

Resume

Abhinav Sonaji Mane

PhD IIT Bombay, Innovation HOD, Product development and UG research



Profile summary:

- ◆ Head, Department of Innovation CSMSS, CSCOE, Aurangabad.
- ◆ PhD in Geotechnical Engineering, **IIT Bombay**, Mumbai, India.
- ◆ 11 International research publications.
- ◆ 30+ professional consulting services provided (Worth 65 lakhs).
- ◆ 13+ International papers are to be published in 2019.
- ◆ 3 patents are in pipeline to be filed

Full Name	Mane Abhinav Sonaji		
Name of Post	Associate Professor		
Subject	Geotechnical Engineering		
Specialization	Geotechnical Engineering		
Caste Category Appointed From	Open		
UG/ PG Teacher	UG		
Address & Contact Details	47, Parvati co. op. Hsg. Soc., Behind Mayur Park, Harsool. Aurangabad., Maharashtra, India Mobile No.: 9420261590 Email: abhinavmane@gmail.com		
Gender	M	Date of Birth :	
Mother tongue	Marathi	Knowledge of Marathi: Proficient	Specially Abled: No

:: Caste Category of Candidate

Category : Open

Caste : Maratha

Educational Qualification

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% or Grade Point
PhD	IIT Bombay	2018	Geotechnical Engineering (CIVIL)	-	7.2
M.Tech.	MNNIT Allahabad	2008	Geotechnical Engineering	-	8.2
B.E.	Dr. BAMU	2005	Civil Engineering	66.93	-
HSC	Maharashtra Board	2001	Phy, Chem, Bio, Math	76.67	-
SSC	Maharashtra Board	1999	All	79.60	-

Work Experience

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Approval date
CSMSS Aurangabad	Looking after the research and development activities in all branches, working on conceptual engg models, patents, technical competitions, research funding, incubation, startups, consultancy for geotechnical field works and academic teaching to civil engineering students	Associate professor/ HOD Innovation	Full time	09/04/2016 to Till Date	22/02/2017
DIEMS Aurangabad	Teaching to civil engineering students, Training and placement coordinator, geotechnical consultant.	Assistant professor	Full time	02/02/2015 to 02/02/2016	-
SECON Pvt. Ltd, Bangalore/NSES Libya	Geotechnical engineering consultant, project manager	Geotechnical Engineer/ Project manager	Full time	14/07/2008 to 30/11/2009	14/07/2008
Strata geosystem India Pvt. Ltd.	Geotechnical engineer	Manager (Design)	Full time	07/07/2014 to 30/01/2015	07/07/2014
Strata geosystem India Pvt. Ltd.	Design philosophy trainer	Trainer for engineers	Scheduled invitations	30/01/2015 to Till date	-

Research Papers/ Conference Proceedings

Type of Journal	Title with Page No.	Journal Details	Published year	Sole/ Co-Author	Peer Review/ Impact Factor	API Score
Scholarly Research Article	Studies on the Performance of Geogrid Reinforced Soil Walls with Compressible Inclusion PP. 1340-1349	Geotechnical special publication	2012	Mane A. S. / Viswanadham B V S	0.22	21

Paper Presented in Conference/Workshop/Symposium

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organizer Details	Proceedings Published?	Sole/ Co-author	API Score
Centrifuge Modeling of Wrap-Around Geogrid Reinforced Soil Walls	National	IGC-2010 Geotrendz, Conference Held at IIT Bombay 2010	IIT Bombay	Yes	Mane A. S. / Viswanadham B V S	3
Shear strength enhancement of soft soils below GRSW-Case study	National	5IYGEC, Conference held at IGC Baroda	IGC Baroda	Yes	Mane A S/ Mukesh Satav/ S P Bagli	3
Performance enhancement of Geogrid Reinforced Soil Walls with Geofoam Inclusion	International	International Conference on Soil and Environment, Conference held at IISc Bangalore	IISc Bangalore	Yes	Mane A S/ Seema Gawali/ P. Gore	5
Earth Pressure Reduction on Buried Pipelines Using Geofoam	International	EuroGeo-2016, Conference held at Ljubljana, Slovenia	EuroGeo-2016, IGS	Yes	Mane A S/ Shubham Shete/ Ankush Bhuse	5
Effect of Geofoam inclusion on Behavior of Geogrid Reinforced Soil Walls	International	International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues"	IIT Bombay	Yes	Mane A S/ Seema Gawali/ P. Gore	5
Studies on Deformation Behavior of Geogrid Reinforced Soil Walls	International	EuroGeo-2016, Conference held at Ljubljana, Slovenia	EuroGeo-2016, IGS	Yes	Mane A S/ Seema Gawali/ P. Gore/ S Shete/ A. Bhuse	5

Effect of Geofoam Inclusion on Deformation Behavior of Buried Pipelines in cohesive soils	International	GeoMEast 2017, Conference held at Sharm El-Sheikh, Egypt	GeoMEast-2017, International geotechnical society	Yes	Mane A S/Shubham Shete/ Ankush Bhuse	5
State of art of practice in geosynthetic extension tests	International	Conference held at SVERI pandharpur.	SVERI Pandharpur	Yes	Mane A S/D Bahirat/ G. Lalchhote	5
State of art or research in gravity filters	International	Conference held at SVERI pandharpur.	SVERI Pandharpur	Yes	Mane A S/K. Karvande/ Abhayraj lodha/S Patel	5
Buried Pipelines Deformation Behavior in Different Soils Using Geofoam	International	Conference held at SVERI pandharpur.	SVERI Pandharpur	Yes	Mane A S/Shubham Shete/ Ankush Bhuse	5
Deformation Behavior of Soil with Geocell using Image Analysis Techniques	International	Conference held at Department of Computer Science and IT Dr. BAMU, Aurangabad	Dr. BAMU, Aurangabad	Submitted for Acceptance	Mane A. S./ Praful Gaikwad/ Shubham Shete	-
Study on Deformation Behavior of Sub-soil With Inclusion of Geotextiles using Image analysis	International	Conference held at Department of Computer Science and IT Dr. BAMU, Aurangabad	Dr. BAMU, Aurangabad	Submitted for Acceptance	Mane A. S./ Akash Shirsat/ Ankush Bhuse	-
Study on Bearing Capacity Improvement of Subsoil Using Waste Plastic Strips through Image analysis	International	Conference held at Department of Computer Science and IT Dr. BAMU, Aurangabad	Dr. BAMU, Aurangabad	Submitted for Acceptance	Mane A. S./ Praful Gaikwad/ Ganesh Sardar	-

Details of Research Schemes/ Projects/ Consultancies undertake

Project Name	Funding Agency	Fund Mobilized	Commencement Date	Completion Date	Worked as	API Score
Geotechnical investigation for Police Housing Society, Aurangabad	Police Housing Society	10 Lakhs	2 July, 2017	26 Aug, 2017	Geotechnical consultant	10
Simar Pride Venture LLP's Multistorey apartment at Pannalal Nagar	Pride Ventures India Pvt Ltd	1 Lakhs	10 October, 2017	22 October, 2017	Geotechnical consultant	10
Rehabilitation and Up-gradation of Jalgaon Jamod-Nandura National Highway	M/s Designilla	2.5 Lakhs	11 May, 2018	5 June, 2018	Geotechnical consultant	10
Non-destructive testing (Rebound hammer test) for Gharkul site.	Bhuv Landmark LLP	25 K	-	10 July, 2018	Geotechnical consultant	10
Geo Technical Investigation for Construction of LPG Bottling Plant at Kharagpur (West Bengal)	Indian Oil Corporation Limited	1.95 Lakhs	5 April, 2018	2 May, 2018	Geotechnical consultant	10
Plate load tests on geocell reinforced and unreinforced ground surface.	Strata Geosystems (India) Pvt. Ltd.	83 K	15 June, 2018	29 June, 2018	Geotechnical consultant	10
Constriction of PSBA School site, Chikhalthana, Aurangabad.	Sanjivani Bhosekar Madam.	50 K	11 August, 2018	19 August, 2018	Geotechnical consultant	10
Dy Chief Engineer (civil) CCC MSPGCL Parli Vaijnath work for Solar Agriculture feeder project.	Faiz Enterprises	6 Lakhs	30 August, 2018	02 November, 2018	Geotechnical consultant	10
Construction of multi-storey building at Kolar city for Amrut Scheme,	M/s Jayanti Super Construction	35 K	1 August, 2018	13 August, 2018	Geotechnical consultant	10

Karnataka						
Rehabilitation and upgradation of existing carriage way to Two Lanes with Paved Shoulder Standards in Chikhli (at Hatni) to Dhad	Saakar Infra Nirman Pvt. Ltd.	10.5 Lakhs	7 August, 2018	22 September, 2018	Geotechnical consultant	10
Non-destructive test (Rebound hammer test) at Hingoli site.	P D Architects.	65 K	-	8 October, 2018	Geotechnical consultant	10
Construction of multi-storey building at Vishakhapattanam	Iconica Project	89 K	3 November, 2018	13 November, 2018	Geotechnical consultant	10
Earth Resistivity Test / VWILLP / Yelavat / 33 / 400 KV Toramba Pooling Substation / 001 / 18-19.	Vish Wind Infrastrukture LLP	45 K	27 November, 2018	30 November, 2018	Geotechnical consultant	10
Field density by core cutter method for D'mart site.	ARJ Construction.	13 K	-	14 September, 2018	Geotechnical consultant	10
Field density by Core Cutter Method and Laboratory Standard proctor test For G-168, Sanjeev Auto, Dahegaon.	Concept Ventures Private Limited	7.5 K	-	13 November, 2018	Geotechnical consultant	10
Rail over Rail bridge no.3 Between Raigarh-Jamgaon.	Indwell Construction Pvt. Ltd.	3.47 Lakhs	28 November, 2018	25 December, 2018	Geotechnical consultant	10
Green field per-mix plant at Tather village Kota Dist. Rajasthan	Archetype	4.45 lakhs	31 October, 2018	12 November, 2018	Geotechnical consultant	10
Geotechnical Investigation of warehouse at Gangapur, Aurangabad.	Central India Logestics Pvt. Ltd.	89 K	28 November, 2018	03 January, 2019	Geotechnical consultant	10
Geotechnical Investigation for multistory building at Akashwani, Aurangabad.	Motiwala Square	1 Lakh	03 July, 2018	13 August, 2018	Geotechnical consultant	10
Concrete mix design for the site plot no.2, MIDC area, Chalisgaon.	Srinivasa Infra Buildcon Pvt. Pvt.	12 K	-	12 July, 2018	Geotechnical consultant	10
Geotechnical Investigation for Airport Colony, Aurangabad.	Parikh Kashyap	67 K	24 November, 2018	10 December, 2018	Geotechnical consultant	10
Piling work for cricket stadium light poles	Shreehari Associates Pvt. Ltd.	4.35 Lakhs	11 October, 2018	02 November, 2018	Piling designer and contractor	10
Lab and field soil testing for waluj site.	Bharat Petroleum Corporate Limited.	50 K	15 December, 2018	14 January, 2019	Geotechnical consultant	10
Lab and field soil testing for Industrial Project.	Bhargav Construction	13 K	20 February, 2019	25 February, 2019	Geotechnical consultant	10
Piling work for Solar project at Badnera, Akola bypass, Amravati	Icon Engineering Work	3.70 Lakhs	13 February, 2019	04 March, 2019	Piling Contractor	10
Geotechnical Investigation for Industrial project at Kundaim, Goa	Crompton Greaves Consumer Electricals Ltd	89 K	07 February, 2019	18 February, 2019	Geotechnical consultant	10

1MW Solar Power Plant Airport Authority of India, at Rajahmundry Airport, Andhra Pradesh.	VIVETTO SYSTEMS	2.10 Lakhs	23 January, 2019	23 February, 2019	Geotechnical consultant	10
Plie load test up to 210 tonne capacity by using Truss, Nagpur	Bhamare Infrastructure Pvt Ltd	2.32 lack	15 April, 2019	30 May, 2019	Geotechnical consultant	10
Soil Investigation Survey, Topographical Survey at Pithampur, Indore	PAR Formulation Pvt.Ltd	28.59 lack	06 April, 2019	25 April, 2019	Geotechnical consultant	10
Geotechnical Investigation for TATA Hampi road and Tumkuru road at Karnataka.	Efkon India Pvt.Ltd	4.69 lack	08 May, 2019	23 May, 2019	Geotechnical consultant	10
Piling work at Kharagpur, West Bengal	Gubba Cold Infra Consulting LLP	8.23 lack	10 July, 2019	7 August, 2019	Piling Contractor	10
Geotechnical Investigation of IOCL plant at Atchutapuram, Vishakhapattanam	Prashant Projects Ltd	3.56 lack	11 May, 2019	27 May, 2019	Geotechnical consultant	10
Piling work and testing of piles for Solar plant at Manwat, Parbhani	Oriano Clean Energy Pvt Ltd	3.8 lack	8 January, 2019	25 January, 2019	Geotechnical consultant and Pile Contractor	10
Geotechnical Investigation Improvement of NH-53 passing through Jalgaon city to four lane at Jalgaon	M/S MAV Associates	1.08 lack	12 June, 2019	22 June, 2019	Geotechnical consultant	10
Geotechnical Investigation for Industrial Building at Waluj, Aurangabad	Deshpande Associates	1.1 lack	29 May, 2019	5 June, 2019	Geotechnical consultant	10
Geotechnical Investigation for Podar International School at Amravati, AP.	Podar International School	1.97 lack	05 July, 2019	15 July, 2019	Geotechnical consultant	10
Geotechnical Investigation for Sub-station at Chikhalthana	Bajaj Electricals ltd	1.35 lack	02 August, 2019	06 August, 2019	Geotechnical consultant	10

CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES

1. Details of Lectures, Seminars, Tutorials, Practical's, Contact Hrs

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
Building planning and design	UG	Theory Classroom	4	100
Fluid Mechanics I	UG	Theory Classroom	4	100
Geotechnical Engineering	UG	Theory Classroom	4	100
Foundation Engineering	UG	Theory Classroom	4	100
Geotechnical Engineering	UG	Practical's	2	100

CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counselling)	-
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committees & responsibilities	Playing a role of HOD Innovation. The work involves the management and evaluation of final year projects of the institute students in all branches.

3. Professional Development Activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above)	Working as a trainer to a firm named Strata Geosystems India Pvt Ltd as a trainer to engineers on design of GRSW's.
Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration)	Attended GIAN course on Constitutive Modelling in Practical Geotechnical Analysis at IIT Bombay, June 06, 2016 to June 16, 2016.
Invited lectures or presentations for conferences/symposia	Invited for expert talk on Research attitude, problem formation and methodology for civil engineers. Invited for lecture talk in faculty development program on E waste management.
Particulars of current research work at personal level	Working as project guide for 10 student groups (40 students) from Mechanical, Civil, Electronics, Electrical and Computer Science on different areas like geotechnical engg, manufacturing, product development, application development, sensor technology etc.
Patents & IPR Details:	In process

Notable achievements:

1. Throughout Scholarship holder.
2. Winner of state level Avishkar event 2016.
3. Ranked 10th in Hackathon event 2017 at National level.
4. Ranked 4th in STAND INDIA competition at National level.
5. Passed Elementary and Intermediate drawing grade examination conducted by government of Maharashtra.
6. Completed "Yog Pravesh" and "Yog Parichay" courses arranged by Yog vidyadham with 1st Rank.
7. Consistently played cricket in my academic years and represented my team at college level for various tournaments.
8. Got awarded for third position in PG sports IIT Bombay in cricket tournament.
9. Provided guidelines for audio-video and visual teaching, learning about Canal constructions (earth work) to Water Resource Department Government of Maharashtra which Coordination of Superintendent Engineer Mr. Ilyas Chisti.

Innovation:

1. Working on conversion of existing motorcycle into a Hybrid motorcycle.
2. Working on conversion of existing motorcycle into an Electric motorcycle...
3. Working on producing mechanical power using heat energy.
4. Working on developing data acquisition units for civil engineering measurements.
5. Working on development of Finite element codes to solve geotechnical engg problems.
6. Idealized automated institute using advanced technology and minimum cost.
7. A few patentable products/procedures are under development as below;
 - a. Earth drilling machine
 - b. Auger piling machine
 - c. Cost effective fully automated mechanical roti maker
 - d. Food waste digester
 - e. Automations in the geotechnical testing equipments
 - f. Suspensions and their effective arrangements
 - g. Self cooling windows
 - h. Modelling with high density materials- development of scaling considerations

- i. Design of the playing surfaces and cricket pitches using plastic waste/ geocells/ geogrids
- j. Design of a reinforced cricket bat for the high impact batting in commercial cricket
- k. Design of a knocker (Automated) for tampering of a new wood of the cricket bat.

References:

Sr. No.	Name of the person	Designation & Name of the Company	Mobile No.	Email Address
1.	Jyoti Kokate	SAP Consultant, Atos India ltd.	7798934111	Jyoti.kokate09@gmail.com

I **Abhinav Sonaji Mane**, hereby undertake that the information provided above is true and correct.

Date: 01/05/2021

Name & Signature