



Date :- 01/08/2024

NOTIFICATION

Sub :- CBCS Syllabi of B. A. in Geography (Sem. I & II)

Ref. :- Decision of the Academic Council at its meeting held on 27/07/2024.

The Syllabi of B. A. in Geography (First and Second Semesters) as per **NATIONAL EDUCATION POLICY – 2020 (2024 Pattern)** and approved by the Academic Council as referred above are hereby notified for implementation with effect from the academic year 2024-25.

Copy of the Syllabi Shall be downloaded from the College Website (www.kcesmjcollege.in)

Sd/-
Chairman,
Board of Studies

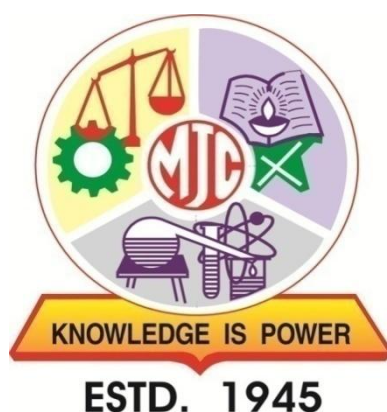
To :

- 1) The Head of the Dept., M. J. College, Jalgaon.
- 2) The office of the COE, M. J. College, Jalgaon.
- 3) The office of the Registrar, M. J. College, Jalgaon.

Knowledge is Power

Khandesh College Education Society's
Moolji Jaitha College, Jalgaon
An "Autonomous College"

Affiliated to
Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon-425001



STRUCTURE AND SYLLABUS

B.A. Honours/Honours with Research (F.Y.B.A. Geography)

Under Choice Based Credit System (CBCS)
and
as per NEP-2020 Guidelines

[w.e.f. Academic Year:2024-25]

Preface

Geography, as a subject, is an ancient discipline that explores the interactions between humans and their environment. Over the years, geography has evolved and incorporated various technological advancements, leading to significant developments in the field. One such noteworthy transformation has been the integration of Remote Sensing (RS), Geographic Information Systems (GIS), and Global Positioning System (GPS) technologies. These cutting-edge tools have revolutionized how geographers collect, analyze, and interpret spatial data, making geography an even more dynamic and relevant subject in contemporary times.

The Department of Geography at M. J. College (Autonomous), Jalgaon, is at the forefront of embracing these recent trends in geography. Through the courses offered, including B.A. Geography, B.Sc. Geography, M.A/M.Sc. Geography, and Ph.D., the department equips students with comprehensive knowledge and practical skills to navigate the complexities of modern geography. Additionally, the Certificate Course in Geoinformatics serves as a valuable platform for students to delve deeper into the applications of RS, GIS, and GPS technologies.

One of the standout characteristics of the Department is its team of expert and qualified faculties. These educators not only possess extensive academic knowledge but also have hands-on experience in utilizing geospatial technologies effectively. Their guidance empowers students to explore and understand the intricacies of geographical phenomena using the latest tools and methodologies.

The Department boasts state-of-the-art facilities, including smart laboratories for practicals, a central library supplemented with a departmental library, and a well-equipped GIS computer lab with internet access. The availability of these resources ensures that students have ample opportunities to engage in hands-on learning and conduct research, contributing to a comprehensive understanding of geographic concepts. Moreover, the Department has been recognized as a research center for Ph.D. studies, encouraging scholarly pursuits in the realm of geography. This designation highlights the institution's commitment to pushing the boundaries of geographical knowledge and fostering innovative research in the field. The integration of technology in geography education is further augmented by the presence of smart classrooms and advanced geographical instruments. These resources enable interactive learning and support students in developing a deep appreciation for the spatial dimensions of various phenomena.

In addition to academic excellence, the Department is devoted to providing specialized coaching for national-level exams such as NET/SET and competitive examinations. This emphasis on exam preparation equips students with the necessary skills to excel in their careers and become leading professionals in the field of geography. The collaboration with the Indian Institute of Remote Sensing (IIRS) as an Outreach Training Program center is a testament to the Department's commitment to keeping abreast of the latest advancements in geospatial technology. This association allows students and faculties to participate in training programs conducted by experts in the field, enhancing their knowledge and skills in RS, GIS, and GPS applications. Furthermore, the Department of Geography at M. J. College (Autonomous), Jalgaon, proudly boasts access to the best telescopes for sky watching. This unique feature provides students with an opportunity to explore celestial phenomena and their connections with the Earth, bridging the gap between the terrestrial and astronomical realms.

Finally, the Department's focus on career opportunities in geography ensures that graduates are well-prepared to enter various professional fields. The interdisciplinary nature of

geography opens doors to careers in environmental management, urban planning, disaster management, cartography, geospatial analysis, and more. The versatility of geography as a subject makes it a rewarding and promising choice for students seeking diverse and impactful career paths.

The Department of Geography at M. J. College (Autonomous), Jalgaon, stands as a vibrant and progressive hub for geography education. The integration of RS, GIS, and GPS technologies, coupled with expert faculty, modern facilities, and extensive research opportunities, equips students to become adept geographers, ready to address the pressing challenges of our ever-changing world.

Programme Specific Outcome (PSO) for B.A. Geography Honours/Honours with Research:

After completion of this course, students are expected to:

PSO No.	PSO
1	Understand the basic ideas and concept of physical and human aspect of Geography
2	Developing, analyzing and mapmaking based on the on the themes and issues of geography.
3	Principle and applications of geospatial techniques like Remote sensing GIS and GPS
4	Use traditional and advance geographical techniques like geospatial for surveying
5	Explain the causes and effects of change over space and time on physical and human environments
6	Improve tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS.

Multiple Entry and Multiple Exit options:

The multiple entry and exit options with the award of UG certificate/ UG diploma/ or three-year degree depending upon the number of credits secured;

Levels	Qualification Title	Credit Requirements		Semester	Year
		Minimum	Maximum		
4.5	UG Certificate	40	44	2	1
5.0	UG Diploma	80	88	4	2
5.5	Three Year Bachelor's Degree	120	132	6	3
6.0	Bachelor's Degree- Honours Or Bachelor's Degree- Honours with Research	160	176	8	4

F. Y. B.A. Structure and Syllabus

Semester	Course Module	Credit	Hours/ week	TH/ PR	Code	Title
I	DSC	2	2	TH	GEOG-DSC-111	Geography of Maharashtra
	DSC	2	4	PR	GEOG-DSC-112	Practical in Maps and Scale
	OE	2	2	TH	GEOG-OE-111	Sky Observation and Solar System
II	DSC	2	2	TH	GEOG-DSC-121	Geography of India
	DSC	2	4	PR	GEOG-DSC-122	Practical in Map Projections
	OE	2	2	TH	GEOG-OE-121	Noise Pollution
	OE	2	4	PR	GEOG-OE-122	Practical in Noise Pollution

DSC : Department-Specific Core course

DSE : Department-Specific elective

GE/OE : Generic/ Open elective

SEC : Skill Enhancement Course

MIN : Minor course

AEC : Ability Enhancement Course

VEC : Value Education Courses

ENG : English

ES : Environmental studies

CI : Constitution of India

IKS : Indian Knowledge System

CC : Co-curricular course

TH : Theory

PR : Practical

SEMESTER - I

F.Y.B.A.
SEMESTER - I
GEOG-DSC-111: Geography of Maharashtra

Total Hours: 30

Credits: 2

Learning objectives	- To understand Maharashtra's geography, administrative divisions, and neighboring States. - To acquaint the student with basic information of physical aspects of Maharashtra State. - To know the climatic condition of Maharashtra State. - To acquaint the student with the resources available in Maharashtra.	
Course outcomes	After successful completion of this course, students are expected to: - Gain knowledge of Maharashtra's geographical and administrative landscape - Student will familiar with prospective of Maharashtra. - Familiarize with the atmospheric characteristics of the Maharashtra State. - Student enhance his knowledge for doing research on Maharashtra's problem and futuristic development plan for Maharashtra	
Unit	Topic Particular	Hours
Unit I	Introduction - Geographical Personality of Maharashtra - Historical Background - Location, Extend and Boundaries - Administrative Divisions - Geological setup	06
Unit II	Physiography and Drainage - Major physiographic Division of Maharashtra- - Konkan - Maharashtra Plateau - Western Ghats - Other Hilly Ranges - Major Rivers of Maharashtra and their tributaries - East flowing Rivers - West flowing Rivers	08
Unit III	Climate, Soil and Natural Vegetation of Maharashtra - Climate of Maharashtra - Soils - Natural Vegetation - Wildlife Sanctuaries - Types and Problems of Agriculture	08
Unit IV	Minerals, Resource and Industries - Introduction - Production and Distribution of Minerals	08

	○ Iron ore ○ Bauxite ○ Coal ● Industries ○ Cotton Textile ○ Sugar ○ Tourism	
Study Resources	● C. D. Deshpande: Geography of Maharashtra ● Dr. S. M. Bhamare 2013: Geography of Maharashtra, Prashant Publication, Jalgaon. ● Jaymala Didee, S. R. Jog, V. S. Kale, V. S. Ditye: Geography of Maharashtra ● K. R. Dixit: Maharashtra in Maps ● Savadi and Keche: Maharashtra ● R. L. Sing 2012: India: A Regional Geography, National Geographical Society of India ● Santosh Dasthane: Maharashtra. (Marathi Medium) ● Subhash Chandra Sarang: Maharashtra Bhugol, Vidya Prakashan, Nagpur. (Marathi Medium) ● Dr. Jaykumar Magar Maharashtra Bhugol. (Marathi Medium) ● Dr. S. D. Bhaise, Dr. D. A. Mhaski: Maharashtra Bhugol, Atharva Publication, Jalgaon (Marathi Medium) ● Government of India.: The Gazetteer of India, Vol. I & II, Publication Division, New Delhi, 1965. ● Government of India: Census of India 2011. ● Sharma, and Coutinho, Economic and Commercial Geography of India. Vikas Publishing House, India, 1998. ● Negi, B. S.: Economic and Commercial Geography of India, Kedarnath Ram nath, New Delhi. ● Tirtha, Ranjit. 2002: Geography of India, Rawat, Jaipur. ● Tata McGraw Atlas: Socio Economic Atlas of India. ● Majid Hussain 2014: Geography of India, McGraw Hill Education (India) Private education, New Delhi.	

F.Y.B.A.
SEMESTER - I
GEOG-DSC112: Practical in Maps and Scale
(Work Load – 15 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	- To acquaint the students with cartographic Techniques. - To study importance of scale in map making. - To study various map making tools and techniques. - To understand Geographical data for map making	
Course outcomes	After successful completion of this course, students are expected to: - Students will have ability cartographic Techniques. - Understand importance implementation in map. - Able to handle map making tools and techniques - Able to prepare map	
Unit	Topic Particular	Hours
Unit I	Map: - Maps and Globe: Meaning, Definition - Elements of Map - Classification and Types of Maps - Importance and use of maps	15
Unit II	Scale - Definition of Scale - Methods of Representing Scales - Verbal scale - Numerical scale - Graphical scale - Conversion of scale (British and Metric system)	15
Unit III	Construction of Scale - Construction of Scales - Simple Graphical Scale - Comparative Scale - Time and Distance Scale (Only Metric System)	15
Unit IV	Maps Making - Distributional Maps - Dot Map - Choropleth Map - Isopleths Map	15
Study Resources	Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi. Negi B. S., 1993: Statistical Geography, Kedarnath Ramnath Co., Meerut Dent B. D., 1999: Cartography: Thematic Map Design, (Vol. 1), McGraw Hill. Gupta K. K and Tyagi V. C., 1992: Working with Maps, Survey	

	of India, DST New Delhi. • Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing. • Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers.	
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F.Y.B.A
Semester I
GEOG-OE-111: Sky Observation and Solar System

Total Hours:30

Credits: 2

Learning objectives	• To introduce about our galaxy. • To introduce orbit system. • To introduce recent techniques & methods for study of sky observation • To give awareness with sky observation telescope	
Course outcomes	After successful completion of this course, students are expected to: • Familiar with our galaxy. • Will know how orbit system. • Knowledge with recent techniques & methods for study of sky observation • Student will aware and handle with sky observation telescope	
Unit	Topic Particular	Hours
Unit I	Introduction astronomy • Meaning and definitions of astronomy • Significance of study of solar system • Meaning, Definitions and Importance of sky observation	07
Unit II	Sky Observation • Ideal conditions for sky observation • Types of telescope and binoculars for sky observation • Steps for sky observation • Lunar Mission in India	09
Unit III	Solar System • Definition and concept of galaxy • Introduction: Solar system • Sun and Moon-Characteristics	07
Unit IV	Composition of Solar System • Star, Orbits and Planets • Asteroids and comets • Interplanetary medium	07
Study Resources	• Dickinson, T., & Dyer, A, 2016: The Backyard Astronomer's Guide (3rd ed.). Firefly Books. • Pasachoff, J. M., & Kutner, M. L. 2017: The Cambridge Guide to the Solar System (2nd ed.). Cambridge University Press. • Cox, B. 2015: Wonders of the Universe. HarperCollins Publishers. • Aguilar, D. A. (Ed.), 2017: The International Atlas of Mars Exploration: Volume 2, 2004 to 2014: From Spirit to Curiosity. Cambridge University Press. • Rothery, D. A. 2015: Mercury. Springer Praxis Books. • Baker, D. 2017: The Science of Astronomy and Space. Chelsea House	

	Publishers. • Sinclair, I 2018: The Complete Guide to the Universe: From the Discovery of the Solar System to Exoplanets, Galaxies, and Beyond. Princeton University Press. • Bell, J. F., &Porco, C. (Eds.). 2016: The Saturn System: Through the Eyes of Cassini. University of Arizona Press. • Beatty, J. K., Petersen, C. C., &Chaikin, A. 2016: The New Solar System (4th ed.). Cambridge University Press. • Moore, P., &Tirion, W. 2016: Astronomy: A Complete Introduction. Teach Yourself.
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SEMESTER – II

F.Y.B.A.
SEMESTER - II
GEOG-DSC-121: Geography of India

Total Hours: 30

Credits: 2

Learning objectives	- To understand India's geography, administrative divisions, and neighboring countries. - To analyze population growth, distribution factors, and sex ratio variations. - To study agricultural geography, crop production, and agro-climatic regions. - To explore mineral resources, energy production, industrial distribution, and regional development strategies.	
Course outcomes	After successful completion of this course, students are expected to: - Gain knowledge of India's geographical and administrative landscape. - Evaluate population trends, demographic patterns, and socio-cultural impacts. - Assess agricultural productivity, crop distribution, and environmental influences. - Understand mineral resources, industrial sectors, and their contribution to regional development.	
Unit	Topic Particular	Hours
Unit I	Introduction - Location, extent and geographical area - Administrative divisions of India - Adjoining countries	7
Unit II	Physiographic division - Drainage - Climate - Natural vegetation - Soil	7
Unit III	Population and Agriculture Population - Growth of population in India Since 1901 - Factors affecting the distribution of population in India (Physical and Cultural) - State – wise Density distribution of Population in India. - Sex Ratio - its regional variation and associate problems of low Sex Ratio. Agriculture: - Study of geographical condition, - Production and distribution of following crops: - Rice, Wheat, Sugarcane, Cotton	8

Unit IV	Mineral and Power Resources • Production and distribution of resources ○ Iron ore ○ Coal ○ Hydel Power ○ Solar Power • Industries: Distribution and Production of following Industries ○ Cotton Textile industries ○ Sugar Industries ○ Major Industrial Belts in India. ○ Industrial Policy of India	8
Study Resources	• Dastane, “Bharat Ek Pahani”, Dastane Ramchandra and Company. • Gharpure V.T. (2004): “Bharatacha Bhugol”, Pimplapure Prakashan, Nagpur (Marathi Medium) • Hussain M. (1992): “Geography of India”, Tata MacGraw Hill Education. • Miller F.P. and et. Al. (2009): “Geography of India”, Alphascript Publishing. • Nag P. and Sengupta S.: “Geography of India”, Concept Publishing Company. • Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. 2017: “Physical Geography of India”, PrashantPublication, Jalgaon (MS). • Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. 2017: “Economic Geography of India”, Prashant Publication, Jalgaon (MS). • PuranikMadhav 2005: “BharatachaBhugol”, VidyaPrakashan, Nagapur. • Rana, Tejbir Singh 2015): “Diversity of India”, R.K. Book, Delhi. • Sandanshiv L.P. and et. al. 2015: “NET/ SET Geography”, Prashant Publication, Jalgaon(Marathi). • innghJasbir, “An Agricultural Atlas of India: A Geographical Analysis”. Tata Mac Graw Hill Education	

F.Y.B.A.
SEMESTER - II
GEOG-DSC-122: Practical in Map Projections
(Work Load – 15 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	- To acquaint the students with cartographic Techniques. - To understand the basic concepts of maps, globes, latitudes, longitudes, and great circles. - To learn the necessity, and classification of map projections. - To develop skills to construct cylindrical and conventional map projections and understand their uses.	
Course outcomes	After successful completion of this course, students are expected to: - Grasp fundamental concepts of maps, globes, and geographic coordinates. - Comprehend the necessity and classification of map projections. - Gain proficiency in constructing zenithal and conical projections graphically. - Effectively construct and utilize cylindrical and conventional map projections.	
Unit	Topic Particular	Hours
Unit I	- Introduction to Map Projection: - Definition of Map and Globe - Parallels of Latitudes - Meridians of Longitudes - Great Circles - Definition of Map Projections - Necessity of Map Projection	15
Unit II	- Classification of Map Projection on the Basis of their Development: - Perspective Projections - Non-Perspective Projections - Conventional	15
Unit III	- Construction of Map Projections by Graphical Methods only. - Zenithal Projection: - Zenithal Polar Gnomonic Projection. - Zenithal Polar Stereographic Projection - Conical Projections: - Conical Projection with One Standard Parallels. - Bonne's Projection.	15
Unit IV	- Cylindrical Projections - Cylindrical Equal Area Projection - Mercator's Projection	15

	• Conventional map Projections. ○ Sinusoidal Projection ○ Mollweide Projection • Uses of Projections	
Study Resources	• Dent B. D., 1999: Cartography: Thematic Map Design, (Vol. 1), McGraw Hill. • Gupta K. K and Tyagi V. C., 1992: Working with Maps, Survey of India, DST New Delhi. • Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing. • Singh R. L. 1979: Elements of Practical Geography, Kalyani publishers, New Delhi Publishers • Singh R.L. and Singh R.P.B, 1999: Elements of Practical Geography, Kalyani Publishers. • Singh RL & Rana PB Singh 1991: Prayogtmak Bhugol ke Mool Tatva, Kalyani Publishers, New Delhi • Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London. • Kennedy, M., Kopp, S. 2001. Understanding Map Projections, Esri Press. • Kimerling, A.J., Buckley, A.R., Muehrcke, P.C., Muehrcke, J.O. 2011: Map Use: Reading, Analysis, Interpretation, 7th ed, Esri Press. • Monkhouse, F.J., Wilkinson, H.R. 1971: Maps and Diagrams: Their Compilation and Construction, 3rd ed, 2017 reprint: Alphaneumera-Kolkata. • Geore p. Kellaway 1979: Map Projection B.I. Publications new Delhi	

F.Y.B.A.
SEMESTER - II
GEOG-OE-121: Noise Pollution

Total Hours: 30

Credits: 2

Learning objectives	- To study the basic concepts and terminologies noise pollution. - To study the sources and effects of noise pollution on environment. - To study the noise pollution status of World and India. - To aware the student with laws of noise pollution	
Course outcomes	After successful completion of this course, students are expected to: - Understand the basic concepts of Noise pollution - Find out the sources of noise pollution. - Know the measurement and controls of noise pollution. - Understand and Aware with laws of noise pollution	
Unit	Topic Particular	Hours
Unit I	Introduction to noise pollution - Meaning, Definition and Concept - Difference between Sound and Noise - Significance study of Noise Pollution - Sound power, sound intensity and sound pressure levels	08
Unit II	Sources and type of noise Pollution - Types of Noise Pollution - Causes of Noise Pollution - Noise standard - WHO and Central Pollution Control Board of India, guidelines for noise	08
Unit III	Effects and solution on Noise Pollution - Effect of noise pollution - Solution to reduce noise pollution - Role and responsibility of CPCB in controlling noise pollution	08
Unit IV	Regulation and control - The Noise Pollution (Regulation and Control Rules, 2000) - Noise Pollution Examples in World and India	06
Study Resources	G.K. Nagi, M.K. Dhillon, G.S. Dhaliwal, Commonwealth Publishers, Noise Pollution. S.K. Garg, Khanna publishers, Sewage Disposal and Air Pollution Engineering. S.M. Khopkar, Environmental pollution analysis, New Age International Publications Savindra Singh, 2006: Environmental Geography, Prayag Pustak Bhawan	

F.Y.B.A.
SEMESTER - II
GEOG-OE-122: Practical in Noise Pollution
(Work Load – 15 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	• Student should acquire knowledge related to noise level measurement. • To study the noise level measurement procedures. • To study the actual measurement of noise pollution on field. • Student should acquire actual practical knowledge to handle sound level meter.	
Course outcomes	After successful completion of this course, students are expected to: • Understand knowledge related basic terms of the noise pollution. • Understand the noise level measurement procedures. • Understand the actual measurement of noise pollution on field and report writing. • Measure noise level by Sound level meter (Decibel meter)	
Unit	Topic Particular	Hours
Unit I	Noise level measurement • Decibel Concept • Definition of decibel • Decibel Meter • Decibel scale • Noise level Chart	15
Unit II	Noise level measurement Procedure • Pre-requisites for noise level measurement • Identification of location and its types for noise level measurement • Types of instruments to measure the sound level and use of sound level meter, oscilloscope and spectrum analyzer	15
Unit III	Actual Measurement of Noise • Measure the sound and Compare to the recommended sound level. (Experiment of Noise level measurement of different areas) • Report of a noisy area of your city - Preparation and presentation of report	15
Unit IV	Practical Applications of Noise Control • Office spaces • Residential Environments (Ensuring Peace and quiet) • Transportation: Reducing Noise Pollution	15
Study Resources	• C. S. Rao, “Environmental Pollution Control Engineering”, Wiley Eastern Limited, 2000. • G.K. Nagi, M.K. Dhillon, G.S. Dhaliwal, Commonwealth Publishers, Noise Pollution.	

	• S.K. Garg, Khanna publishers, Sewage Disposal and Air Pollution Engineering. • S.M. Khopkar, Environmental pollution analysis, New Age International Publications • Savindra Singh, 2006: Environmental Geography, Prayag Pustak Bhawan	
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K.C.E. Society's
M. J. College (Autonomous), Jalgaon
Department of Geography
Board of Studies in Geography

01	Prof. S. N. Bharambe	Chairman	M. J. College (Autonomous), Jalgaon
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04	Dr. C. D. Mahajan	Member	M. J. College (Autonomous), Jalgaon
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06	Prof. V. R. Nagrale	Member	Department of Geography, Dept. of P.G.S.R. S.N.D.T. Women's University, Pune
07	Dr. D. G. Bhole	Member	ASPM's Women's College of Arts, Commerce And Computer Applications, Dongar Kathore, Tal Yawal, Dist Jalgaon
08	Prof. V. J. Patil	Member	Department of Geography, Dr. Annasaheb G.D. Bendale Mahila Mahavidyalaya, Jalgaon
09	Dr. Vikram Madhukar Agone	Member	VIKRAM GEOINFO TECH Chalisgaon, Dist: Jalgaon, Maharashtra, India.