Database

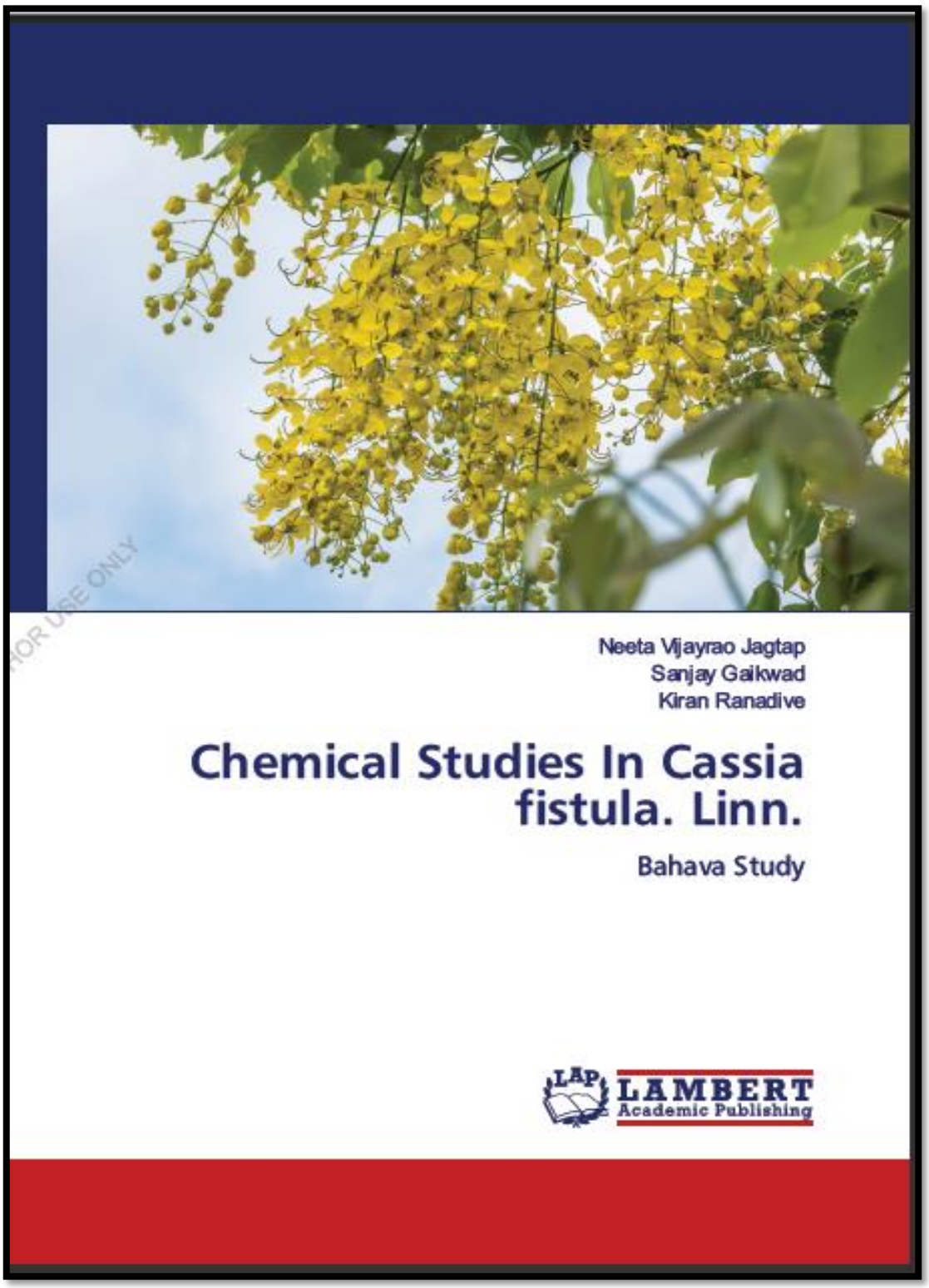
Author Name : Dr. K. R. Randive



Reference Books Published

Book Name : Chemical Studies In Cassia Fistula. Linn.

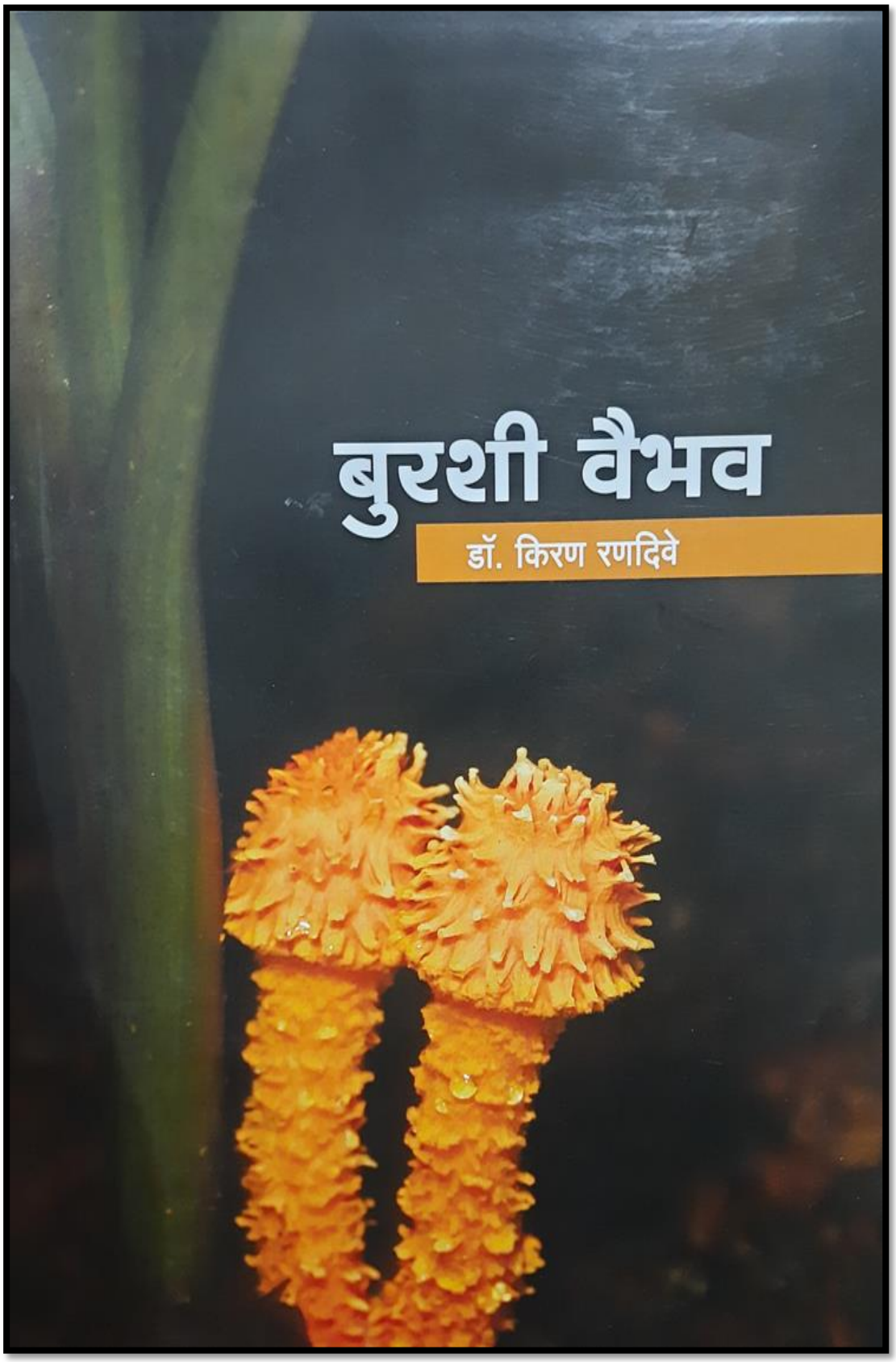
Author Name : Dr. K. R. Randive



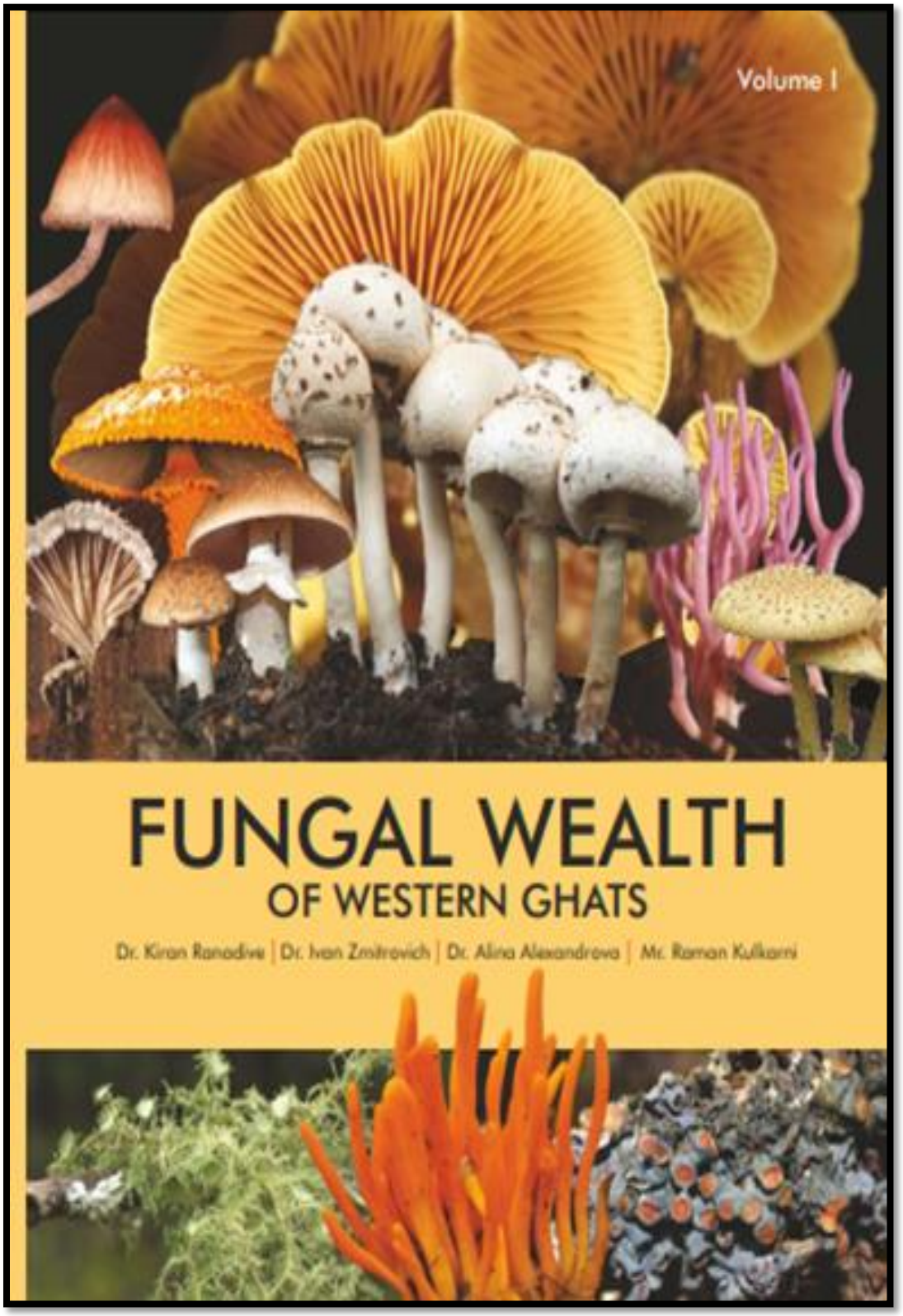
Reference Books Published

Book Name : Burshi Vaibhav

Author Name : Dr. K. R. Randive



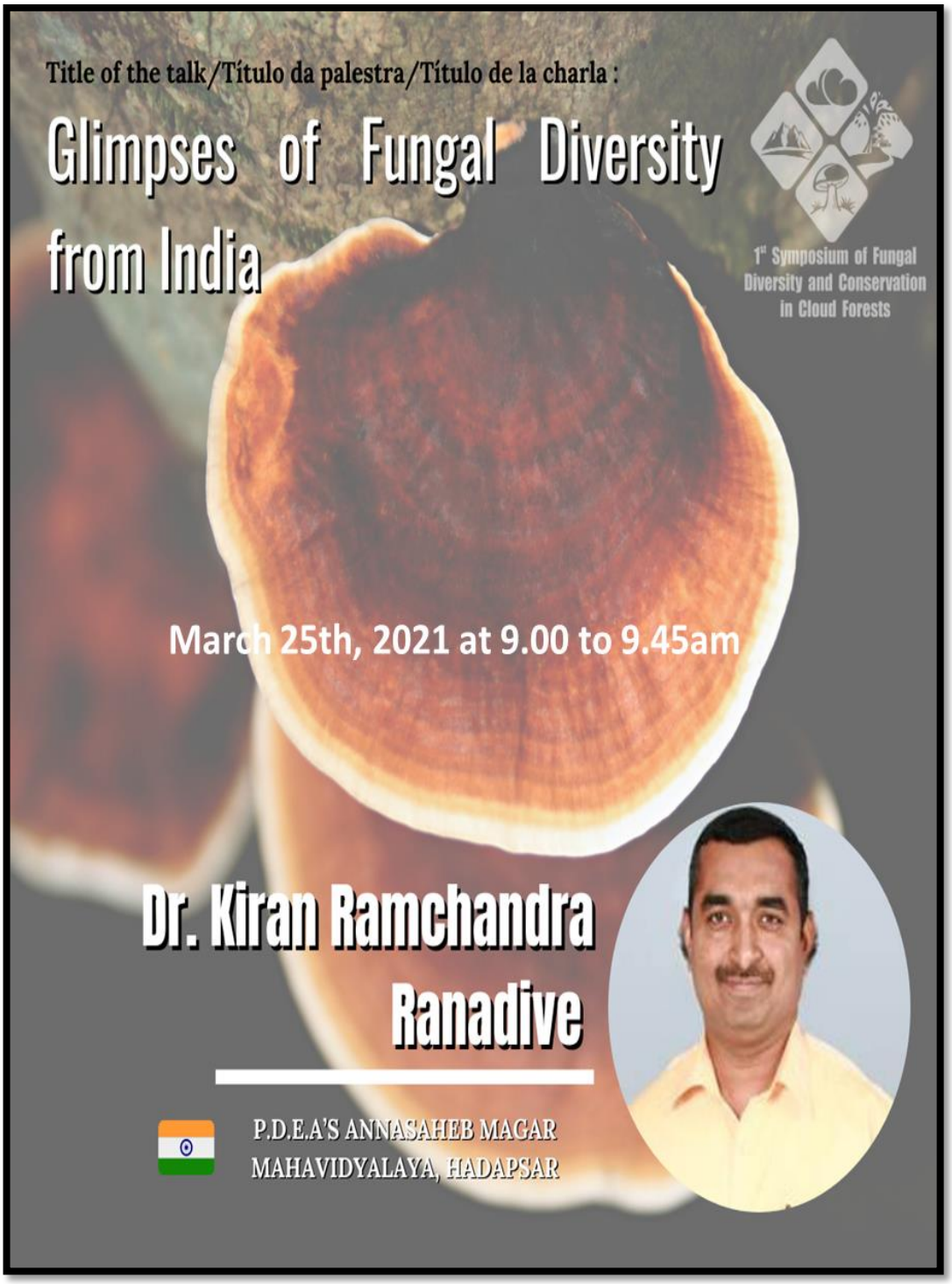
First Field Guide of Western Ghats of India on Fungal Taxonomy



Talk on "**Glimpses of fungal Diversity from India**"

in the

1st Symposium on Fungal Diversity and Conservation in cloud forest-Brazil



News

IUCN Commission Member- Mushrooms, Brackets and Puffballs Specialist Group 2017-2020

Selected as a **Commission member of IUCN SSC** Mushrooms, Brackets and Puffballs Specialist Group 2017-2020 has been confirmed by Hon. Dr. Gregory Mueller for the period 2017-2020.

Now the member of the IUCN Species Survival Commission(SSC).(On 21st Dec 2020) **Has been extended up to 2025**

(Only 03 Indians are on the commission)

बुरशीसाठी 'फंगा' वर्गीकरणाची घोषणा

म. टा. प्रतिनिधी, पुणे

"बुरशीला मिळालेली स्वतंत्र मान्यता हा खूप महत्त्वाचा आणि आश्वासक निर्णय आहे. यामुळे बुरशीच्या संशोधन आणि संवर्धनाला चालना मिळणार आहे. गेल्या काही वर्षांत जंगलतोड, हवामान बदल आणि प्रदूषण, बुरशीनाशकांचा मोठ्या प्रमाणात होणारा वापर यामुळे बुरशीचे अनेक प्रकार धोक्यात आले आहेत. त्यांच्या संवर्धनासाठी स्वतंत्र ओळखीतून निश्चित प्राधान्य मिळेल.

- डॉ. किरण रणदिवे, सदस्य, 'आययूसीएन' बुरशी समिती

सकाळ
पुणे, बुधवार, १९ एप्रिल २०१७
३

पुण्यातील डॉ. रणदिवे यांना 'मार्टिन बेकर संशोधन पुरस्कार'

पुणे, ता. १८ : मायकॉलॉजिकल सोसायटी ऑफ अमेरिका या संस्थेतर्फे दिला जाणारा 'मार्टिन बेकर संशोधन पुरस्कार' पुण्यातील बुरशी अभ्यासक डॉ. किरण रणदिवे यांना जाहीर झाला आहे. डॉ. रणदिवे यांनी भारतात केलेल्या अभ्यासासाठी त्यांना हा पुरस्कार देण्यात येणार आहे.

देशभरातील सुमारे साडेसात हजार प्रकारच्या बुरशीचा अभ्यास करून त्याची निरीक्षणे डॉ. रणदिवे यांनी नोंदविली आहेत. देशभरातून बुरशीसंदर्भात त्यांनी संकलित केलेली माहिती www.fungifromindia.com या संकेतस्थळाद्वारे सर्वांसमोर खुली करण्यात आली आहे. बुरशीशास्त्रावर त्यांनी आत्तापर्यंत केलेल्या संशोधनाची दखल म्हणून आणि त्यांच्या बुरशीच्या संशोधनाला अधिक प्रोत्साहन मिळावे, या उद्देशाने अमेरिकेतील संस्थेने हा पुरस्कार दिला आहे. डॉ. रणदिवे हे या पुरस्काराचे पहिले भारतीय

डॉ. रणदिवे

मानकरी आणि पहिले बुरशी अभ्यासक आहेत. अडीच हजार डॉलर म्हणजेच जवळपास एक लाख ६१ हजार रुपये आणि सन्मानचिन्ह असे या पुरस्काराचे स्वरूप असून, येत्या जुलैमध्ये अमेरिकेत होणाऱ्या परिषदेत त्याचे वितरण केले जाणार आहे. सासवड येथील वाघिरे महाविद्यालयात वनस्पतिशास्त्र विषयाचे सहायक प्राध्यापक म्हणून डॉ. रणदिवे कार्यरत आहेत. साताऱ्यातील गुरेघर येथे वन विभागातर्फे जैवविविधता उद्यान साकारण्यात येत असून, त्याचे सल्लागार म्हणून डॉ. रणदिवे यांनी निवड झाली आहे. त्याशिवाय खरगपूर येथील इंडियन इन्स्टिट्यूट ऑफ टेक्नॉलॉजी (आयआयटी) संस्थेच्या 'नॅशनल डिजिटल लायब्ररी' प्रकल्पावरही त्यांची नियुक्ती केली आहे.

News

Punekar is first Indian to win intl mycology award

Kiran Ranadive conferred with Martin-Baker research grant for his website on various fungi

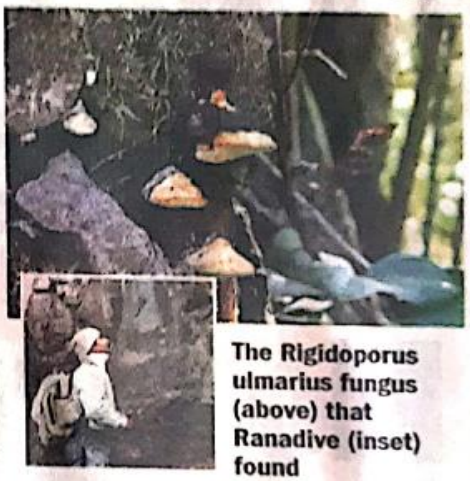
Priyanka.Das
@timesgroup.com
TWEETS @ThePuneMirror

An assistant professor from Pune district is the first Indian recipient of a research award from the Mycological Society of America (MSA), dedicated to the study of fungi of all kinds, including mushrooms, mold, truffles, yeast, lichens, plant pathogens, and medically important specimens.

Kiran Ranadive, assistant professor at the Botany department of Waghire College in Saswad, was instrumental in building the website *fungifromindia.com*, which compiles 7,500 species of fungi found in the country. The website was launched in 2012 by Anjali Roy, a mycologist associated with the department of botany, Visva-Bharati University in Santiniketan.

Peter Kennedy, associate professor at the University of Minnesota and MSA Awards Committee Chair, said, "To my knowledge, Ranadive is the first Indian to receive the award. The committee felt that his application fit well with the spirit of the award, which is to support mycological research for faculty members who conduct significant teachings about mycology in their local community. This award will support his outreach efforts, such as the new book he co-authored — *Fungi and lichens of Mahabaleshwar*."

As part of his research, Ranadive has explored around 15 locations in the district for documentation of wood-rotting fungi. In 2010, he was able to find *Rigidoporus ulmarius*, a fungus which is common to the Himalayan region, in certain spots of the Western Ghats.



The Rigidoporus ulmarius fungus (above) that Ranadive (inset) found

Speaking to *Mirror* and preferring to talk about his work, Ranadive said, "This parasitic fungi feeds on living trees and was earlier documented to have been found only in the Himalayan region. But, they were found at Tamhini, Purandar, Dongarwadi, Bhimashankar and Lohgad. It is possible that they are found in these parts either due to climatic changes or the fact that the trees they usually feed on have diminished and they have thus, changed their source of nutrition."

On what prompted him to compile the thousands of species, he shared, "Students and researchers need to waste a lot of time and scour through resources for referencing purposes alone — accessing all of this information onto a platform makes it easier for those focusing on fungi found in the country."

News

THE TIMES OF INDIA, PUNE
WEDNESDAY, APRIL 19, 2017

Pune researcher gets US award for work on fungi

TIMES NEWS NETWORK

Pune: City-based researcher **Kiran Ranadive** was recently awarded the Martin Baker grant of $2,500 for his work in the field of mycology, the study of fungi. He is the first Indian to be feted by the US-based Mycological Society of America (MSA).

The MSA gave away six awards this year. He received the award for development of the website — Fungifromindia.com — containing a database of all the fungi species in India. "The website contains data of over 7,500 fungi species," Ranadive told **TOI**.

Developed in 2012, the website attracts 1.15 lakh visitors every month, which, Ranadive claimed, is the highest traffic received by any mycology site. Each of the species' page links to the international repository of fungi, mycobank.org, where further details and related foreign species are mentioned.

He said he received a lot of help from senior mycologist and doctor of science (DSc) in mycology late Anjali Roy. "She was 83 years old at the time in 2012. However, out of respect for the field and work, she had flown in from Kolkata to inaugurate the website. She passed away recently," Ranadive said.

Ranadive works as an assistant professor of botany at Waghere College and conducts research on wood-rotting fungi.

He has published three books based on his research. He is currently working on an online project with the Indian Institute of Technology, Kharagpur. Ranadive is also writing two books, which will be published next month.

महाराष्ट्र टाइम्स, पुणे ■ मंगळवार, १८ एप्रिल २०१७

डॉ. किरण रणदिवे यांना 'मार्टिन बेकर' पुरस्कार

म. टा. प्रतिनिधी, पुणे

बुरशीच्या संशोधनाला प्रोत्साहन मिळावे, या उद्देशाने मायकॉलॉजिकल सोसायटी ऑफ अमेरिका या जगप्रसिद्ध शिक्षण संस्थेतर्फे देण्यात येणारा 'मार्टिन बेकर' पुरस्कार यंदा बुरशी अभ्यासक डॉ. किरण रणदिवे यांना जाहीर झाला आहे. या पुरस्काराचे मानकरी ठरलेले रणदिवे हे पहिले बुरशी अभ्यासक ठरले आहेत.

वेगवेगळ्या देशांमध्ये या संदर्भात करणाऱ्या अभ्यासकांना प्रोत्साहन देण्यासाठी संस्थेतर्फे 'मार्टिन बेकर' या पुरस्काराने गौरविण्यात येते. अडीच हजार डॉलर आणि

सन्मानचिन्ह हे पुरस्कारे स्वरूप आहे. यंदा येत्या जुलैमध्ये अमेरिकेत होत असलेल्या परिषदेमध्ये पुरस्काराचे वितरण करण्यात येणार आहे. डॉ. रणदिवे हे सध्या पुणे जिल्हा शिक्षण मंडळाच्या सासवडी येथील वाघिरे कॉलेजमध्ये वनस्पतीशास्त्र विभागात सहायक प्राध्यापक म्हणून कार्यरत आहेत. सावित्रीबाई फुले पुणे विद्यापीठात ते एमफीलचे गाइड आहेत. महाबळेश्वरमध्ये गुरेघरमध्ये वन विभागातर्फे साकारण्यात येणाऱ्या जैवविविधता उद्यानाचे ते सल्लागार आहेत.

लोकमत
न्यूज एज

बुरशी नसते वाईट!

महाराष्ट्र टाइम्स
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निसर्गसंपन्न पुणे जिल्ह्यात बुरशींचा 'खजिना'

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मटा CITIZEN REPORTER

पश्चिम घाटातील बुरशी संपदा शब्दबद्ध

अभ्यासकांना उपयुक्त माहिती उपलब्ध

म. टा. प्रतिनिधी, पुणे

> "बुरशी विषयाची माहिती अधिकाधिक लोकांपर्यंत पोहोचविणे हे देखील संवर्धनाच्या दृष्टीने परिणामकारक पाऊल ठरू शकते. या क्षेत्रात काम करणाऱ्या विद्यार्थ्यांना पुस्तकाचा निश्चितच उपयोग होईल. सध्या पुस्तक इंग्रजीत असून, लवकरच मराठी अनुवाद प्रसिद्ध होणार आहे."
> – डॉ. किरण रणदिवे

'बुरशीचे संवर्धन गरजेचे'

महाराष्ट्र टाइम्स
पुणे PLUS

निसर्गसंपन्न पुणे जिल्ह्यात बुरशींचा 'खजिना'

माझे पुणे

नेचरवॉक


रिजिडोपोरस

> – प्रा. डॉ. किरण रणदिवे

ⓢ संपादकीय

Dalai Lama
@DalaiLama

If human society loses the value of justice, compassion, and honesty, the next generation will face greater difficulties and more suffering.

सकाळ
पुणे, शनिवार, २० मे २०१७
६

अतिथी संपादकीय

डॉ. किरण रणदिवे (बुरशीशास्त्राचे तज्ज्ञ)

दुष्काळाचं सावट दूर करण्यासाठी...

दुष्काळ म्हटलं की आपल्या मनात काहूर माजतं, अन् आपण विविध दिशांना स्पर्शून विचारविनिमय करू लागतो. मग दुष्काळ हटविण्यासाठी काय करता येईल, जलयुक्त शिवार योजना, पीक घेण्याच्या पद्धतीत बदल, आधुनिक तंत्रज्ञानाचा वापर अशा विविध विषयांवर चर्चा होते. दुष्काळी परिस्थितीतून मार्ग काढण्यासाठी वृक्षारोपण मोहिमेवरही भर दिला जातो. परंतु, सर्वांच्याच दृष्टिआड असणारी बुरशी देखील दुष्काळ हटविण्यासाठी उपयुक्त ठरते, याबाबत समाजात अद्यापही अनभिज्ञता असल्याचे दिसते. होय, निसर्गसृष्टीतील अत्यंत दुर्लक्षित घटक असणारी बुरशी दुष्काळावर मात करण्यात मोलाची भूमिका बजावू शकते.

पर्यावरणात बुरशीचे अनन्यसाधारण स्थान असून, काही बुरशींमुळे दुष्काळ हटविण्यासाठीही मदत होऊ शकते. काही प्रकारच्या बुरशी पाणी धरून ठेवतात आणि भूजलाची पातळी वाढविण्यास हातभार लावतात. 'अर्मिलारिया बल्बोसा' ही बुरशीची प्रजाती ३० एकर क्षेत्रावर पसरते आणि पाणी धरून ठेवण्यास मदत करते. या प्रकारच्या बुरशीच्या प्रजाती दुष्काळी भागात वाढवल्या, तर भूजल पातळी वाढू शकते. झाडांच्या मुळांना बुरशींच्या जाळ्यासारख्या कवकतंतूंद्वारे पाणी मिळू शकते. इतकेच नव्हे तर पिकांची जोमदार वाढ होण्यासही मदत होते. काही बुरशीचे कवकतंतू झाडांना पोषक द्रव्ये पुरवतात.

दुष्काळाच्या समस्येचा विचार केल्यास आपण त्याच्या आरंभ बिंदूपाशी येऊन पोचतो आणि तो म्हणजे निसर्ग. निसर्गाने सर्व गोष्टी मुक्त हस्ते दिल्या असल्या, तरी त्या सांभाळण्याची आपली कुवत काही अंशी कमी झाल्याचं मान्य करायला हरकत नाही. याचं कारण म्हणजे आपण निसर्गाला गृहीत धरत आहोत. उन्हाळ्यात अनेकदा गवत किंवा डोंगरात आग लावली जाते, त्यामुळं तेथील निसर्गचक्र बिघडतं आणि यातून बरेच जीव नामशेष होण्याचा धोका निर्माण होतो. या सगळ्यात प्रामुख्याने बळी जातो तो नवीन रुजणाऱ्या बियांना आणि त्यांचे रक्षण करणाऱ्या बुरशींचा. बहुतांश वनस्पतींच्या मुळाशी बऱ्याचदा उपयोगी बुरशींचं कवकजाल असते आणि ते वनस्पतींना बऱ्याच रोगांपासून वाचवते. या वनस्पती पेटवून दिल्यामुळं त्यांच्या मुळाशी असणाऱ्या बुरशी आणि इतर उपयुक्त सूक्ष्मजीवही जळून जातात.

वनस्पतींची राख जमिनीत मिसळल्यावर जमीन जास्त सुपीक होत असली तरी हे कृत्य बऱ्याच अंशी घातक ठरत आहे. हल्ली संपूर्ण महाराष्ट्रात ६० ते ७५ टक्के डोंगर हे जाळलेले दिसतात, ही शोकांतिका म्हणावी लागेल. या कृत्याचा दुसरा मोठा तोटा म्हणजे वनस्पती किंवा गवताळ रान जाळल्याने वाऱ्याबरोबर जमिनीची होणारी प्रचंड धूप सुपीकता कमी करते. गवताची आणि इतर वनस्पतींची मुळं जमिनीची पकड घेऊन मातीची धूप थांबविण्यात मोलाची भर घालतात. काही गवताच्या प्रजातींमध्ये तर मागील वर्षीच्या वाळलेल्या गवतातूनच नवं अंकुर फुटतात. हे गवत किंवा वनस्पती जाळल्यामुळं जमिनीमधील भूजल पातळीही दिवसेंदिवस खालावत आहे. या सर्व गोष्टी आपल्या आवाक्यातील असताना, काही खुळचट कल्पनांमुळे आपण निसर्गाची मोठी हानी करत आहोत. तेव्हा आपण वेळीच सावध व्हावं आणि अशा गोष्टींना प्रतिबंध करण्यासाठी कायदे कडक करण्याची गरज आहे. बुरशीशास्त्राचा अधिकाधिक अभ्यास झाल्यास दुष्काळाचं सावट दूर करता येईल, यात शंका नाही.

तसे पाहिले तर बुरशीशास्त्राचा आवाका प्रचंड मोठा आहे. बुरशींची विलक्षण संख्या आणि प्रत्येक बुरशीच्या जीवनचक्रामध्ये माणसासाठी उपयुक्त असणारी रसायनं हे सर्व खरं असलं तरीही संपूर्ण जगभरात माहिती असलेल्या बुरशी किंवा नामकरण केलेल्या बुरशी फक्त २० टक्के आहेत. डॉ. पॉल कर्क आणि इतर लेखकांनी लिहिलेली बुरशींची डिक्शनरी म्हणजे सर्वांत महत्त्वाचा बुरशीग्रंथ आहे. त्यात नमूद केल्याप्रमाणे २००८पर्यंत एकूण बुरशींपैकी जगाला केवळ २० टक्केच माहिती आहेत. 'इंटरनॅशनल युनियन फॉर कॉन्झर्व्हेशन ऑफ नेचर'च्या (आययूसीएन) सर्वेक्षणानुसार जगभरात वीस हजार बुरशी जाती-प्रजाती अतिधोक्याच्या यादीत समाविष्ट आहेत. जगाच्या तुलनेत भारतात दुर्दैवानं याबाबतीत काहीही डॉक्युमेंटेशन झालेले नाही. भारतात नक्की किती बुरशींची नोंद आहे, याबाबत ठोस आकडेवारी उपलब्ध नसल्याने नक्की किती जातीच्या बुरशी धोक्यात आहेत, हे सांगणं कठीण आहे. त्यामुळे या सर्व सजीवांकडे यापुढे जास्त लक्ष देण्याची गरज आहे. देशातील प्रत्येक विद्यापीठात बुरशीशास्त्र विषयावर संशोधन करणाऱ्यांना प्रोत्साहन देणं किंवा संशोधनासाठी सहकार्य करण्याकरिता केंद्र सरकारने योजना सुरू करणे आवश्यक आहे.

सकाळ
५

बुरशीत नेमकं दडलंय काय?

लाकूड कुजविणं, दगड फोडण्याबरोबरच आजारांवरील उपचारांचे रहस्य

[illegible]

गरज गुणकारी बुरशीच्या संवर्धनाची

शिक्षण

बुरशींची माहिती एका 'क्लिक'वर

प्राध्यापकाने विकसित केली सात हजार ५२८ बुरशींची माहिती देणारी पहिली वेबसाइट

Mustafa.Attar

परजीवी बुरशी

- डॉ. किरण रणदिवे,

डॉ. किरण रणदिवे यांना 'मार्टिन बेकर' पुरस्कार

म. टा. प्रतिनिधी, पुणे

बुरशीच्या संशोधनाला प्रोत्साहन मिळावे, या उद्देशाने मायकॉलॉजिकल सोसायटी ऑफ अमेरिका या जगप्रसिद्ध शिक्षण संस्थेतर्फे देण्यात येणारा 'मार्टिन बेकर' पुरस्कार यंदा बुरशी अभ्यासक डॉ. किरण रणदिवे यांना जाहीर झाला आहे. या पुरस्काराचे मानकरी ठरलेले रणदिवे हे पहिले बुरशी अभ्यासक ठरले आहेत.

वेगवेगळ्या देशांमध्ये या संदर्भात करणाऱ्या अभ्यासकांना प्रोत्साहन देण्यासाठी संस्थेतर्फे 'मार्टिन बेकर' या पुरस्काराने गौरविण्यात येते. अडीच हजार डॉलर आणि

सन्मानचिन्ह हे पुरस्कारे स्वरूप आहे. यंदा येत्या जुलैमध्ये अमेरिकेत होत असलेल्या परिषदेमध्ये पुरस्काराचे वितरण करण्यात येणार आहे. डॉ. रणदिवे हे सध्या पुणे जिल्हा शिक्षण मंडळाच्या सासवडी येथील वाघिरे कॉलेजमध्ये वनस्पतीशास्त्र विभागात सहायक प्राध्यापक म्हणून कार्यरत आहेत. सावित्रीबाई फुले पुणे विद्यापीठात ते एमफीलचे गाइड आहेत. महाबळेश्वरमध्ये गुरेघरमध्ये वन विभागातर्फे साकारण्यात येणाऱ्या जैवविविधता उद्यानाचे ते सल्लागार आहेत.

'फ्लाइंग मोल्ड'चे रहस्य उलगडणार

म. टा. प्रतिनिधी, पुणे

पश्चिम महाराष्ट्रामध्ये आढळणाऱ्या 'फ्लाइंग मोल्ड' अर्थात मिक्झोमायसिसस्ट ही दुर्मिळ बुरशी पुस्तक रुपाने वाचकांच्या भेटीला येणार आहे. अनोखी जीवनसाखळी असलेल्या या बुरशीचे निसर्गचक्रातील महत्त्व, तिचा अधिवास आणि गेल्या काही वर्षात विविध कारणांमुळे या बुरशीच्या अस्तित्वावर ओढवलेल्या संकटांचा आढावा या पुस्तकात घेण्यात आला आहे. या बुरशीवर पहिल्यांदा पुस्तक प्रकाशित होते आहे.

'निसर्गचक्रात सर्वांत महत्त्वाची भूमिका बजावणाऱ्या बुरशीचे महाराष्ट्रात संशोधन फार मर्यादित पातळीवर झाले आहे. पर्यायाने डॉक्युमेंटेशनमध्ये आपण मागे आहोत. 'फ्लोरा ऑफ द मॅक्सोमायसिसिस्ट फंग फ्रॉम वेस्टर्न महाराष्ट्र' या पुस्तकाच्या निमित्ताने आम्ही फ्लाइंग मोल्ड या बुरशीची सविस्तर माहिती निसर्गप्रेमींना मिळणार आहे,' अशी माहिती पुस्तकाचे लेखक डॉ. किरण आर. रणदिवे यांनी सांगितले. बुरशीचे ज्येष्ठ अभ्यासक व्ही. आर. रानडे आणि रणदिवे यांनी हे पुस्तक लिहिले आहे. येत्या १९ जुलैला दिल्लीतील डिपार्टमेंट ऑफ बायोटेक्नॉलॉजीचे वरिष्ठ सल्लागार डॉ. एस. नतेरा यांच्या हस्ते लोकमान्य नगर येथील प्रशांत सभागृहामध्ये होणार आहे.

बुरशीचे अस्तित्व धोक्यात

निसर्गसाखळीत बुरशीला सर्वाधिक महत्त्व आहे. जंगलात, गवताळ प्रदेशात आज ज्या वनस्पती वाचलेल्या आहेत, त्यांच्या जगण्याला बुरशीचा आधार आहे. वनस्पतींच्या बिया मातीमध्ये पडल्यानंतर आर्द्रतेतून येणाऱ्या बुरशीच्या कवचामुळे त्यांचे संरक्षण होते. पावसाळ्यात या बिया जमिनीत रूजतात आणि नवीन रोपे येतात. मात्र अलीकडे शेतकरी किंवा ग्रामस्थ माळराने, डोंगरांवर वणवे लावत असल्याने बुरशीचे निर्मिती प्रक्रिया कोलमडली आहे. परिणामी तेथील जैवविविधता संपुष्टात येते आहे, असे रणदिवे यांनी सांगितले.

'फ्लाइंग मोल्ड या बुरशीमध्ये अनेक प्रकार असून आम्ही त्यातील ८३ प्रकारांचा या पुस्तकात समावेश केला आहे. ही बुरशी दुर्मिळ असून ८० टक्के आर्द्रता असेल तरच त्या येतात. आतापर्यंत त्यांचा फारसा अभ्यास झाला नव्हता. यात काही नव्याने शोध लागलेल्या बुरशींचाही समावेश आहे. या बुरशीची जीवनसाखळी अनोखी आहे. या बुरशीचे बिजाणू फेकले जातात, त्या वेळी त्यातून अमिबा बाहेर येतात. बीजाणू पडलेल्या ठिकाणी अमिबा तयार होतात. यातील एक अमिबा केमिकल करतो, त्यानंतर सगळे अमिबा त्याच्या दिशेला चालत जातात आणि दाटीवाटीने थांबतात. बुरशी तयार होण्याची ही प्रक्रिया बघण्यासारखी असते. आर्द्रता कमी होत असल्याने या बुरशीचे अस्तित्व धोक्यात आले आहे,' असे रणदिवे यांनी सांगितले.

सिंहगडावर एक हजार बुरशींचे प्रकार

'पश्चिम घाटामध्ये बुरशींचे वैविध्य विपुल आहे. एकट्या सिंहगडाच्या वन क्षेत्रात एक हजारांहून अधिक बुरशींचे प्रकार आढळतात. यातील बहुसंख्य बुरशींचा वापर औषध निर्मितीसाठी केला जातो. पुणे विद्यापीठातील जे. जी वैद्य, डॉ. सचिन पुणेकर आणि मी चार वर्षांपूर्वी सिंहगड वन क्षेत्रातील बुरशींचा अभ्यास केला होता. या परिसरामध्ये कोरडे हवामान आणि आर्द्रता यांचा समतोल साधला जात असल्याने बुरशींच्या निर्मितीसाठी उत्तम परिसर आहे. यशिवाय गडावरील लोकप्रिय देवटाक्यातील चविष्ट पाण्यामागेही हेच रहस्य दडलेले आहे. देवटाक्यामध्ये शेवाळे आणि बुरशीमार्फत होणाऱ्या नैसर्गिक प्रक्रियेमुळे तेथील पाणी गोडसर लागते,' असे रणदिवे म्हणाले.

बुरशीचे विश्व शब्दरूपात

महाबळेश्वर येथील ७६ बुरशी, दगडफुलांच्या प्रजातींची माहिती

पुणे, ता. २८ : महाराष्ट्राचे नंदनवन समजल्या जाणाऱ्या... अन् सह्याद्रीच्या कुशीत वसलेल्या 'महाबळेश्वर'मध्ये आढळणाऱ्या विविध प्रकारच्या बुरशी आणि दगडफुलांचे अनोखे विश्व आता शब्दरूपात उलगडले आहे. बुरशीतज्ज्ञ डॉ. किरण रणदिवे यांनी 'फंगी अँण्ड लायकेन्स ऑफ महाबळेश्वर' या पुस्तकाद्वारे हे विश्व जगासमोर आणले आहे. या पुस्तकाचे प्रकाशन वनमंत्री सुधीर मुनगंटीवार यांच्या हस्ते झाले.

महाबळेश्वर येथील ७६ बुरशी आणि दगडफुलांच्या प्रजातींची माहिती या पुस्तकात शब्दबद्ध करण्यात आली आहे. बुरशी हा निसर्गातील अतिशय महत्त्वाचा, पण कायम दुर्लक्षित राहिलेला घटक. पण निसर्ग आणि पर्यावरण खऱ्या अर्थाने समजून घ्यायचे असेल, तर बुरशीबद्दल जागून घ्यावेच लागेल, असे डॉ. रणदिवे सांगतात.

ते म्हणाले, "महाबळेश्वर परिसरातील जंगलात फिरताना नकळत झाडांच्या खोडावरील, जमिनीवरील किंवा दगडांवरील बुरशीकडे नजर जाते. काही बुरशी लक्ष वेधून घेणाऱ्या आहेत. जमीन फोडून बाहेर येणारी भुईकोड (कॅलव्हॅशिया) ही बुरशी त्यातील महत्त्वपूर्ण म्हणावी लागेल. मशरूमचे वेगवेगळे प्रकारही येथे आढळतात."

जमिनीवर पाच पाकळ्या आणि त्याच्यामधोमध गोलाकार गड्डू आणि त्या गड्डूत बीजाणूंची भुकटी असा 'जमिनीवरचा तारा' (म्हणजेच अर्थ स्टार फंगस) ही देखील महाबळेश्वरमध्ये आढळणारी बुरशी वैशिष्ट्यपूर्ण म्हणावी लागेल. या बुरशीतील बीजाणूंची भुकटी जखमा लवकर भरून येण्यासाठी वापरली जाते, असेही त्यांनी सांगितले.

महाबळेश्वर परिसरात 'हायमेनूकिटी' ही बुरशी आणि अनेक प्रकारची दगडफुले आढळून येतात. यातील बहुतांश दगडफुलांचा वापर सुगंधी द्रव्ये, औषध निर्मितीसाठी केला जातो. महागड्या अत्तरांत वापरण्यात येणारी 'उसनिया कॉप्लॉनाटा', रोगप्रतिकारशक्ती वाढविण्यासाठी आणि कर्करोगावरील उपचारासाठी महत्त्वपूर्ण असणारी 'गॅनो डरमा चाल्सिवम' देखील याच भागात दिसून येते.
– डॉ. किरण रणदिवे, बुरशीतज्ज्ञ

New book brings unique fungi to life

The Myxomycota group has been documented in detail; authors hope this will be a stepping stone towards more research

Mayuri.Phadnis
@timesgroup.com
TWEET @ThePuneMirror

A book documenting around 81 species of rare and neglected fungi is set to be released on July 19. Its main focus will be on the Myxomycota group, which are said to have unique lifecycles. Experts say the book will provide a base for further research in basic life sciences.

"Myxomycetes are a universally distributed group of organisms and are abundant in this part of the country. However, despite this, there has been little systematic done on them in the state. The present investigation deals with Myxomycetes occurring mainly in the western parts of Maharashtra. They were collected on various substrata such as dead leaves, wood, bark, dung, etc, mainly during the monsoon and immediately after. In the present project, 23 genera and 81 species are being described. Of the total number collected and described, six are new taxa (one or more populations of an organism or organisms seen by taxonomists), some are new records for India and many are new reports from Maharashtra," said Dr Kiran Randive, assistant professor of botany at Waghire College, Saswad. Randive has authored the book, along with Dr V D Ranade, former associate professor and head of the botany department at Abasaheb Garware College.

The authors claim that this is the first book on Myxomycetean Fungi from Maharashtra which gives details of more than 81 species and shows new taxa from the same group. Highlighting some interesting aspects covered in the book, Randive also explained that Myxomycetes are ubiquitous and occur wherever the conditions promote the growth of vegetation. However, some of them, such as Physarum nicaraguense and P javanicum, appear to be confined to tropics or temperate zones.

Over 81 species of rare fungi will be seen in the book, to be released July 19.

"The main speciality of this group of fungi is that it is similar in terms of structure, movement and nutrition to amoeba when it is growing and like fungi (flora) when it comes to the reproductive stage. When I started working on this, back in 1973, there were only seven or eight species reported from this area. It was a neglected field. We feel that researchers can use this as a base book to conduct further researches in the field. Fungi are an important part of the ecosystem and sometimes also act as a biocontrol measure for harmful bacteria even if on a limited scale," said Ranade.

Dr S Natesh, senior advisoe at the department of biotechnology in New Delhi, feels it is a very welcome step in the field. "This is the first book on indigenous Myxomycetean fungi from western Maharashtra. While there has been some work done in this field globally, we also need extensive work on local flora and fauna. The book is a welcome step in literature on fungi since we need our own resources (in the form of information) from our own backyard," he said.

Biodiversity Conservation Photographs

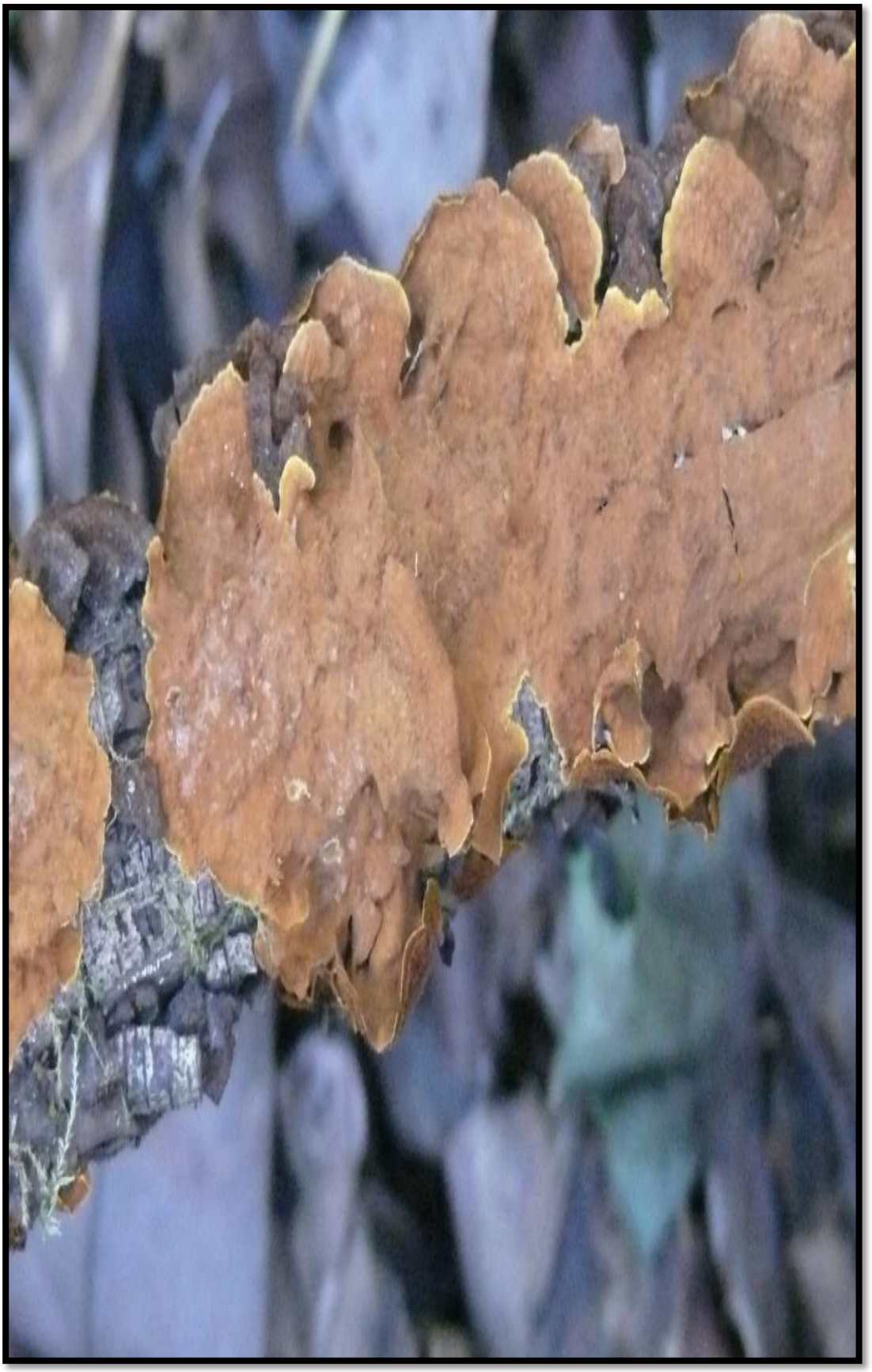
Lenzites

Xylaria

Phellinus

Arthothelium

Hymenochaete



Rigidoporus

Macrolepiota

Biodiversity Activity

Guest Lecture Notice

NOTICE

PDEA's
Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028
Biodiversity Club
2018-19

All students of F. Y., S. Y., T. Y., B. Sc., B. A., B. Com, M.Sc., M. A., M. Com. Part-I& II are here by informed that there is Guest Lecture by Dr. Patwardhan Ankur, Vice-Principal & Head, Department of Biodiversity, Abasaheb Garware College, Pune, has been arranged on 14/12/2018.

Venue	:	Shri. Shivaji Hall
Time	:	9.30 am to 10.30 am
Date	:	14/12/2018

Biodiversity Club Coordinator
(Dr. Randive K. R.)

Principal
PRINCIPAL
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411028.

Invitation Letter

Pune District Education Association's

ANNASAHEB MAGAR MAHAVIDYALAYA

Hadapsar, Pune - 411 028 ✆ 020 - 2699 0376 Fax. : 020 - 2699 0353

E-mail : plasma_amm@yahoo.co.in • Website : www.amc.pdeapune.org

Affiliated to Savitribai Phule Pune University • Id No. : PU/PN/ASC/029/1971 • Jr.Coll.No. 11.15.005 (Mah.)

• Re-Accrediated by NAAC at 'A' Grade • Best College Award by Savitribai Phule Pune University

Outward No. : AMMH / 1065 / 2018-19 Date : 13/12/2018

Date: 12/12/2018

To,
Hon. Dr. Ankur Patwardhan,
Vice. Principal & Head
Biodiversity Department
A. G. College
Pune-411004

Sub: Invitation for guest lecture on 14/12/2018

Respected sir,

P.D.E.A.'s Annasaheb Magar Mahavidyalaya is one of the reputed college's in Hadapsar, Pune. Sir our college has started the Biodiversity Club in 2018. Sir we got to know your expertise in the conservation of the biodiversity. Sir we kindly request you to share your views about conservation aspects for our students so that they can start the actual work in this direction. Sir I hope that your lecture will definitely inspire them for the same. Looking forward for your gracious presence.

Thanking you

Yours sincerely

Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411 028

Invitation Letter

Pune District Education Association's

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Outward No. : AMMH/ 2018-19/1066 Date : 13/12/2018

To,

Hon. Dr. Ankur Patwardhan,
Vice-Principal & Head,
Department of Biodiversity,
Abasaheb Garware College,
Pune-411004

Sub: Guest Lecture

Respected sir,

Thank you very much for accepting our invitation as a guest lecture to deliver a lecture for Science, Arts & Commerce at UG & PG level students on topic "Biodiversity & its Conservation "It was a great privilege and opportunity for us to have your expertise on the topic. We are indebted to you for inspiring with your knowledge and information and look forward for such generosity from you in future as well.

Thanking you,

Biodiversity Club Coordinator
(Dr. Randive K. R.)

Principal
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411028.

Recvd

Attendance

115 - Girls
55 - Boys
170 = Total

PDEA'S

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune 28

Department of Botany

Biodiversity Club

Guest Lecture 14/12/2018

Student Attendance

Sr. No.	Name of Student	Class	Sign
1)	Salve Rohit Rajendra	F.Y. BSc	
2)	Supekar pavan Sunil	F.Y. BSc	
3)	Patil Viky Sunil	F.Y. BSC	
4)	Gajbhare Asmita Arjun	F.Y. BSc	
5)	shinde madhuri B	F.Y. BSc	
6)	memane snehal	F.Y. BSC	
7)	Lonkar Chaitali Baban	F.Y. BSc	
8)	Jagtap Tanvi Chandrakant	F.Y BSc	
9)	Sudrik Aishwarya Anil	F.Y BSc	
10)	Kamthe Ishwari Somnath	—	
11)	Jadhavi Avinash Borkar	—	
12)	Harshada Sandeep ghule	—	
13)	Aishwarya Jaywantrao Magar	—	
14)	Mane Aniket Mahadev	—	
15)	Jawalkar Akash Anil.	—	
16)	Undire Rushikesh	—	
17)	Jagtap Mangesh.	—	
18)	Sanket Mohetre	—	
19)	sutar Akshay	S.Y. BSC	
20)	Jadhav Suraj shivaji	S.Y. BSC (compsci)	
21)	Shaikh Saheb Suleman	S.Y BSC (B)	
22)	Kakane Adesh Kapil	SY BSc (comp. sci)	
23)	Sodmise Prasad Shankar	SY. BSC (CS)	
24)	Kapase Indrajit Jalindar	SY. BSC (CS)	
25)	Margane Pradeep sudhakar	FYBSC	

Attendance

Sr. No.	Name of Student	Class	Sign
26)	Shitole Mahesh vishwas	FY BSc	
27)	Mali Vishal Vijay	-11-	
28)	Chavan Shivaji Kashinath	-11-	
29)	shinde Prajwal Kalyram	FYBSC	
30)	Kshirsagar Abhishek Maruti	F.Y.BSC.	
31)	Tushar Lonari Jitend	F.Y.BSC.	
32)	Kadam Omkar Kishor	F.Y.BSC	
33)	Jambhale Navnath	F.Y.B.Sc	
34)	kale sahil Ramesh	S.Y BSc	
35)	Dhurwal Shreyas Rajendra	SY BSc	
36)	Kalbhor prathik vaman	S.Y BSc	
37)	[illegible]	SYBSC	
38)	Khaladkar Karan Vitthal	SYBSc	
39)	Sonawale Dhananjay Mahadev	SYBSc	
40)	Patil Avishkar Ramrao	SYBSC	
41)	Satav Vinayak Raju	S.Y.BSc	
42)	Asawale Akshay Kalu	FY. BSc	
43)	Akash ankush ghavankar	S.Y.bsc.	
44)	Prathamesh [redacted] Bosawke	S.Y.bsc	
45)	Paliparitosh Maruti Mahamuni	SY BSc	
46)	Nagde Kuldeep Balaji	SYBSC	
47)	Shubham K. Bandge	T.Y. B.A.	
48)	Akhade Vikas	-11-	
49)	More Suyog Rajendra	SY BSc.	
50)	Choudhari Sidharth Dilip	-11-	
51)	Girme Kunal Vikas	-11-	
52)	Bhosale omkar Vijay	-11-	
53)	Prashant Chavan	T.Y.B.A	
54)	Kasande Kashinath Suresh	SYBSC.	
55)	Kamble Siddhant Sudhir	SYBSc	S. Kamble
56)	Shetty Purandar Pushparaj	SYBSC	
57)	mite mahesh sudarshan	SYBSc	
58)	Nikte Mahesh Balaji	SYBSC	

Attendance

Sr. No.	Name of Student	Class	Sign
59	Parkale Akshay Ramesh	SYBSc	parkale
60	Navale Pranav shankar	SYBSc	Navale
61	More Nikita Nitin	SYBSc	More
62	Shewale Vaishnavi Vilas	SY BSC	Shewale
63	Jagtap Ankita Kishor	SY BSC	Ankita
64	VIEKar seema Bhagwan	SYBSC	Seema
65	Kamthe Pratik Dnyaneshwar	SY BSC	P. D. Kamthe
66	Satav Apeksha Gajanan	SY BSC	Satav
67	Shaikh Almas naushad	SYBSC	Almas
68	Kamble Vishakha Ashok	S.Y.B.Sc	Kamble
69	Twinkle Habib	S.Y.Bsc	Habib Tw.
70	shinde sachin S.	SY BCS	Shinde
71	Joshi omkar deepak	SY.BCS	Joshi
72	Kadav Yogesh vilas	SYBCS	Yogesh
73	Jawalkar Shubhangi Deepak	SYBSc	Jawalkar
74	Indalkar Sakshi pandit	SYBSC	Indalkar
75	Kasar Mansi Sandip	SYBSc	Mansi
76	More Sonali Dattatray	SYBSc	Sonali
77	Jagtap Pratiksha Arun	F.YBSC	Jagtap
78	Kadam Aishwarya Uttam	SYBSC	Aishwarya
79	Shitole Taniya Sunil	FY.BSC	Taniya
80	kute Rutuja suresh	F.Y.BSC	R. kute
81	Dabholde Puja Santosh	FY.BSC	Puja
82	Shewale Sanskruti Rajesh	F.YBSc	Sanskruti
83	Rupnar Shruti haraman	F.YBSc	Shruti
84	Shinde Anuja Aswing	FYBSc	Anuja
85	Shewale Gayatri Tanaji	FYBSc	Gayatri
86	Jawalkar Aditi	FYBSc	Aditi
87	Jawalkar Pragati	FYBSc	Pragati
88	Shirsakar Sanjana	FYBSc	Sanjana
89	Sonone Bhawana	FYBSc	Bhawana
90	Yadav Shilpa Ravishankar	—	Shilpa
91	Supekar Vaishnavi Jitendra	—	Vaishnavi

Attendance

Sr. No.	Name of Student	Class	Sign
92.	Shaikh Sana Akbar	FYBSc.	Sana.
93.	Nadu Komal Shahaji	-11-	Komal
94.	Gade Anjali Shivaji	-11-	Gade.
95	Jadhav Bhagyashri Sahebrao	-11-	Jadhav.
96	Javalkar Pooja Baleserheb.	-11-	Javalkar
97	Shinde Vaishnavi Shivaji	SybCS	Vaishnavi
98	Sharma manisha sunil	SybCS	M.sharma
99	Jawale Meenali Gautam	-11-	Mjawale
100	Aasavari Shirish Jagtap	-11-	Aasavari
101	Amruta Popat khedkar	SYBCS (B)	Akhedkar
102	POOJA S. Joshi	SYBCS(B)	PJoshi
103	Saniya Akbar Sayyed	SYBCS(B)	SAsayyed
104	Vakle Priyanka B	SYBCS(B)	Bakle
105	Ankush Aparna Ananda	SYBSC (A)	
106	Takawale Pradnya Arvind	SYBSc	
107	Rakh Bhagyashree M.	SYBSC	Bhagyk
108.	Lende Snehal Bau.	S.Y.BSC.	Snehal.
109	Shissat Swati Chhabu	T.Y. B.A.	Swat
110	Ahire Priyadarshani Kishor	SYBCS(B)	Ahire
111	Babar Pooja Vijay	SYBCS(B)	Pooja.
112	Sharma Shruti Pradip	SYBCS B	Shruti
113	Barkade Pranali Sharad	SYBCS B	Pbarkade
114	Band Rutuja Vyenkat	SYBCS B	Rutuja.
115	Shinde Ankita Arvind	SYBCS B	Shinde
116	Chandanshive Nikita Rajendra	TYBA	Nchandanshive
117	Ghadage manisha Tukaram	T.Y.B.A	Ghadage
118	Javalkar Harshada Bhikaji	TYBA	Javalkar
119	Tungare Chattali Madhav	TY BA	Tungare
120	Bhanage pratiksha B.	FYBSc	Bhanage
121	Shitole Pramali Sunil	-11-	Shitole
122	Maurya Pooja Basant Lal	FyBSc	Pooja
123	Shitole shital Yashavant	-11-	Shital
124.	mane mayuri laxman.	F.Y.BSC	Mmane

125.	Devkar Nikita Anna.	S.YBSc	Nikita
126.	Bagade komal Suresh	F.Y.BSc	Kbagade
127.	Chavan Nikita Mahadev	F.Y.BSc.	

Attendance

	Adsal Megha		Adsal
	Bankar Manali		Bankar
132)	Morankar Uma Bhau	F.Y.B.Sc.	Uma
133)	Shinde Pratiksha Nitin	F.Y.B.Sc.	Pratiksha
134)	Shreya Prakash Khrirde	F.Y.BSc	Skharde
135)	Komal Milind Chavan	F.Y.B.Sc	Kchavan
136)	Kajal Kishor Gaikwad	F.Y.B.Sc.	K.K Gaikwad
137)	Kamble Ruteja Sunil.	F.Y.BSC	Kamble
138)	Pachange Madhuri Subhash.	F.Y.BSC	Padhuri
139)	Raut Radha Chandrasen	F.Y.BSC	Raut
140)	Naware Priti Vitthal	F.Y.BSC	Pnavale
141)	Jadhav Shubhangi Bhagwan.	F.Y.B.Sc	Jadhav
142)	Gaikwad Nisha Vilas	F.Y.BSC	Nisha
143)	Latkar Akshada Dnyaneshwar	F.Y.BSC	Latkar
17)	Awate Kajal Kailas	F.Y.BSC	K.Awate
18)	Dhatre Reshma Sonaba	F.Y.BSC	Dhatre
19)	Dange Namrata Dattatraya	F.Y.BSC.	N.Namrata
20)	Wadkar Shradha Sanjay	SY BCS	Shradha
21)	Kale Saloni Ramdas	SY BCS	Sskale
22)	Jadhav Tejaswini Rajendra	SYBCS	TJadhav
23)	Kedari Shivani Suresh	S.Y.B.Sc	Skedari
24)	Waware Shwetlana Hanumant	S.Y.B.Sc	Shwaware
25)	Suryawanshi Shweta S.	S.Y.B.Sc	Shweta
26)	Memane Rutuja Kailas	S.Y.BSC	Rutuja
27)	Kadam Tejaswini Ramdas	SY.BSC	Tejaswini
28)	Bansode Pooja Ajinath	FY.BSC	Bansode
29)	Lagad Sneha Mohan	FY.BSC	Lagad
30)	Gupta Priyanka Rambabu	FY.BSC	Gupta
31)	Hipparkar Pooja Raghunath	FY.BSC	PHipparkar
32)	Ladkat Monali Prakash	FY.BSC	MLadkat
33)	Motilal Mayuri Anand	F.Y.BSC	Mayuri

Sutar Shraddha Vijay	Sutar S.V.	F.Y. BSC (B)
Lokhande Sujata Raghunath	SR. lokhande	F.Y.BSC (B)
Dhomase Swamini Rajendra.	Dhomase	F.Y.B.Sc (B)
Gehlot Varsha Ogaram	Nehagehlot	F.Y.B.Sc (B)
Shivankar Mahima Laxman	MLS	F.Y.B.Sc (B)
Choudhari Mrunal Pandit	MChaudhari	FYBSC (B)
Bansode Poonam Ashok	Bansode	—‖— (B)
Jagtap Vaishnavi Dattatray	Jagtap	—‖— (B)

Notice

PDEA's Annasaheb Magar Mahavidyalaya

C 2 – Guest Lecture / Activity Audit Report Year___2018-19_____

Department of Botany

Date : 14/12/2018

1. Title of Lecture: Biodiversity And Its Conservation
2. Occasion: Diversity club activity lecture
3. Names of the guest Lecturer: Dr. Patwardhan Ankur
   Vice Principal and Head
   Biodiversity Department,
   Aabasaheb Garware College
   Pune 411004
4. Names of students of core committee : F.Y.B.Sc & S.Y.B.Sc
5. Attach list of student members of the activity group. (Faculty Wise and Degree/ Junior):
   Attendance list attached
6. Aims and objectives of the Lecture :
   To develop awareness regarding biodiversity and its conservation.
7. Was the activity calendar prepared? Yes / No: Yes
8. Functions / duties allotted to committee members
   1. Welcome committee: Dr. Dani-Tambhale S. D.
      Dr. Kulkarni S. A.
   2. Organization Committee: Dr. Shirurkar D.D.
      Dr. Ranadive K. R.
   3. Hall arrangement committee: Mr. Ingale Shaktiprasad
      Ms. Mahamuni K. R.
9. Whether other members were co-opted? Yes/No if yes, list names and duties allotted.: N.A
10. Participation of audience
    No. of Students: 170 (**Boys** -55, **Girls** – 115)
    No. of Staff: 10
    No. of Committee Members: 06
11. Activity report submitted to
    a) Principal / Vice Principal / Registrar: Yes
    b) HODS for monthly report: Yes
    c) Magazine: Yes
    d) IQAC: Yes
12. Mode of feedback from students/teacher and action taken on it to improve.
    Students express their opinions after lecture.
13. How do your activities contribute to the mission and vision of the institution?

Photo’s

Photo’s

Center of Excellence

STUDENT PRTICIPATION

IN MIMAMSA INOVATION

Praj and IISER Pune present

mimamsa 2020

certificate of participation

This is to certify that Omkar Nandeo Sutar

from Annasaheb Magar Mahavidyalaya

has participated in Mimamsa 2020 Prelims conducted on

18th January 2020 at IISER Pune.

Dr. M.S. Madhusudhan
Faculty Coordinator

Praj and IISER Pune present

mimamsa 2020

certificate of participation

This is to certify that Shrivanshi Dnyaneshwar Ilas

from Annasaheb Magar Mahavidyalaya

has participated in Mimamsa 2020 Prelims conducted on

18th January 2020 at IISER Pune.

Dr. M.S. Madhusudhan
Faculty Coordinator

STUDENT PRTICIPATION IN MIMAMSA INOVATION

Praj and IISER Pune present

mimamsa 2020

certificate of participation

This is to certify that OMKAR RAJENDRA DIVEKAR
from ANNASAHEB MAGAR MAHAVIDYALAYA
has participated in Mimamsa 2020 Prelims conducted on
18th January 2020 at IISER PUNE.

Dr. M.S. Madhusudhan
Faculty Coordinator

Praj and IISER Pune present

mimamsa 2020

certificate of participation

This is to certify that KOMAL PANDURANG SABLE
from ANNASAHEB MAGAR MAHAVIDYALAYA
has participated in Mimamsa 2020 Prelims conducted on
18th January 2020 at IISER PUNE.

Dr. M.S. Madhusudhan
Faculty Coordinator

Participation Certificate of Faculty

Sinhgad Institutes

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग, महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा

यांच्या संयुक्त विद्यमाने

करिअर कट्टा

युवकांच्या सर्वांगीण विकासासाठी.....

सेंटर ऑफ एक्सलन्स दोन दिवसीय कार्यशाळा

प्रमाणपत्र

डॉ. नितीन लक्ष्मण घोरपडे - प्राचार्य अण्णासाहेब मगर महाविद्यालय, हडपसर

'करिअर कट्टा' अंतर्गत आयोजित 'सेंटर ऑफ एक्सलन्स'
या दोन दिवसीय कार्यशाळेसाठी आपण उपस्थित राहिल्याबद्दल
आपणास हे 'प्रमाणपत्र' देऊन सन्मानित करण्यात येत आहे.

मा. डॉ. एम.एस. गायकवाड
प्राचार्य,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा

दिनांक : २७ व २८ मे, २०२३

मा. यशवंत शितोळे
अध्यक्ष
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

Sinhgad Institutes

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग, महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा

यांच्या संयुक्त विद्यमाने

करिअर कट्टा

युवकांच्या सर्वांगीण विकासासाठी.....

सेंटर ऑफ एक्सलन्स दोन दिवसीय कार्यशाळा

प्रमाणपत्र

नितीन रमेश लगड समन्वयक - अण्णासाहेब मगर महाविद्यालय हडपसर

'करिअर कट्टा' अंतर्गत आयोजित 'सेंटर ऑफ एक्सलन्स'
या दोन दिवसीय कार्यशाळेसाठी आपण उपस्थित राहिल्याबद्दल
आपणास हे 'प्रमाणपत्र' देऊन सन्मानित करण्यात येत आहे.

मा. डॉ. एम.एस. गायकवाड
प्राचार्य,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा

दिनांक : २७ व २८ मे, २०२३

मा. यशवंत शितोळे
अध्यक्ष
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

Appreciation Certificate of Institute

Sinhgad Institutes

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग, महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा
यांच्या संयुक्त विद्यमाने

करिअर कट्टा

युवकांच्या सर्वांगीण विकासासाठी.....

सेंटर ऑफ एक्सलन्स दोन दिवसीय कार्यशाळा

प्रमाणपत्र

प्रा. अनिल महादेव जगताप - समन्वयक अण्णासाहेब मगर महाविद्यालय, हडपसर

'करिअर कट्टा' अंतर्गत आयोजित 'सेंटर ऑफ एक्सलन्स'
या दोन दिवसीय कार्यशाळेसाठी आपण उपस्थित राहिल्याबद्दल
आपणास हे 'प्रमाणपत्र' देऊन सन्मानित करण्यात येत आहे.

मा. डॉ. एम.एस. गायकवाड
प्राचार्य,
सिंहगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, लोणावळा

दिनांक : २७ व २८ मे, २०२३

मा. यशवंत शितोळे
अध्यक्ष
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

महाराष्ट्र राज्य
उच्च व तंत्र शिक्षण विभाग
व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

यांच्या संयुक्त विद्यमाने

करिअर कट्टा

युवकांच्या सर्वांगीण विकासासाठी.....

प्रमाणपत्र

* महाविद्यालयीन स्पर्धा २०२२-२३ *

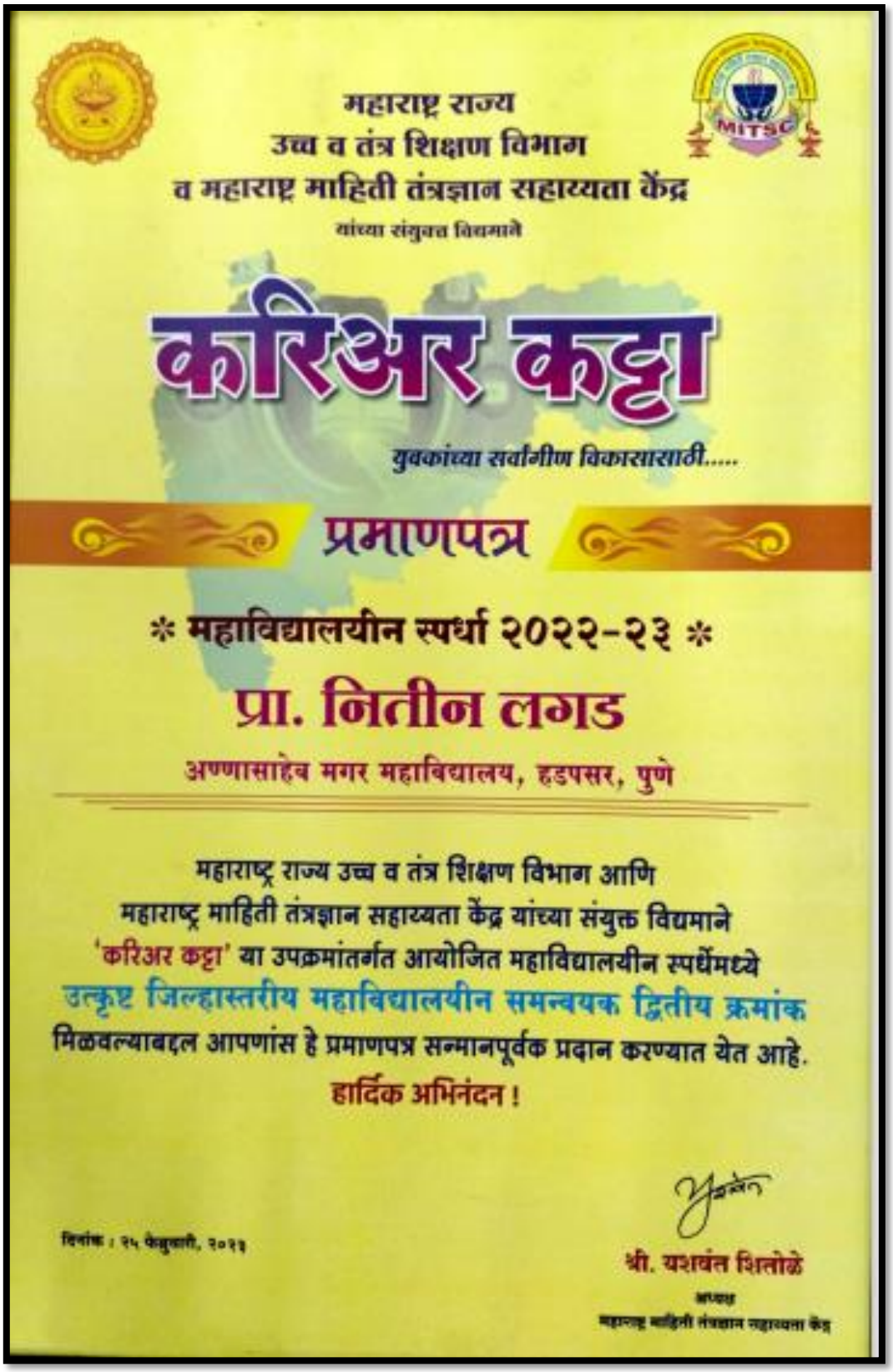
अण्णासाहेब मगर महाविद्यालय
हडपसर, पुणे

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग आणि
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने
'करिअर कट्टा' या उपक्रमांतर्गत आयोजित महाविद्यालयीन स्पर्धेमध्ये
उत्कृष्ट विभागीय महाविद्यालय - प्रथम क्रमांक
मिळवल्याबद्दल आपणांस हे प्रमाणपत्र सन्मानपूर्वक
प्रदान करण्यात येत आहे.
हार्दिक अभिनंदन !

दिनांक : २५ फेब्रुवारी, २०२३

श्री. यशवंत शितोळे

Appreciation Certificate of Faculty



महाराष्ट्र राज्य
उच्च व तंत्र शिक्षण विभाग
व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र
यांच्या संयुक्त विद्यमाने

करिअर कट्टा

युवकांच्या सर्वांगीण विकासासाठी.....

प्रमाणपत्र

* महाविद्यालयीन स्पर्धा २०२२-२३ *

प्रा. नितीन लगड

अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग आणि
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने
'करिअर कट्टा' या उपक्रमांतर्गत आयोजित महाविद्यालयीन स्पर्धेमध्ये
उत्कृष्ट जिल्हास्तरीय महाविद्यालयीन समन्वयक द्वितीय क्रमांक
मिळवल्याबद्दल आपणांस हे प्रमाणपत्र सन्मानपूर्वक प्रदान करण्यात येत आहे.
हार्दिक अभिनंदन !

दिनांक : २५ फेब्रुवारी, २०२३

श्री. यशवंत शितोळे

Appreciation Certificate of Faculty

Appreciation Certificate of Institute

Participation Certificate of Faculty

UNIVERSAL
Mentors Association

Date:04/12/2022
Place : New Delhi

Dear Principal

Subject: Letter of Confirmation under the Category "Principal Of the Year 2023". The Quest for the Top 100

School Principal of the Country.

Greetings from Universal Mentors Associations.

It gives us immense pleasure to announce that the Universal Mentors Association in association with Brainwonders is hosting the 5th EduLeader Summit on 19th January 2023 at Leela Ambience karkardooma, New Delhi. The jury of the Event has Shortlisted Arti Vilas Agrawal, Principal , Eva Group of Schools under the Category Principal of the Year 2023.

Total Number of Applicants: 1,000
Total Number of Profile Shortlisted: 100

The Event will Have Participation from :
10+ Key Government Dignitaries.
40+ CEOs & Owners of Various Groups of Schools.
250+ School Principals & Directors.
100+ Awards.
25+ Partners.

In this Regard we request you to kindly attend the event and receive the award physically on 19th January 2023 at Leela Ambience karkardooma, New Delhi.

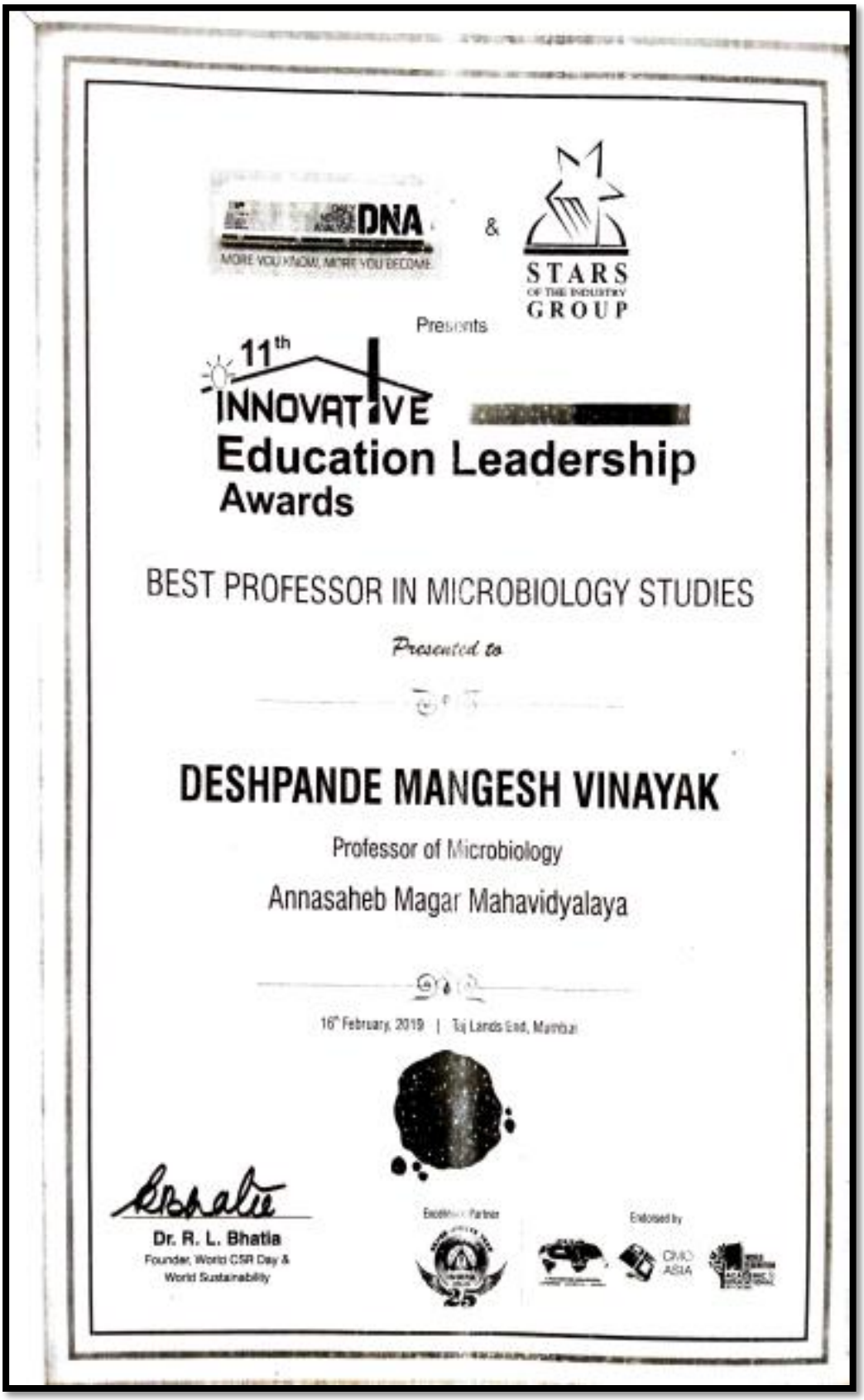
Congratulations once again on being one of the Best Principals of the Country and Hope to see you at the Award Felicitation Ceremony.

For more information kindly contact Ms Esha - +91-9892925754 & Ms Sara - +91-9625417139

Thanks & Regards
Sandeep Gulati
Founder – Universal
Mentors Association
ceo@umaconferences.com

www.umaconferences.com
umaconferences@gmail.com
+91 85888 12338, +91 97735 09209

Appreciation Certificate of Faculty



DNA
MORE YOU KNOW, MORE YOU BECOME

&

STARS OF THE INDUSTRY GROUP

Presents

11th INNOVATIVE Education Leadership Awards

BEST PROFESSOR IN MICROBIOLOGY STUDIES

Presented to

DESHPANDE MANGESH VINAYAK

Professor of Microbiology

Annasaheb Magar Mahavidyalaya

16th February, 2019 | Taj Lands End, Mumbai

Dr. R. L. Bhatia
Founder, World CSR Day &
World Sustainability

Enabling Partner

Endorsed by

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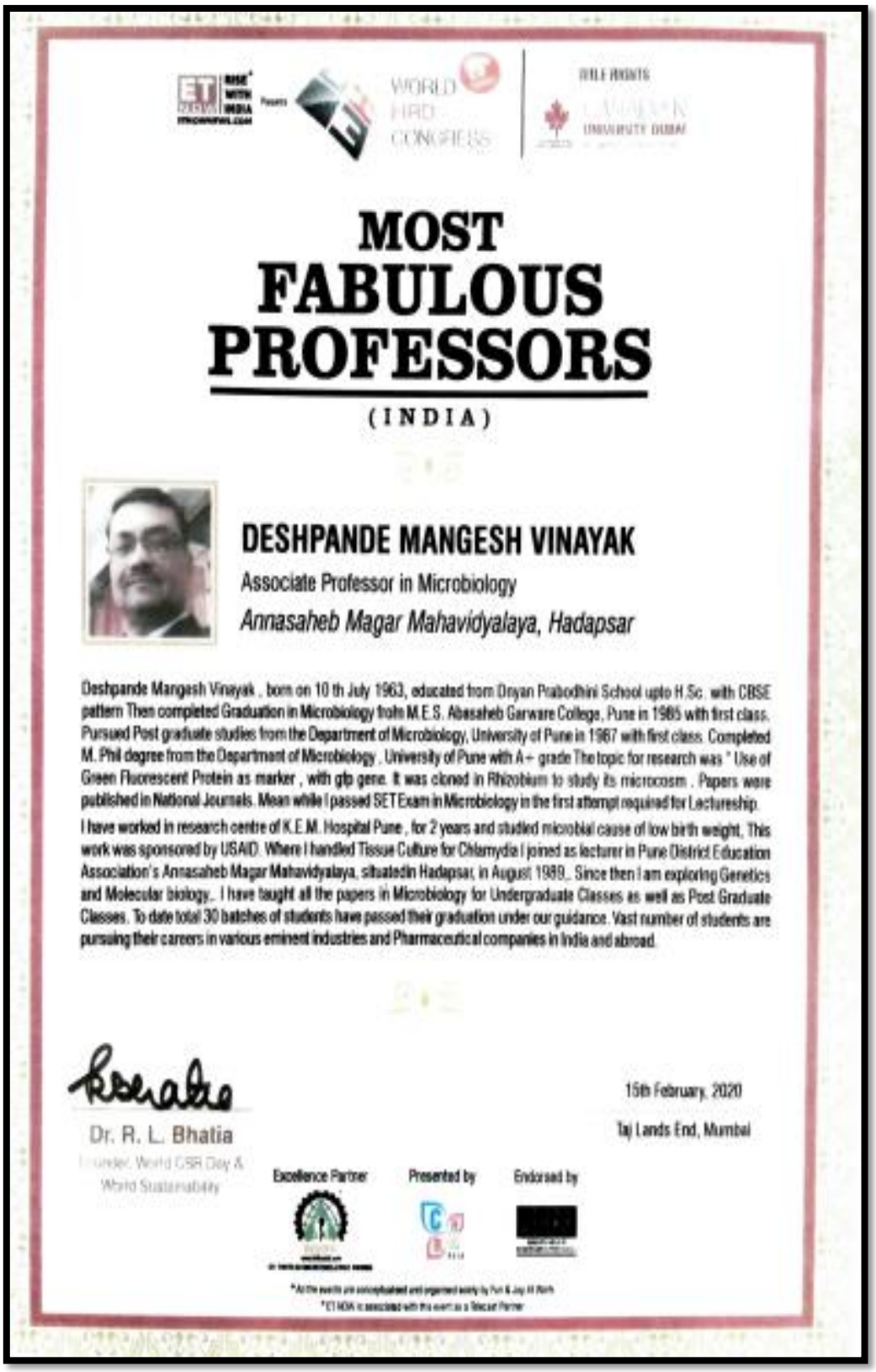
Appreciation Certificate of Faculty



MOST
FABULOUS
PROFESSORS
(INDIA)

DESHPANDE MANGESH VINAYAK

Associate Professor in Microbiology

Annasaheb Magar Mahavidyalaya, Hadapsar

Deshpande Mangesh Vinayak , born on 10 th July 1963, educated from Dnyan Prabodhini School upto H.Sc. with CBSE pattern Then completed Graduation in Microbiology from M.E.S. Abasaheb Garware College, Pune in 1985 with first class. Pursued Post graduate studies from the Department of Microbiology, University of Pune in 1987 with first class. Completed M. Phil degree from the Department of Microbiology , University of Pune with A+ grade The topic for research was " Use of Green Fluorescent Protein as marker , with gfp gene. It was cloned in Rhizobium to study its microcosm . Papers were published in National Journals. Mean while I passed SET Exam in Microbiology in the first attempt required for Lectureship.

I have worked in research centre of K.E.M. Hospital Pune , for 2 years and studied microbial cause of low birth weight, This work was sponsored by USAID. Where I handled Tissue Culture for Chlamydia I joined as lecturer in Pune District Education Association's Annasaheb Magar Mahavidyalaya, situated in Hadapsar, in August 1989.. Since then I am exploring Genetics and Molecular biology.. I have taught all the papers in Microbiology for Undergraduate Classes as well as Post Graduate Classes. To date total 30 batches of students have passed their graduation under our guidance. Vast number of students are pursuing their careers in various eminent industries and Pharmaceutical companies in India and abroad.

Dr. R. L. Bhatia
Founder, World CSR Day &
World Sustainability

15th February, 2020

Taj Lands End, Mumbai

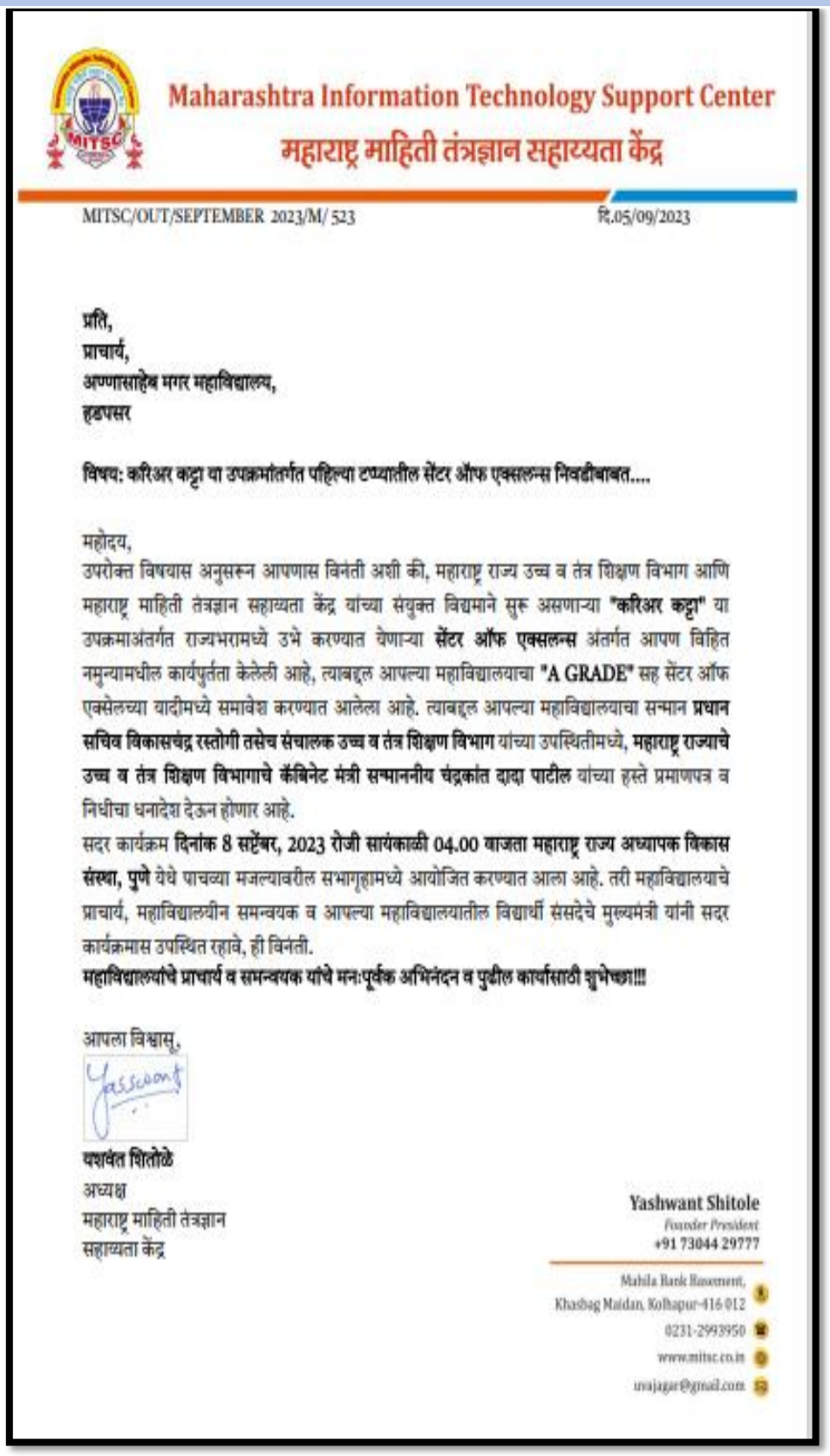
Excellence Partner | Presented by | Endorsed by

Appreciation Certificate of Faculty

State Level Award for " lakshyavedhi Pradhyapak Pratibharatna Award -2021 "

by Manyushyabal Vikas Lokseva Acadamy on 24th December 2021 at Pune.

Appreciation Certificate of Institute



Maharashtra Information Technology Support Center

महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

MITSC/OUT/SEPTEMBER 2023/M/ 523 दि.05/09/2023

प्रति,
प्राचार्य,
अण्णासाहेब मगर महाविद्यालय,
हडपसर

विषय: करिअर कट्टा या उपक्रमांतर्गत पहिल्या टप्प्यातील सेंटर ऑफ एक्सलन्स निवडीबाबत....

महोदय,
उपरोक्त विषयास अनुसरून आपणास विनंती अशी की, महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग आणि महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने सुरू असणाऱ्या **"करिअर कट्टा"** या उपक्रमाअंतर्गत राज्यभरामध्ये उभे करण्यात येणाऱ्या **सेंटर ऑफ एक्सलन्स** अंतर्गत आपण विहित नमुन्यामधील कार्यपुर्तता केलेली आहे, त्याबद्दल आपल्या महाविद्यालयाचा **"A GRADE"** सह सेंटर ऑफ एक्सेलच्या यादीमध्ये समावेश करण्यात आलेला आहे. त्याबद्दल आपल्या महाविद्यालयाचा सन्मान **प्रधान सचिव विकासचंद्र रस्तोगी तसेच संचालक उच्च व तंत्र शिक्षण विभाग** यांच्या उपस्थितीमध्ये, **महाराष्ट्र राज्याचे उच्च व तंत्र शिक्षण विभागाचे कॅबिनेट मंत्री सन्माननीय चंद्रकांत दादा पाटील** यांच्या हस्ते प्रमाणपत्र व निधीचा धनादेश देऊन होणार आहे.
सदर कार्यक्रम **दिनांक 8 सप्टेंबर, 2023 रोजी सायंकाळी 04.00 वाजता महाराष्ट्र राज्य अध्यापक विकास संस्था, पुणे** येथे पाचव्या मजल्यावरील सभागृहामध्ये आयोजित करण्यात आला आहे. तरी महाविद्यालयाचे प्राचार्य, महाविद्यालयीन समन्वयक व आपल्या महाविद्यालयातील विद्यार्थी संसदेचे मुख्यमंत्री यांनी सदर कार्यक्रमास उपस्थित रहावे, ही विनंती.
महाविद्यालयाचे प्राचार्य व समन्वयक यांचे मनःपूर्वक अभिनंदन व पुढील कार्यासाठी शुभेच्छा!!!

आपला विश्वासू,

यशवंत शितोळे
अध्यक्ष
महाराष्ट्र माहिती तंत्रज्ञान
सहाय्यता केंद्र

Yashwant Shitole
Founder President
+91 73044 29777

Mahila Bank Basement,
Khasbag Maidan, Kolhapur-416 012
0231-2993950
www.mitsc.co.in
unajagar@gmail.com

Appreciation Certificate of Faculty

Maharashtra Information Technology Support Center
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

MITSC/OUT/JUNE 2022/M/ 978 दि.08-06-2022

प्रति

मा. प्राचार्य डॉ. नितीन घोरपडे
बाबुराव घोलप महाविद्यालय

विषय : करिअर कट्टयाचे प्रवर्तक म्हणून नियुक्तीबाबत.....

महोदय,

उपरोक्त विषयास अनुसरुन आपणास कळविण्यात आत्यंतिक आनंद होतो की, महाराष्ट्र राज्य उच्च व तंत्रशिक्षण विभाग व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने सुरु असणारा करिअर कट्टा उपक्रम आपल्या विभागातील जास्तीत जास्त विद्यार्थ्यांनी सहभाग घ्यावा व या उपक्रमाच्या माध्यमातून युवकांच्या सर्वांगीण विकासासाठी अनेकविध उपक्रम राबवणे सुलभ व्हावे या उद्देशाने जिल्हानिहाय अनुभवी व कर्तृत्व संपन्न करिअर कट्टा प्रवर्तक यांची नियुक्ती करण्यात येणार आहे. तरी यासाठी जिल्ह्याचे **जिल्हा प्रवर्तक प्राचार्य** म्हणून आपली निवड करण्यात आलेली आहे त्याबद्दल आपले मनःपूर्वक अभिनंदन! आपल्या अनुभव संपन्न व्यक्तिमत्त्वाच्या विविध पैलूंचा उपयोग विद्यार्थ्यांच्या करिअरसाठी दीपस्तंभाप्रमाणे मार्गदर्शन करेल व करिअर कट्टा जास्तीत जास्त समृद्ध करण्यासाठी आपण योगदान द्याल याबद्दल खात्री वाटते. आपल्या निवडीबद्दल परत एकदा अभिनंदन!

आपला विश्वासू,

श्री. यशवंत शितोळे
अध्यक्ष,
महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

R.O. : Mahila Bank Basement, Khasbag Maidan, Kolhapur - 416 012. Ph. 0231-2643377.
Mobaile NO - 7304429777, 7720015456, 7720015455
web : www.mitsc.co.in E-mail : uvajagar@gmail.com

Appreciation Certificate of Faculty

Fw: Letter of Confirmation...

Dear Principal,

Greetings from Universal Mentors Association.

It gives us immense pleasure to announce that your esteemed profile has been shortlisted by our jury for the Prestigious Title of **Principal of the Year 2022.** We are also pleased to announce that your profile has been shortlisted from over 500 Nomination that we received from various applicants from across the country.

It would be our Honor to Host you and welcome you along side the top 100 School Principals of the Country.

Venue : The Pullman, Aerocity, New Delhi.
Date : 16th April 2022.
Time : 8:30 am to 6:00 pm

Kindly note* You are entitled for the award only if you attend the event physically, since this is a limited seat only event we would like to have your confirmation to before sending you an official letter of induction as the Top 100 Principals of the Country for the year 2022.

Hence, Kindly send your confirmation on the same email address with your picture and profile so that we can promote it on our social media handles.

Also Note : This is just a confirmation of your profile shortlisting, you will be entitled for the award only if you give the confirmation of your attendance.

Awaiting your kind confirmation.

Appreciation Certificate of Faculty

Membership Certificate

International Biochar Initiative

hereby bestows to:

Dr. Neha Nitin Patil

the title of:

IBI Professional Member (Low/Middle Income Country)

from December 19, 2020 - December 19, 2021.

Brian Schorr

Executive Administrator

Appreciation Certificate of Faculty

Membership Certificate

International Biochar Initiative

hereby bestows to:

Meghmala Waghmode

the title of:

IBI Professional Member

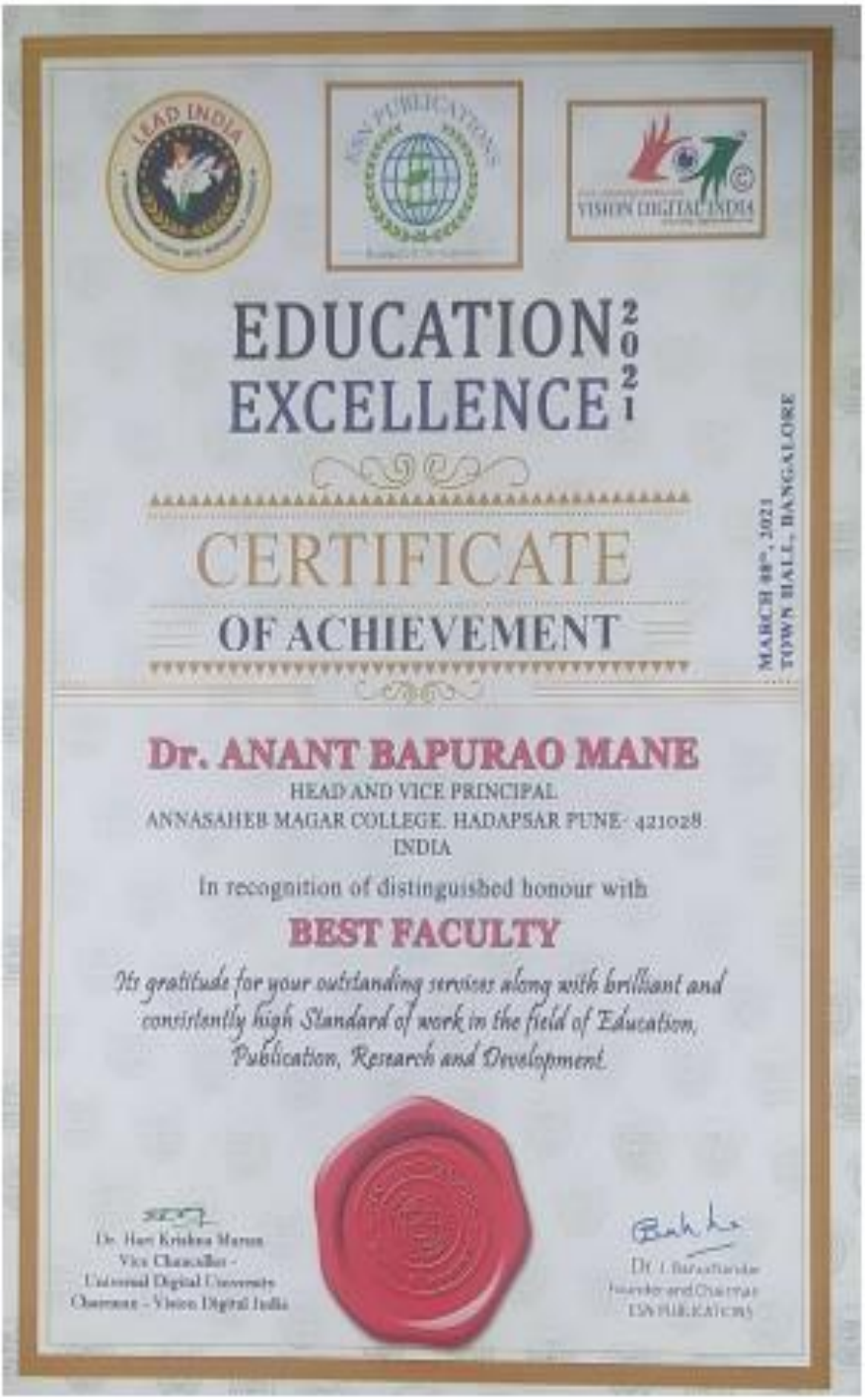
from September 27, 2019-September 26, 2020.

Brian Schorr

Executive Administrator

Appreciation Certificate of Faculty

Appreciation Certificate of Faculty



EDUCATION 2021
EXCELLENCE

CERTIFICATE
OF ACHIEVEMENT

MARCH 8th, 2021
TOWN HALL, BANGALORE

Dr. ANANT BAPURAO MANE
HEAD AND VICE PRINCIPAL
ANNASAHEB MAGAR COLLEGE, HADAPSAR PUNE- 421028
INDIA

In recognition of distinguished honour with

BEST FACULTY

Its gratitude for your outstanding services along with brilliant and consistantly high Standard of work in the field of Education, Publication, Research and Development.

Dr. Hari Krishna Maram
Vice Chancellor -
Universal Digital University
Chairman - Vision Digital India

Dr. I. Saravanan
Founder and Chairman
ISN PUBLICATIONS

Appreciation Certificate of Faculty

#WorldWaterDay

DPU

Dr. D. Y. Patil Unitech Society's

Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune -18

Department of Microbiology

WORLD WATER DAY (22 MARCH 2021)

Intercollegiate Competition for Innovative Concept

Certificate

This is to certify that Ms. **Meghmala Waghmode** of Annasaheb Magar Mahavidyalaya has participated and secured 1st Position in Intercollegiate Competition for Innovative Concepts conducted by Department of Microbiology on account of World Water Day (22 March 2021).

Mr. P. Vasudevan
In-Charge, Science Faculty

Dr. Ranjit Patil
Principal

DPU

Dr. D. Y. Patil Vidyapeeth, Pune

(Deemed to be University)

RE-ACCREDITED BY NAAC WITH 'A' GRADE. ISO 9001:2015 CERTIFIED

CATEGORY I UNIVERSITY DECLARED BY UGC UNDER GRADED AUTONOMY REGULATION, 2018

Dr. D.Y. PATIL BIOTECHNOLOGY & BIOINFORMATICS INSTITUTE, TATHAWADE, PUNE

AICTE APPROVED, A DST-FIST SPONSORED INSTITUTE

National Symposium

on

"Recent Advances in Modern Biology & Biotechnology 2019"

(RAMBB 2019)

Certificate

We have the pleasure in presenting this certificate to Dr./Mr./Ms./Mrs. Neha Patil

from Annasaheb Magar Mahavidyalaya, Pune.

for securing the best prize for ~~poster presentation~~ Young researcher / oral presentation / innovation competition / company startup at

the National Symposium on "Recent Advances in Modern Biology & Biotechnology 2019" during 14-16 March 2019.

Prof. Neelu Nawani
Organizing Secretary

Prof. J. K. Pal
Convener

Appreciation Certificate of Institute

Date: 18th Jan 2022.

To,

Hon. Principal

Kind Attn: Hon. Teacher Representative

Sub: Result of 'Kirloskar Vasundhara Green College Clean College Trophy Competition 2021-22'.

Dear Sir/Madam,

Kirloskar Vasundhara Green College Clean College Competition has been organized for the last 6 years. We are thankful to you and college management for the whole hearted support to this competition. The response and enthusiasm from Eco Rangers was noteworthy.

This year we also received a good response from a number of colleges for the subject: 'Green technologies to make the campus green and clean'.

Eco Rangers from eleven colleges presented their concepts online on 8th Jan 2022. With this letter, I am happy to announce the result which has been finalized unanimously by all the judges.

§ **First Prize** : H. V. Desai College

§ **Second Prize** (Joint): Modern College, Ganeshkhind and Dr. Bhanuben Nanavati College of Architecture.

§ **Third Prize** : Fergusson College

§ **Consolation Prize** (Two) : Annasaheb Magar College and NCL Junior College

§ **Certificate of Participation:** S.P. College, BKPS College of Architecture, Symbiosis College of Arts and Commerce, B.M.C.C., Symbiosis Biodiversity.

Note :

§ Due to rising cases of Corona, we are not organizing **offline** prize distribution ceremony.

§ We are willing to hand over the trophy / citation at your place after **25th of Jan.** as per your convenience.

Heartiest congratulations to all the winners and participants.

Appreciation Certificate of Faculty

BENTHAM SCIENCE
Publishers of Quality Research

BENTHAM AMBASSADOR
2020 - 2021

Dr. NEHA NITIN PATIL

On behalf of Bentham Science Publishers, We would like to welcome you for being selected as a Bentham Ambassador.

We warmly congratulate you for this appointment and look forward to a productive collaboration with you in your capacity as a Bentham Ambassador.

Mahmood Alam
Director
Bentham Science

INTERNATIONAL YEAR OF MILLETS 2023

महाराष्ट्र शासन कृषि विभाग

आंतरराष्ट्रीय पौष्टिक तृणधान्य वर्ष २०२३

पौष्टिक तृणधान्य दिन

दि.१३ जानेवारी २०२३

प्रशस्तीपत्र

प्रमाणित करण्यात येते की, श्री/श्रीमती भावना दिलीप जगताप (ए.एम. कॉलेज) यांनी दि.१३ जानेवारी २०२३ रोजी आयोजित केलेल्या पौष्टिक तृणधान्य दिनानिमीत्त बाजरी पासून बनविण्यात येणाऱ्या पाक कृति स्पर्धेत सहभाग नोंदविले बद्दल हे प्रशस्तीपत्र देऊन आपला सन्मान करण्यात येत आहे.

ठिकाण : मध्यवर्ती इमारत, पुणे – ०१
दिनांक : १३ जानेवारी २०२३

सुनील चव्हाण भाप्रसे
आयुक्त कृषि
कृषि आयुक्तालय, महाराष्ट्र, पुणे-०१

Appreciation Certificate of Faculty

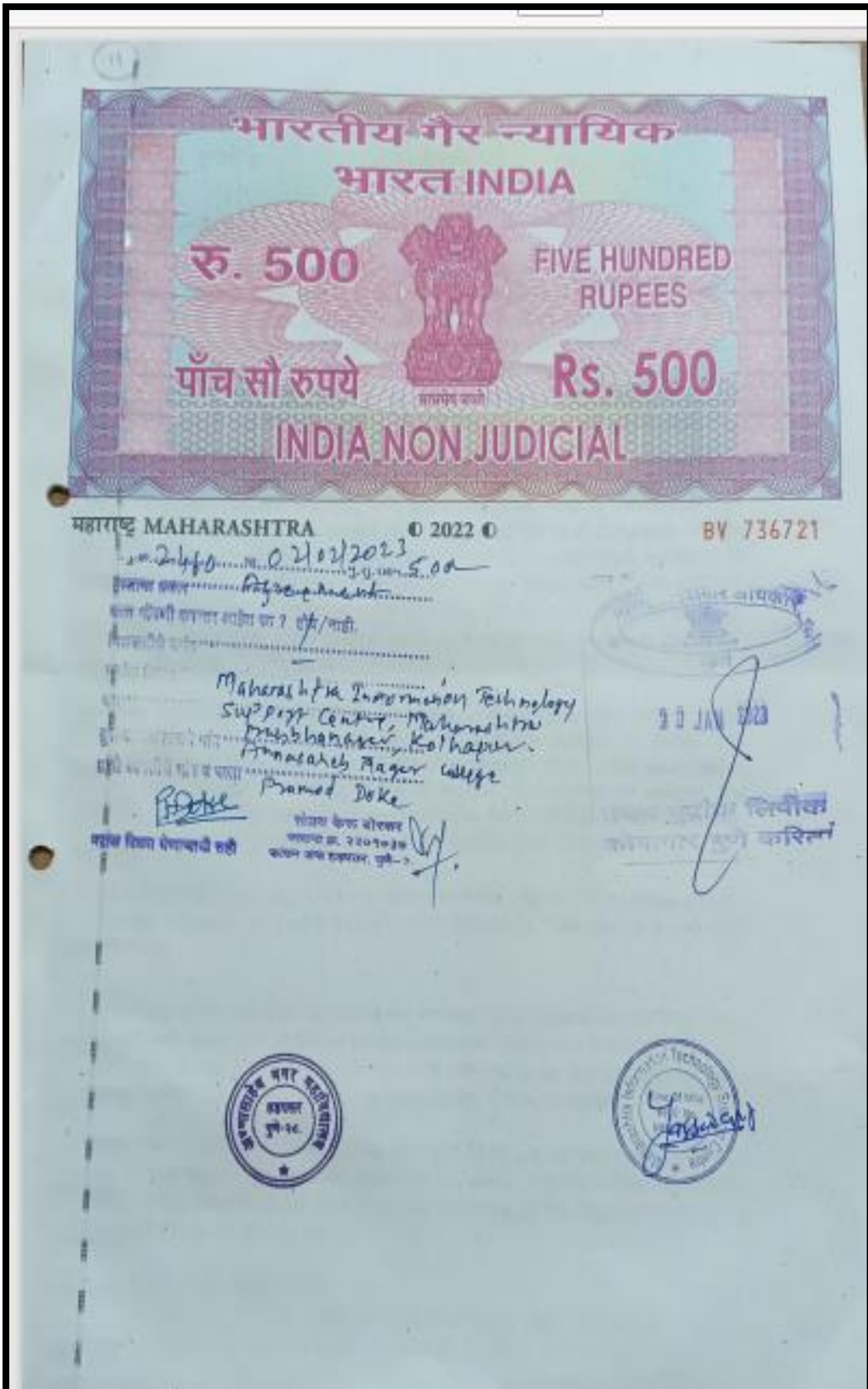
MOU

Maharashtra Information Technology Support Center, Maharashtra

&

PDEA'S, Annasheb Magar Mahavidyalya, Hadpasar, Pune

MOU



भारतीय गैर न्यायिक

भारत INDIA

रु. 500

FIVE HUNDRED RUPEES

पाँच सौ रुपये

Rs. 500

INDIA NON JUDICIAL

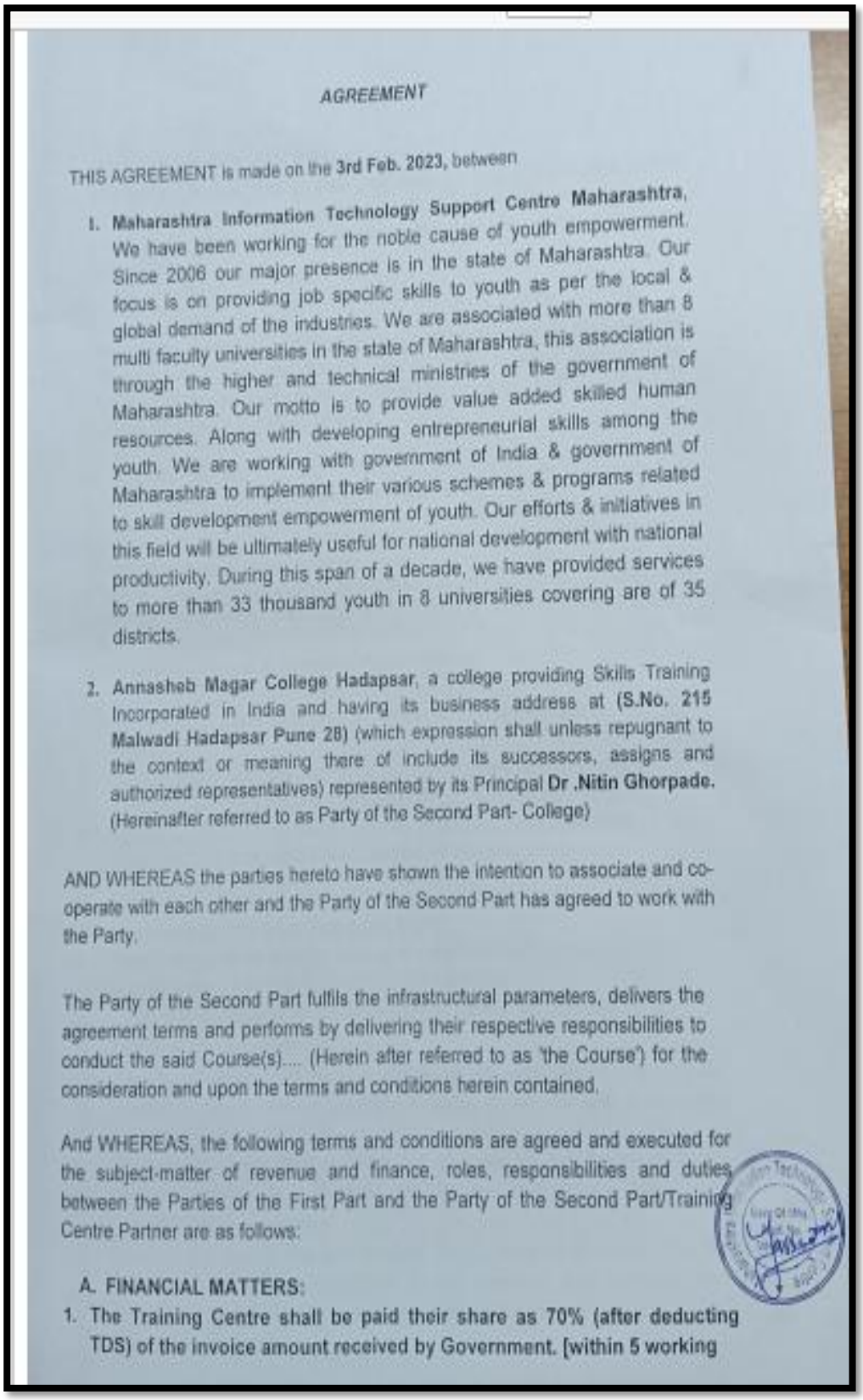
महाराष्ट्र MAHARASHTRA © 2022 © BV 736721

Maharashtra Information Technology Support Centre, Maharashtra ... Kolhapur.

Annasaheb Magar College

Pramod Doke

MOU Agreement



AGREEMENT

THIS AGREEMENT is made on the **3rd Feb. 2023**, between

1. **Maharashtra Information Technology Support Centre Maharashtra**, We have been working for the noble cause of youth empowerment. Since 2006 our major presence is in the state of Maharashtra. Our focus is on providing job specific skills to youth as per the local & global demand of the industries. We are associated with more than 8 multi faculty universities in the state of Maharashtra, this association is through the higher and technical ministries of the government of Maharashtra. Our motto is to provide value added skilled human resources. Along with developing entrepreneurial skills among the youth. We are working with government of India & government of Maharashtra to implement their various schemes & programs related to skill development empowerment of youth. Our efforts & initiatives in this field will be ultimately useful for national development with national productivity. During this span of a decade, we have provided services to more than 33 thousand youth in 8 universities covering are of 35 districts.

2. **Annasheb Magar College Hadapsar**, a college providing Skills Training Incorporated in India and having its business address at **(S.No. 215 Malwadi Hadapsar Pune 28)** (which expression shall unless repugnant to the context or meaning there of include its successors, assigns and authorized representatives) represented by its Principal **Dr .Nitin Ghorpade.** (Hereinafter referred to as Party of the Second Part- College)

AND WHEREAS the parties hereto have shown the intention to associate and co-operate with each other and the Party of the Second Part has agreed to work with the Party.

The Party of the Second Part fulfils the infrastructural parameters, delivers the agreement terms and performs by delivering their respective responsibilities to conduct the said Course(s).... (Herein after referred to as 'the Course') for the consideration and upon the terms and conditions herein contained.

And WHEREAS, the following terms and conditions are agreed and executed for the subject-matter of revenue and finance, roles, responsibilities and duties between the Parties of the First Part and the Party of the Second Part/Training Centre Partner are as follows:

A. FINANCIAL MATTERS:

1. **The Training Centre shall be paid their share as 70% (after deducting TDS) of the invoice amount received by Government. [within 5 working**

MOU Agreement

days from the date of receiving payment.]

2. The training partner shall be paid their share as 30% of the invoice amount receive by the government. **(after deducting TDS) of the invoice amount received by Govt. [within 5 working days from the date of receiving payment.]**

3. The Centre Accreditation, Affiliation, Centre Monitoring Fees & Empanelment Fees including fees paid for job role at actual required shall paid by **Annasaheb Magar College**, as per there requirement of PMKVY 4.0 NSDC CSSM, MSSDS of any other scheme.

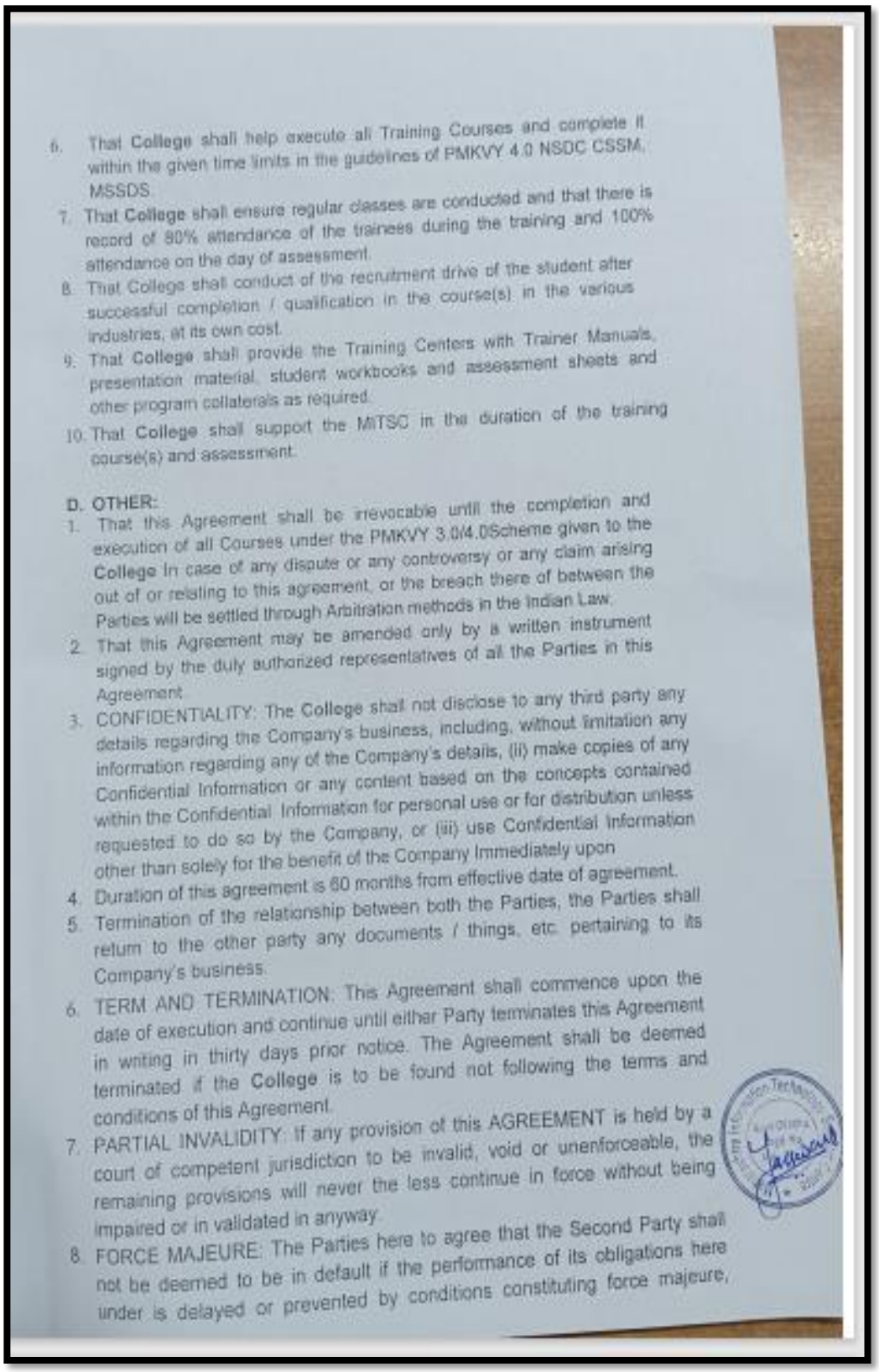
B. ROLE OF MITSC:

1. MITSC will act as a facilitator for training center.
2. MITSC will be single point of contact for any operations related matter.
3. MITSC will help to college in conducting course as per government norms.
4. MITSC will check & review all the process regarding project.
5. MITSC shall make payments as per the Clauses (1) & (2) of this Agreement.
6. MITSC shall monitor the flow of work of training course(s) conducted by the Execution Partner **Annasaheb Magar College**
7. MITSC shall guide and support the Execution Partner and **College** Whenever possible, in conducting and execution of the training course(s).
8. MITSC shall coordinate with NSDC to ensure timely validation of the Centre(s) and for sufficient training target allocation to the Centre(s).
9. MITSC shall assist the training partner in creating industry links for on job training (OJT), internships and placements wherever necessary.

C. RESPONSIBILITIES OF THE COLLEGE:

1. That College shall appoint trainner for the purpose of training of the course under PMKVY 4.0 NSDC CSSM,MSSDS
2. That the **College** shall conduct TOT (Training of Trainers) of the course at its own expenses.
3. That the **College** shall make available all the requisite infrastructure for successful completion of training course(s), as per the laid Government and other norms.
4. That the **College** shall mobilize the students as per the defined eligibility criteria & documents as per the PMKVY 4.0 NSDC CSSM,MSSDS guidelines.
5. That on the day of the assessment, the **College** shall ensure that the necessary facilities are provided to the assessor and adequate labs infrastructure with all the necessary raw materials are provided for the assessment purpose.

MOU Agreement



6. That **College** shall help execute all Training Courses and complete it within the given time limits in the guidelines of PMKVY 4.0 NSDC CSSM, MSSDS.
7. That **College** shall ensure regular classes are conducted and that there is record of 80% attendance of the trainees during the training and 100% attendance on the day of assessment.
8. That College shall conduct of the recruitment drive of the student after successful completion / qualification in the course(s) in the various industries, at its own cost.
9. That **College** shall provide the Training Centers with Trainer Manuals, presentation material, student workbooks and assessment sheets and other program collaterals as required.
10. That **College** shall support the MITSC in the duration of the training course(s) and assessment.

D. OTHER:

1. That this Agreement shall be irrevocable until the completion and execution of all Courses under the PMKVY 3.0/4.0Scheme given to the **College** In case of any dispute or any controversy or any claim arising out of or relating to this agreement, or the breach there of between the Parties will be settled through Arbitration methods in the Indian Law.
2. That this Agreement may be amended only by a written instrument signed by the duly authorized representatives of all the Parties in this Agreement.
3. CONFIDENTIALITY: The **College** shall not disclose to any third party any details regarding the Company's business, including, without limitation any information regarding any of the Company's details, (ii) make copies of any Confidential Information or any content based on the concepts contained within the Confidential Information for personal use or for distribution unless requested to do so by the Company, or (iii) use Confidential Information other than solely for the benefit of the Company Immediately upon
4. Duration of this agreement is 60 months from effective date of agreement.
5. Termination of the relationship between both the Parties, the Parties shall return to the other party any documents / things, etc. pertaining to its Company's business.
6. TERM AND TERMINATION: This Agreement shall commence upon the date of execution and continue until either Party terminates this Agreement in writing in thirty days prior notice. The Agreement shall be deemed terminated if the **College** is to be found not following the terms and conditions of this Agreement.
7. PARTIAL INVALIDITY: If any provision of this AGREEMENT is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will never the less continue in force without being impaired or in validated in anyway.
8. FORCE MAJEURE: The Parties here to agree that the Second Party shall not be deemed to be in default if the performance of its obligations here under is delayed or prevented by conditions constituting force majeure,

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strikes, fire, war, riots, floods, or any act of God, any laws, orders, rules or directions of any Government or municipal or statutory agency or authority, or any other reason, or cause what so ever beyond reasonable control of Second Party. Under the said circumstances, the First Party shall not be liable to pay any compensation for the duration constituting Force Majeure.

9. JURISDICTION: That in case of any dispute between the parties, the Courts of Pune shall have the Jurisdiction.

That this agreement made on 09/02/2023 (Date) between the parties here to and supersedes all prior or contemporaneous, oral or written understanding, negotiations, or communications on behalf of such parties in respect of the subject matter here in.

IN WITNESS WHERE OF the parties have executed this agreement effective as of the date first written above.

1. For & behalf of MITSC

Seal:

Name: Yashwant Shitole
Authorized Signatory
Address: pratibha nagar , Kolhapur
Email: uvajagar@gmail.com
Contact Number: 7304439777

2. For & behalf of the College

Seal:

PRINCIPAL
Annasaheb Magar Mahavidyalaya
Hadapsar, Pune-411028.

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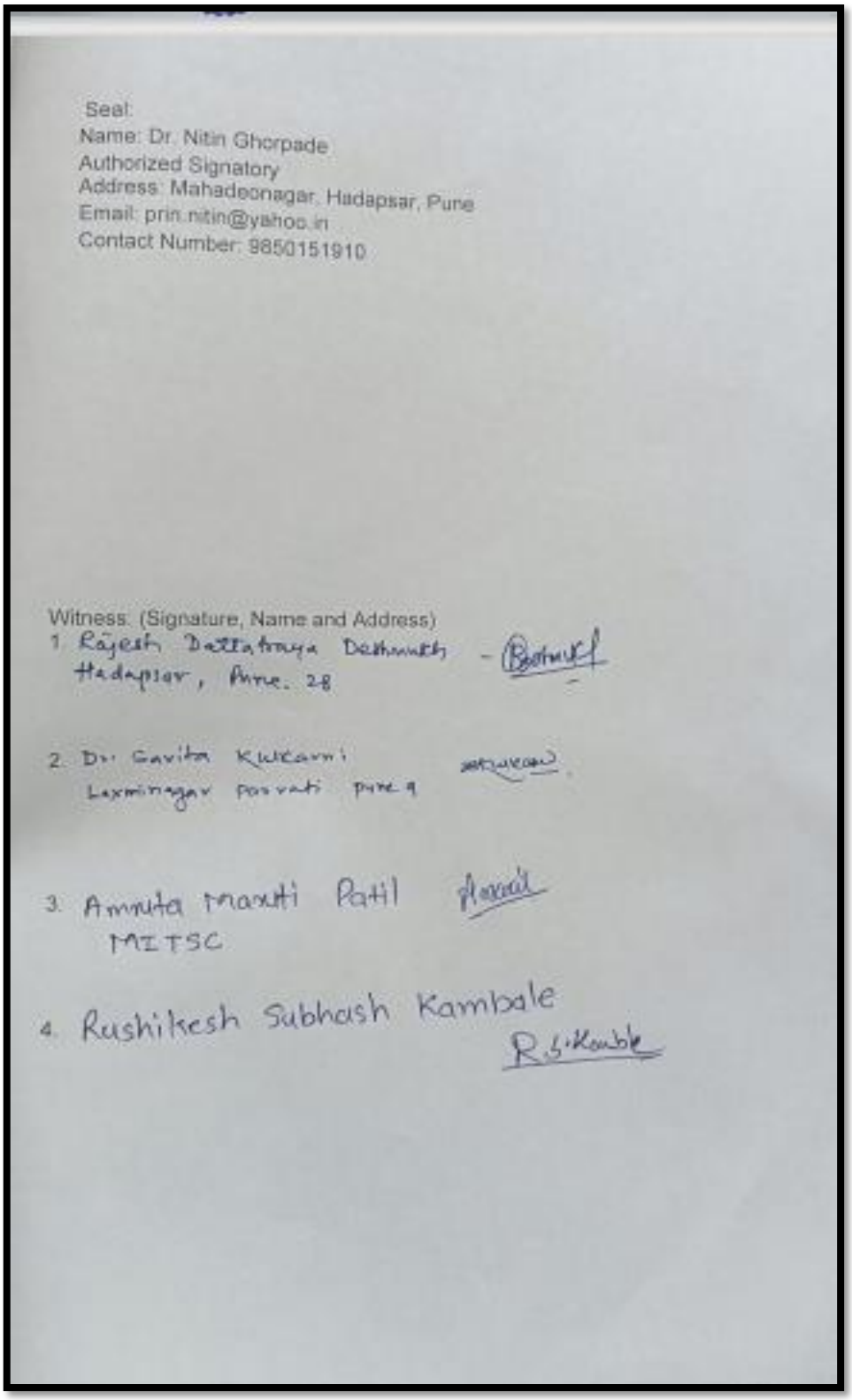

Seal:
Name: Dr. Nitin Ghorpade
Authorized Signatory
Address: Mahadeonagar, Hadapsar, Pune
Email: prin.nitin@yahoo.in
Contact Number: 9850151910

Witness: (Signature, Name and Address)

1. Rajesh Dattatraya Deshmukh
   Hadapsar, Pune. 28

2. Dr. Savita Kulkarni
   Laxminagar Parvati Pune 9

3. Amruta Maruti Patil
   MITSC

4. Rushikesh Subhash Kamble

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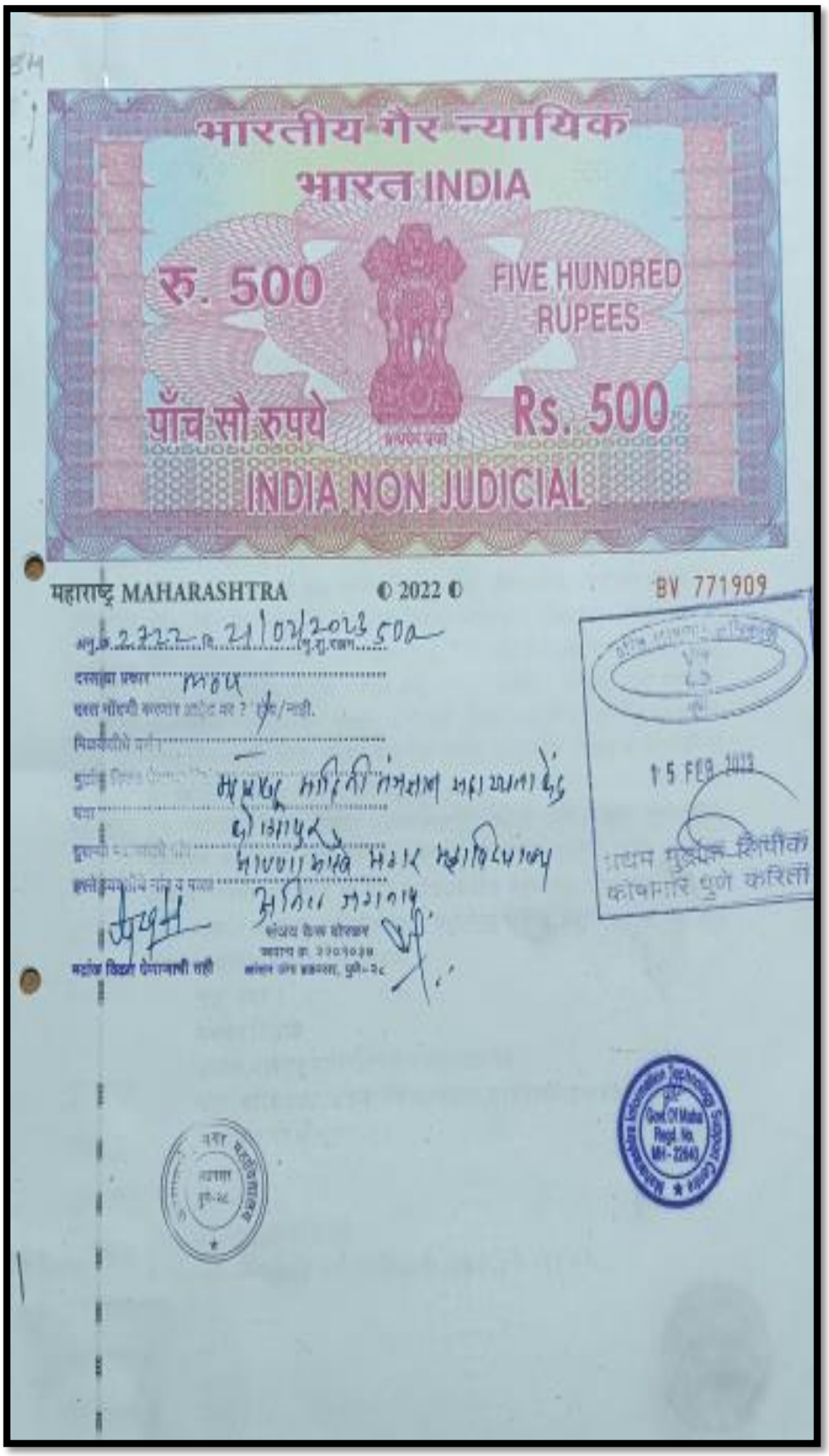

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पार्श्वभूमी:

महाराष्ट्रराज्य उच्च व तंत्रशिक्षण विभागच महाराष्ट्र माहितीतंत्रज्ञान सहाय्यता केंद्रयांच्या संयुक्त विद्यमाने सुरू असणाऱ्या करिअरकट्टा या उपक्रमांतर्गत युवकांच्या करिअरला योग्य दिशा देण्याच्या उद्देशाने राज्यातल्या निवडक महाविद्यालयांमध्ये "CENTER OF EXCELLENCE" उभे केले जाणार आहेत. या पाठीमागील महत्वाची भूमिका अशीकी,राज्यांमध्ये स्पर्धा परीक्षेच्या तयारीसाठी मोठ्या प्रमाणात मुले शहरी भागांमध्ये स्थलांतरित होत असतात. जीवनातील उमेदीच्या काळातील अनेक वर्ष केवळ स्पर्धापरीक्षेच्या तयारीसाठी घरापासून, गावापासून, पालकांपासून लांब राहणाऱ्या मुलांमध्ये मोठ्याप्रमाणात नैराश्याचे वातावरण तयार होते. याचे प्रमाण राज्यांमध्ये लाखोंच्या घरात आहे. खाजगी प्रशिक्षण संस्थांचे उद्देश वेगवेगळे असल्यामुळे सरसकट सर्व मुलांना प्रोत्साहन देऊन यामध्ये गुंतवून ठेवण्याचा एक प्रयत्न होत असतो आणि मोठ्या प्रमाणात ग्रामीण भागातील पालक व विद्यार्थी या दुष्टचक्रात अडकतात. स्पर्धा परीक्षेचे नियोजन करत असताना स्वत:च्या करिअरसाठी एक "प्लॅनबी" देखील तितका सक्षमपणे तयार ठेवला पाहिजे आणि एका योग्य वयानंतर करिअरचा मार्ग बदलून योग्य निर्णय घेतला पाहिजे, याचे मार्गदर्शन देण्याची यंत्रणा उभे करणे हा सेंटर स्थापनेमागील महत्त्वाचा उद्देश आहे. याबाबत कट्ट्याअंतर्गत **महाराष्ट्र माहितीतंत्रज्ञान सहाय्यता केंद्र** व **महाविद्यालयांच्या** मध्ये असणारा सामंजस्य करार पुढीलप्रमाणे:

पार्टी नंबर १
यशवंत शितोळे
अध्यक्ष,महाराष्ट्र माहितीतंत्रज्ञान सहाय्यताकेंद्र
पत्ता: करिअरकट्टा,महिला बँक तळमजला,खासबागमैदानाजवळ,
मंगळवार पेठ,कोल्हापूर-१२

पार्टी नंबर २
डॉ.नितीन घोरपडे,प्राचार्य
पत्ता: अण्णासाहेब मगर महाविद्यालय,हडपसर,पुणे-४११ ०२८.

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संकल्पना:

महाराष्ट्रराज्यशासनाकडूनसध्याराज्यभरामध्येसहाठिकाणी "Pre IAS Training" सेंटरच्या माध्यमातून740 विद्यार्थ्यांच्या निवासी प्रशिक्षणाची योजना अस्तित्वात आहे.करिअर कट्ट्याच्या माध्यमातून राज्यभरामध्ये10,000विद्यार्थ्यांच्या स्पर्धापरीक्षेच्या तयारीसाठीची व्यवस्था निर्माण करणे तसेच राज्यातील महाविद्यालयांमध्ये उद्योजकीय संस्कारपद्धा वेतव उद्योग-व्यवसाय निर्माण करणारी युवापिढी पुढे यावी, या उद्देशाने 5000 युवाउद्योजकांना महाविद्यालयीन स्तरावर उद्योजकीय विकासासाठी आवश्यक कार्यालयीन व्यवस्था उपलब्ध करून देण्यात येईल. "CENTER OF EXCELLENCE" च्या माध्यमातून विद्यार्थ्यांचे शहरातील स्थलांतर कमी करण्याचा तसेच नगण्य शुल्क आकारुन विद्यार्थी आणि पालकांना स्थानिक पातळीवर राष्ट्रीय आणि आंतरराष्ट्रीयस्तरावरील तज्ञ व्यक्तींचे मार्गदर्शन उपलब्ध करून देणे, विद्यार्थी व पालकांसाठी तज्ञांकडून समुपदेशन केले जाईल. उद्योगक्षेत्रामध्ये तसेच व्यावसायिक क्षेत्रांमध्ये ज्यांनी आपलं कर्तृत्व सिद्ध केले आहे, अशा कर्तृत्वसंपन्न व्यक्तीच्या मार्गदर्शनाखाली, नियंत्रणाखाली CENTER OF EXCELLENCE कार्यरतराहील.

1) स्पर्धा परीक्षा पूर्वतयारी व अभ्यासिका:

महाराष्ट्रातील विद्यार्थ्यांचे MPSC परीक्षेसाठी तयारीचे प्रमाण व UPSC, केंद्रशासनाच्या वेगवेगळ्या नोकऱ्यांसाठी असणारे प्रमाण बघता महाराष्ट्रीयन विद्यार्थी तुलनात्मक दृष्ट्या केंद्रशासनाच्या नोकरीमध्ये कमी प्रमाणात तयारी करत असल्याचे लक्षात येते. यासाठी SSC & SSB याची माहिती विद्यार्थ्यांना योग्यवेळी झाली पाहिजे, त्याच्या तयारीसाठी अभ्यासवर्ग व प्रशिक्षण उपलब्ध झाले पाहिजे तसेच हे सर्व करत असताना त्याच्या राहत्या ठिकाणापासून शक्य तितक्या जवळ यागोष्टी उपलब्ध होतील, यासाठी प्रयत्न करणे आवश्यक आहे. जास्त विद्यार्थी संख्या असणाऱ्या महाविद्यालयांमध्ये१००विद्यार्थ्यांची अभ्यासिका जी पूर्णवेळ विद्यार्थ्यांसाठी उपलब्ध असेल. सदर अभ्यासिकेमध्ये ऑनलाईन लेक्चरची सुविधा असेल ज्यामध्ये केंद्रीयपद्धतीने संपूर्ण राज्यात एकाचवेळेला सर्व प्रशिक्षणकेंद्रामध्ये तज्ञ व्यक्तींचे मार्गदर्शन उपलब्ध करून दिले जाईल. आवश्यकता भासल्यास दिल्ली, मुंबई, पुणे याठिकाणच्या तज्ञ व अनुभवी प्रशिक्षकांची नियुक्ती देखील करण्यात येईल.

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CENTER OF EXCELLENCE या प्रशिक्षणकेंद्राच्या माध्यमातून विद्यार्थ्यांना सदर भरती प्रक्रियेसाठी निघालेल्या जाहिरातीची माहिती देणे, योग्य पद्धतीने कागदपत्रांची पूर्तता करून घेणे, त्यांचे फॉर्मभरणे आणि परीक्षेची पूर्वतयारी करून घेणे तसेच ज्याज्या ठिकाणी आवश्यकता आहे त्याठिकाणी तज्ञव्यक्तींकडून मुलाखतीची तयारी करून घेणे यापद्धतीचे उपक्रम राबवले जातील. वेगवेगळ्या परीक्षांचे फॉर्म भरण्यासाठी विद्यार्थ्यांसाठी सुविधाकेंद्र उपलब्ध असेल. विद्यार्थ्यांच्या ऑनलाईन समुपदेशनासाठी सोय असेल. विद्यार्थी व पालकांची मागणी असल्यास समुपदेशनासाठी स्वतंत्र सेशनचे नियोजन करण्यात येईल. विद्यार्थ्यांच्या बौद्धिक व शारीरिक क्षमतेचा विचार करता त्यांना स्पर्धापरीक्षा ऐवजी अन्य क्षेत्रामध्ये उत्कृष्ट कामगिरी करणे शक्य असल्यास याबाबत देखील मार्गदर्शन केले जाईल.

- गुणवत्ता व नियंत्रण:

1)1000 पेक्षा जास्त विद्यार्थी संख्या असलेल्या महाविद्यालयांमध्ये तसेच ज्या परिसरामध्ये एक1500पेक्षा जास्त विद्यार्थी पदवीच्या पहिल्या वर्षाला असतील त्या परिसरामध्ये CENTER OF EXCELLENCE उभारण्यात येतआहे.

2) या सेंटरमध्ये 100 विद्यार्थी एकाच वेळी अभ्यास करू शकतील, अशी अभ्यासिकेची रचना करण्यात येईल. त्यासाठी लागणारे बेंचेस, लेक्चरसाठीचेinteractive board असतील.

3) सोबत Common Facility Center असेल ज्या मध्ये संगणक उपलब्ध करून विद्यार्थी आपले कागदपत्र स्कॅन करणे, परीक्षेचे फॉर्म भरणे, हॉलतिकीट generate करणे, प्रिंट काढणे या सोयी असतील.

4) यासेंटरमध्ये SSC/SSB/UPSC/MPSC या सर्व स्पर्धापरीक्षेचे प्रशिक्षण चालतील व इतरवेळेला विद्यार्थी अभ्यासिकेत बसून स्वयंअध्ययन करतील.

5) अभ्यासिका सकाळी 06.00 ते संध्याकाळी 08.00 वाजेपर्यंत चालू असेल. यामध्ये संध्याकाळी 05.00ते08.00 online प्रशिक्षणअसेल.

6) अभ्यासिकेचा मासिकखर्च निघावा यासाठी अग्रणी महाविद्यालय काही शुल्क करू शकतील, पण यामाध्यमातून शुल्क ठरवत असताना क्लस्टरमध्ये येणाऱ्या महाविद्यालयाचे प्राचार्य व समन्वयकयांशी सल्ला-मसलत करून ठरवावे.

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7) या सेंटरमध्ये विद्यार्थ्यांच्या अभ्यासावर असा फोकस असेल त्याचप्रमाणे त्या विद्यार्थ्यांच्या मानसिकतेकडेही लक्ष देण्यात येईल. यासाठी विद्यार्थ्यांची Psychology Test घेण्यात येईल. यातून तो विद्यार्थी कोणत्या स्पर्धा परीक्षेसाठी तयार आहे हे कळेल. ऑनलाइन समुपदेशनाच्या माध्यमातून पालकांना आणि विद्यार्थ्यांना समुपदेशन करतील. परंतु कोणाला वैयक्तिक समुपदेशन हवे असल्यास पालकांच्या मागणीप्रमाणे वैयक्तिक समुपदेशनही करण्यात येईल.

२) उद्योजकता विकास केंद्र:

राज्यात सद्यस्थितीला उद्योजकीय कौशल्यवाढीसाठी आवश्यक अशी व्यवस्था अस्तित्वात नाही. Entrepreneurship Development Cell, Incubation Center हे प्रत्येक महाविद्यालयामध्ये असावे असा राज्य व केंद्रशासनाच्या धोरणांमध्ये झालेल्या बदल विचारात घेता महाविद्यालयीन व्यवस्थापन, प्राध्यापक, प्राचार्य यांच्या पर्यंत हा विचार प्रभावीपणे पोहोचवणे आणि उद्योग क्षेत्रातील यशस्वी उद्योजकांच्या, संबंधित प्रशासकीय अधिकाऱ्यांच्या व बँक प्रशासनाच्या माध्यमातून महाविद्यालयीन स्तरावरील विद्यार्थ्यांसाठी योग्य ते मार्गदर्शन उपलब्ध करून देणे, त्यांचा उद्योजकीय विकासाला चालना देणे या उद्देशाने महाविद्यालयीन स्तराबर प्रत्येक सेंटरमध्ये 50 विद्यार्थ्यांच्या Student Start-up च्या कामकाजासाठी कार्यालयीन व्यवस्था उपलब्ध करून देणे हा CENTREOF EXCELLENCE चा महत्त्वाचा उद्देश आहे.

विद्यार्थ्यांच्या उद्योजकीय संकल्पनांना विस्तारणासाठी आवश्यक असणाऱ्या व्यावसायिक सल्लागार व्यक्तींची उपलब्धता विद्यार्थ्यांना करून देणे,राष्ट्रीय-आंतरराष्ट्रीय पातळीवर चालणाऱ्या उद्योजकीय बदलांविषयी, तंत्रज्ञानाविषयी आणि कायद्याविषयी त्यांना वेळोवेळी माहिती उपलब्ध करून देणे, विद्यार्थी आणि उद्योजक यांचा सातत्याने संवाद आयोजित करून त्या माध्यमातून उद्योगजगतातील घडामोडी विद्यार्थ्यांपर्यंत पोहोचवत असतानाच त्यांना सविस्तर मार्गदर्शन करण्यासाठी CENTER OF EXCELLENCE कार्यरत असेल. विद्यार्थ्यांच्या राजकीय नेतृत्वाच्या विकासासाठी विद्यार्थी संसद ज्या पद्धतीने कार्य करते त्याच पद्धतीने उद्योजकीय नेतृत्वविकासासाठी प्रत्येक सेंटरमध्ये "Student Start-up Company" नोंदणीकृत असेल आणि विद्यार्थी संसदेमधील मंत्रिमंडळाप्रमाणेच या कंपनीमधील व्यवस्थापकीय प्रमुख, आर्थिकव्यवस्थापक प्रमुख,यापद्धतीच्या वेगवेगळ्या पदांवर काम करण्याचा अनुभव विद्यार्थ्यांना यावा यासाठी Student Start-up लागती देण्यात येईल.

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- उद्देश:

1) जे विद्यार्थी स्पर्धापरीक्षा पास होऊ शकत नाहीत त्या विद्यार्थ्यांसाठी या सेंटरमध्ये उद्योजकता विकास हा उपक्रम राबविण्यात येईल.

2) यामध्ये 50 विद्यार्थ्यांना ऑफिस चालवण्यासाठी लागणारा set up उपलब्ध करून देण्यात येईल. त्यामध्ये conference room, desk व इतर सुविधा उपलब्ध करून दिल्या जातील.

3) 1 वर्ष हे विद्यार्थी student start up म्हणून काम करतील. या विद्यार्थ्यांपैकी जे विद्यार्थी महाविद्यालयाबरोबर नोंदणी करून स्टार्टअप चालू करणार असतील त्यांना रुपये1,00,000/- देण्यात येतील.

4) महाविद्यालयाला लागणाऱ्या सुविधा उपलब्ध करणे, ग्रामीण भागातील वस्तू शहरीभागात उपलब्ध करून देणे व शहरी भागातील वस्तू ग्रामीणभागात उपलब्ध करून देणे याप्रक्रियेमुळे एक Interconnected Hub निर्माण होऊ शकते व यातूनच विद्यार्थी उद्योग कसा करावा, हे समजू शिकतील.

5) या मध्ये जे विद्यार्थी प्रत्यक्ष कार्यानुभव घेतील त्यांना अनुभवप्रमाणपत्र देण्यात येईल.

6)यामध्ये विद्यार्थी Branding, Packaging, logo making, Service provider model, IPR formalities, Time management, decision making या सर्व गोष्टी शिकतील.

- गुणवत्ता व नियंत्रण:

1) या सगळ्या प्रक्रियेवर नियंत्रण ठेवण्यासाठी त्या भागातील प्रसिद्ध उद्योजक सल्लागार समितीवर कार्यरत असतील.

2) विद्यार्थ्यांसाठी आठवड्यातून एकदा मार्गदर्शन करण्यात येईल,ज्यामध्ये-पहिला आठवडा:- बँकेच्या अधिकारी बँकांच्या योजना सांगतील.

दुसराआठवडा:- जिल्ह्यातील उद्योगकेंद्राचे अधिकारी मार्गदर्शन शासकीय योजना सांगतील.

तिसराआठवडा:- प्रायव्हेट कन्सल्टंट यांचे मार्गदर्शन करतील.

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चौथाआठवडा:- आंतरराष्ट्रीय उद्योजक ऑनलाईन मार्गदर्शन करतील.

- नियम व अटी:

1) क्लस्टरमध्ये सहभागी असणाऱ्या सर्व महाविद्यालयातील पदवीच्या प्रथमवर्षाला प्रवेश घेणारे सर्व विद्यार्थी करिअर कट्ट्याला नोंदणी करणे आवश्यक आहे, याची जबाबदारी अग्रणी महाविद्यालयाच्या समन्वयकांची असेल.

2) CENTER OF EXCELLENCE चे निर्णय घेत असताना क्लस्टरमध्ये सहभागी महाविद्यालय समन्वयक व प्राचार्य, तसेच अग्रणी महाविद्यालयाचे समन्वयक प्राचार्य,त्या जिल्ह्याचे प्राचार्य प्रवर्तक तसेच जिल्हासमन्वयक, भागातील एक यशस्वी उद्योजक, निवृत्त प्रशासकीय अधिकारी व विद्यार्थी प्रतिनिधी यासर्वांचा समावेश असलेल्या स्थानिक नियामक मंडळाच्या बैठकीत संगणमताने घेण्यात यावेत.

CENTER OF EXCELLENCE नियामकमंडळ:

1) प्राचार्य प्रवर्तक

2) जिल्हासमन्वयक

3) क्लस्टर मधील सहभागी महाविद्यालयाचे प्राचार्य

4) क्लस्टर मधील सहभागी महाविद्यालयाचे समन्वयक

5) अग्रणी महाविद्यालयाचे प्राचार्य

6) अग्रणी महाविद्यालयाचे समन्वयक

7) यशस्वीउद्योजक

8) निवृत्त प्रशासकीय अधिकारी

9) विद्यार्थीप्रतिनिधी

3) करिअरकट्ट्याअंतर्गत CENTER OF EXCELLENCE चालवत असताना100 विद्यार्थ्यांसाठी अभ्यासिका उभी करण्यासाठी जो₹10,00,000/- निधी दिला जाणार आहे. त्याची वितरण नियमावली पुढीलप्रमाणे-

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1) प्रतिवर्षी20% (₹2,00,000) या पद्धतीने निधी वितरण होईल.

2)पुस्तके, फर्निचर, डिजिटलसाधनसामग्री (interactive board/sound system) याचा प्राधान्यक्रम ठरवण्याचा अधिकार महाविद्यालयाचा असेल.

3) निधी वितरित करत असताना क्लस्टरमध्ये असलेल्या करिअरकट्टा मधील सहभागी असणाऱ्या विद्यार्थी संख्येवर निधीवितरणाचे गुणोत्तर अवलंबून असेल.

4) करिअरकट्ट्याकडून केंद्रीय पद्धतीने वस्तू खरेदी करून महाविद्यालयास वितरित केल्या जातील, यासाठी करिअरकट्ट्याने स्थापन केलेली खरेदी समिती निर्णय घेईल.

5)CENTER OF EXCELLENCE साठीदिलेलीजागा (अभ्यासिका/ Incubation Center) ही पूर्ण वेळ त्याच उद्देशासाठी वापरली जाणे आवश्यक आहे.

6) CENTER OF EXCELLENCE मध्ये प्रवेश घेणाऱ्या विद्यार्थ्यांचे प्रमाण हे खालीलप्रमाणे:

50% जागा या अग्रणी महाविद्यालयातील विद्यार्थ्यांसाठी,

20% जागा या pass out विद्यार्थ्यांसाठी,

30% जागा या आजूबाजूच्या महाविद्यालयातील विद्यार्थ्यांसाठी असतील.

7) CENTER OF EXCELLENCE अंतर्गत स्थापन करण्यात येणाऱ्या Incubation Center साठी क्लस्टरमधून नियमकमंडळाने 15 विद्यार्थ्यांची निवड स्टुडन्ट स्टार्टअप कंपनीचे पदाधिकारी म्हणून करावी.

8) Incubation Center चे पदाधिकारी म्हणून निवडलेल्या विद्यार्थ्यांच्या नियोजित व्यवसायाची निवड करण्यासाठी नियामकमंडळ व निवडलेले पदाधिकारी यांनी वेगवेगळ्या संकल्पनांचे सादरीकरण घेऊन त्यामधून एका व्यवसायाची निवड करावी.

9) सदर निधीमधील 15टक्के भाग हा व्यवस्थापकीय खर्चावर खर्च करता येईल उर्वरित 85% भाग हा व्यवसायाचे मुख्य उद्दिष्टपूर्ण करण्यासाठी वापरला जाणे आवश्यक आहे.

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10) सदर व्यवसाय करत असताना महाविद्यालय करिअरकट्टा यांची आर्थिकजबाबदारी उपलब्ध करुन दिलेल्या मांडवली इतकीच मर्यादित राहील. याव्यतिरिक्त कोणत्याही पद्धतीची आर्थिक जबाबदारी/ दायित्व व्यवसायातून पदाधिकाऱ्यांनी निर्माण केल्यास त्याची जबाबदारी त्यांची वैयक्तिक राहील.

11) CENTER OF EXCELLENCE अंतर्गतयेणाऱ्याIncubation Center ला नियमकमंडळांनी मान्यता दिलेल्या व्यवसायासाठी कोणत्याही पद्धतीचे कर्ज घेता येणार नाही.

12) महाविद्यालयाच्या आवारामध्ये व्यवसाय करत असताना त्या व्यवसायाचा कोणत्याही पद्धतीचा त्रास महाविद्यालयाच्या नियमित कामकाजास होणार नाही याची दक्षता व पदाधिकाऱ्यांनी घ्यावयाची आहे, तसेच सदर व्यवसाय करत असताना कोणत्याही समाजविघातक गोष्टींना प्रोत्साहन मिळेल अशा बाबींचा समावेश व्यवसायामध्ये असू नये.

13) मागील वर्षी दिलेला निधी वापरून केलेल्या व्यवसायातून काही नफा निवडलेल्या पदाधिकाऱ्यांनी मिळवला असल्यास त्याचे वितरण तीन समान भागांमध्ये करण्यात येईल यामध्ये विद्यार्थी पदाधिकारी, करिअरकट्टा व महाविद्यालयांचा समावेश असेल.

14) सदर निधी वापरून केलेल्या व्यवसायामध्ये 100% तोटा झाल्यास कोणत्याही पद्धतीची वसुली विद्यार्थी पदाधिकारी किंवा महाविद्यालयांच्याकडून केली जाणार नाही, तसेच पुढच्या वर्षी दिल्या जाणाऱ्या निधीवर त्याचा कोणताही नकारात्मक परिणाम होणार नाही.

15) महाविद्यालयाच्या प्रयत्नांमुळे सदर विद्यार्थ्यांनी केलेले व्यवसायामध्ये झालेल्या नफ्यातील करिअरकट्ट्याला मिळालेल्या नफ्याच्या हिश्यातील 50 % रक्कम पुढील वर्षी दिल्या जाणाऱ्या1,00,000रुपये निधीमध्ये वाढवून दिले जातील.

16) सदर व्यवसाय करत असताना विद्यार्थ्यांना व्यवसायासाठी आवश्यक कायदेशीर बाबी, बाजारपेठेची माहिती, तसेच आर्थिकव्यवहार करत असताना घ्यावयाची काळजी याविषयी त्यांना सुरुवातीलाच प्रशिक्षण देण्याची व्यवस्था करण्यात येईल.

17) Revenue generate झाल्यावर त्यातील काही भाग लीड महा[illegible] असेल.

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18) CSR/उद्योगमंत्रालय/Skill development याचा Additional fund महाविद्यालयाना उपलब्ध करुन देण्याचा प्रयत्न असेल.

19) महाविद्यालयाच्या प्राधान्याप्रमाणे त्यांचे सभा घेऊन, त्यांची गरज पाहुन त्यांना सेंटर चालू करण्यासाठी लागणारी उपकरणे उपलब्ध करुन दिली जातील.

वरीलप्रमाणे सर्व प्रक्रिया पूर्ण करुन परिसरातील विद्यार्थ्यांमध्ये स्पर्धापरीक्षा विषयी तसेच उद्योजकता विकास विषयी योग्यप्रशिक्षण देण्याच्या उद्देशाने सेंटर चालवत असताना महाविद्यालय व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यताकेंद्र यांच्या जबाबदाऱ्या पुढील प्रमाणे राहतील:

*** MITSC ची जबाबदारी:**

१) सेंटर ऑफ एक्सलन्स मध्ये सहभागी असणाऱ्या अग्रणी महाविद्यालयांना फर्निचर, पुस्तके, डिजीटल साधनसामग्री (Interactive Board, sound systems) साठी उपलब्ध करुन देणे,निधी उपलब्ध करुन देणे.

२) सेंटर ऑफ एक्सलन्स मधील कामकाज सुरळीत चालण्यासाठी आवश्यकत्या भेटी देणे.

३)सेंटर ऑफ एक्सलन्स मध्ये चालणाऱ्या कामकाजांवर नियमन आणि नियंत्रण ठेवणे.

४) सेंटर ऑफ एक्सलन्समधील विद्यार्थ्यांच्यासाठी ऑनलाईन पद्धतीने सर्व पद्धतीचे प्रशिक्षक उपलब्ध करुन देणे.

५) सेंटर ऑफ एक्सलन्स आणि शासन/ विभाग यामध्ये समन्वयक म्हणून कार्य करणे.

६) महाविद्यालयाने नेमेलेल्या सेंटर ऑफ एक्सलन्स समितीच्या सभा घेणे आणि आवश्यक तेथे निर्णयांस सहाय्य करणे.

७) सेंटर ऑफ एक्सलन्ससाठी उपलब्ध करुन दिलेल्या निधीचा वापर योग्य त्या कारणासाठी/ उद्देशपूर्तीसाठी होण्याकरिता यावर नियंत्रण ठेवणे.

८) विद्यार्थ्यांच्या सर्वांगीण हितासाठी आवश्यक असे विद्यार्थी हिताचे निर्णय घेणे.

MOU Agreement

*** महाविद्यालयाची जबाबदारी:**

१) सेंटर ऑफ एक्सलन्समध्ये सहभागी असणाऱ्या अग्रणी महाविद्यालयातील पदवीच्या प्रथमवर्षाला प्रवेश घेणाऱ्या सर्व विद्यार्थ्यांनी करिअरकट्ट्याची नोंदणी करुन घेण्याची जबाबदारी अग्रणी महाविद्यालयाची असेल.

२) सेंटर ऑफ एक्सलन्ससाठी आवश्यक अशा अभ्यासिका, Common Facility Center, Entrepreneurship Development Cell/ Incubation Center तयार करुन घेणे आणि त्याचापूर्ण वेळ·वापरत्याचकामासाठीकरणे.

४) सेंटर ऑफ एक्सलन्स साठी करिअरकट्ट्यामार्फत दिलेल्या साहित्याची (फर्निचर, पुस्तके, डिजीटलसाधनसामग्री (Interactive Board, sound systems) देखभाल आणि आवश्कतेनुसार दुरुस्ती करणे.

५) करिअरकट्ट्यामार्फत वेळोवेळी मागवले जाणारे विविध रिपोर्ट वेळेत सादर करणे.

६) करिअरकट्ट्याने ठरवून दिल्याप्रमाणे सेंटर ऑफ एक्सलन्ससाठी समिती नेमणे, त्यांच्या नियमित सभा घेणे आणि त्याविषयी वेळोवेळी माहिती देणे.

७) अग्रणी महाविद्यालयाने परिसरातील इतर महाविद्यालये आणि करिअरकट्टा यामध्ये समन्वयक म्हणून काम करणे.

८) करिअरकट्ट्यातंर्गत सेंटर ऑफ एक्सलन्स सुरु करणेसाठी महाविद्यालयाच्या संस्थेची परवानगी आणि इतर बाबींची पूर्तता करुन घेणे.

कालावधी:

सदर सामंजस्य करार नोंदणी तारखेपासून ६०महिन्याच्या कालावधीसाठी आहे.

न्यायालयीन कार्यक्षेत्र:

सदर सामंजस्य करारांतर्गत उद्भवलेल्या कोणत्याही कायदेशीर समस्येसाठी न्यायालयीन प्रक्रियेसाठी कोल्हापूर जिल्हा न्यायालय हे कार्यक्षेत्र असेल.

MOU Agreement

दुरुस्ती व बदल :

सदर सामंजस्य करारांतर्गत नियम अटी व कार्यपद्धतीमध्ये काळानुरूप विद्यार्थीहितासाठी काही बदल करावयाचे झाल्यास दोघांच्या संमतीने स्वतंत्र परिशिष्टाचा समावेश करून बदल करता येतील.

पार्टी नंबर १

यशवंत शितोळे
अध्यक्ष,महाराष्ट्र माहितीतंत्रज्ञान सहाय्यताकेंद्र

पार्टी नंबर २

डॉ.नितीन घोरपडे,
प्राचार्य,अण्णासाहेब मगर महाविद्यालय,हडपसर,पुणे-४११ ०२८.

साक्षीदार

1) नाव : जगताप अनिल महादेव

साक्षीदार

2) नाव : डॉ. प्रशांत प्रभाकर मुके

MOU Agreement

सामंजस्य करार

करिअर कट्टा आणि _____ महाविद्यालय

पार्श्वभूमी:

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने सुरु असणाऱ्या करिअर कट्टा या उपक्रमांतर्गत युवकांच्या करिअरला योग्य दिशा देण्याच्या उद्देशाने राज्यातल्या महाविद्यालयांमध्ये "करियर कट्टा" ची स्थापना केली जाणार आहे. या पुढाकाराची महत्वपूर्ण भूमिका अशी की, महाविद्यालयातील युवकांना त्यांच्या उज्ज्वल भवितव्यासाठी आवश्यक त्या दिशा दाखवून त्यावर मार्गक्रमण करून यश संपादन करण्यासाठी सर्वोतोपरी उचित मार्गदर्शन मिळावे याकरिता समर्पित कार्य करणे आवश्यक आहे. महाविद्यालय आणि महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या समन्वयातून विद्यार्थ्यांना भवितव्याविषयी गांभीर्याने विचार करण्याकरिता प्रेरित करावे, कौशल्य विकसित आत्मनिर्भर पिढी घडविणे, स्पर्धा परीक्षा, उद्योजकता विकास, व्यवसाय निर्मिती, व्यक्तिमत्व विकास आदी संदर्भात तज्ञ मार्गदर्शकांचे विचार प्रत्येक विद्यार्थ्यांपर्यंत पोहोचावे याकरीता सक्षमपणे नियोजन करून योग्य मार्गदर्शन देण्याची यंत्रणा उभी करणे अत्यावश्यक आहे. याबाबत करिअर कट्ट्याअंतर्गत महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र व श्री शिवाजी विज्ञान महाविद्यालय, अमरावती यांच्यामध्ये असणारा सामंजस्य करार पुढील प्रमाणे:

पार्टी नंबर १:

श्री यशवंत शितोळे

अध्यक्ष

महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र

पत्ता: करिअर कट्टा, महिला बँक तळमजला, खासबाग मैदानाजवळ,मंगळवार पेठ, कोल्हापूर-१२

पार्टी नंबर २:

प्राचार्यांचे नाव

महाविद्यालयाचे नाव

पत्ता:

उद्देश:

MOU Agreement

महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता कैंद्र यांचा संयुक्त उपक्रम "करिअर कट्टा" महाविद्यालयात स्थापन करणे व या उपक्रमांतर्गत विद्यार्थ्यांच्या दैदिप्यमान कारकिर्दीसाठी एकत्रित प्रयत्न करुन प्रतिभावान युवक घडविणे.

या ध्येयाने प्रेरित विविध उपक्रमांचे नियोजन करण्यात येत आहे. हे सर्व उपक्रम महाविद्यालयांमध्ये राबवण्यासाठीचा सामंजस्य करार करण्यात येत आहे. याकरिता महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता कैंद्र आणि महाविद्यालय परस्परपूरक भुमिका घेतील आणि त्याचे व्यापक परिणाम साधून विद्यार्थ्यांच्या स्वयंप्रकाशी कारकीर्द घडविण्यासाठी योगदान देतील.

करिअर कट्ट्याची जबाबदारी:

1. करिअर विषयक विविध दिशादर्शक मार्गदर्शन सत्रांचे नियोजन करणे.
2. स्पर्धा परीक्षांच्या तयारी साठी सर्वसमावेशक अभ्यासक्रम तयार करुन त्यासाठी विशेष तज्ञ व्यक्तींच्या मार्गदर्शन कोर्सेसची निर्मिती करुन त्याचे डिजिटल कंटेंट उपलब्ध करुन देणे.
3. महाविद्यालयीन युवा कौशल्याधिष्टीत विकसित व्हावे, यासाठी विशेष अभ्यासक्रम तयार करणे व मार्गदर्शक साहित्य उपलब्ध करुन देणे.
4. उद्योजकता विकास करुन व्यवसाय निर्मिती साठी आवश्यक माहिती पुरविणे व व्यवसाय उद्योग सुरु करण्यासाठी साहाय्य करणे.
5. २१ व्या शतकातील अत्यावश्यक कौशल्य धारण करणारा परिपूर्ण युवक घडविण्यासाठी व्यक्तिमत्व विकास संबंधित विशेष उपक्रमांचे आयोजन करणे.

महाविद्यालयाची जबाबदारी:

1. महाविद्यालयातील जास्तीत जास्त विद्यार्थ्यांची करिअर कट्टा उपक्रमात नोंदणी करुन घेणे.
2. करिअर कट्टा द्वारानिर्मित विविध कोर्सेससाठी विद्यार्थ्यांनी प्रवेश घ्यावा यासाठी प्रेरणा शिबीर कार्यक्रम राबविणे.
3. करिअर कट्टा ऑनलाईन कोर्सेसची अंमलबजावणी करण्यासाठी व्यवस्था आणि मनुष्यबळाचे नियोजन करुन अभ्यासक्रम नियमितपणे राबविणे.
4. करिअर कट्टाच्या विशेष अभ्यासक्रमानिमित्त पुरविल्या जाणारे अभ्यास साहीत्य प्रवेशित विद्यार्थ्यांपर्यंत पोहाचविणे.

MOU Agreement

5. करिअर कट्टाच्या उपक्रमांमध्ये विद्यार्थ्यांनी सहभागी होण्यासाठी महाविद्यालय परिसर, समाजमाध्यमे, आणि बर्गखोल्यांमध्ये जागृतीविषयक पुढाकार घेणे.
6. नोंदणीकृत विद्यार्थ्यांच्या नियमित उपस्थितीबाबत वारंवार अहवाल घेऊन उपस्थितीमध्ये सातत्य राहील यासाठी प्रयत्न करणे.
7. विद्यार्थ्यांना आवश्यक असणारे स्थानिक पातळीवरची साधनसामग्री उपलब्ध करून देणे.
8. करिअर कट्टाचे उपक्रम राबविण्यासाठी विद्यार्थ्यांचे स्वतंत्र मंडळ तयार करावे.

Avishkar Research Festival

STUDENT PRTICIPATION IN AVISHKAR COMPETITION

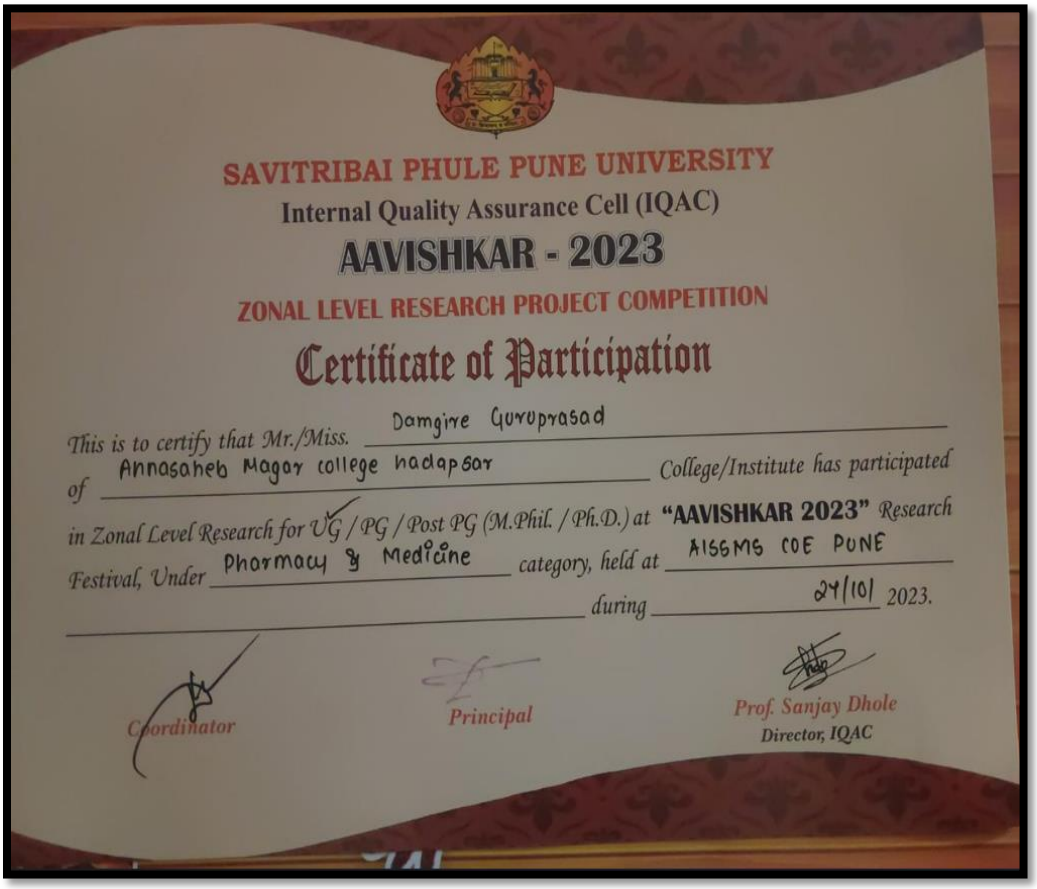
P.D.E.A'S

Savitribai Phule Pune University

Sr. No	District	Puncode	Name of College	Total		
				PG	PPG	Total
136	Pune	CAAP012500	Sinhgad Technical Education Society Nivrutti Babaji Navale College Of Commerce And Science	0	0	0
137	Pune	CAAP012810	Sinhgad College Of Commerce	0	0	6
138	Pune	CAAP012890	Someshwar Science College Someshwarnagar	0	0	0
139	Pune	CAAP012900	Carmel Vidya Bhavan Trust'S Christ College Pune	0	0	0
140	Pune	CAAP012920	Aes'S College Of Computer Science And Management	0	0	2
141	Pune	CAAP012930	Smt Kashibai Navale College Of Commerce	0	0	0
142	Pune	Caap012940	G H Raisoni College Of Arts, Commerce And Science, Wagholi, Pune (An Autonomous Institute)	0	0	0
143	Pune	CAAP012970	Mit Arts, Commerce And Science College	3	0	27
144	Pune	CAAP013030	Arihant College of Arts, Commerce and Science Camp, Pune-01	0	0	0
145	Pune	CAAP013640	Sarhad College Of Arts, Commerce & Science , Katraj Pune	0	0	10
146	Pune	CAAP014120	Annasaheb Magar Mahavidyalaya, Hadapsar	7	7	26
147	Pune	CAAP014230	Dr. D. Y. Patil Arts, Commerce and Science College, Pimpri	49	4	119
148	Pune	CAAP015630	Samarth College Of Computer Science, Belhe(Bangarwadi)	0	0	1
149	Pune	CAAP020810	K.T.S.P.Mandal's Sahebraoji Buttepatil Mahavidyalaya	0	0	0
150	Pune	CAAP020860	Dr. D. Y. Patil Unitech ACS College, Tathawade, Pune-41133	0	0	0
151	Pune	CAAP020990	Pes'S Modern College Of Arts, Science And Commerce, Warje, Pune - 411058.	0	0	0
152	Pune	CAAP021090	Mes Senior College Pune	0	0	0
153	Pune	CAAP10620	Marathwada Mitra Mandal's College Of Commerce Pune	0	0	0
154	Pune	CARP011040	Dr.Bhanuben Nanavati College Of Architecture For Women	1	0	5
155	Pune	CARP011530	Sinhgad Technical Education Society's Sinhgad College of Architecture, Vadgaon (Bk) Pune	0	0	0

Zonal Level Certificates

Certificates



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Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2023

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Certificate of Participation

This is to certify that Mr./Miss. Damgire Guruprasad

of Annasaheb Magar college nadapsar College/Institute has participated

in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Pharmacy & Medicine category, held at AISSMS COE PUNE

during 24/10/ 2023.

Coordinator Principal Prof. Sanjay Dhole
Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

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ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Mane Vishaka

of Annasaheb Magar college nadapsar College/Institute has participated

in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Pharmacy & Medicine category, held at AISSMS COE PUNE

during 24/10/ 2023.

Coordinator Principal Prof. Sanjay Dhole
Director, IQAC

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Certificate of Participation

This is to certify that Mr./Miss. Sakshi Dhamal

of Annasaheb Nagar Hadapsar College/Institute has participated

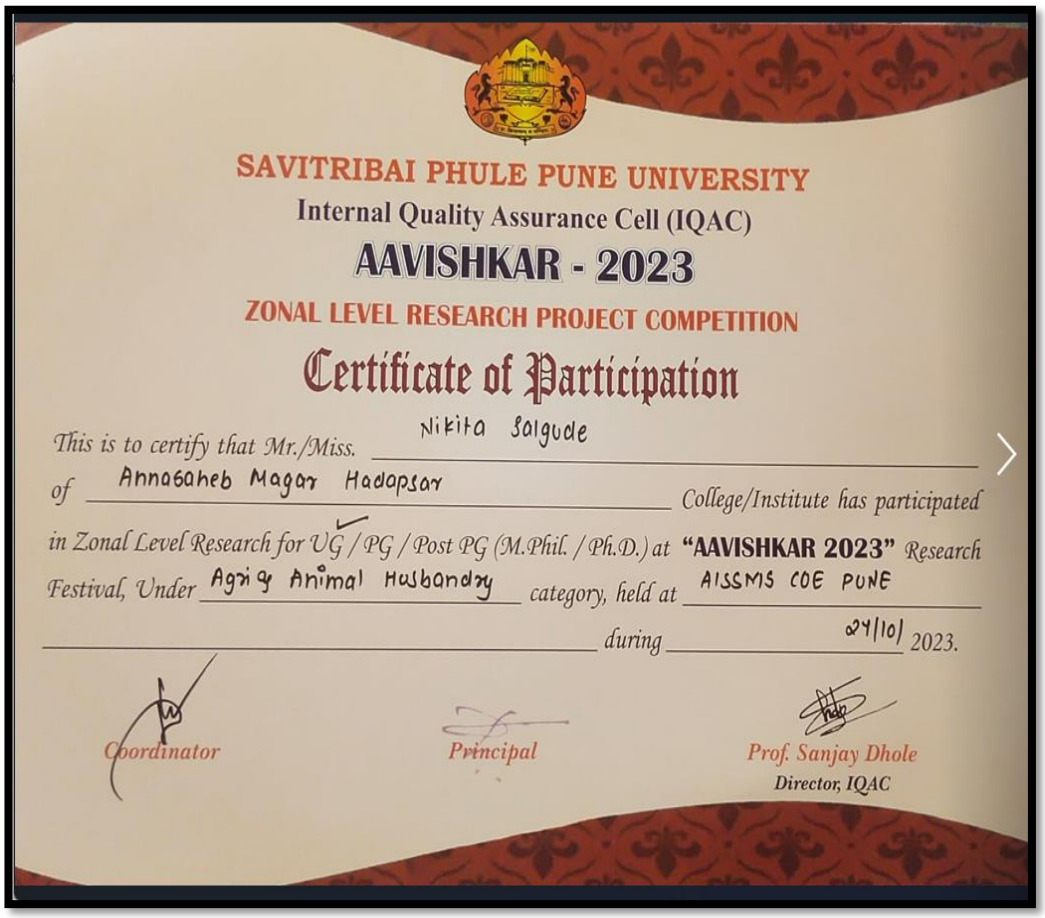
in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Agri & Animal Husbandry category, held at AISSMS COE PUNE

during 24/10/ 2023.

Coordinator Principal Prof. Sanjay Dhole

Director, IQAC



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Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2023

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Nikita Salgude

of Annasaheb Nagar Hadapsar College/Institute has participated

in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Agri & Animal Husbandry category, held at AISSMS COE PUNE

during 24/10/ 2023.

Coordinator Principal Prof. Sanjay Dhole

Director, IQAC

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Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2023

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. mhetre Sonali Suresh

of Annasaheb Magar Mahavidyalay Hadapsar College/Institute has participated

in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Engineering technology category, held at AISSMS COE

during 27/10 2023.

Coordinator Principal

Prof. Sanjay Dhole
Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2023

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Rahil Shaikh

of A.M. College College/Institute has participated

in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research

Festival, Under Engg & Tech category, held at AISSMS COE PUNE

during 27/10/ 2023.

Coordinator Principal

Prof. Sanjay Dhole
Director, IQAC

Certificates

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2023

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Saurabh Iatake

of A.M. College College/Institute has participated in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2023" Research Festival, Under Engg & ~~Agri~~ technology category, held at AISSMS COE PUNE during 24/10/ 2023.

Coordinator Principal Prof. Sanjay Dhole
Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2022

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Tagtap Bhavana Dilip

of Annasaheb Magar Mahavidyalay, Hadapsar, Pune - 28 College/Institute has participated in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2022" Research Festival, Under Pure Science category, held at PES Modern College of ASC - 05 during 8th December. 2022

Coordinator Principal Prof. Sanjay Dhole
Director, IQAC

Certificates

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2022

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Akshay Ashok Rath

of A M college of Science, Hadapsar College/Institute has participated in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2022" Research Festival, Under Engineering & technology category, held at pccoer during 7th Dec 2022

Coordinator Principal Prof. Sanjay Dhole Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY

Internal Quality Assurance Cell (IQAC)

AAVISHKAR - 2022

ZONAL LEVEL RESEARCH PROJECT COMPETITION

Certificate of Participation

This is to certify that Mr./Miss. Tagtap Bhavana Dilip

of Annasaheb Magar Mahavidyalay, Hadapsar, Pune - 28 College/Institute has participated in Zonal Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR 2022" Research Festival, Under Pure Science category, held at PES Modern College of ASC - 05 during 8th December. 2022

Coordinator Principal Prof. Sanjay Dhole Director, IQAC

University Level Certificates

Certificates

SAVITRIBAI PHULE PUNE UNIVERSITY
Internal Quality Assurance Cell (IQAC)
AAVISHKAR - 2022
UNIVERSITY LEVEL RESEARCH PROJECT COMPETITION
Certificate of Participation

This is to certify that Mr./Miss. Jagtap Bhavana Dilip
of _____ College/Institute has participated in University Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR - 2022" Research Festival, Under _____ category, held at _____ on _____ 2022

Prof. Dr. Ravindra Jaybhaye
University Coordinator

Prof. Sanjay Dhole
Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY
Internal Quality Assurance Cell (IQAC)
AAVISHKAR - 2022
UNIVERSITY LEVEL RESEARCH PROJECT COMPETITION
Certificate of Participation

This is to certify that Mr./Miss. Pirjade Aman vahid
of Annasaheb Magar college, PDEA's College/Institute has participated in University Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR - 2022" Research Festival, Under Engineering and Technology category, held at Savitribai phule Pune University, (SPPU) - 411007 on 13 December 2022

Prof. Dr. Ravindra Jaybhaye
University Coordinator

Prof. Sanjay Dhole
Director, IQAC

SAVITRIBAI PHULE PUNE UNIVERSITY
Internal Quality Assurance Cell (IQAC)
AAVISHKAR - 2022
UNIVERSITY LEVEL RESEARCH PROJECT COMPETITION
Certificate of Participation

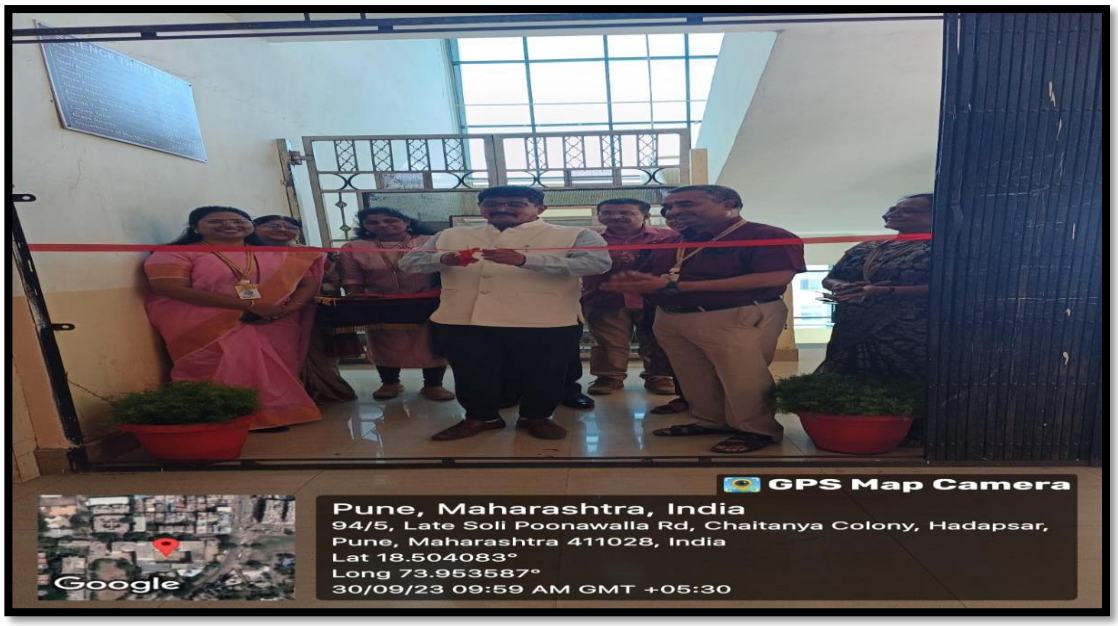
This is to certify that Mr./Miss. Akshay Ashok Rakh
of A.M. College of science Hadapsar College/Institute has participated in University Level Research for UG / PG / Post PG (M.Phil. / Ph.D.) at "AAVISHKAR - 2022" Research Festival, Under Engineering and Technology category, held at Savitribai Phule Pune University on 13th December 2022

Prof. Dr. Ravindra Jaybhaye
University Coordinator

Prof. Sanjay Dhole
Director, IQAC

Avishkar Research Festival Photographs

Photos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