



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**List of Ph.D. Guides**  
**Academic year 2023-24**

Sl. No.	Name of the Faculty
1	Dr. Veena S Soraganvi
2	Dr. C.B Shivayogimath
3	Dr. P.G. Rakaraddi
4	Dr Mahantesh M Hanamasagar
5	Dr. Shankar H. Sanni
6	Dr. Santhosh M. Malkapur
7	Dr. Adarsh S. Chatra
8	Dr. G.B Megeri



**BVV Sangha's  
Basaveshwar Engineering College, Bagalkote  
Department of Civil Engineering  
Outreach Activities Summary**

<b>Academic Year</b>	<b>Number of Activities</b>
2021-22	1
2022-23	2
2023-24	12
2024-25	13



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**Department of Civil Engineering**  
**Academic and Outreach Activities**  
**Academic Year 2023-24**

Sl. No.	Faculty Name	Type of Interaction	Details	Organization/Institution	Month & Year
1	Dr. Adharsh Chatra	Manuscript Reviewer	Study on Seepage and Stability of Soft Rock Slope with Fissures Under Extreme Rainfall	Indian Geotechnical Journal	Nov 2023
2	Dr. Adharsh Chatra	Manuscript Reviewer	Probabilistic Stability Analysis of Earthen Slope Using ANN, PSO-ANN, GPR and GA-ANFIS Soft Computing Techniques	Indian Geotechnical Journal	Oct 2023
3	Dr. Adharsh Chatra	Manuscript Reviewer	A Novel Approach for Identification of Landslide Susceptibility Zones - A Case Study from Uttarakhand Region	Indian Geotechnical Journal	Jan 2024
4	Dr. Jayalatha N A	Manuscript Reviewer	-	Water Environment Research	Feb 2024
5	Dr. S.H Sanni	Manuscript Reviewer	International Conference on Recent Advances in Applied Engineering Science	-	March 2024
6	Dr. Adharsh Chatra	Manuscript Reviewer	Research on Online Monitoring Technology for Rock Mass Condition of High-Speed Railway Tunnel Portal Slope in Seasonal Freezing Area	Journal of GeoEngineering	March 2024
7	Dr. Santhosh Malkapur	Session Chair	International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges	National Institute of Technology Karnataka, Surathkal	April- May 2024
8	Dr. Srinivas F Chitragar	Session Chair	International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges	National Institute of Technology Karnataka, Surathkal	April- May 2024
9	Dr. Adharsh Chatra	External Member	Board of Examiner	Ballari Institute of Technology and Management	2022-till date
10	Dr. Basappa Meti	Indian Journal of Agricultural Research	Performance of Phytohormones Under Distinct Levels of Drip Irrigation on Growth, and Productivity of Wheat (Triticum Aestivum L.)	ARCC Journals	April 2024
11	Dr. Basappa Meti	Indian Journal of Agricultural Research	Impacts of Micro-irrigation Technologies in Maharashtra- A Review	ARCC Journals	June 2024
12	Dr. Jayalatha N A	Manuscript Reviewer	Biosurfactant production by Bacillus cereus GX7 utilizing organic waste and its application in the remediation of hydrocarbon-contaminated environments	World Journal of Microbiology and Biotechnology	Aug 2024



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**Academic and Outreach Activities**  
**Academic Year 2021-22 & 2022-23**

<b>Sl. No.</b>	<b>Faculty Name</b>	<b>Type of Interaction</b>	<b>Details</b>	<b>Organization/Institution</b>	<b>Month &amp; Year</b>
1	Dr. Santhosh Malkapur	Webinar	Awas par Samvaad-technology and innovation-low cost housing	Basaveshwar Engineering College, Bagalkote association with the Ministry of Housing (MOHUA), District administration Bagalkote and CMC Bagalkote	Oct 2021
2	Dr. Jayalatha N A	Technical Talk	Biosurfactants: A Green Approach to Environmental Restoration" during the Diamond Jubilee Celebrations (1963-2023) of BEC-IEEE Student Branch	Basaveshwar Engineering College, Bagalkote	Aug 2023
3	Dr. P.G Rakaraddi	Ph.D. Examiner	Ph.D. Open Seminar	Visvesvaraya Technological University, Belagavi	March 2023



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**Academic and Outreach Activities**  
**Academic Year 2024-25**

Sl. No.	Faculty Name	Type of Interaction	Details	Organization/Institution	Month & Year
1	Dr. Veena S Soraganvi	Convener	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
2	Dr. B.R Hiremath	Organizing Committee	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
3	Dr. Prabhu G. Rakaraddi	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
4	Dr. Mahantesh M. Hanamasagar	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
5	Dr. Shankar H. Sanni	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
6	Dr. Santhosh Malkapur	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
7	Dr. Adarsh Chatra	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
8	Dr G.B. Megeri	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
9	Dr. Jayalatha N. A	Reviewer	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	Sept 2024
10	Dr. Santhosh Malkapur	Session Chair	International Conference on New Horizons in Civil Engineering	Manipal Institute of Technology, Manipal	Dec 2024
11	Geetajali Patil	Committee Member	For the Selection of SRF and Project Assistant/Project Management	University of Horticultural Science, Bagalkot	Jan 2025
12	Dr. Basappa Meti	Agricultural Reviewer	A Systematic Review of the existing literature to evaluate what is already known of the Participatory Irrigation Management	ARCC Journals	Jan 2025
13	Dr. G.B. Megeri	VTU BoE Member	Appointed as a BoE member for Biotechnology Board	VTU Belagavi	Jan 2025



**BVV Sangha's  
Basaveshwar Engineering College, Bagalkote  
Department of Civil Engineering  
Conference Paper Presented Summary**

<b>Academic Year</b>	<b>National Conference</b>	<b>International Conference</b>	<b>Total No. of Papers</b>
2021-22	1	2	3
2022-23	-	2	2
2023-24	3	1	4
2024-25	-	14	14



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**List of Conference Paper Presented**  
**Academic Year 2021-22**

Sl. No.	Authors	Title of the Paper	Title of the Conference	Conducted by and Venue	International/ National	Month and Year
1	Dr. Shankar H Sanni and Shashikanth A. Kambali	Seismic Analysis of Telecommunication Tower,	Indian Structural Steel Conference – 2020	Dept. of Civil Engg., IIT, Hyderabad	International	Jan 2022
2	Dr. Shankar H Sanni and Shashikanth A. Kambali	Analysis and Design of Junction Tower	Indian Structural Steel Conference – 2020	Dept. of Civil Engg., IIT, Hyderabad	International	Jan 2022
3	Dr. P.G Rakaraddi and G P Veeranna	A Case Study on Ground slope instability analysis triggered due to Rainfall through limit equilibrium method	Eighth Indian Young Geotechnical Engineers Conference 2021 (8IYGEC 2021)	Indian Geotechnical Society, Chennai Chapter, in association with Indian Institute of Technology, Madras, Anna University, Chennai, NITTTR Chennai and SRM Institute of Science and Technology	National	Oct 2021



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**List of Conference Paper Presented**  
**Academic Year 2022-23**

<b>Sl. No.</b>	<b>Authors</b>	<b>Title of the Paper</b>	<b>Title of the Conference</b>	<b>Conducted by and Venue</b>	<b>International/ National</b>	<b>Month and Year</b>
1	Dr. Shankar H Sanni and Vijaykumar Javalagaddi	Engineered Cementitious Composites Using Poly Vinyl Alcohol Fibres for Various Climatic Conditions - A Review,	International conference on Climate Resilient Construction and Building Materials, March 03-05, 2023 – NITK Surathkal.	Department of Civil Engineering, NITK Surathkal	International	March 2023
2	Dr. Shankar H Sanni and Nagaraj Chawadapur	Durability of Ultra High Performance Concrete – A Review,	International conference on Climate Resilient Construction and Building Materials, March 03-05, 2023 – NITK Surathkal.	Department of Civil Engineering, NITK Surathkal	International	March 2023





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**List of Conference Paper Presented**  
**Academic Year 2023-24**

Sl. No.	Authors	Title of the Paper	Title of the Conference	Conducted by and Venue	International/ National	Month and year
1	Veeresh Rudrappa Koti, Dr. Adarsh S Chatra, Avinash Angadi and Shivukumar G Patil	Study on Behaviour of Fly Ash Treated Clay Under Static and Dynamic Loading	Indian Geotechnical Conference	Indian Institute of Technology Roorkee	National	December 2023
2	Shivakumar G. Patil, Adarsh S. Chatra and Kalyan Kumar Gonavaram	Slope Stability Analysis of Deep Cut Intake Canal: Chadchan Lift Irrigation, Karnataka	Indian Geotechnical Conference	Indian Institute of Technology Roorkee	National	December 2023
3	Archana Janai, Dr. Jayalatha N A and Dr. Veena S Soraganvi	Fabrication and Performance Analysis of Graphene oxide Based Polymeric Membranes in Water Desalination	28th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO 2023 International)	Department of Civil Engineering, NIT Warangal, under the aegis of The Indian Society for Hydraulics (ISH), Pune	International	December 2023
4	R Omprakash Gurudev Holi, Dr. Veena S Soraganvi and Dr. Jayalatha N. A	Sustainable Waste Disposal System for a Village-Bagalkote, Karnataka	National Environment Conference - 2024	Environmental Science and Engineering Department, IIT Bombay	National	February 2024



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**List of Conference Paper Presented**  
**Academic Year 2024-25**

Sl. No.	Authors	Title of the Paper	Title of the Conference	Conducted by and Venue	International/ National	Month and year
1	Dr. Santhosh Malkapur	Need for Tree-Fall Resisting System for Wind Resistant Trees in Urban Areas to Withstand Strong Wind	International Conference on Sustainable Infrastructure: Innovations Opportunities and Challenges (SIIOC 2024)	National Institute of Technology Karnataka, Surathkal	International	April-May 2024
2	Dr. Srinivas Chitragar	Laboratory Design and Performance Analysis of Bituminous Mixes Using Recycled Asphalt Pavement (RAP) for Sustainable Green Highways	International Conference on Sustainable Infrastructure: Innovations Opportunities and Challenges (SIIOC 2024)	National Institute of Technology Karnataka, Surathkal	International	April-May 2024
3	Roopa, Dr. G.B. Megeri and Dr. Jayalatha N A	Sustainable Wastewater Management with Native Plant Reed Beds	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
4	Shainaj L Naykodi, Dr. Jayalatha N A and Dr. G.B. Megeri	Wastewater Treatment and Sustainable Bio- Energy Generation Using MFC	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
5	Dr. G.B. Megeri, Dr. Jayachandra Y	Development of Bio Derived antimicrobial, nanocomposites for Packaging	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
6	Dr. Veena S Soraganvi, Dr. Jayalatha N A, Omprakash Gurudev Holi, Veereshgouda Halemani, Swaroopa, Veena Biradar	Sustainable Waste Management Solutions for Bhagavati Village, Bagalkote	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
7	Vikram Meti, Santhosh M. Malkapur, Sudarshan Devraj Shetty	Studies on Energy Efficient Design of Building for Warm and Humid Climate Zone in India	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024

8	B. R. Hiremath, Gurushant J., Arundhati S, Kaveri R., Amruta G, Madhumala Y	Removal of Heavy Metals from Wastewater by Bioremediation Method using Microalgae	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
9	Shashank C. Bangi and Dr. Veena S Soraganvi	Mapping Potential Evapotranspiration using Optimal Empirical Techniques	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
10	Mahantesh M. Hanamasagar, Aravind M. Pattanashetti	Influence of Quarry Dust and Demolished Soil on Strength Properties Including Compressive Stress	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
11	Gouri Ajay Mhetar, Avinash Angadi, Dr. Adarsh S. Chatra, Sakshi Kore, Master Yash Arora	Application of Trenchless Technology in Urban Areas	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
12	Gururaj Bandihal, Veena S. Soraganvi	Delineation of Ground Water Recharge Zones in Hirehalla Sub Watershed Using Geographical Information Systems	International Conference on Sustainable Solutions in Engineering and Technology	Basaveshwar Engineering College, Bagalkote	International	September 2024
13	Shankar H. Sanni, Nagaraj Chawdapur,	Performance Analysis of Ultra-High Performance Concrete using Locally available materials	International Conference on Sustainable solutions in Engineering and Technology (SSET-2024)	Basaveshwar Engineering College, Bagalkote	International	Sep-24
14	Gururaj Bandihal, Veena Soraganvi	Groundwater Modelling and Management in Hard Rock Terrain: A Case Study	International Conference on Environmental Sustainability and Climate Change Adaptation Strategies	Visvesvaraya Technological University Belagavi	International	February 2025



**BVV Sangha's**  
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**List of Patent**  
**Academic Year 2024-25**

<b>Sl. No.</b>	<b>Authors</b>	<b>Title</b>	<b>Application Number and date</b>	<b>Publication Number and date</b>	<b>Award number and Date</b>	<b>Current Status</b>
1	Dr. S. M. Malkapur and Dr. Shankar H. Sanni	Tre-Fall Resisting Apparatus for a Straight Tree	No:202341080317 27-11-2023	--	4252115-001 30/07/2024	Granted
2	Dr. S. M. Malkapur and Dr. Shankar H. Sanni	Tree-Fall Resisting System/Apparatus at The Off-Street Area for an Inclined Tree to Withstand Stronger Wind and Method of its Construction	No:202241009473	202241009473 A 25-11-2023	--	Published



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**List of Patent**  
**Academic Year 2020-21**

<b>Sl. No.</b>	<b>Authors</b>	<b>Title</b>	<b>Application Number and Date</b>	<b>Publication Number and Date</b>	<b>Award number and Date</b>	<b>Current Status</b>
1	Dr. R.N Herkal and Dr. Krishnamurthy Bhat	An Electro-Mechanical System for Prevention of wastage of Cold Water Stored in Hot Water Pipeline	2453/CHE/2015 15/05/2015	3471221 08/09/2020	3471221 18/09/2020	Granted



**BVV Sangha's**  
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**Department of Civil Engineering**  
**Summary of Project Proposal Submitted**

<b>Academic Year</b>	<b>Number of Project Proposal Submitted</b>
2022-23	5
2023-24	3
2024-25	2



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**List of Project Proposal Submitted**  
**Academic Year 2023-24**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Title of the Project</b>	<b>Sanctioning Authority &amp; Scheme</b>	<b>Submission Date</b>	<b>Amount (Lakh)</b>
1	PI: Dr. S. M. Malkapur Co-PI: Dr. S.H Sanni	"TREE-FALL RESISTING SYSTEM"	AS PI SERB-SURE Scheme (State University Research Scheme)	14-12-2023	30
2	PI: Dr. S. M. Malkapur	Affordable and durable cool-roof coating for buildings	Thoughtworks Technologies (India)-Venture Center CSR Grant	10-12-2023	50
3	PI: Dr. S.H Sanni and Co-PI: Dr. S. M. Malkapur	Experimental investigation on properties of engineered cementitious composites produced with PVA fibers	SERB-SURE	14-12-2023	30



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
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**List of Awards**  
**Academic Year 2020-24**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Title of the Award</b>	<b>Awarding Authority</b>	<b>Month and Year</b>
1	Dr. Santosh M. Malkapur & Dr. Shankar H Sanni	Research Publications - Best paper award	International Conference on Sustainable Infrastructure: Innovations, Opportunities and challenges (SIIOC 2024), 30th April - 1st May 2024, NITK Surathkal, India	April 2024
2	Roopa, G.B Megeri and Dr. Jayalatha N A	Best paper for the paper entitled Sustainable Wastewater Management with Native Plant	International Conference on Sustainable Solutions in Engineering and Technology, Basaveshwar Engineering College, Bagalkote	September 2024
3	Dr. Santhosh M Malkapur	Best presenter for the paper entitled Studies on Cool Roof Coatings Using Locally Available Materials	International Conference on New Horizons in Civil Engineering, Manipal Institute of Technology, Manipal	December 2024
4	Dr. Shankar H Sanni, Swathi Angadi and others	Research Publications - Second best paper award	National Conference on Recent Advances in Engineering & Management (NCRAEM-21), Organised by Amrutha Institute of Engineering and Management, July 9-10, 2021	2021-22
5	Dr. Shankar H Sanni, Seema Desai and others	Research Publications - Second best paper award	National Conference on Recent Advances in Engineering & Management (NCRAEM-21), Organised by Amrutha Institute of Engineering and Management, July 9-10, 2021	2021-22
6	Dr. Veena s Soraganvi	Research Publications	Vision Group of Science and Technology, Karnataka Science and Technology Promotion Society and Department of Electronics, Information Technology, Biotechnology and Science & Technology	2020-21





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**List of Project Proposal Submitted**  
**Academic year 2024-25**

Sl. No	Name of the Faculty	Title of the Project	Sanctioning Authority & Scheme	Submission Date	Amount (Lakh)
1	PI: Dr. Jayalatha N A Co-PI: Dr. G.B Megeri	Removal of Veterinary Pharmaceuticals from Wastewater using Low-Cost Produced Biosurfactant	VGST	June 28 2024	20
2	PI: Dr. Santhosh M Malkapur Co-PI: Dr. Shankar H Sanni	Centre for evaluating thermal and acoustic performance of building materials	VGST	June 28 2024	20



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**List of Project Proposal Submitted**  
**Academic year 2022-23**

Sl. No.	Authors	Title of the Project	Sanctioning Authority & Scheme	Submission Date	Amount (Lakh)
1	Dr. Jayalatha N A	Removal of Veterinary Pharmaceuticals from Wastewater using Low-Cost Produced Biosurfactant	DST-SERB	15-Oct-22	30
2	Dr. Adharsh Chatra	Landslide Early Warning System Using Deterministic and Probabilistic Modelling of Hillslopes	VGST-Karnataka	25-May-23	20
3	Dr. Santhosh M. Malkapur	Centre for evaluating thermal performance of building materials and buildings	VGST-Karnataka	25-May-23	20
4	Dr. Jayalatha N A	Faster Reduction of Sugarcane Industry Process Wastewater Load using Microalgae and Enrichment of Biofertilizer with Algal Biomass	DST-SERB	01-Mar-23	20
5	Dr. Jayalatha N A	Forecasting of Floods in Ghataprabha River Basin using Ensemble of Artificial Neural Network Algorithms	DST-SERB	15-Mar-23	20



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**Ph.D. Research Progress Summary**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Total Count</b>
1	No. of Ph.D. Scholars Pursuing since 2003	23
2	No. of Ph.D. Guides	08
2	No. of Scholars Ph.D. Awarded since 2003	25
3	No. of Scholars Ph.D. Awarded 2024-25	03
4	No. of Ph.D. Scholars Admitted (2023-24)	01
5	No. of Ph.D. Scholars admitted (2022-23)	06



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**List of Ph.D. Scholars Admitted**  
**Academic year 2022-23**

Sl. No.	Name of the Research Scholar	USN	Name of the Guide	Name of the Co-Guide	Title	Date of Admission	Category SC/ST/OBC/GM	Full Time/Part Time
1	Avinash Angadi	2BA21PCV01	Dr. Adarsh Chatra	-	Stability Analysis of Soil Slope Under Rainfall and Seismic Condition	05-05-2023	GM	Part time
2	Gouri Ajay Mhetar	2BA21PCV02	Dr. Adarsh Chatra	-	Critical Study of Impact of Trenchless Techniques on Geotechnical Properties of Adjacent Soil	05-05-2023	GM	Part time
3	Nagaraj Chawadapur	2BA22PCV03	Dr. S.H. Sanni	-	Analysis of Ultra High-Performance Concrete	05-05-2023	GM	Part time
4	Sheetal Parashuram Naik	2BA22PCV01	Dr. Adarsh Chatra	-	Applications on Energy Geotechnics	05-05-2023	SC	Part time
5	Basavanagouda A Patil	2BA22PCV02	Dr. S.M Malkapur	-	Porous Baffles Performance in a Liquid Sloshing tank for Structure TLD Interaction Problem	05-05-2023	GM	Part time
6	Ramesh Baragani	2BA22PCV03	Dr. S.M Malkapur	-	Seismic Analysis of Multi Storyed Building Considering Soil Structure Interaction	05-05-2023	GM	Part time



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**List of Ph.D. Scholars Admitted**  
**Academic year 2023-24**

<b>Sl. No.</b>	<b>Name of the Research Scholar</b>	<b>USN</b>	<b>Name of the Guide</b>	<b>Name of the Co-Guide</b>	<b>Title</b>	<b>Date of Admission</b>	<b>Category SC/ST/O BC/GM</b>	<b>Full Time/Part Time</b>
1	Seema Shringeri	2BA23PCV01	Dr. S. H. Sanni	--	Soil Structure Interaction on Buildings with varying Soil Types	Registered	GM	Part time



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**Department of Civil Engineering**

Name of Research Centre: Civil Engineering

Year of Establishment as Research Centre: 2003

**List of Research Scholars Currently Pursuing Ph.D.**

Sl. No	USN	Name of the Research Scholar	Name of the Guide	Name of the Co-Guide	Title of Ph.D.	Current Status	Category SC/ST/OBC/GM
1.	2BA15PCJ01	Chandrakanth Watawati	Dr. C. B. Shivayogimath	--	Treatment of Dairy Wastewater using Electrocoagulation	Comprehensive Viva Completed	GM
2.	2BA16PCJ04	Praveen Meti	Dr. C. B. Shivayogimath	--	Treatment of Sugar Industry Wastewater by Electrocoagulation Process Using Bipolar Electrodes System	Registered	GM
3.	2BA17PCA05	Yogesh Uday Kulkarni	Dr. R. B. Khadiranaikar	--	Early age shrinkage of HPC	Open Seminar 1 Completed	GM
4.	1GA19PCV01	Bhagyashree	Dr. S. M. Murnal	Dr. R. B. Khadiranaikar	Performance Based Mix Design	DC Formed	GM
5.	2BA17PCA01	Gururaj Bandihal	Dr. V. S. Soraganvi	--	Groundwater Recharge Sites Identification Using GIS	Comprehensive Viva Completed	GM
6.	2BA17PCA04	Mahadevi Ganiger	Dr. V. S. Soraganvi	--	A Study on Fluoride Contaminating Groundwater at Source and its Retention by In-Situ Reactive Barrier	DC Formed	GM
7.	2BA18PCV01	Manjukumar P.	Dr. V. S. Soraganvi	--	Urban Sprawling of Bagalkot City and Surrounding Heritage Structures	DC Formed	GM
8.	2BA17PCA03	Geetanjali Patil	Dr. P. G. Rakaraddi	--	Assessment of Liquefaction Potential with Varying Silt Content	Course Work Completed	GM

9.	2BA16PCJ05	Sheerifa Nadaf	Dr. P. B. Kalburgi	--	An Experimental Investigation on Degradation of Imidazolium Based Ionic Liquids from Aqueous Solution Using Advanced Oxidation Process	Pre - Submission colloquium Completed	OBC
10.	2BA16PCJ04	Keshavraj Girinivas	Dr. M. M. Hanamsagar	--	Fracture Behaviour of Fibre- Reinforced Stabilised Rammed Earth Using Industrial Waste	Comprehensive viva completed	SC
11.	2BA20PCV02	Chandrakanth S. M.	Dr. Adarsh Chatra	--	Behaviour of Saturation Effects, Pressure and Temperature Variation on Subgrade Soil Strength.	Registered	GM
12.	2BA20PCV01	Ravindra Honnalli	Dr. Adarsh Chatra	--	Effects Of Rainfall Induced Landslide on Slope Stability	Registered	OBC
13.	2BA20PCV03	Sangamesh Biradar	Dr. R. B. Khadiranaikar	Dr. S. H. Sanni	Fatigue Behaviour of Geopolymer Concrete Beams Reinforced with Basalt Fibre Reinforced Polymer Bars	Registered	GM
14.	2BA21PCV03	Nagaraj Chawadapur	Dr. S. H. Sanni	--	Analysis of Ultra High Performance Concrete	Registered	GM
15.	2BA21PCV01	Avinash Angadi	Dr. Adarsh Chatra	--	Stability Analysis of Soil Slope Under Rainfall and Seismic Conditions	Registered	GM
16.	2BA22PCV01	Sheetal Naik	Dr. Adarsh Chatra	--	Applications on Energy Geo Techniques	Registered	SC
17.	2BA21PCV02	Gowri Ajay Mhetar	Dr. Adarsh Chatra	--	Critical Study of Impact of Trenchless Techniques on Geotechnical Properties of Adjacent Soil	Registered	GM
18.	2BA20PCV02	Chandrakanth S. M.	Dr. Adarsh Chatra	--	Behaviour of Saturation Effects, Pressure and Temperature Variation on Subgrade Soil Strength	Registered	GM
19.	2BA20PCV01	Ravindra Honnalli	Dr. Adarsh Chatra	--	Effects of Rainfall Induced Landslides on Slope Stability	Registered	GM
20.	2BA21PCV04	Bipin Patil	Dr. S.M Malkapur	--	Studies on Physical and Mechanical Properties of Concrete Incorporating with Sustainable Construction Materials	Registered	GM
21.	2BA22PCV02	Basavangouda A. Patil	Dr. S.M Malkapur	--	Porous Baffles Performance in a Liquid Sloshing Tank for Structure TLD Interaction Problem	Registered	GM
22.	2BA22PCV03	Ramesh H Baragani	Dr. S.M Malkapur	--	Seismic Analysis of Multistorate Building Considering Soil Structure Interaction	Registered	GM
23.	2BA23PCV01	Seema Shringeri	Dr. S. H. Sanni	--	Soil Structure Interaction on Buildings with varying Soil Types	Registered	GM



**BVV Sangha's  
Basaveshwar Engineering College, Bagalkote  
Department of Civil Engineering**

**List of Ph.D's Awarded (Since Establishment of the Research Centre)**

Sl. No.	USN	Name of the Research Scholar	Name of the Guide	Name of the Co-Guide	Title of Ph.D.	Date of Viva Voce	Date of Award	Category SC/ST/OBC/GM
1.	2BA03PCM02	B. G. Katageri	Dr. R. N. Herkal	--	Fly Ash and Lime to Control Geotechnical Problems in Expansive Soils	--	2008	GM
2.	2BA03PCN01	V.G. MutalikDesai	Dr. R. N. Herkal	--	Effect of Contamination on Index Properties and Compressibility Characteristics of B.C. Soils	--	11-09-2010	GM
3.	2BA07PCN02	M. Prakash	Dr. R. N. Herkal	--	Uplift Capacity of Anchored Foundation	--	2017	GM
4.	2BA05PCN01	M. M. Awati	Dr. R. B. Khadiranaikar	--	Some Mechanical Properties and Design Studies of High-Performance Concrete	--	2011	GM
5.	2BA07PCN01	Santhosh Murnal	Dr. R. B. Khadiranaikar	--	Experimental Investigation of Reactive Powder Concrete	--	2015	GM
6.	2BA08PCN01	S. H. Sanni	Dr. R. B. Khadiranaikar	--	Experimental Investigation of Properties of Geo-polymer Concrete	--	2017	ST
7.	2BA11PCN01	Asif Iqbal Momin	Dr. R. B. Khadiranaikar	--	Experimental and Analytical Investigation of Flexural Behaviour of HPC Beams	--	2019	OBC
8.	2BA12PCN05	Aslam Hutagi	Dr. R. B. Khadiranaikar	--	Investigation of Fly Ash Based Geopolymer Concrete Under Compressive Loading	--	2019	OBC
9.	--	M. B. Wali	Dr. C. B. Shivayogimath	--	Investigative Studies on Removal Colour and Heavy Metals by Upflow Column Using Adsorbent	--	2010	GM
10.	2BA03PCN01	U.S. Hampannavar	Dr. C. B. Shivayogimath	--	Study on Treatment of Sugar Industry Wastewater with UASB and Hybrid-UASB Reactors	--	2012	GM
11.	2BA04PCM02	P. B. Kalburgi	Dr. C. B. Shivayogimath	--	Water Quality Assessment and Modelling of River Ghataprabha (India)	--	2013	GM



12.	2BA09PCN01	M. N. Hiremath	Dr. C. B. Shivayogimath	--	Fluoride problem in Mundargi Taluka of Karnataka & Column Studies on De-Fluoridation of Water using Low-Cost Adsorbent	--	2017	GM
13.	2BA11PCM01	Siddanagouda Patil	Dr. C. B. Shivayogimath	--	Watershed Development & Management of Hirehalla & GIS a Sustainable Approach for Natural Resource management	--	2019	GM
14.	2BA12PCN02	Prashant Bhagawati	Dr. C. B. Shivayogimath	--	Electro Chemical Treatment of Paper and Pulp Industry Effluent	--	2022	GM
15.	2BA10PCN01	Guruprasad M.Hugar	Dr. V. S. Soraganvi	--	Effect of SOC on Unsaturated Soil Properties	--	2015	GM
16.	2BA11PCM03	G. M. Hiremath	Dr. V. S. Soraganvi	--	Anaerobic Treatment of Wastewater	--	2020	GM
17.	2BA11PGM02	Madhumala Patil	Dr. V. S. Soraganvi	--	Biofilm Induced Reduction of Hexavalent Chromium by Indigenous Microbes	--	2021	GM
18.	2BA12PCN01	Naveen Desai	Dr. V. S. Soraganvi	--	Treatment of Leachate by Nanomaterials	--	2021	GM
19.	2BA13PCN02	Gouri Mirji	Dr. P. B. Kalburgi	--	Treatment of Dairy Wastewater Using Electro Coagulation Technique	--	2018	GM
20.	2BA13PCN03	Abbas Ali Dhundasi	Dr. R. B. Khadiranaikar	--	An Experimental Investigation on RPC Under Repeated Loading	11-02-23	2023	OBC
21.	2BA13PCN05	Aijaz Zende	Dr. R. B. Khadiranaikar	--	An Experimental Investigation on SCC Under Repeated Loading	24-09-22	2022	OBC
22.	2BA13PCN01	Anuradha P. Shirur	Dr. V. S. Soraganvi	--	GIS Application to Watershed Management	--	2022	GM
23.	2BA18PCV02	Sangeeta Mulgund	Dr. P. B. Kalburgi	Dr. P. G. Rakaraddi	Treatment of Textile Wastewater using Advanced Oxidation Process (AOPs)	02-03-24	2024	GM
24.	2BA16PCJ03	Srinivas F. Chitragar	Dr. C. B. Shivayogimath	Dr. Raviraj Mulangi, NITK	Performance Evaluation of Pavement Materials Using Bioenzyme	Thesis Submitted	2024	OBC
25.	2BA17PCA02	Shashank Bhangi	Dr. V. S. Soraganvi	--	RS and GIS Application to Estimation of Evapotranspiration	Completed	2025	GM



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**List of Ph.D's Awarded (2023-24)**

Sl. No.	USN	Name of the Research Scholar	Name of the Guide	Name of the Co-Guide	Title of Ph.D.	Date of Award	Category SC/ST/OBC/GM
1	2BA18PCV02	Sangeeta Mulgund	Dr. P. B. Kalburgi	Dr. P. G. Rakaraddi	Treatment of Textile Wastewater using Advanced Oxidation Process (AOPs)	2024	GM
2	2BA16PCJ03	Srinivas F. Chitragar	Dr. C. B. Shivayogimath	Dr. Raviraj Mulangi, NITK	Performance Evaluation of Pavement Materials Using Bioenzyme	2024	OBC
3	2BA17PCA02	Shashank Bhangi	Dr. V. S. Soraganvi	--	RS and GIS Application to Estimation of Evapotranspiration	2024	GM



**BVV Sangha's  
Basaveshwar Engineering College, Bagalkote  
Department of Civil Engineering  
List of Faculty Pursuing Ph.D. Under QIP  
Academic year 2022-23**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Research Centre</b>	<b>Year of Joining</b>
1	Prof. G. S. Hiremath	IIT Hyderabad	2022



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**Research Grants Received (Last 5 years)**

Sl. No.	Name of the PI	Name of the Co-PI	Title of the Project	Sanctioning Authority	Sanction Letter Number and date	Amount (INR)	Present Status
1	Prof. G. M Hiremath	--	Domestic Wastewater Treatment by Graphene	KSCST	7.1.01/SPP/953 Dtd.16/03/2020	4000.00	Completed
2	Dr. M. M. Hanamasagar	--	An Experimental Study on Effect of Replacement of River Sand by Steel Slag and M-Sand on the Strength Characteristics of Concrete	KSCST	44S_BE_1927 Dtd. 28/05/2021	5000.00	Completed
3	Dr. Parameshwar N Hiremath	--	Comparative Study on Durability of Conventional Concrete, HPC Environment Conditions	KSCST	44S_MTECH_054 Dtd. 28/05/2021	6000.00	Completed
4	Dr. M. M. Hanamasagar	--	Experimental Studies on Assessment of Basic Compressive Stress of Stabilized Compressed Mud Block Masonry by Prism Test	KSCST	7.1.01/SPP/91 Dtd.11/05/2022	7000.00	Completed
5	Prof. S. M. Kalagudi	Dr. P. G. Rakaraddi	Reclamation And Reuse of Greywater by Construction of Wetlands	KSCST	7.1.01/SPP/91 Dtd.11/05/2022	7000.00	Completed
6	Dr. Veena S Soraganvi	Dr. Jayalatha N A	Sustainable Waste Disposal System for a Rural Area	KSCST	7.1.01/SPP/91 Dtd.11/05/2022	6000.00	Completed
7	Prof. Seema Shringeri	--	Experimental Study on Geosynthetic Encased Stone Column with Different Soil	KSCST	7.1.01/SPP/91 Dtd. 11/05/2022	6000.00	Completed

8	Dr. Santhosh M. Malkapur	--	Low-Cost Building Blocks Using Locally Available Materials	KSCST	7.1.01/SPP/91 Dtd. 11/05/2022	6000.00	Completed
9	Dr. Santhosh M. Malkapur	--	Studies on Use of Crumb Rubber in Concrete for Acoustical Insulation Purposes	KSCST	7.1.01/SPP/91 Dtd. 11/05/2022	6000.00	Completed
10	Dr. S H Sanni	Prof. G S Hiremath	A Comprehensive Study on Moment Resisted Connections Under Dynamic Loading	KSCST	7.1.01/SPP/91 Dtd. 11/05/2022	10000.00	Completed
11	Dr. Veena s Soraganvi	--	Treatment of Distillery Spent Wash by Integrated Anaerobic Digestion and Solar Photocatalysis	KSCST	46S_BE_4140 Dtd. 18/5/2023	5000.00	Completed
12	Dr. B.R. Hiremath	--	Catalytic Micropyrolysis of Waste Plastics into Crude Oil	KSCST	46S_BE_5252 Dtd. 18/5/2023	6000.00	Completed
13	Dr. B.R. Hiremath	--	Treatment of Textile Wastewater by Electrocoagulation Process Using Perforated Aluminium Electrodes	KSCST	46S_BE_5470 Dtd. 18/5/2023	5000.00	Completed
14	Dr. Jayalatha N A	--	Performance of horizontal Subsurface flow Constructed wetland for Household Wastewater treatment	KSCST	47S_BE_3619 2023-24	5500.00	Completed
15	Prof. Seema Shringeri	--	Performance of Geo-Synthetic Encased Single and Group of Stone Column with Layered soil	KSCST	47S_BE_3549 2023-24	5000.00	Completed
16	Dr. Jayalatha N A	--	Performance of horizontal Subsurface flow Constructed wetland for Household Wastewater treatment	IWWA	IWWA/SRPP/2024/16 2023-24	10,000.00	Completed
17	Dr. B.R Hiremath	Dr. Madhumala	Removal of Heavy Metals from Wastewater by Bioremediation Method Using Microalgae	IWWA	IWWA/SRPP/2024/41 2023-24	4000.00	Completed
18	Dr. Jayalatha N A	Dr. G.B Megeri	Microbial Fuel Cell Construction for Sustainable Bio-Energy Generation and Wastewater Treatment	KSCST	47S_MTech_0029 2023-24	7000.00	Completed

19	Dr. Jayalatha N A	Dr. G.B Megeri	Microbial Fuel Cell Construction for Sustainable Bio-Energy Generation and Wastewater Treatment	IWWA	IWWA/SRPP/2024/06 2023-24	4000.00	Completed
Grand Total						1,14,500.00	



**BVV Sangha's**  
**Basaveshwar Engineering College, Bagalkote**  
**Department of Civil Engineering**  
**Research Grants Received**  
**Academic Year 2023-24**

Sl. No.	Name of the PI	Name of the Co-PI	Title of the Project	Sanctioning Authority	Sanction Letter Number and date	Amount (INR)	Present Status
1	Dr. B.R. Hiremath	--	Treatment of Textile Wastewater by Electrocoagulation Process Using Perforated Aluminium Electrodes	KSCST	46S_BE_5470 Dtd. 18/5/2023	5000.00	Completed
2	Dr. Jayalatha N A	--	Performance of horizontal Subsurface flow Constructed wetland for Household Wastewater treatment	KSCST	47S_BE_3619 2023-24	5500.00	Completed
3	Prof. Seema Shringeri	--	Performance of Geo-Synthetic Encased Single and Group of Stone Column with Layered soil	KSCST	47S_BE_3549 2023-24	5000.00	Completed
4	Dr. Jayalatha N A	--	Performance of horizontal Subsurface flow Constructed wetland for Household Wastewater treatment	IWWA	IWWA/SRPP/2024/16 2023-24	10,000.00	Completed
5	Dr. B.R Hiremath	Dr. Madhumala	Removal of Heavy Metals from Wastewater by Bioremediation Method Using Microalgae	IWWA	IWWA/SRPP/2024/41 2023-24	4000.00	Completed
6	Dr. Jayalatha N A	Dr. G.B Megeri	Microbial Fuel Cell Construction for Sustainable Bio-Energy Generation and Wastewater Treatment	KSCST	47S_MTech_0029 2023-24	7000.00	Completed
7	Dr. Jayalatha N A	Dr. G.B Megeri	Microbial Fuel Cell Construction for Sustainable Bio-Energy Generation and Wastewater Treatment	IWWA	IWWA/SRPP/2024/06 2023-24	4000.00	Completed
Grand Total						40,500.00	



**BASAVESHWAR ENGINEERING COLLEGE  
(AUTONOMOUS), BAGALKOT**

**DEPARTMENT OF CIVIL ENGINEERING**

**ENVIRONMENTAL ENGINEERING**

List of Program Specific Labs and Computing Facility within  
Department





**BASAVESHWAR ENGINEERING COLLEGE BAGALKOT  
DEPARTMENT OF CIVIL ENGINEERING**

Environmental Engineering Lab Area Details:

<b>SL. No.</b>	<b>Laboratory Description in the curriculum</b>	<b>Area (m<sup>2</sup>)</b>
01	Environmental Engineering Lab	160



B.V.V.S.

**BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS),  
BAGALKOT  
DEPARTMENT OF CIVIL ENGINEERING**

**ENVIRONMENTAL ENGINEERING LABORATORY**

**Instruments for Regular Lab:**

<b>SL. NO.</b>	<b>NAME OF THE EQUIPMENT</b>
1	Jackson Turbidity meter Tube and candle
2	Magnetic stirrer
3	Centrifuge
4	High volume sampler
5	Electronic weighing machine capacity 1 kg
6	Pipette washer Steel electric
7	Digital conductivity meter
8	KCl solution 0.01M, 500ml
9	Model 316 Conductivity/TDS/Salinity meter
10	Muffle furnace heat control
11	BOD Incubator
12	Distillation unit Horizontal type



**BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS),  
BAGALKOT  
DEPARTMENT OF CIVIL ENGINEERING**

**ENVIRONMENTAL ENGINEERING LABORATORY**

**Instruments for Research:**

<b>SL. NO.</b>	<b>NAME OF THE EQUIPMENT</b>
1	TOC Analyzer
2	UV Spectrometer
3	Flame Photometer



**Total Organic Carbon (TOC) Analyzer**



**Total Organic Carbon (TOC) Analyzer**



**Performing titration for different experiments**



**Performing titration for different experiments**



**Jar test apparatus**





**Flame Photometer**

**Basaveshwar Engineering College, Bagalkote**

**Department Of Civil Engineering**

**Environmental Engineering**

**List of specific facility created in the Department of Civil Engineering**

<b>Sl. No</b>	<b>Item Name</b>	<b>Specifications</b>
1	TOC Analyser	<p>The Total Organic Carbon analyzer present at the GI facility is a TOC-L CPH/CPN analyzer (Shimadzu) information on the applications that can be carried out with this specific device. It is utilized to determine the Carbon-Nitrogen content in fluids and sludge.</p> <p><i>Carbon measurement</i></p> <p>TOC refers to a Total Organic Carbon analyzer, which utilizes a catalytic oxidation combustion technique at high temperature (the temperature raises up to 720 °C), to convert organic carbon into CO<sub>2</sub>. The CO<sub>2</sub> generated by oxidation is measured with a Non-dispersive Infra-Red (NDIR) sensor. By using special kits and (dilution) methods the device can be applied to determine the carbon concentration over an extremely broad range (theoretically from 4µg/L to 30 000mg/L), from pure drinking water to sea water with sludge. In addition, it is possible to indirectly determine the fraction of IC (= "inorganic carbon") arising from dissolved CO<sub>2</sub> and acid salts containing carbon.</p> <p><i>Nitrogen measurement</i></p> <p>By means of a chemi-luminescence reaction also the nitrogen content can be determined in above mentioned samples. Shimadzu's TNM-1, the Total Nitrogen Module, can accurately measure nitrogen over a broad range: Total Nitrogen (TN) from 100ppb to 4000ppm. A nitrogen-containing sample is combusted to NO and NO<sub>2</sub>. The reaction products react with ozone to an excited state of NO<sub>2</sub>. When falling back to the ground level, energy is emitted as light. The nitrogen is measured with a chemi-luminescence detector.</p>

***General preparation/submission of samples***

The sample flow line diameter is 0.5 mm. Therefore, in order to prevent clogging, any particle larger than this size should be eliminated from the sample, for example by means of sedimentation.

Check well whether filtered (0.45µm) or unfiltered samples are required

Suspension should be first be treated with a ultra turrax to obtain as fine particles as possible. Discuss the procedure with Paul van der Ven.

***Types of C or N analyses and corresponding sample submission***

**TC = Total Carbon:** all the carbon in the sample, consisting of both inorganic and organic carbon

**TC samples:** Unfiltered homogeneous (well mixed) samples

**TIC= Total Inorganic Carbon** (often referred to as inorganic carbon IC): carbonate, bicarbonate, and dissolved carbon dioxide (CO<sub>2</sub>).

**TIC samples:** Unfiltered homogeneous (well mixed) samples

**TOC = Total Organic Carbon = TC - TIC:** material derived from decaying vegetation, bacterial growth, and metabolic activities of living organisms or chemicals.)

**TOC samples:** Unfiltered homogeneous (well mixed) samples.

Before the actual measurement, samples are acidified and purged to get rid of the TIC.

**NPOC = Non-Purgeable Organic Carbon** (commonly referred to as TOC; organic carbon remaining in an acidified sample after purging the sample with gas. See here above)

**DOC = Dissolved Organic Carbon:** TOC in a filtered sample.

**DOC samples:** samples filtered through 0.45 µm pores

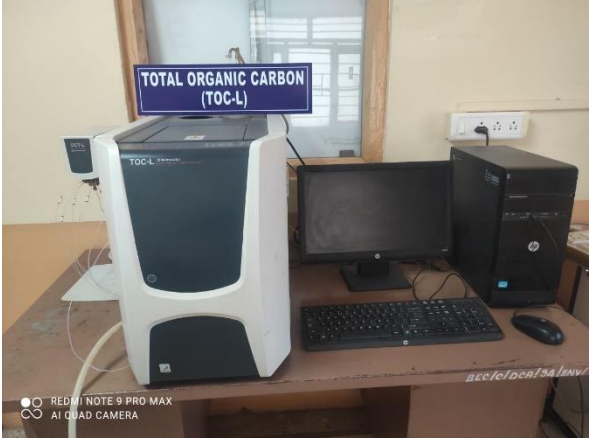
**POC = Particulate Organic Carbon = SOC = Suspended**

**Organic Carbon:** Carbon present in particles larger than 0.5 mm (on our device)

**No POC samples** in our current setup

**TN = Total Nitrogen: all nitrogen present in the samples**


**TN samples:** Unfiltered homogeneous (well mixed) samples


		<p><b>TON = Total Organic Nitrogen:</b> total nitrogen minus the NO<sub>3</sub>, NO<sub>2</sub> and NH<sub>4</sub> fraction (to determine on the auto-analyzers).</p> <p><b>TON samples:</b> Unfiltered homogeneous (well mixed) samples</p> <p><b>DON= Dissolved Organic Nitrogen:</b> total nitrogen in a <i>filtered</i> sample minus the NO<sub>3</sub>, NO<sub>2</sub> and NH<sub>4</sub> fraction (to determine on the auto-analyzers).</p> <p><b>DON samples:</b> Homogeneous (well mixed) samples filtered through 0.45µm pores.</p> 
2	<p>Introduced the Environmental Lab for 3<sup>rd</sup> Semester from 2019-2010 Batch</p>	<ul style="list-style-type: none"> <li>• Testing of water and wastewater: Physical characteristics, Chemical characteristics, Biological characteristics</li> <li>• Sampling and analysis of Ambient air</li> <li>• Solid waste and leachate analysis</li> <li>• Demonstration of Arc-GIS and its applications in environmental Engineering</li> </ul>

**Basaveshwar Engineering College, Bagalkote**



**Department Of Civil Engineering**

**Geotechnical Engineering Laboratory**


Sl. No.	Equipment	Purchased from	Year of Purchase	Cost of the Equipment	Specification (Working)	Usage	Photos
1	Automatic Ring Shear Testing Machine	Chir-Ayu Controls Pvt., Ltd., Vaodra, Gujarat.	2023	1832269.00	<p>Electromechanical servoactuated automatic ring shear machine.                      220-100 V / 50-60 Hz / 1 PH                      Featuring:</p> <ul style="list-style-type: none"> <li>- Servoactuation, no dead weights nor air compressor required</li> <li>- HMI 6 touch screen colour display</li> <li>- Compatible with remote PC control via LAN port with dedicated optional software</li> <li>- Maximum vertical stress: 1,200 kPa</li> <li>- Maximum horizontal stress: 1,000 kPa</li> <li>- Stainless steel ring shear box supplied with two removable sintered porous stone.</li> <li>- Specimen dimensions: internal dia. 70 mm;</li> </ul>	Used to evaluate the residual shear strength of soils for different shear rates	

					<p>external dia. 100 mm.</p> <ul style="list-style-type: none"> <li>- Sample thickness: 5 mm</li> <li>- One displacement transducer measuring vertical settlement.</li> <li>- Two load cells measuring torsional force</li> <li>- Additional load cell directly mounted on the loading tip assuring accurate force reading and feedback</li> <li>- Infinitely variable speed from 0.00001 to 1000 °/min</li> <li>- USB pen drive for unlimited storage capacity, data output with tabular TXT format.</li> </ul>		
2	Automatic Oedometer Testing Machine (Consolidation Equipment)	Chir-Ayu Controls Pvt., Ltd., Vaodra, Gujarat.	2023	821312.00	<p>ACE EmS - Electromechanical Servoactuation, automatic oedometer machine. 220-100 V / 50-60 Hz / 1 PH</p> <p>Featuring:</p> <ul style="list-style-type: none"> <li>- Electromechanical Servoactuation, no dead weights nor compressor required.</li> <li>- Fully automatic PC-controlled test execution</li> </ul>	Used to measure Consolidation characteristics of the given soil	

					<ul style="list-style-type: none"><li>- Automatic next step actuation driven by time, swelling or secondary consolidation rate</li><li>- Maximum vertical force: 20 kN</li><li>- 10 mm displacement transducers measuring vertical settlement</li><li>- 20 kN capacity Load cell measuring vertical force</li><li>- Optimized PID closed-loop control delivering fast smooth and accurate loading and precise load holding through the multiple test steps</li><li>- Infinitely variable speed</li><li>- PC control via LAN port and dedicated software compatible with up to 60 independent units</li><li>- Compatible with consolidation cells up to 112.80 mm diameter</li><li>- Supplied with load and displacement traceable calibration certificate</li></ul>		
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					<ul style="list-style-type: none"> <li>- Optional accessories for CRS and unconfined test</li> <li>- Optional local user interface with 6 touch screen high resolution color display allowing</li> </ul>		
1	Cyclic Triaxial Testing Machine	Chir-Ayu Controls Pvt., Ltd., Vaodra, Gujarat.	2019	53,81,250.00	<ol style="list-style-type: none"> <li>1. Electromechanical servo actuation, without air compressor or hydraulic power supply for the vertical force.</li> <li>2. Maximum dynamic load: 15 kN.</li> <li>3. Maximum static load: 10 kN.</li> <li>4. High strength and compact 2 column frame.</li> <li>5. Standard and user defined wave shapes programmable by user.</li> <li>6. Transducers calibration and verification controlled by software.</li> <li>7. Manual and automatic emergency shut off functions.</li> <li>8. Air reservoir provided with two servo-valves for cell and back pressure control.</li> <li>9. Compact dynamic controller connected to the PC via Ethernet communication link.</li> <li>10. 16 bit ADC input channels for transducers multi voltage power supply.</li> </ol>	<ol style="list-style-type: none"> <li>1. The equipment shall perform the determination of the modulus and damping properties of soils in either intact or reconstituted states by either load or stroke controlled cyclic triaxial techniques.</li> <li>2. The system shall also perform traditional triaxial test such as UU, CU and CD as well as more</li> </ol>	 



						<p>advance test such as stress paths and <math>K_0</math>.</p> <p>3. Assessment of liquefaction resistance of sand with varying silt content.</p> <p>4. Liquefaction parameters of soil can be determined.</p>	
2	Triaxial Testing Machine	AIMILI Pvt. Ltd.	2017	20,25000.00	1. Load Frame, Motorised, 30 speeds, 50kN (5,000 kgf) capacity (AIM-064 ).	<p>1. Measurement of shear strength of saturated and unsaturated soil samples.</p> <p>2. Measurement of pore-water pressure and degree of saturation of soil.</p>	



**BASAVESHWAR ENGINEERING COLLEGE BAGALKOT**  
**DEPARTMENT OF CIVIL ENGINEERING**

**Structural Engineering Laboratory**

Sl. No.	Name of the equipment	Supplier	Quantity	Total amount	Year of Purchase	Purchased Under	Register No. & Page No.	Working (In numbers)
1	Loading Frame 100ton Capacity	-	1	500,488.00	1990	Consultancy	10 (04)	1
2	Ribbon Mixer (Capacity 200 L)	Deepa Engineers	1	208,125.00	2007	TEQIP-I	17 (04)	1
3	Compression Load cell 20T without digital display	Hydraulic and Engineering Instruments	1	98,000.00	2007	TEQIP-I	17 (04)	1
4	Demountable Mechanical Straingauge	Hydraulic and Engineering Instruments	1	22,000.00	2007	TEQIP-I	17 (04)	1
5	LVDT $\pm 50$ mm	Hydraulic and Engineering Instruments	1	64,000.00	2007	TEQIP-I	17 (04)	1
6	Vibrating Table 1m $\times$ 1m	Hydraulic and Engineering Instruments	1	103,500.00	2007	TEQIP-I	18 (04)	1
7	Automatic compression (3000 kN) and Flexure (500kN) testing machine	Hydraulic and Engineering Instruments	1	843,750.00	2007	TEQIP-I	18 (04)	
8	Data acquisition system	Dewetron	1	317,240.00	2010	TEQIP-I	19 (04)	1
9	Metra accelerometer	Dewetron	4	138,432.00	2010		19 (04)	
10	Servo Hydraulic Actuator (500kN) with accessories	Hydraulic and Engineering Instruments	1	6,039,875.00	2013	TEQIP-II	8	1
11	Concret mixer with 3HP electrical motor with 4 scooter tyre 6 $\times$ 16 without hopper	Unitech Industries manufactures and Dealers of construction machinery and spare parts	1	105,800.00	2016	VTU	22 (04)	1
12	Needle Vibrator Electrical handy	Unitech Industries	1	15,341.00	2016	Consultancy	22 (04)	1

	vibrator dia 35mm, 1.5m length	manufactures and Dealers of construction machinery and spare parts						
13	Loading Frame 100ton Capacity	MCS Mechatronics	1	1,816,000.00	2017	TEQIP-II	18	1
14	60 kVA 3 Phase AC 36-480 V stabilizer	Perfect Technologies	1	210,335.00	2018	TEQIP-III	23	1
15	Gantry girder	Star Industries	1	899,999.00	2019	TEQIP-I	24 (04)	1
16	Crack opening displacement gauge with digital camera	Measure India Corporation Pvt. Ltd.	1	230,100.00	2019	TEQIP-III	24	1
17	Servo Controlled compression (3000kN) and Flexure (300kN) testing machine	Chir-ayu Controls PVT LTD	1	1,943,813.00	2019	TEQIP-III	25	1