

BIODATA

1. Name (in capital letters) : **Vimal Mohan**
2. Date of Birth : 05-01-1984
3. Designation : SCIENTIST
4. Date of joining the present post : 29-07-2011
5. Category (SC/ST/OBC/GEN) : GEN
6. CSIR Core Subject : Civil & Structural Engg.
7. Further Sub-Subject specialization of the area : Structural Health Monitoring & NDT
8. Qualifications (starting from Graduation onward) :

SL	Degree	University/ Institute	Year	Remarks
1	Bachelor of Engineering (Civil)	Anna University	2005	First class with distinction
2	Master of Technology (CADS)	VTU, Belgaum	2008	First class with distinction
3	Doctor of Philosophy (Ph.D in Civil Engineering)	IIT Madras	Jan. 2019- ongoing	

9. Employment Details

Sr. No.	Grade / Post	From	To	Lab./Instt.
1	Deputy Manager	August 2008	March 2011	Godrej Industries
2	Project Officer	April 2011	June 2011	IIT Madras
3	Scientist	29-07-2011	July, 2016	CSIR-SERC
4	Sr. Scientist	July, 2016	Till Date	CSIR-SERC

10. Indicate contact details

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R&D Project Details_upto 2016

Sl.No	Title of Project	Project Category	Participating Agencies	Your Role as defined
1	“WOLI”-Wireless Over-load indicator for industrial warehousing system OLP164	OLP 164	CSIR	Project Leader
2	Smart Sensor Based Health Assessment of Constructed Facilities	MLP18341	CSIR-SERC	Team member
3	Intelligent Remote Health monitoring (IRHM) for Bridge Systems	GAP04741	DST	Team member
4	Engineering Sustainable Materials and Structures Action Plan I: Sustainability through Eco-balancing	ESC0208 (SUSMAS)	SINP	Team member
5	Innovative Technologies for Health Assessment and Damage mitigation of Structures	ESC0110 (I-Heal)	NETWORK PROJECT	Team member
6	Engineering Sustainable Materials And Structures Action Plan Ii- Sustainability Through Nano-Technology And Bio-Mimetics	ESC0209 (eNano-Tics)	NETWORK PROJECT	Team member
7	Development of real-time continuous remote health monitoring (RHM) system employing smart sensors and wireless sensor network	In-house R&D MLP16541	CSIR-SERC	Team member
8	Effective Structural Protection against Extreme Loads	In-house R&D MLP 169	CSIR-SERC	Team member
9	Investigations on Behaviour of Composite Panels Subjected to Shock Loading	In-house R&D MLP 147	CSIR-SERC	Team member

Participation in “major programmes” and/ or “facility creation” identified at the National level:

Sl.No	Title of the Project	Coordinating Agency	Contribution being made by you as representative of your organization*
1	Advanced Intelligent cellular gateway with secure wireless Ethernet and 3G-Cellur and Network Manager for Remote Health Monitoring of structures	CSIR-SERC	Procurement, its application and maintenance For R&D, at CSIR-SERC and Industry
2	Setting up of State of The Art Impact Test Facilities at CSIR-SERC Campus	CSIR-SERC	Initial Work on the Laboratory setup has been carried out

Acquisition, operation and maintenance of “major facilities” of the Laboratory/Institute:

Sl.No	Title of the Facility	Your role in brief*	Beneficiaries*
1	3G-Cellur and Network Manager for Remote Health Monitoring of structures	Indentor and Managing the facilities	Scientists of CSIR-SERC
2	Advanced Intelligent cellular gateway with secure wireless Ethernet	Managing the facilities	Scientists of CSIR-SERC

Enlist notable contributions

- CSIR-Translational Project “WOLI”-Wireless Overload indicator for Industrial Warehousing application is one of the three translational project selected from CSIR-SERC. (Individual Achievement)
- Development of algorithm using ARMA for data reduction in wireless sensors communication for Real Time Health Monitoring of structure. (Individual Achievement). Development of algorithm for wireless sensor used for damage detection and localization used for Remote Health Monitoring. (Individual Achievement)
- Development of software tools for web based structural health monitoring. Indigenous development of wireless sensor for Remote Health Monitoring. Performance evaluation of wireless sensors with that of Conventional Sensors at Laboratory Level. (Individual Achievement)
- Field deployment of wireless structural testing system by instrumenting it in concrete railway bridge and evaluating the performance with respect to conventional sensor system. Reliability and accuracy study on Wireless Data Acquisition (WDA) software developed using LabVIEW for real time data acquisition was carried out. Application

of advanced Intelligent cellular gateway with secure wireless Ethernet and 3G-Cellular and Network Manager for Remote Health Monitoring of Structures. (Team work)

- Research finding has been incorporated in “World Scientific Handbook of Experimental Results on High Speed Penetration into Metals, Concrete and Soils” World Scientific published in Israel. (Individual Achievement)
- “Evaluation of Fire-damaged concrete structures with a case study” has been included in book Fire Research and Engineering, Narosa Publishers. (Team work)
- Reviewer in International Journal of Structural Stability and Dynamics. World scientific press and internal reviewer at CSIR-SERC (Individual Achievement)
- Development and Testing of Real time health monitoring system in association with M/s. Mayura automation & robotic systems. Detection and localization of damage in numerical model developed using correlation method. (Individual Achievement)
- Performance evaluation of indigenously developed fully packaged FBG sensors by conducting laboratory tests. Validation of the developed instrumentation methodology for corrosion monitoring using FBG sensors by conducting experimental studies (Team work)
- Evaluation of longitudinal forces along the arch bridge using Flat jack technique in a stone arch masonry Railway Bridge. Field deployment of wireless structural testing system by instrumenting it in Prestressed Railway Bridge and a stone arch masonry Railway Bridge and evaluating the performance with respect to conventional sensor system.
- Reliability and accuracy study on Wireless Data Acquisition (WDA) software developed using Labview for real time data acquisition was carried out. Studies were carried out to find the reliability and accuracy of software developed using Labview for real time data acquisition.
- Experimental studies were carried out to evaluate the impact behavior of Micro reinforced concrete subjected to high velocity impact at different angle of inclination. Developed a numerical model using FE tool to study the impact behavior of micro reinforced concrete panel subject to high velocity impact erosion criteria of interacting element of an impact related problem, and validating with that of experimental output
- Preliminary inspection of various industrial and infrastructures and discussion with various agencies related to the projects on the condition assessment of reinforced concrete structures, performance evaluation for corrosion resistance of different materials in reinforced concrete structures (preparation of consultancy and sponsored project proposals). (Team work)

Significance/impact of your work on industry/ society/environment/nation as a whole

- Development of algorithm using ARMA for data reduction which can be used in wireless sensors for data compression in Real Time Health Monitoring of structure.
- Condition assessment on the main plant civil structures of KAPS 1 & 2 NPCIL, Kakrapar, KGS 3 & 4 NPCIL, Kaiga, Gujrat a Nuclear Power Corporation of India, Ltd, foundations of re-heating furnaces and RCC structures of LMMM (one unit) of Visakhapatnam Steel Plant (VSP), Vizag.
- Performance evaluation of steel plate girder railway bridges, a stone arch masonry Railway Bridge and a prestressed concrete slab railway bridge under increased axle loads of freight wagons in connection with the sponsored project from M/s Southern

Railways, Chennai. Load carrying capacity of the masonry arch bridge was evaluated by conducting load tests which can be used for gauge conversion works by Southern Railway.

- Residual stress estimation in leaf springs was used to compare the stress levels in indigenous and imported specimens and will be used for improving the design of indigenous specimens.
- Impact resistance evaluation of micro reinforced concrete panels subjected to high velocity impact. Impact resistant (ballistic range) panels are need of the hour. Developing of impact resistant panels can be recommended to general public and defense establishment

PUBLICATIONS

Papers published in Journals (National/International) _Upto 2016

Sl. No	Authors	Title of the Article	Year of Pubn	Name of Journal	Country	Vol No. Issue, Pages	DOI
1	Vimal Mohan & Vishnu C R	Joint Stiffness of Cold-Formed Steel Pallet Rack Connections: A Comparison of the Methodology	2012	Journal of Structural engineering (CSIR-SERC)	India	Vol. 40 (5):pp 457-465	
2	Vimal Mohan, P. Prabha, J. Rajasankar, Nagesh R. Iyer, N Raviswaran, V Nagendiran, SS Kamalakannan	Cold-formed steel pallet rack connection: an experimental study	2015	Journal of advanced structural engineering, Springer Publication	Germany	Vol.7, 2015, pp.55-68	10.1007/s40091-015-0082-9
3	Vimal Mohan, J. Rajasankar & Nagesh R Iyer	Response Simulation of Micro Reinforced Concrete Target under Ballistic Impact	2014	International Journal for Computational Methods in Engineering Science and Mechanics	U.S.A	Vol. No.15, Issue3, pp: 302-308	10.1080/15502287.2014.82443
4	Vimal Mohan, S. Parivallal, K. Kesavan, B. Arunsundaram, A. K. Farvaze Ahmed and K. Ravisankar	Studies on Damage Detection Using Frequency Change Correlation Approach for	2014	Procedia Engineering, Elsevier publication	India	Vol.86 2014 pp 503 - 510	10.1016/j.proeng.2014.11.074

		Health Assessment					
5	Vimal Mohan & S.Prema	Damage Detection of a Steel Monopole Using Correlation Approach	2014	Journal of Research and Innovations in Science and Technology	India	Vol: 1, 2014, pp18-22	
6	B.Arun Sundaram, S.Parivallal, K.Kesavan, A.K.Farvaze Ahmed, Vimal Mohan and K.Ravisanakar	Development of wireless sensor system for condition assessment of civil infrastructures	2015	ISTE SRM International journal of civil engineering	India	Vol 1, Issue 1, pp 92-103	

Papers published in Conference Proceedings_Upto 2016

Sl. No	Authors	Title of the Article	Date/Year	Name of Conference	Venue	Vol No. Pages	Publisher
1	Vimal Mohan, P. Srinivasan & S. Saibabu	Ultrasonic Pulse Velocity Method for Evaluation of Concrete Quality-Limitations and Critical Analysis	2016	Structural Engineering Convention (SEC)-2016	CSIR-SERC	1542-1547	CSIR-SERC, IIT-Madras, Anna University
2	Kanniga. K, Vimal Mohan , Parivallal.S., Kavitha,O.R.	Damage detection in structures using lamb wave technique	2015	International conference on advanced engineering and technology for sustainable development (ICAETSD 2015)	Karpagam college of engineering Coimbatore	CD Form	
3	Kanniga. K, Vimal Mohan , Parivallal.S., Kavitha,O.R.	Damage detection in structures using lamb wave technique-A parametric study	2015	National conference on innovations in concrete and construction (ICON 2015)	Sona college of engineering, Salem,	CD format	
4	ShanmugaPriya P, M Saravanan, Vimal Mohan , P S Joanna, V Marimuthu, M	Numerical Simulation On Beam-Column Connection of	2015	ICSIE- International Conference on Science and Innovative	Jawhar Engineering College, Chennai	CD Format	

	Surendran, P Prabha, G S Palani	Cold Form Steel Pallet Racks		Engineering- 2015			
5	Mahalakshmi Shankar, Vimal Mohan , Parivallal,S., Sivakumar, A	Damage detection using natural frequency change in steel structures	2015	International Conference on Advanced Engineering and Technology for Sustainable Development (AETSD) 2015	Karpagam College of Engineering, Coimbatore	CD format	
6	Mahalakshmi Shankar, Vimal Mohan , Parivallal,S., & Shaik Mahabu Subhani	Correlation based method for damage detection	2015	National conference on innovations in concrete and construction (ICON 2015)	Sona college of engineering, Salem,	CD Format	
7	Vimal Mohan & S. Prema	Correlation based damage detection for structural health assessment	2014	International conference on advances in civil engineering and chemistry of innovative materials	SRM University, Chennai	PP 67- 72, 2014	SRM Univer sity
8	Vimal Mohan & S. Prema	Studies on correlation based damage detection for structural health assessment	2014	National conference on recent advances in civil engineering (RACE '14)	P.S.R. Engineering College, Sivakasi	CD Form	P.S.R. Engin ering Colleg e
9	Vimal Mohan , Parivallal , S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed. A.K. and Ravisankar, K	Studies on damage detection using frequency change correlation approach for health assessment	2014	International Conference on Structural Integrity	IGCAR, Kalpakkam,	CD format	IGCA R Kalpak kam
10	P.Srinivasan, A.Cinitha, Vimal Mohan & Nagesh R.Iyer	Evaluation of fire-damaged concrete structures with a case study	2014	National confere nce on Fire Research and Engineering,FiR E2014	IIT,Roorkee	81-86	Dept. of Mecha nical Engg. IIT,Ro orkee
11	Prema S., Vimal Mohan , Parivallal S., Ravisankar K., & Robert Ravi S	Correlation based damage detection for	2014	International Conference on Advances in Civil	SRM University, Chennai,	99-105.	SRM Univer sity,

		structural health assessment'		Engineering and Chemistry of Innovative Materials (ACECIM-2014),			Chennai
12	Vimal Mohan, Rajasankar. J, & Nagesh R Iyer	Response Simulation of Micro Reinforced Concrete Target under Ballistic Impact	2012	International Congress on Computational Mechanics and Simulation (ICCMS)	IIT-Hyderabad	CD format	
13	Sithara,S. , Vimal Mohan, Rajasankar,J, Nagesh R Iyer, & Amudhavalli,N.K	Numerical Investigations on Micro Reinforced Concrete Panels Subjected to High Velocity Impact	2012	Latest Advancements in civil engineering	RMK Engg College Chennai	81-86	
14	Sithara,S. , Vimal Mohan, Rajasankar,J, Nagesh R Iyer, & Amudhavalli,N.K	Numerical Investigations on Micro Reinforced Concrete Subjected to High Velocity Impact	2012	Proceedings of National Conference on Innovations in Civil Engineering	SCMS-Kochi	77-80	
15	Prabha, P., Vimal Mohan, Marimuthu, V., Saravanan, M. & Arul Jayachandran, S	Axial compression behavior of perforated upright sections	2011	Proc. of the International Conference on Civil, Structural and Environmental Engineering,	Tiruchengodu	pp. 213-217	
16	Sithara, S., Vimal Mohan, Rajasankar, J., Nagesh R. Iyer & Amudhavalli, N. K	Numerical investigations on micro reinforced concrete subjected to high velocity impact	2012	Proc. of the National Conference on Innovations in Civil Engineering	Ernakulam	pp. 77-80	
17	Sithara, S., Vimal Mohan, Rajasankar, J., Nagesh R. Iyer, & Amudhavalli, N.K	Numerical investigations on micro reinforced concrete panel subjected to high velocity impact	2012	Proc. of the Latest Advancement in Civil Engineering National Conference	Chennai	pp. 81-86	

Contribution to Books

Sl. No	Editors	Title of the chapter	Year of Pubn	Title of Book	Country	Edition No.	Publisher
1.	Gabi Ben-Dor, Anatoly Dubinsky, & Tov Elperin	Penetration into Concrete and reinforced concrete	2016	World Scientific Handbook of Experimental Results on High Speed Penetration into Metals, Concrete and Soil	Israel	1	World Scientific
2	Akhilesh Gupta, Ravi Kumar, Shashi, Amit Dhiman, & Surendra Kumar	Evaluation of Fire-Damaged Concrete Structures with a Case Study	2015	Fire Research and Engineering	India	1	Narosa Book

Enlist institutional publications_Upto 2016

1. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., **Vimal Mohan**, and Ravisankar, K., “Studies on the performance evaluation of a wireless sensor system”, R&D 02-MLP-18341-RR-04, August 2015.
2. **Vimal Mohan**, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., and Ravisankar, K., “Studies on damage detection using Lamb wave technique”, R&D 02-MLP-18341-RR-05, August 2015.
3. Kesavan, K., Parivallal, S., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Studies on corrosion monitoring in bacterial concrete using FBG sensors”, R&D 02-MLP-18341-RR-06, August 2016.
4. Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “State – of- the- art report on remote structural health monitoring of civil structures”, Grant-in-aid Project Report No. R&D 02-GAP-04741-RR-01, April- 2015.
5. **Vimal Mohan**, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K. and Ravisankar, K “Autoregressive moving average for tested time series data” R&D 02-MLP 18341-RR-07, May 2016.
6. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Development of computational tools for data compression in wireless sensor networks”, R&D 02-MLP 18341-RR-08, June 2016.
7. Srinivasan,P., Saibabu, S., **Vimal Mohan**, Gopalakrishnan, N, Condition assessment of 270 m height RCC Chimney of SKS Power Generation Chattisgarh Company Ltd., (SKSPGCL), Raigarh, Chattisgarh, R&D 02 – SSP 153– SR – 01, June 2015.

8. Srinivasan P., Gopalakrishnan, N., and **Vimal Mohan**, “Condition assessment of cooling tower fan pedestal and recommendation for repair measures”, Sponsored Research Project report No. R&D 02-SSP-17241-SR-01, interim report, July 2015.
9. Srinivasan,P., Gopalakrishnan, and **Vimal Mohan**, Condition assessment of cooling tower fan pedestal and recommendation for repair measures- R&D 02 – SSP 172–SR-01, August 2015
10. Srinivasan,P., Saibabu, S., Arunsundaram,B., and **Vimal Mohan**, Condition assessment of foundations of re-heating furnaces and RCC structures of LMMM (one unit) of Visakhapatnam Steel Plant, R&D 02 – SSP 176– SR – 01, December 2015
11. Srinivasan, P., **Vimal Mohan**, “Condition assessment of the portion of a RCC Building” of New India Assurance, Chennai, R&D 02 – SSP 172–SR- 01, December 2015
12. Prabakar, J, B.H. Bharathkumar, S. Bhaskar, J. Daniel Joseph, B. Arunsundaram, G Ramesh, A K Farvaze Ahmed, **Vimal Mohan**., et. al., ‘Condition assessment of civil structures of KAPS 1 & 2 (NPCIL), Gujarat by Non destructive test methods’, Sponsored Research Project report R&D 02-SSP 17341-01, October 2015
13. **Vimal Mohan**, Parivallal, S., Arun Sundaram, B., Farvaze Ahmed, A.K., Kesavan, K., and Ravisankar, K., “Methodologies for health assessment of structures using smart sensor”, CSIR-SERC, Research Report No. R&D 02-MLP-18341-RR-03, January 2014.
14. **Vimal Mohan**, parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., and Ravisankar, K., “Studies on multiple damage using correlation approach”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-23, June 2014.
15. Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Model strain energy approach for damage identification of a space frame”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-18, June 2014.
16. Kesavan, K., Parivallal, S., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Studies on embeddable type packaged strain temperature FBG sensor for concrete structure”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-19, June 2014.
17. Arun Sundaram, B., Parivallal, S., Farvaze Ahmed, A.K., Kesavan, K., **Vimal Mohan**, Aditya Kaushik and Ravisankar, K., “Development of damage detection technique using static strain and deflection data”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-20, June 2014.
18. Arun Sundaram, B., Parivallal, S., Farvaze Ahmed, A.K., Kesavan, K., **Vimal Mohan**, and Ravisankar, K., “Demonstration of developed remote health monitoring techniques using wireless sensors in abridge structure”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-21, June 2014.
19. Farvaze Ahmed, A.K., Parivallal, S., Arun Sundaram, B., Kesavan, K., **Vimal Mohan** and Ravisankar, K., “Three dimensional analysis of concrete slab with slot under uni-axial tension”, CSIR-SERC, Research Report No. R&D 02-MLP-16541-RR-22, June 2014.
20. Prabha, P, Ramesh Kumar, V., **Vimal Mohan**, Balagopal, R., Bhuvaneshwari, B., Palani, G.S., and Nagesh R.Iyer, “Mechanical and electrochemical aspects of micro alloyed steel”, CSIR-SERC, Research Report No. R&D 03-MLP-16641-RR-22, June 2014.
21. Arun Sundaram, B., Parivallal, S., Farvaze Ahmed, A.K., **Vimal Mohan**, Kesavan, K. and Ravisankar, K., ‘Recent developments in web based management for structural

- health monitoring’, CSIR-SERC Research Report No. R&D 02-MLP 18341-RR-01, January 2015
22. Farvaze Ahmed, A.K., Parivallal, S., Arun Sundaram, B., **Vimal Mohan**, Kesavan, K. and Ravisankar, K., ‘Computational tools for data reduction, signal analysis, feature extraction for damage/defect identification and assessment towards prediction of structural health -A state of the art report’, CSIR-SERC Research Report No. R&D 02-MLP 18341-RR-02, January 2015
 23. Farvaze Ahmed, A.K., Parivallal, S., Arun Sundaram, B., **Vimal Mohan**, Kesavan, K., and Ravisankar, K., “Computational tools for data reduction, signal analysis, feature extraction for damage defect identification and assessment towards prediction of structural health- A state of the art report”, CSIR-SERC, Research Report No. R&D 02-MLP-18341-RR-03, January 2015
 24. Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan**, Murthy S.G.N., and Ravisankar, K., ‘Development of realtime continuous remote health monitoring (RHM) system employing smart sensors and wireless sensor networks’, CSIR-SERC research Completion report no. R&D 02-MLP 16541-RR-24, September 2014
 25. Parivallal, S., Ravisankar, K., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., and **Vimal Mohan**, ‘Instrumentation and deflection measurement of arch bridge No. 1061 during load test’, CSIR-SERC consultancy project report no. R&D 02-CNP 64461-CR-01, August 2014
 26. Ravisankar, K., parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., and **Vimal Mohan** “Experimental investigation on super structure of the Godavari pipeline bridge”, Sponsored Research Project report No. R&D 02-SSP-142-SR-01, 2014.
 27. Srinivasan P., Saibabu, S., Prabakar, J., **Vimal Mohan**, Palani, G.S., Ravisankar, K., Ramanjaneyulu, K., and Nagesh R.Iyer, “Field investigations of cooling tower-3 *Stage-I) of TPS-II at NLC, Neyveli”, Sponsored Research Project report No. R&D 05-SSP-137-SR-02, May 2014.
 28. Arun Sundaram, B., **Vimal Mohan**, Rama Rao, G.V., Farvaze Ahmed, A.K., Srinivasan, P., Gopalakrishnan, N., Palani, G.S., Ravisankar, K., and Nagesh R.Iyer, “Field investigations of 275 m chimney of 1215 MW captive power plant at SSL, Jharsuguda”, Sponsored Research Project Report No. R&D 03-SSP-14341-SR-01, May 2014.
 29. P. Srinivasan, Arun Sundaram, B.,**Vimal Mohan**, Rama Rao, G.V., Farvaze Ahmed, A.K., P., Gopalakrishnan, N., Palani, G.S., “ Field investigations of 275 m chimney of 1215 MW captive power plant at SSL, Jharsuguda”, R&D 02 – SSP 143– SR – 01, May 2014.
 30. Srinivasan P., Bharatkumar, B.H., Saibabu, S., **Vimal Mohan**, Ramanjaneyulu, K., Ravisankar, K., and Nagesh R.Iyer, “Condition assessment of main plant civil structures at Kaiga generating station- 1 & 2, Kaiga, , Kaiga”, Sponsored Research Project report No. R&D 02-SSP-140-SR-01, June 2014.
 31. Parivallal, S., S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “In-situ stress measurement on super structure of Sone river bridge at Chopan near Varanasi”, Sponsored Research Project report No. R&D 02-SSP-1490-SR-01, July 2014.
 32. Surendran, M., Marimuthu, V. Ramesh Kumar, V., Palani, G.S., Prabha, P., Saravanan, M. Farvaze Ahmed, A.K., **Vimal Mohan** and Nagesh R.Iyer, “Analysis of single lane bridge of all spans other than 220ft and 180 ft for all load cases to prepare complete

- load span charts”, Sponsored Research Project report No. R&D 03-SSP-115-SR-01, September 2014.
33. Ramesh Kumar, V., Farvaze Ahmed, A. K, Ramachandra Murthy, A., Smitha Gopinath, Arun Sundaram, B., **Vimal Mohan**, Surendran, M., Palani, G.S., Ravisankar, K., and Nagesh R.Iyer, “Analytical investigations of 275 m chimney of 1215 MW captive power plant at SSI, Jharsuguda”, Sponsored Research Project report No. R&D 03-SSP-143-SR-02, November 2014.
 34. Srinivasan P., Saibabu, S., **Vimal Mohan**, and Gopalakrishnan, N., “Condition assessment of 270 m height RCC Chimney of SKS Power Generation Chattisgarh Company Ltd., Raigarh, Chattigarh”, Sponsored Research Project report No. R&D 02-SSP-15341-SR-01, February 2015.
 35. Ramanjaneyulu, **Vimal Mohan** et. al. ‘Performance evaluation of reinforced concrete I girder bridge no. 44 near ennore inder increased axle loads of freight wagons (cycle III measurements), Sponsored research project report No. R&D 04_SSP 076-SR-19, May 2014.
 36. Ramanjaneyulu **Vimal Mohan** et. al. ‘Performance evaluation of reinforced concrete I girder bridge no. 44 near ennore inder increased axle loads of freight wagons (cycle IV measurements), Sponsored research project report No. R&D 04_SSP 076-SR-20, June 2014.
 37. Parivallal, S., Kesavan, K., Arun Sundaram, B., **Vimal Mohan**, Farvaze Ahmed, A.K., and Ravisankar, K., ‘Evaluation of residual stress on leaf spring’, CSIR-SERC consultancy project report no. R&D 02-CNP 64541-CR-01, December 2014
 38. **Vimal Mohan**, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K. and Ravisankar, K., " Damage detection using frequency change correlation approach" R&D 02-MLP 16541-RR-13, July 2013.
 39. **Vimal Mohan**, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K. and Ravisankar, K., “Damage detection Algorithm for correlation based approach" R&D 02-MLP 16541-RR-14, September 2013.
 40. Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., 'Damage assessment of structural elements using vibration based methodology for wireless sensor network', R&D 02-MLP 16541-RR-09, June 2013.
 41. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., **Vimal Mohan**, Kathiresan, S., and Ravisankar, K., “Measurement and acquisition using WiFi based wireless structural testing system”, R&D 02-OLP 16541-RR-10, June 2013.
 42. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Performance evaluation of WiFi based wireless structural testing system on a plate girder”, R&D 02-MLP 16541-RR-11, July 2013.
 43. Arun Sundaram, B., Parivallal, S., Farvaze Ahmed, A.K., Kesavan, K., **Vimal Mohan** and Ravisankar, K., “Studies on the development of damage detection technique based on static test data”, R&D 02-MLP 16541-RR-15, November 2013.
 44. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., **Vimal Mohan** and Ravisankar, K., “Studies on the development of Software for Wireless Sensor Networks” R&D 02-MLP 16541-RR-17, January 2014.
 45. Ravisankar, K, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K. and **Vimal Mohan**., " Experimental investigations on Super structure of the Godavari pipeline Bridge (GPB)" R&D 02-SSP142-SR-01, March 2014.
 46. Ramanjaneyulu, K., **Vimal Mohan** et al., “Performance evaluation of railway plate girder bridge No. 145 (UP) under increased axle loads of freight wagons (Cycle –IV Measurements), Sponsored Research Project Report No. R&D 04-SSP 07641-SR-13, May 2013.

47. Ramanjaneyulu, K., **Vimal Mohan** et al., “Performance evaluation of railway stone masonry arch bridge No. 42 under increased axle loads of freight wagons (Cycle –IV Measurements), Sponsored Research Project Report No. R&D 04-SSP 07641-SR-15, July 2013
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65. Anandavalli, N., Amar Prakash, **Vimal Mohan**, Rajasankar, J. and Nagesh R. Iyer, ‘Cyclic behaviour of laced steel-concrete composite panels’, CSIR-SERC Research Report No. R&D 04–MLP147–RR–09, December 2011
66. Chitra Sankaran, Anandavalli, N., Rajasankar, J., Amar Prakash, **Vimal Mohan**, Mohit Verma and Nagesh R. Iyer, ‘Software module for blast resistant design’, Research Report No. R&D 04-MLP14741-RR-11, February 2012
67. Rajasankar, J., Anandavalli, N., Amar Prakash, Nagesh R. Iyer, **Vimal Mohan** and Mohit Verma, ‘Investigations on behaviour of composite panels subjected to shock loading’, CSIR-SERC Research Completion Report No. R&D 04-MLP147-RR-12, March 2012

Consultancy Projects_Upto 2016

Sl.No	Title of the project	Project Type/Category	Amount received with your initiative (Rs. in Lakhs)	Govt./ Industry	Lab Reserve generation (Rupees)
2012-13					
1	Design Validation of 50m High Tower- CNP-6408 (P.K. Umesha (P.L.) , Nagesh R Iyer, K. Ravi Shankar, G.S. Palani, Amar Prakash, Marimuthu, A. Cinitha, Vimal Mohan)	CNP	2.80	Private	35000
2	Design Validation of 50m High Tower 6423 (P.K. Umesha (P.L.) , A. Farvaze Ahmed, G.S. Palani, K .	CNP	3.90	Private	55714

	Ravi Shankar, Vimal Mohan, Marimuthu, A. Cinitha,)				
3	Checking the Structural Design of 40m high Telecom Tower – TSP-5492 (P.K. Umesha (P.L.) , Vimal Mohan, A. Cinitha,)	TSP	1.02	Private	33800
4	Experimental investigations on super structure of the narmada Bridge at Bharuch, Gujarat, & Phase-II – SSP-121 (S. Parivallal (P.L.) , A. Farvaze Ahmed, B. Arun Sundar, Vimal Mohan, K. Kesavan, K. Ravi Shankar)	SSP	15.50	Private	258333
2013-14					
5	Analysis of Single Lane Bridges of all Spans other than 220ft and 180ft for all load cases to prepare complete load span charts - SSP-115 (G.S. Palani (P.L.) , Vimal Mohan, M.Saravanan, K.R. Ravi A.Farvaze Ahmed, V. Ramesh Kumar, Smitha Gopinathan, Marimuthu, Shankar, Nagesh R Iyer)	SSP	11.87	Public Sector	148381
6	Structural health & integrity check of the existing shop floor buildings of BHPV, Visakhapatnam: Phase-I-SSP-127(G.S.Palani (P.L.) , Vimal Mohan, M. Saravanan, K.R. Ravi V. Ramesh Kumar, Marimuthu,	SSP	34.06	Public Sector	378500

	Shankar, Nagesh R Iyer, Balagopal)				
7	Analytical and field Investigations of Reinforced Concrete Chimney shell and scheme to repair the external platform, TPS-I Expansion, NLC, Neyveli – SSP-137 (P. Srinivasan (P.L.) , Vimal Mohan, M. Saravanan, A.Farvaze Ahmed, V. Ramesh Kumar, K.R. Ravi Smitha, Shankar, Sundar, S. Sai Babu, B.Arun, Gopinathan,Marimuthu, G.S. Palani, Nagesh R Iyer, Ramachandra moorthy, Andavalli, Ramanajulu)	SSP	22.20	Public Sector	158605
8	Experimental investigations on super Structure of the Godavari Pipeline Bridge (GPB) at Rajamundry - SSP-142 (S. Parivallal (P.L.) , Vimal Mohan, B. Arun A.Farvaze Ahmed, K.R. Ravi Shankar, Nagesh R Iyer, Sundaram, K.Kesavan)	SSP	12.35	Public Sector	205833
9	Analytical and field investigations of 275m chimney (Phase-1) of 1215MW captive power plant at SSL, Jharsuguda - SSP-143 (P. Srinivasan (P.L.) , Vimal Mohan, M. Saravanan, A.Farvaze Ahmed, V. Ramesh Kumar, Smitha	SSP	35.24	Private	292296

	Gopinathan, Marimuthu, G.S. Palani, K.R. Ravi Shankar, Nagesh R Iyer, B.Arun Sundaram, Ramachandra moorthy, Andavalli, S.Sai Babu)				
2014-15					
10	Intelligent remote health monitoring (IRHM) for bridge systems - GAP-047 (S.Parivallal (P.L.), Nagesh R. Iyer, K.Ravisankar, K.Balaji Rao S.G.N.Murthy, Vimal Mohan K.Kesavan, Arun Sundaram, B., Farvaze Ahmed, A.K, N.Anandavalli, M.B.Anoop, Lakshmi, G.S. Vijaya Bhaskara,)	Grant-in- aid Project	140.64	Govt.	1081877
11	Instrumentation and deflection measurement of Arch Bridge No 1061 during load Test near Trichy – CNP-6446 (S.Parivallal (P.L.), K.Kesavan, Arun Sundaram, B., Farvaze Ahmed, A.K, Vimal Mohan, K. Ravisankar)	CNP	8.00	Govt.	133336
12	Instrumentation and deflection measurement of Arch Bridge No 376 during load Test near Trichy – CNP-6448 (S. Parivallal (P.L), K.Kesavan, Arun Sundaram. B, Vimal Mohan, Farvaze Ahmed, A.K, K. Ravisankar)	CNP	8.00	Govt.	133333

13	Evaluation of residual stresses on Leaf spring – CNP-6454 (S.Parivallal (P.L.) , K.Kesavan, Arun Sundaram. B, Farvaze Ahmed, A.K, Vimal Mohan, K. Ravisankar)	CNP	4.11	Private	68456
14	Preliminary inspection for condition assessment of Civil structures in APCPL, Jharli (NTPC) – TSP-4280 (P.Srinivasan (P.L.) , S. Sai Babu, B. Vimal Mohan Arun sundaram,)	TSP	2.5	Public Sector	62500
15	Preliminary inspection for condition assessment of Civil structures in NTPC, Sipat – TSP-4281 (P. Srinivasan (P.L.) , B. Arunsundaram, S. Saibabu, Vimal Mohan)	TSP	2.5	Public Sector	62500
16	Preliminary inspection for condition assessment of Civil structure in NTPC, Unchahar, U. P. – TSP-4288 (P. Srinivasan (P.L.) , B. Arunsundaram, S. Saibabu, Vimal Mohan)	TSP	2.5	Public Sector	62500
17	Preliminary inspection for condition assessment of Civil structure in NTPC, Korba – TSP-4293 (P. Srinivasan (P.L.) , B. Arunsundaram, S. Saibabu, Vimal Mohan)	TSP	2.5	Public Sector	62500

18	Preliminary inspection for condition assessment of intake well – TSP-4295 (P. Srinivasan (P.L.), B. Arunsundaram, S. Saibabu, Vimal Mohan)	TSP	1.90	Public Sector	42275
19	Preliminary inspection for condition assessment of Civil structures- TSP-4298 (P. Srinivasan (P.L.), B. Arunsundaram, S. Saibabu, Vimal Mohan)	TSP	2.5	Public Sector	62500
20	Analysis of Single Lane Bridges of all Spans other than 220ft and 180ft for all load cases to prepare complete load span charts 115 (G. S. Palani (P.L.), M. Saravanan, Marimuthu, Vimal Mohan, Nagesh R Iyer, K. Ravisankar. P. Srinivasan, V. Ramesh Kumar, A. Farvaze Ahmed)	SSP	39.72	Public Sector	37095
21	Analytical & Field investigations of cooling tower-3 (stage-1) of TPS-II at NLC, Neyveli – SSP-137 (P. Srinivasan (P.L.), G.S. Palani (P.L.), Vimal Mohan, Nagesh R. Iyer, K.Ravisankar, K.Ramanjaneyulu S.G.N.Murthy. Arun Sundaram, B., N.Anandavalli, S. Saibabu, J. Prabhakar, Smitha Gopinath, Ramachandar Murthy,	SSP	44.40	Public sector	158605

	V. Ramesh Kumar, Surendra, G Raghav)				
22	Analytical and field investigations of 275m chimney (Phase - 1) of 1215MW captive power plant at SSL, Jharsuguda– SSP-143 (P. Srinivasan (P.L.) , Nagesh R. Iyer, Vimal Mohan K.Ravisankar, N. Gopalakrishan, Arun Sundaram. B, S. Saibabu, G.S. Palani)	SSP	50.10	Private	55744
23	Experimental Investigation on super structure of some river bridge at chopan near Varanasi – SSP-149 (S. Parivallal (P.L.) , K.Kesavan, Arun Sundaram, B., Farvaze Ahmed. A.K, Vimal Mohan, K. Ravisankar)	SSP	15.18	Public sector	225300
24	Condition assessment of 270 m height RCC Chimney of SKS Power Generation Chattisgarh Company Ltd., (SKSPGCL), Raigarh, Chattisgarh - SSP-153 (Srinivasan. P (P.L.) , Nagesh R. Iyer, N. Gopalakrishan, Vimal Mohan, Saibabu. S)	SSP	11.96	Public sector	239200
25	Condition assessment of cooling tower fan pedestal and recommendation for repair measures - SSP-172 (Srinivasan .P (P.L.) , K. Ravisankar, N. Gopalakrishan,, Vimal Mohan)	SSP	15.08	Public sector	335700
2015-16					

26	Condition Assessment of Main Plant Civil Structures in Kaiga Generating Station (KGS) -1 & 2 and Recommendations for Remedial Measures- SSP-140 (P. Srinivasan (P.L.), S. Saibabu, B.H. Bharath Kumar, Vimal Mohan, K.Ravisankar)	SSP	35.82	Public sector	207017
27	Field Investigations of 275 m Tall Chimney of 1215 MW Captive Power Plant at M/s. Sesa Sterlite Limited, Jharsuguda- SSP-143 (G.S. Palani (P.L.), P. Srinivasan (P.L.), Nagesh. R. Iyer, K.Ravisankar, K.Ramanjaneyulu S.G.N.Murthy. Arun Sundaram, B., N.Anandavalli, S. Saibabu, J. Prabhakar, Smitha Gopinath, Ramachandar Murthy, V. Ramesh Kumar, Vimal Mohan, Surendra, G Raghav)	SSP	50.11	Public sector	15032
28	Condition Assessment of Main Plant Civil Structures in Kaiga Generating Station (KGS) -3 & 4 and Recommendations for Remedial Measures- SSP -158 (Srinivasan. P (P.L.), Saibabu. S, Arun Sundaram, Vimal Mohan)	SSP	35.55	Public sector	447466
29	Condition assessment of civil structures of Kaps-1 & 2 (NPCIL), Gujarat by non-destructive test Methods - SSP-173 (Prabakar. J (P.L.), B.H. Bharathkumar, S.	SSP	24.21	Public sector	484200

	Bhaskar, Vimal Mohan, J. Daniel Joseph, Lakshmikandhan)				
30	Condition assessment of foundations of re-heating furnaces and RCC structures of LMMM (one unit) of Visakhapatnam Steel Plant (VSP), Vizag-SSP-176 (Srinivasan. P (P.L.) , K. Ravisankar, Saibabu. S, Arun sundaram. B, Vimal Mohan)	SSP	26.68	Public sector	533520
31	Condition assessment of the portion of RCC gallery structure – SSP-185 (Srinivasan. P (P.L.) , Saibabu, S., V. Ramesh Kumar, Vimal Mohan)	SSP	14.24	Public sector	414600
2016-17					
32	Condition Assessment of Steel Chimneys and WHRBs at NTPC, Jhanor through Visual Inspection – CNP-6495 (G.S. Palani (P.L.) , Vimal Mohan, M. Saravanan,)	CNP		Public Sector	109000
33	Investigation on first floor jack arch roof and recommendation for retrofitting measures – CNP-6497 (P. Srinivasan (P.L.) , Vimal Mohan, V. Ramesh Kumar, A Faravze Ahmed, S. Saibabu)	CNP	13.05	Public Sector	227000
34	Condition assessment of RC and Steel structures/Buildings of the power plant at NTPC, Ramagundam through Visual Inspection – CNP-6506 (G.S. Palani (P.L.) , Vimal Mohan, B.H. Bharath Kumar A Faravze Ahmed)	CNP	4.62	Public Sector	115500

35	Condition Assessment of RC and Steel Structures/Buildings of the Power Plant through Visual Inspection – CNP-6507 (P. Srinivasan (P.L.) , Vimal Mohan, A. Cinitha, Bhashya V, S. Saibabu)	CNP	8.18	Public Sector	142400
36	Ultrasonic Testing of bearing pedestals – CNP-6511 (P. Srinivasan (P.L.) , Vimal Mohan, J. Prabhakar.)	CNP	4.10	Public Sector	119000
37	Condition Assessment of RC and Steel Structures/Buildings of the Power Plant of VSTPP, Stg 2 & 3 through Visual Inspection – CNP-6513 (P. Srinivasan (P.L.) , Vimal Mohan, M. Saravanan, A. Cinitha)	CNP	7.12	Public Sector	625000
38	Preliminary inspection of collapsed RCC channel at NTPC, Talcher – CNP-6515 (P. Srinivasan (P.L.) & Vimal Mohan)	CNP	3.76	Public Sector	163500
39	Field & Analytical Investigations on 275m RC chimney at BALCO, Korba Phase-I: Condition assessment – SSP-188 (P. Srinivasan (P.L.) , Vimal Mohan, B. Arun Sundaram, S. Saibabu)	SSP	24.85	Public Sector	379920
2017-18					
40	Condition assessment of TG foundation columns & pedestals and recommendation for remedial measures – SSP-206 (P. Srinivasan (P.L.) ,	SSP	13.02	Public Sector	311695

	S. Saibabu, Vimal Mohan)				
41	structural adequacy of the proposed extension of TV tower including condition assessment of RCC cap slab & shaft and recommendation for strengthening measures – CNP-6526 (P. Srinivasan (P.L.)), S.Saibabu, Vimal Mohan, V. Ramesh Kumar, A.K. Farvaze Ahmed)	CNP	14.59	Govt.	291800
42	Condition assessment of Foundation of TV tower at Shilong and recommendation for remedial measures – CNP-6529 (P. Srinivasan (P.L.)), Vimal Mohan)	CNP	8.69	Govt.	378000
43	Condition assessment of Foundation of TV tower at Ittanagar and recommendation for remedial measures – CNP-6530 (P. Srinivasan (P.L.)), Vimal Mohan)	CNP	8.69	Govt.	378000
44	Structural adequacy checking of 150m high TV Tower for additional antenna at Asansol site – CNP-6543 (G.S. Palani (P.L.)), Vimal Mohan, M. Saravana, A.Cinitha)	CNP	19.00	Govt.	38000
45	Evaluation of fire damaged TG Deck & Pedestals of unit I and recommendation for remedial measures – CNP-6546 (P. Srinivasan (P.L.)), Vimal Mohan)	CNP	8.74	Public Sector	437000
46	Condition assessment of overhead water tank and recommendations	CNP	3.91	Public Sector	165875

	for repair measures – CNP-6556 (P. Srinivasan (P.L.) & Vimal Mohan)				
47	Condition Assessment of RC and Steel structures/Buildings of the power plant of NTPC, Stg 4 & 5 through Visual Inspection – CNP-6565 (P. Srinivasan (P.L.), S.Saibabu, Vimal Mohan, B Arun Sundaram)	CNP	7.12	Public Sector	178000
48	Condition Assessment of RCC and steel buildings through visual inspection - TSP - 4351 (P. Srinivasan (P.L.), S.Saibabu, Vimal Mohan)	TSP	3.27	Public Sector	109000
49	Preliminary inspection of RMHP-A13A Conveyor junction, BF- Chimneys of stove 2,3,4 and SGP3 and Sinder plant-Main stack of pld plant at SAIL/Durgapur Steel Plant, Durgapur (SAIL/DSP) - TSP - 4352 (G. S. Palani (P.L),S.Saibabu, Vimal Mohan, M. Saravana)	TSP	8.8	Public Sector	220000
50	Condition assessment of RC and steel structures/buildings of the power plant of stage III through visual inspection – CNP-6493 (P. Srinivasan (P.L.), Vimal Mohan, M. Saravanan, G.S. Palani)	CNP	7.12	Public Sector	178000
51	Condition assessment of the portion of a RCC Building - CNP-6459 (P. Srinivasan (P.L.), Vimal Mohan)	CNP	3.71	Public Sector	185500
52	Condition assessment of RC and Steel structures/Buildings of the power plant at	CNP	4.62	Public Sector	115500

	NTPC, Ramagundam through Visual Inspection – CNP-6506 (B.H. Bharath Kumar (P.L.), G. S. Palani, Vimal Mohan, A. K. Farvze Ahmed)				
53	Preliminary inspection for condition assessment of RCC structures at NTPC, Kahalgaon – TSP-4312 (P. Srinivasan (P.L.), Vimal Mohan, Bhashya, V. Ramesh Kumar)	TSP	3.62	Public Sector	90500
54	Preliminary inspection for condition assessment of Steel structures at NTPC, Kahalgaon – TSP-4316 (P. Srinivasan (P.L.), Vimal Mohan, Bhashya, V. Ramesh Kumar)	TSP	3.62	Public Sector	90500

Field work undertaken

- Condition assessment of the main plant civil structures of Kakrapara Nuclear Power Corporation of India Ltd., and also for different NTPC sites. Field data were collected using non-destructive testing (NDT) techniques such as rebound hammer, ultrasonic pulse velocity, concrete powder sample collection, electrochemical measurements, etc. and the test results were interpreted; In addition, concrete cores samples were extracted for the determination of compressive strength. Recommendations have been made for improving the quality and durability of the structure. Field Days: 7
- Condition assessment of LMMM foundations of VSP, Vizag. Data has been collected using NDT and core sampling techniques and the test results were interpreted; Recommendations have been made for improving the quality and durability of the structure. Field Days: 7
- Condition assessment of the main plant civil structures of Khakrapar Nuclear Power Corporation of India Ltd., and also for different NTPC sites. Field data were collected using non-destructive testing (NDT) techniques such as rebound hammer, ultrasonic pulse velocity, concrete powder sample collection, electrochemical measurements, etc. and the test results were interpreted; In addition concrete cores samples were extracted for the determination of compressive strength. Recommendations have been made for improving the quality and durability of the structure. Field Days: 7

- Condition assessment of the main plant civil structures of Kaiga Nuclear Power Corporation of India Ltd and different NTPC sites. Field data were collected using non-destructive testing (NDT) techniques such as rebound hammer, ultrasonic pulse velocity, concrete powder sample collection, electrochemical measurements, etc. and the test results were interpreted; In addition, concrete cores samples were extracted for the determination of compressive strength. Recommendations have been made for improving the quality and durability of the structure (including Preliminary visits)
- Performance evaluation of Typical Railway Bridge under increased Axle loads of Freight wagon has been carried out. Both conventional and wireless sensors were deployed in extracting the field output. Real Time Health monitoring was carried out in capturing the actual performance of the structure. Both Static and Dynamic test on the Typical Railway bridge was carried out.
- Condition assessment of Racker columns, inner and outer shell of the cooling tower CT3 (Stage-1) of TPS II at NLC, Field data has been collected using NDT and core sampling techniques and the test results were interpreted. Field Days: 9
- Condition assessment of converter foundations of VSP, Vizag. Data has been collected using NDT and core sampling techniques and the test results were interpreted; Recommendations have been made for improving the quality and durability of the structure. Field Days: 9
- Preliminary inspection of NTPC power station buildings and Visakhapatnam Steel Plant, AP., SKS Power generation and M/s. Sesa Steralite, Jharsuguda have been made and proposals were communicated for detailed investigation of selected reinforced concrete structures. Field Days: 14
- Performance evaluation of Typical Railway Bridge under increased Axle loads of Freight wagon has been carried out. Both conventional and wireless sensors were deployed in extracting the field output. Real Time Health monitoring was carried out in capturing the actual performance of the structure. Both Static and Dynamic test on the Typical Railway bridge was carried out.
- Condition assessment of Racker columns, inner and outer shell of the cooling tower CT3 (Stage-1) of TPS II at NLC, Field data has been collected using NDT and core sampling techniques and the test results were interpreted.
- Condition assessment of the main plant civil structures of KGS 1 & 2, Kaiga, Karnataka of Nuclear Power Corporation of India, Ltd. Field data were collected using non-destructive testing (NDT) techniques such as rebound hammer, ultrasonic pulse velocity, concrete powder sample collection, electrochemical measurements, etc. and the test results were interpreted; In addition concrete cores samples were extracted for the determination of compressive strength. Recommendations have been made for improving the quality and durability of the structure.
- Structural Health & integrity checking of existing shop floor at BHPV, Visakhapatnam was carried out. The instrumentation throughout the crane girder was done and the evaluation under various loads was carried out.

- All together more than 40 days of field investigation was carried in the current year in condition assessment of bridges, power plant, pipe line and industrial structures.

Field implementation / Technology diffusion

- Implemented the advanced remote health monitoring system for the structural health assessment of railway structure. Core trepanning technique, Wireless sensor network, Strain Gauge Technique & flat Jack Technique for condition assessment
- Condition assessment of industrial structure using NDT Technique/tools like UPV, Rebound Hammer, Resipod, GECOR etc. in evaluating the structural integrity of Nuclear and thermal Power plant structure. Assessment of the carbonation depth, integrity of structural concrete in different infrastructural projects.
- Implemented the advanced remote health monitoring system for the structural health assessment of railway structure.

Participation and contributions made for strategic sector

- Condition assessment was made for the civil structures of Nuclear Power station of Kaiga 3 & 4 in a systematic way and recommendations were given for the repair and enhancement of their life.
- Condition assessment of foundation of reheating furnace & RCC structures of LMMM (one unit) of Visakhapatnam steel Plant. Post processing was carried and the recommendation and remedial measure was suggested.
- Condition assessment was made for the civil structures of Nuclear Power station of Khakrpar (KAPS) 3 & 4 in a systematic way and recommendations were given for the repair and enhancement of their life
- Residual stress evaluation in the component used in LCA-Tejas aircraft
- Condition assessment was made for the civil structures of Nuclear Power station of Kaiga 1 & 2 in a systematic way and recommendations were given for the repair and enhancement of their life.
- Field investigations of cooling tower-3 (stage-1) of TPS-II at NLC, Neyveli. The Field investigation was used in the numerical studies of the cooling tower. Post processing was carried and the recommendation and remedial measure was suggested.
- Experimental investigation of panels for ballistic impact resistance. The success of impact resistance material makes a wide possibility for use in strategic sectors

Contribution to indigenous technology / component / product / device/engineering systems design & development

- Development of algorithm for damage detection for real time health monitoring.

- Incorporation of the developed algorithm into Wireless sensor system for damage detection Real-time.
- Development of algorithm for damage detection using the real time health monitoring technique.
- Performance evaluation of indigenously developed micro reinforced concrete panels subjected to high velocity impact
- Studies were carried out towards developing perforated plate and crimped wire in filled concrete subjected to high velocity impact.
- Studies carried out towards developing damage detection system for structural members.

Activities leading to foreign exchange saving

Systematic condition assessment of concrete structures using non-destructive testing methods

Assistance provided for national / international institution building

- Member of CSIR-SERC Technical Committee giving technical inputs in equipment purchase.
- Internal auditing member for ISO 9001:2008 and carried out internal auditing at CSIR-SERC.
- Member for 100% physical verification of stock for Stores, CSIR- SERC

Your contribution towards upliftment of science & technology in the country

- Delivered lecture on topic and knowledge transfer on the topic ‘Repair and Rehabilitation of structures’ held at NITTR.
- Delivered Invited Lecture on NDT of concrete structures under QIP program from participants across India at CET, Trivandrum.
- Delivered Invited Lecture and knowledge transferred on the topic “corrosion and its control” under QIP program from participants across India at TKM, Kollam.

Any other point, not covered so far, to complete the spectrum of your achievements

- Field visit was made to Tamilnadu firing range (chengalpattu) to carry out ballistic impact study of concrete composite panels.
- Made visit to Officers Training Academy to establish links as well for organizing and conducting experimental studies with them
- Internal auditing member for ISO 9001:2008 and carried out internal auditing at CSIR-SERC.

- Member of CSIR-SERC Technical Committee giving technical inputs in equipment purchase.
- Member for 100% physical verification of stock for Stores, CSIR-SERC
- Member of Indian Concrete Institute (ICI) : LM 8957 CH
- Member of Indian Society for Nondestructive Testing (ISNT): LM 8586 CH
- Member of the technical committee giving technical inputs in equipment purchase.
- Nominated member of CSIR-SERC attended DST-Lockheed Martin India Innovation Growth Program.
- Auditor for internal auditing for ISO 9001:2008 and carried out internal auditing.
- Interaction established with the following organization as follows:
 - CSIR-CLRI
 - DRDO-DMRL
 - OTA-Indian Army

For meeting effectively the objectives of the identified programmes

- Made interaction with Officers Training Academy to establish links as well for organizing and conducting experimental studies with them
- Interacted with NTPC units, Vishakapatnam Steel plant, NLC-Neyveli, and Nuclear Power Corporation, Mumbai for project formulation.

Providing major service to your organization in its efficient functioning & image building.

- Through sponsored & consultancy projects
- Carrying out experimental investigation of Ballistic impact resistant panels at Tamilnadu police firing range at chengalpattu, The Indian Army representative were impressed with the performance of the panels requested for the above kind of panels in their training areas there by building image of CSIR-SERC

Membership in organizational / national / international committees.

- Indian Concrete Institute (ICI) :LM 8957 CH
- Indian Society for Non destructive Testing (ISNT) : LM 8586 CH

Important administrative responsibilities taken and success achieved.

- Represented CSIR-SERC in establishing links with Officer Training Academy of the Indian Armed Forces for conducting ballistic range testing of our in-house made panels and successfully completed the pilot project with the armed force with commendable results.
- Established successful links with Defense Research and Development Organization (DRDO) for conducting experiments at their advanced test facilities

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Any other dimension of your contribution essentially depicting your leadership quality.

- Initiative was taken for establishing the tie-up with Defense Research and Development Organization (DRDO) and Officer Training Academy of the Indian Armed Force for successfully organizing and conducting impact study for ballistic range experimentation which is not possible in the case of civilian research.

Students guided for their project work/assignments for PG Courses like M.Sc. /M.E/ M.Tech. /MBA/MCA etc.

- Kanniga. K, “Studies on damage detection in structure using lamb wave technique”, SNS college of Technology, Coimbatore, April 2015.
- Mahalakshmi Shankar., “Studies on Damage detection using Correlation approach”, VIT University, Vellore, April 2015.
- Ms. Prema S., “Studies on multiple damage evaluation using correlation approach”, M.E. Structural Engineering, P.S.R. College of Engineering and Technology, Sivakasi, April 2014.
- S. Sithara, Tamilnadu College of Engineering, Coimbatore, ‘Experimental and Numerical investigations on micro reinforced concrete subjected to ballistic impact’, May 2012. (M.E Student)
- B. Yogesh, Anna University of Technology, Tiruchirapalli, ‘Studies on multilayered cement composite perforated plates’, April 2012. (B.E. Student)

Fellowships of professional societies (*restricted to all India level selections only, besides international selections, if any*)

- Indian Concrete Institute – Life Member
- Indian Society of Non-destructive Testing – Life Member

Prestigious award / recognition received (*restricted to national & international level recognitions only, kindly also indicate in monetary terms, wherever applicable*)

- Received Letter of Appreciation from **Indo-German Science and Technology Centre (IGSTC)** during IISF