

1. Research Projects undertaken (2011-2017)

No. of Research Projects Undertaken : 1

Title of the Project	Funding agency	Investigator/ Co- Investigator	Total Grant ₹
ENHANCED DESORPTION AND DEGRADATION OF 2,4,6 TNT IN THE SUBSURFACE	DST SERB	DR M DEVASENA	20.71lakhs

2. List of Publications (2011 – 2017)

Number of Research Publications: 182

S.No.	Faculty name	Year of publication	Title of the Paper
1.	Dr. P. Muthupriya	2011	Experimental Investigation on behavior of High Performance Reinforced Concrete columns with silica fume and fly ash as admixtures
2.	Dr. P. Muthupriya	2011	Experimental Investigation on behavior of High Performance Reinforced Concrete columns with silica fume and fly ash as admixtures
3.	Dr. P. Muthupriya	2011	prediction of compressive strength and durability of high performance concrete by Artificial Neural Networks
4.	Dr. R. Venkatasubramani	2011	Relationship between compressive and splitting tensile strength of geopolymers concrete
5.	Dr. R. Venkatasubramani	2012	Experimental Study on Geopolymer Ferro Cement Slab Using Various Wire Meshes
6.	Dr. R. Venkatasubramani	2012	Durability Studies on Fly Ash Based Geopolymer Mortar Cured in Ambient Condition
7.	Dr. R. Venkatasubramani	2012	Strength Study on Fly Ash-Based Geopolymer Mortar”
8.	Dr. R. Venkatasubramani	2012	Acid Resistance Of Flyash Based Geopolymer Mortar Under Ambient Curing And Heat Curing
9.	Dr. R. Venkatasubramani	2012	Strength and workability Character of Self Compacting concrete with GGBFS,FA and SF
10.	Dr. R. Venkatasubramani	2013	Performance of self-compacting concrete containing different mineral admixtures
11.	Dr.Jino John	2012	Evaluation of temperature stresses in fly ash concrete pavements
12.	Dr. P. Muthupriya	2013	Performance of self-compacting concrete containing different mineral admixtures
13.	Dr. P. Muthupriya	2012	Strength and workability Character of Self Compacting

			concrete with GGBFS,FA and SF
14.	Dr. P. Muthupriya	2012	Investigation of Eco-friendly Self Compacting Concrete with admixture
15.	Dr. Anuradha.R	2013	Durability Studies on Fly Ash Based Geopolymer Mortar Cured in Ambient Condition
16.	Dr. P. Muthupriya	2012	Strength and workability Character of Self Compacting concrete with GGBFS,FA and SF
17.	Dr. P. Muthupriya	2013	Investigation of Eco-friendly Self Compacting Concrete with admixture
18.	Dr. Anuradha.R	2013	Durability Studies on Fly Ash Based Geopolymer Mortar Cured in Ambient Condition
19.	Dr. Anuradha.R	2012	Strength Study on Fly Ash-Based Geopolymer Mortar”
20.	Dr. Anuradha.R	2012	Acid Resistance Of Flyash Based Geopolymer Mortar Under Ambient Curing And Heat Curing
21.	Dr. Sreevidya.V	2013	Durability Studies on Fly Ash Based Geopolymer Mortar Cured in Ambient Condition
22.	Dr. Sreevidya.V	2012	Strength Study on Fly Ash-Based Geopolymer Mortar”
23.	Dr. Sreevidya.V	2012	Acid Resistance Of Flyash Based Geopolymer Mortar Under Ambient Curing And Heat Curing
24.	Dr. R. Venkatasubramani	2011	Relationship between compressive and splitting tensile strength of geopolymer concrete
25.	Dr. R. Venkatasubramani	2012	Experimental Study on Geopolymer Ferro Cement Slab Using Various Wire Meshes
26.	Dr. R. Venkatasubramani	2013	Investigation of Eco-friendly Self Compacting Concrete with admixture
27.	Dr. P. Muthupriya	2013	Investigation of Eco-friendly Self Compacting Concrete with admixture
28.	Dr. Anuradha.R	2011	Relationship between compressive and splitting tensile strength of geopolymer concrete
29.	Dr. Anuradha.R	2012	Experimental Study on Geopolymer Ferro Cement Slab Using Various Wire Meshes

30.	Dr. Sreevidya.V	2012	Experimental Study on Geopolymer Ferro Cement Slab Using Various Wire Meshes
31.	Dr. Sreevidya.V	2012	Relationship between compressive and splitting tensile strength of geopolymer concrete
32.	R.Gayathri	2012	Kinetics,mechanism,isortherm and thermodynamic analysis of adsorption of cadmium ions by surface-modified strychnos potatorum seeds
33.	Dr.Devasena .M	2013	In Situ Stabilisation Of Entrapped Elemental Mercury
34.	A.Vennila	2013	Experimental Investigation On High Performance Concrete With Partial Replacement Of Fine Aggregates By Foundry Sand With Cement By Mineral Admixtures.
35.	S.Antony Jeyendran	2013	Influence Of Fibers On Fresh And Hardened Properties Of Self Curing Concrete.
36.	V.Poornima	2013	Experimental Investigation On Strength Aspects Of Internal Curing Concrete Using Super Absorbent Polymer
37.	G.Velrajkumar	2013	Experimental Investigation On Strength Aspects Of Internal Curing Concrete Using Super Absorbent Polymer
38.	Dr. M. Devasena	2013	Migration And Entrapment Of Mercury In Porous Media
39.	Dr. R. Venkatasubramani	2013	Microstructure of Geopolymer concrete based on fly ash using M-sand
40.	Dr. R. Venkatasubramani	2012	Study on Mechanical Properties of Polypoylene fibre Reinforced Geopolymer concrete
41.	Dr. R. Venkatasubramani	2012	Durability Stuuies of geopolymer Concrete solid blocks
42.	Dr. R. Venkatasubramani	2012	Behaviour of High Performance concrete in exterior beam-column joint- a general view
43.	Dr. R. Venkatasubramani	2012	Experimental Investigation on High performance concrete using GGBS as admixture
44.	Dr. R. Venkatasubramani	2012	Statistical Modelling of Geoplymer mortar

45.	Dr. R. Venkatasubramani	2012	Effect of water adsorption ,acid attack and sulphate attack on durability properties of geopolymer mortar
46.	Dr. R. Venkatasubramani	2012	Durability Studies on Geopolymer Mortar under Heat Curing Condition
47.	Dr. R. Venkatasubramani	2012	Modified Guidelines for Geopolymer Concrete mix design using Indian standard
48.	Dr. R. Venkatasubramani	2013	Mechanical Properties of Polypropylene fibre Reinforced Geopolymer concrete using Manufactured sand
49.	Dr. R. Venkatasubramani	2012	Durability studies on Geopolymer mortar under heat curing condition
50.	Dr. R. Venkatasubramani	2012	Analysis of eco friendly Geopolymer concrete beams using sand and M-sand
51.	Dr. R. Venkatasubramani	2013	Experimental study on Fibre Reinforced High performance concrete with silica fume
52.	Dr. R. Venkatasubramani	2013	Study of High Performance concrete with silica fume and Glass fibre
53.	Dr. Anuradha.R	2013	Microstructure of Geopolymer concrete based on fly ash using M-sand
54.	Dr. Anuradha.R	2012	Modified Guidelines for Geopolymer Concrete mix design using Indian standard
55.	Dr. Anuradha.R	2012	Durability studies on Geopolymer mortar under heat curing condition
56.	Dr. Anuradha.R	Mar-13	Statistical Modelling of Geopolymer mortar
57.	Dr. Anuradha.R	Mar-13	Effect of water adsorption ,acid attack and sulphate attack on durability properties of geopolymer mortar
58.	Dr. Anuradha.R		Mechanical Properties of Polypropylene fibre Reinforced Geopolymer concrete using Manufactured sand
59.	Dr. Anuradha.R	2012	Analysis of eco friendly Geopolymer concrete beams using sand and M-sand
60.	Dr. Sreevidya.V	2013	Microstructure of Geopolymer concrete based on fly ash

			using M-sand
61.	Dr. Sreevidya.V	2012	Modified Guidelines for Geopolymer Concrete mix design using Indian standard
62.	Dr. Sreevidya.V	2012	Durability studies on Geopolymer mortar under heat curing condition
63.	Dr. Sreevidya.V	Mar-13	Effect of water adsorption ,acid attack and sulphate attack on dursability properties of geopolymer mortar
64.	Dr. Sreevidya.V	2012	Mechanical Properties of Polypoylene fibre Reinforced Geopolymer concrete using Manufactured sand
65.	Dr. Sreevidya.V	2012	Analysis of eco friendly Geopolymer concrete beams using sand and M-sand
66.	Dr. P. Muthupriya	2012	Experimental Investigation on high performance concrete using GGBS as admixture
67.	Dr. P. Muthupriya	05-Jul	Experimental study on Fibre Reinforced High pwerformance concrete with silica fume
68.	Dr. P. Muthupriya	2013	Study of High Performance concrete with silica fume and Glass fibre
69.	Dr. P. Muthupriya	Apr-13	Behaviour of High Performance concrete in exterior beam-column joint- a general view
70.	Mr.S.Southamirajan	2013	Experimental Investigation on Hybrid Fibre Reinforced Concrete
71.	Mr.S.Southamirajan	May-13	Study on mechanical Properties of Polypropylene Fibre Reinforced Geopolymer Concrete
72.	Ms.V.Poornima	May-13	Study on mechanical Properties of Polypropylene Fibre Reinforced Geopolymer Concrete
73.	Ms.A.Vennila	2013	Experimental Investigation on Hybrid Fibre Reinforced Concrete
74.	Dr.M.Devasena	2014	Insitu stabilization of entrapped elemental mercury
75.	Dr.P.Muthupriya	2014	An experimental investigation on the effect of GGBS &Glass fibre in HPC

76.	Dr.R.Venkatasubramani	2014	A study on the Mechanical Properties of Concrete with partial replacement of Fine aggregate with Sugarcane bagasse ash
77.	Dr.Jino John	2014	Strength study of high volume fly ash concrete with fibres
78.	Dr.P.MuthuPriya	2014	Influence of Hybrid Fiber on Reinforced Concrete
79.	Dr.V. Sreevidya	2014	Influence of Fibers in Strength Characteristics of Ferro-Geopolymer Mortar
80.	A. Vennila	2014	Experimental Investigation on High Performance Concrete with Partial Replacement of fine aggregate by Foundry Sand with cement by Mineral Admixtures
81.	S. Antony Jeyendran	2014	Influence of Fibres on Fresh and Hardened Properties of Self-Curing Concrete
82.	Dr.Sreevidya.V Dr.R.Venkatasubramani	2014	Mechanical properties of fibrous geopolymer mortar in relation with curing conditions
83.	Dr.Sreevidya.V Dr.R.Venkatasubramani	2014	Strength Studies on Geopolymer Mortar for Ferro Geopolymer Water Tank
84.	Dr.P.Muthupriya Dr.R.Venkatasubramani	2014	Study on Performance of HPRC Flexural members under cyclic loading
85.	Dr.P.Muthupriya Dr.R.Venkatasubramani	2014	Behaviour of HFRC Exterior beam column joints under cyclic loading
86.	Dr.Sreevidya.V Dr.R.Venkatasubramani	2014	Impact strength studies on ambient cured fibrous Ferro geopolymer slabs

87.	Ms.V.Poornima	2014	Influence of Fibres On Robustness Characteristics Of Self Curing Concrete
88.	Dr.R.Venkatasubramani Ms.A.Vennila	2014	Experimental investigation on High Performance Concrete with Partial Replacement of Fine Aggregate by Foundry Sand and Cement by Fly Ash
89.	Dr.R.Venkatasubramani	2014	A study on mechanical Properties of concrete with partial replacement of fine aggregate with sugarcane bagasse ash
90.	Dr.R.Venkatasubramani	2014	Strength studies on Geopolymer mortar for Ferro geopolymer Water Tank
91.	Dr.P.Muthupriya	2014	Strength study on Fiber Reinforced Self-Compacting Concrete with Fly ash and GGBFS
92.	Dr.P.Muthupriya	2014	Experimental Investigation on Hybrid Fiber Reinforced Concrete
93.	Dr.P.Muthupriya	2014	Behaviour of Fibre Reinforced HPC in Exterior beam column joint
94.	Dr.P.Muthupriya	2014	Study on Self Compacting Concrete
95.	Dr.Jino John	2014	Strength study on High volume Flyash Concrete with fibres
96.	Dr.Jino John	2014	Strength study of High volume Flyash Concrete
97.	Dr.Sreevidya.V	2014	Strength studies on Geopolymer mortar for Ferro geopolymer Water Tank

98.	Dr.Sreevidya.V	2014	Influence of Fibers in Strength Characteristics of Ferro-Geopolymer Mortar
99.	Dr M Devasena	2014	Transport of mercury in the subsurface
100	Mr.S.Antony Jeyendran	2014	Influence of fibres on Fresh and Hardened Properties of Self-Curing Concrete
101	Mr.S.Antony Jeyendran	2014	Durability study on high volume Fluash concrete with and without fibre for pavements
102	Ms.V.Poornima	2014	Experimental Investigation on strength aspects of Internal Curing concrete using Super absorbent Polymer
103	Ms.A.Vennila	2014	Experimental Investigation on HPC with Partial Replacement of Foundry sand with mineral Admixtures
104	Ms.A.Vennila	2014	Experimental Investigation on Hybrid Fibre Reinforced Concrete
105	Mr.S.Southamirajan	2014	Experimental Investigation on Hybrid Fibre Reinforced Concrete
106	Mr.G.Velraj Kumar	2014	Experimental Investigation on strength aspects of Internal Curing concrete using Super absorbent Polymer
107	Mr.G.Velraj Kumar	2014	Optimization of truss structures
108	Mr.G.Velraj Kumar	2014	An overview of interface Behaviour between concrete to concrete

109	Dr.M.Devasena	2014	Urban environmental pollution 2014
110	Dr.R.Venkatasubramani	2014	Performance evaluation on Hybrid fibre reinforced concrete
111	Dr.P.Muthupriya	2014	Performance Evaluation on Hybrid Fiber Reinforced Concrete
112	Dr.P.Muthupriya	2014	Strength study on Fiber Reinforced Self-compacting Concrete with Ground Granulated Blast furnace Slag
113	Dr.P.Muthupriya	2014	Strength study on fibre reinforced self-compacting concrete with fly ash and GGBFS
114	Dr.Sreevidya.V	2014	Flyash based fibrous geopolymer mortar.
115	Dr.V.Sreevidya Dr.R.Venkatasubramani	2015	Strength Studies on Self Curing High Performance Fibre Reinforced Concrete (HPFRC)
116	Dr.V.Sreevidya Dr.R.Venkatasubramani	2015	Strength Studies On Geopolymer Mortar By Blending Silica Fume With Flyash
117	Dr.V.Sreevidya Dr.R.Venkatasubramani	2015	Strength Study Of Flyash Based Fibre Reinforced Concrete
118	Dr.V.Sreevidya, Dr.R.Venkatasubramani	2015	Strengthen Study On Self Curing High Performance Steel Fibre Reinforced Concrete Using Super Absorbent Polymers

119	Dr. V.Sreevidya Dr.R.Venkatasubramani	2015	Strength Studies On Geopolymer Concrete Using Steel And Glass Fibres
120	Dr. V.Sreevidya Dr.R.Venkatasubramani	2015	Experimental Studies On Geopolymer Concrete Using Flyash And GGBS
121	Dr. V.Sreevidya	2015	Evaluation of shear strength prediction models for FRP reinforced beams without stirrup
122	Dr. V.Sreevidya	2015	Experimental Investigation on Strength Characteristics of Concrete
123	Dr.M.Devasena	2015	Performance of Bioengineered Vertical Subsurface Flow Constructed Wetlands For Treating Industrial Waste Water
124	Dr.M.LeninSundar,	2015	Analysis of Groundwater Quality Around Coimbatore Big Tank, Tamil Nadu, India
125	Dr.M.LeninSundar,	2015	“Assessment of water quality of Coimbatore Big Tank, India”
126	Dr.I.Padmanaban	2016	Experimental study on Strengthening of RC Column by FRP Wire mesh
127	Dr.I.Padmanaban	2016	Strength studies on special concrete beams using Bottom ash as partial replacement of fine aggregate
128	Dr.I.Padmanaban	2016	Experimental Investigation on hene oxide composites with ASH concrete
129	Dr.M.LeninSundar	2016	Experimental study on Magnesium Potassium Phosphate &Cement blended with partial replacement by flyash
130	Dr.M.LeninSundar	2016	Behaviour and Performance of Concrete using waste Papers sludge (Hyposludge)
131	Dr. V.Sreevidya	2016	“Stability Analysis of The Pre Cast Slab Using Porotherm Blocks”
132	Dr. V.Sreevidya	2016	“Waste Foundry Sand as a Replacement for Fine Aggregate in igh Strength Solid Masonry Blocks”
133	Dr. V.Sreevidya	2016	”Experimental Study on Partial replacement of OPC with FA and GGBS in Concrete”.
134	Dr. V.Sreevidya	2016	“Behaviour Of High Volume Fly Ash concrete With And Without Steel Fiber”.

135	Dr. V.Sreevidya	2016	<u>“Experimental Investigation Of Nano Titanium Dioxide On Concrete”</u>
136	Dr. V.Sreevidya	2016	“Experimental Investigation On Blended Geopolymer Mortar Dome Using GGBS”.
137	Dr. V.Sreevidya	2016	<u>“Effect And Strength Behaviour Study Of Concrete On Using Low Density Aggregates”</u>
138	Dr. V.Sreevidya	2016	<u>“Weight Optimisation of Pre-Engineered Steel Building By Genetic Algorithm”</u>
139	Dr.S.Hema	2016	Experimental Studies on Coconut Fibre & Banana Fibre Reinforced concrete
140	Dr.S.Hema	2016	Experimental Investigation on Strength Properties of Concrete Using Colour Adsorbed Flyash
141	Dr.S.Hema	2016	Behaviour and Performance of Pervious Concrete Using Fibers and Mineral Admixtures
142	Dr M Devasena	2016	Synthesis, characterization and performance of high energy ball milled meso-scale zero valent iron in Fenton reaction
143	Dr.M. Devasena	2016	Review on Graphene Oxide composites
144	Ms.A.Vennila	2016	“Strength Studies on Self Compacting Concrete with Foundry Sand and Tile Powder”
145	Ms.A.Vennila	2016	“Experimental Investigation of Mechanical Properties of Self Compacting Concrete with GGBS and Foundry Sand”
146	Ms.A.Vennila	2016	Study on Mechanical Properties of self-compacting concrete with mineral admixtures and glass fibre
147	Dr.S.Hema,	2016	Assessment of surface water quality using multivariate statistical techniques in a part of River Cauvery, Tamil Nadu, India
148	Dr. V.Sreevidya,	2016	Experimental study on flexural and shear behavior of Fibre-reinforced Concrete beams
149	Dr.S.Hema,	2016	Application of Remote sensing & GIS for Demarcation of Groundwater Potential Zones in a part of Cauvery River basin
150	Ms.D.Nancy Deborah,	2016	Risk Management; Means and methods of Analysis
151	Dr.I.Padmanaban.	2016	Experimental study on Magnesium Silicate Hydrate Cement Blended with Partial replacement of GGBS
152	Dr.I.Padmanaban.	2016	Strength Studies On Special Concrete Beams Using Bottom Ash As Partial Replacement Of Fine Aggregate

153	Dr.I.Padmanaban.	2016	Study on Strength Behaviour if Axially Loaded Cracked & Non cracked Short Column Using Wrped FRP Wire Mesh.
154	Dr.I.Padmanaban.	2016	Flexural Behaviour of Concrete using Waste Papers Sludge Ash
155	Dr.M.LeninSundar,	2016	Study on Characteristics of Geopolymer Concrete With E-Waste
156	Dr.M.LeninSundar,	2016	Study on Magnesium Potassium Phosphate Cement Blended With Fly Ash By Concentric Loading Test
157	Dr. V.Sreevidya, & Ms.A.Sangeetha	2016	Effect of Different Types of Super plasticizer on Fresh and Hardened properties of Self Consolidating Geopolymer Concrete
158	Dr. V.Sreevidya, & Dr.M.Devasena,	2016	Dispersion Characteristics and Flexural Behaviour of Titanium Di oxide on Concrete
159	Dr. V.Sreevidya,	2016	Experimental Investigation on Blended Geopolymer Mortar Dome using GGBS
160	Dr. V.Sreevidya,	2016	Flexural behaviour and durability study of concrete on using low density aggregates
161	Dr. V.Sreevidya,	2016	Effect and strength behaviour of column in self compacting concrete using partial replacement by mineral admixture
162	Dr. V.Sreevidya,	2016	Experimental stability analysis of porotherm infill slabs
163	Dr. V.Sreevidya,	2016	Study Of Temperature Variation In High volume Fly Ash Concrete Pavement Slab
164	Dr. V.Sreevidya,	2016	Flexural behaviour of Reinforced Concrete Beam with Self Compacting Concrete
165	Dr.S.Hema,	2016	Experimental Studies on Coconut Fibre & Banana Fibre Reinforced concrete
166	Dr.S.Hema,	2016	Flexural strength behaviour of pervious concrete using fiber and mineral admixtures
167	Ms.A.Vennila,	2016	Seismic investigations of self-compacting concrete beam-column joint
168	Ms.A.Vennila,	2016	Seismic Investigation Of Self-Compacting Concrete Beam-Column Joint
169	Ms.A.Vennila,	2016	Experimental Investigation On Self Compacting Concrete Using Tile Powder and Foundry sand
170	Dr.I.Padmanaban.	2016	Experimental study on Magnesium Silicate Hydrate Cement Blended with Partial replacement of GGBS
171	Dr.I.Padmanaban. & Head	2016	Strength Studies On Special Concrete Beams Using Bottom Ash As Partial Replacement Of Fine Aggregate
172	Dr.I.Padmanaban.	2016	Study On Mechanical Properties Of Low Density Concrete With Partial Replacement Of Coarse Aggregate
173	Dr.S.Hema,	2016	Flexural strength behaviour of pervious concrete using fiber and mineral admixtures

174	Ms.A.Vennila,	2016	Seismic investigations of self-compacting concrete beam-column joint
175	Ms.A.Vennila,	2016	Seismic Investigation Of Self-Compacting Concrete Beam-Column Joint
176	Ms.A.Vennila,	2016	Experimental Investigation On Self Compacting Concrete Using Tile Powder and Foundry sand
177	Dr.V.Sreevidya	2016	Partial replacement of OPC with mineral admixtures
178	Dr.S.Hema	2016	Water quality index of Cauvery river and its three tributaries, South India
179	Dr.M.Devasena	2016	"Nanotechnology for In situ Stabilization of Mercury Contaminated Aquifers"
180	Dr.S.Hema	2016	Understanding Groundwater Chemistry and applicability for Irrigation in a part of Cauvery River basin, South India.
181	Dr.V.Sreevidya	2017	Self Consolidating Geopolymer Concrete as an Aid to Green Technologies - Review on Present Status",Asian Journal of Research in Social Sciences and Humanities
182	Dr.V.Sreevidya	2017	Analysis of an RC beam with super-elastic reinforcement