

## CIVIL ENGINEERING RESEARCH CENTRE

Name of the College: K.V.G. College of Engineering



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
"Jnana Sangama"  
Belagavi – 590018, Karnataka State.**

## RESEARCH CENTRE -2022-23

Name of the Recognized Research centre	<b>Civil Engineering</b>
Year of Est. as Research Centre	<b>2014-15</b>
Number of Eligible Supervisors	<b>02</b>
Number of Candidates Registered for Ph.D.	<b>04</b>
Number of Candidates Registered for M.Sc. (Engg.) by Research	--
Number of faculty with Ph.D.	<b>02</b>
Number of Professors in the department	<b>02</b>
Number of Assoc. Prof. in the department	<b>05</b>
Number of Asst. Prof. in the department	<b>10</b>

## Details of Research Supervisors

Sl. No.	Name of the Research Supervisor	Name of the University from which Ph. D is awarded	Year of Award	Specialization	Department	No. of Candidates Registered for		Status of Completion		
						Ph.D.	M.Sc. (Engg.)	No. of Candidates completed Course Work	No. of Candidates completed Comprehensive Viva-Voce	No. of Candidates completed Submitted Final Thesis
1	Dr. Chandrashekhar A	NITK, Surathkal	2013	Structuralogy, Concrete Technology, Pavement Materials	CIVIL	04	-	03	01	-
2	Dr. Lekha B M	NITK, Surathkal	2016	“Performance studies on pavements using chemically stabilized soils”	CIVIL	-	-	-	-	-

## Details of Research Scholars

Sl. No.	Name of the Research Scholar	Department	Registered for			Status of Completion of		
			Year of Registration	Ph.D.	M.Sc. (Engg.) by Research	Course work [Y/N]	Comprehensive Viva-Voce [Y/No]	Submitted Final Thesis [Y/N]
1.	Mrs. Shreelatha B	Civil	2015	Yes	-	Y	N	N
2.	Ms. Moulya	Civil	2016	Yes	-	Y	N	N
3.	Ms. Sasha Rai	Civil	2018	Yes	-	Y	Y	N
4.	Mr. Subramanya Sharma	Civil	2018	Yes	-	N	N	N

## Publication Details

Sl. No.	Name of the Research Supervisor/ Research Scholar	Title of Paper	Publication Citation	National	International
1	Dr. Chandrashekhar A	A comparative study on egg shell to nuts with partial impalecent of cement FA exp study on partial implacent of cement try FA with glass F.R.	IJRASET, 2015.	-	International
2		Effect of fly ash addition on properties of concrete with Portland cement	Proceedings Advance in Civil Engineering and Infrastructure, Vasavi College of Engineering, Hyderabad pp 41-48, 2014	National	-
3		Performance appraisal of river stone on a C.A in Concrete	IJERA, Vol.4(I-1) pp 93-102 p, 2014	-	International
4		Experimental study on effect of addition of fly ash on the properties of plastic fibers reinforced concrete		-	International
5		"Study on Effect of Local requirement of F A on strength"	International Journal IJCTM Vol.No.2 (2013).	-	International
6		"Effect of soil structure interaction on natural period of multi storeyed buildings on raft foundation",	PSG college of Engg., Coimbatore, 2005	National	-
7		Dynamic soil structures interaction effects on multistoreyed RCC frames	international conference on Advances in structural dynamics and its applications, 2005	-	International

RESEARCH CENTRE -2022-23

8	Dr. Chandrashekhar A	“Fatigue studies on hybrid steel fibre reinforced concrete for rigid pavements”	7 <sup>th</sup> RILEM International Symposium on Fibre reinforced concrete : Design and Applications (BEFIB, 2008 Sept. 17th to 19 <sup>th</sup> 2008) At IIT Madras, Chennai	-	International
9		“Utilization of Fly ask in SFRC Pavement”	Journal of Civil Engineering & Construction Review. Vol. 23, No.1, January 2010.	National	-
10		“Experimental Studies on Utilization of Waste Material for Pavement Quality Concrete”	International Conference on Advances in Concrete Structural and Geotechnical Engineering (ASCGE-2009) held at BITS, Pilani. Oct. 25 – 27, 2009.	-	International
11		‘Fatigue Behaviour of SFRC with Flyash’	Highway research Journal Vol.3, No.1, 2010 and IRC Annual session at Nagpur, 11-11-2010 to 14-11-2010.	National	-
12		‘Fatigue analysis of SFRC’	International Conference at NIT, Roorkela, Orissa. Oct. 8-10, 2010.	-	International
13		“Use of Pulverized and fluidized Combustion coal arch. in be candy road construction”	Journal paper reviewed International Journal of Pavement Engg.	-	International
14		"Earth Science and Engineering"	International Journal on October 2012	-	International
15		"Indian Highway"	International Journal on January 2013.	-	International
16		“Suitability of egg Shell Stabilized lateritic soil as subgrade material for road construction” National Conference on “Development and Opportunities I Civil Engg., Applied Sciences & Mechanical Engg.”	At East West Institute of Technology on 18 <sup>th</sup> and 18 <sup>th</sup> May 2012.	National	-

RESEARCH CENTRE -2022-23

1	Dr. Lekha B M	"Accident data analysis of intermediate lane roads in Dakshina Kannada District"	International Engineering Synopsis (IES-2013) at Kumamoto University, Japan March 4-6, 2013	-	International
2		"Laboratory performance of RBI 81 stabilized oil for pavements"	2nd international conference on Sustainable innovative techniques in Civil and Environmental Engineering" (SITCEE-2014 at Javaharlal Nehru University, New Delhi, January 4-5, 2014.	-	International
3		"Aggregate and bitumen modified with chemicals for stone matrix asphalt mixtures"	International conference on innovations in Civil Engineering SCMS school of Engineering and Technololgy, Ernakulam, Kerala May 08-09, 2014.	-	International
4		"Laboratory investigation on black cotton soil stabilized with non-trditional stabilizer"	International conference on innovations in Civil Engineering SCMS school of Engineering and Technololgy, Ernakulam, Kerala May 08-09, 2014.	-	International
5		"Stone matrix asphalt using aggregate modified with waste plastics"	GeoShanghai 2014 International conference on Geotechnical Engineering ASCE May 26, 2014, Shanghai, Cheena.	-	International
6		"SMA mixtures with modified asphalt and treated aggregates"	2 <sup>nd</sup> T and DI Congress ASCE June 8-11, 2014 in Orlando FL	-	International
7		"Laboratory performance of lateritic soil and soil aggregate mixture with RBI grade 81"	8 <sup>th</sup> international conference on Maintenance and Rehabilitation of pavements (MAIREPAB8) Singapur. (accepted)	-	International
8		"Laboratory performance comparision of stone matrix asphalt mixtures with polymer modified betumen and cellulose fiber stabilizer"	International conference on transportation and development 2016 conducted by ASCETEXAS, USA	-	International
9		"Stone matrix asphalt mixtures with sisal fiber and crumb rubber modified binder"	International conference on sustainable asphalt pavement for developing countries (ICONSAP) 2016, conducted by center for road research institutute (CRR), New Delhi	-	International
10		"Development of perpetual pavements with cement treated base and rich bottom layer using KENPAVE analysis"	International conference on sustainable asphalt pavement for developing countries (ICONSAP), 2016 conducted by CRR, New Delhi.	-	International

RESEARCH CENTRE -2022-23

11	Dr. Lekha B M	"Laboratory studies on Bio enzyme stabilized Lateritic Soil as A Highway Material"	Workshop on Non-Conventional Materials/Technologies Central road research institute, New Delhi 18th Feb. 2012.	National	-
12		"Study on performance of chemically stabilized black cotton soil"	National conference on Recent advanced in Civil Engineering - RACE 2013 KLECET, Belagavi.	National	-
13		"Stabilization of lithomargic clay using RBI 81 for pavement construction"	2 <sup>nd</sup> national conference on Recent Advances in Civil Engineeirn (RACE 2013), SAINTGITS College of Engineering, Kottayam, Kerala 6th and 7 <sup>th</sup> Sept. 2013.	National	-
14		"Laboratory investigation of soil stabilized with nano-chemical" I	GC-2013, Dec. 22-24, 2013, Roorkee	National	-
15		"Laboratory performance of black cotton soil stabilized with terrasil as a pavement material"	Colloquium on transportation systems Engineering and Management CTR, CED, NIT, Calicut, India, May 12 <sup>th</sup> and 13 <sup>th</sup> 2014	National	-
16		"Comparison of bituminous mixtures prepared in Marshal compaction and Gyrotory compactor"	colloquium on Transportation system Engineering and Management CTR, CED, NIT, Calicut, India, May 12 <sup>th</sup> and 13 <sup>th</sup> 2014.	National	-
17		"KENPAVE Analysis for low volume roads with reduced resilient modules values"	2 <sup>nd</sup> conference on Transportation systems Engineeirng and Management, NIT, Tiruchanapalli, Tamilnadu 2015.	National	-
18		"Effect of RBI 81 on laterate soil as a pavement material"	53 <sup>rd</sup> Indian Geo-Technical conference conducted by Indian Geo-Technical Society Pune.	National	-
19		"Fatigue and Engineering properties of Chemically stabilized soil for pavements"	Indian GeoTechnical Journal Vol. 43(1) pp.96-104, 2013	-	International
20		"Laboratory performance of RBI 81 stabilized soil for pavements"	International journal of Civil Engineeirng Research Vol. 5(2) p.p 105-110, 2014	-	International
21		"Laboratory Investigation on black cotton soil stabilized with non-traditional stabilizer"	IOSR journal of Mechanical and Civil Engineering (IOSR) - JMCE p.p. 7-213, 2014	-	International
22		"Aggregate and bitumen modified with chemicals for stone matrix asphalt mixtures"	IOSR journal of Mechanical and Civil Engineering (IOSR) - JMCE p.p. 14-20, 2014	-	International



23	Dr. Lekha B M	"Evaluation of lateritic soil stabilized with arecanut coir for low volume pavements transportation Geo Technics"	Vol. 2 p.p. 22-29, 2015	-	International
24		"Effect of electrolyte lignin and flyash in stabilizing black cotton soil transportation infrastructure Geo technology"	Vol. 2 p.p. 87-101, 2015	-	International
25		"Laboratory performance of stone matrix asphalt mixtures with 2 aggregate gradations"	Journal of modern transportation, Springer 23(2) p.p. 130-136, 2015	-	International
26		"Comparision of stone matrix asphalt mixtures with polymer modified bitumenand plastic coated aggregates"	Road materials and pavement design, taylor and francis"	-	International
27		"Experimental Investigation of stone matrix asphalt mixtures with coir and sisal fibers construction and building materials, Elseveir"		-	International
28		"Laboratory investigation of blended lateritic soil for gravel roads"	International journal of pavement Engineering taylor and Francis.	-	International
29		"Performance and Fatigue behaviour of semi dense bituminous concrete using waste plastics as modifier"	Indian highways vol. 42 No.7 p.p. 23-32, 2014	National	-
30		"Strength and durability properties of RBI 81 stabilized black cotton soil as a pavement material"	Indian roads congress paper No. IRC6(13) 2015	National	-
31		"Stone matrix asphalt mixtures with cellulose fiber and waste plastics"	Indian roads congress journals	National	-

## Details of Existing Research Facilities

Sl. No.	Facility available	Details of Funds Spent
1	Basic Material Testing lab 1) Universal testing machine 4) Vickers 2) Impact testing machine 5) Rockwell Hardness testing machine 3) Brinnels	6,43
2	Concrete and Highway Mat 1) Computer testing machine 3) Rebound machine 6) Compaction test 2) Los Angeles aggregate impact testing machine 4) Concrete cube moulds 5) Beam mould Vibrating table	6,34
3	Geo-Technical Engg lab 1) Direct shear test apparatus 4) Triaxial cell 2) Permeability apparatus 5) CER Test apparatus 6) Swell apparatus 3) Rapid Moisturemeter 7) Oven	4,.4
4	Hydraulics Lab 1) Kaplan turbine 4) Centrifugal pump 7) V and Rectangular Notches 2) Francis turbine 5) Pelton Wheel 8) Orifices 3) Reciprocating pump 6) Mouth piece 9) Venturimeter 10) Orifice meter	7.28
5	Survey Lab 1) Theodolites 5) Plane table and accessories 2) Auto levels 3) Dumpy levels 4) Total station	8.28
6	Environmental lab 1) BOD Incubator 5) Jar test apparatus 9) Refrigerator 2) pH meter 6) Conductivity meter 3) Colorimeter 7) COD Digester 4) Turbidity meter 8) Digital spectrometer	3.16
7	Applied Engg Geology lab 1) Rock specimens 2) Minerals	
8	CAD Lab	10.11