

BIO - DATA

1. **NAME:** LALITA JANGPANGI

2. **Designation & Complete address including e-mail id:**

Scientist, Rigid Pavements Division
Central Road Research Institute, Mathura Road
New Delhi, 110025
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3. **Area of Interest:** Instrumentation of Highway & Bridges, Database Management System.

4. **Educational Qualifications:**

S.No.	Degree	University/Institute
1	B.Sc.Engg.(Electronics & Communication)	<i>Jamia Millia Islamia, New-Delhi</i>
2	M.E.(Instrumentation & Control)	<i>Delhi College of Engineering, Delhi</i>

5. **Professional Experience:**

Grade/Post	Estt./Lab/Instt.	Duration from	Duration to	Remarks
Principal Scientist	CSIR-CRRI	2013	Till date	Assessment Promotion
Senior Scientist	CSIR-CRRI	2008	2013	Assessment Promotion
Scientist C	CSIR-CRRI	2003	2008	Assessment Promotion
Scientist B	CSIR-CRRI	1996	2003	Direct Selection

6. **Membership of Professional Bodies:** Indian Road Congress

7. **Achievements:**

a. Honours & Awards: NILL

b. **Research Projects:**

1. Development of Database Management System of Performance Monitoring of Instrumented Bridges.
2. Study of thermal Behavior of Rigid Pavement through instrumentation of CRRI Campus Road.
3. Development of a Prototype for Collision Prevention at Road Rail intersection using Embedded System.

4. Evaluation of Bridges for increased axle loads of freight wagons on iron ore routes of South-Eastern Railways
5. Evaluation of Bridges for increased axle loads of freight wagons on iron ore routes of Eastern Railways.
6. Evaluation of Bridges for increased axle loads of freight wagons on iron ore routes of Northern Railways.
7. GIS based geotechnical subsurface Map of Delhi.
8. Quality assurance and Health Monitoring of 6 lane road way bridge over Palam drain through Instrumentation at Dwarka , N-Delhi ,.
9. Long term Performance Monitoring of lok nayak Setu, through Instrumentation, N-Delhi.
10. Performance Monitoring of Ganga Bridge at Varanasi.
11. Calibration of Automatic Road Unevenness Recorder (ARUR) with Dipstick .
12. Development of Management System for Maintenance Planning and Budgeting of High speed Corridors (SIP-30).**Sub module:** Study of landslide problem along high speed corridor.
13. Detection of shrinkage cracks under saw cuts in cement concrete pavements and white topping using ultrasonic wave propagation technique.
14. Design and Evaluation of Pavement Quality Concrete Mixes using Ground Granulated Blast Furnace Slag as Partial replacement of Cement.
15. Development of warm mix technology for road construction under 12th Five Year Plan activity WP-13.
16. Project Monitoring and Quality Assurance of Hindan Bridge at Ghaziabad.
17. Assurance of Quality Construction of Corridor of elevated road on outer Ring Road from Madhuban Chowk to Mukarba Chowk, Delhi.
18. Instrumentation of Railway Bridge near Jamshedpur.
19. Preparation of Microzonation Map of Delhi Region.
20. Engineering of landslide mitigation and post disaster shelter planning (12th five year plan project).**Sub module:** Detailed Geotechnical Investigation & Design of innovative measures for landslide.
21. Quality assurance of 4-Bridges across Agra Canal at Faridabad.

c. Research Publications:

1. Lalita Jangpangi, Ram Kumar and Ganesh.K.Sahu "A Database Management System for Performance Monitoring of Bridges", Current Trends in Aqueducts, Road, Rail & Marine Bridges, International Conference at Hyderabad, 18-21 December 2004.
2. Yogesh C. Tewari, Lalita Jangpangi "Application of Optical Fibre Sensors for Highway Engineering ", International Conference on "Advances in Civil Engineering", in 2001, IIT kharakpur.
3. Yogesh C. Tewari, Lalita Jangpangi "Optical Fibre Sensors for Highways", International Conference on Instrumentation(INCON-2004) at Pune,18-21 December 2004.
4. Yogesh C. Tewari, Lalita Jangpangi & Renu Chadha "Sensors for seasonal Monitoring" , International Seminar held at Vigyan Bhawan, N-Delhi.
5. Kishor Kumar, Lalita Jangpangi and Sudhir Mathur "Landslide Database and Inventory – A Prerequisite for any landslide & Management Program" , National Seminar on Disaster Management with special reference to Land Slides and Snow Avalanches held at Vigyan Bhawan, N-Delhi,29th October 2003.
6. Kishor Kumar, Rajkishor Panigrahi,Lalita Jangpangi and others "Geotechnical Map of Delhi- An input for Microzonation", Workshop on Methodology for Seismic Microzonation (MAMAS) ,held at Indian Institute of Remote Sensing, Dehradun, 10-11 November 2003.
7. Kishor Kumar, Lalita Jangpangi and Sudhir Mathur, "Prominence and state of the landslide hazard inventory and zonation along highways in Uttarakhand Himalayas",Proc of the Conf. Geomatics and Impact of Climate Change with Specific reference to Mountain Ecosystem",2008.
8. Yogesh C.Tewari and Lalita Jangpangi "Optical Fibre Sensors for Concrete Structures" Indian Highways, October 2010.
9. Lalita Jangpangi and Shobhit Singhal , " A review of Instrumentation, Monitoring and Early warning for Landslides", Landslide Hazard- Consequences & Challenges, CBRI Roorkee, September 2011.
10. Kishore Kumar, Lalita Jangpangi and Shubhmay Gangopadhyay"Highway vs Landslides and their Consequences in Himalaya", World Landslide Forum3-Landslide Risk Mitigation towards a Safer Geo- Environment, Beijing from2-6 June 2014., Paper no. 1611 Vol.I pp 389-395 .
11. Kishore Kumar, Lalita Jangpangi and Shubhmay Gangopadhyay"Highway vs Landslides and their Consequences in Himalaya", **Book publication** "Landslide Science for a Safer Geoenvironment , Vol. 1: The International Program on Landslides(IPL), Part VII,China.2014.
12. Ganesh K.Sahu, Rajeev K.Garg, Lalita Jangpangi et.al , "Performance Monitoring of Bridges through Instrumentation", Advance Science and Technology in experimental Mechanics, New Delhi, Nov. 2014.
13. Lalita Jangpangi, Hudrom Lokeshwar, Yogesh C.Tewari. "Improved Relation for Calibration of Fifth Wheel Bump Integrator In Indian Conditions" , IRF ,World Road Meeting 2017, Greater Noida, U.P., 14-17 Nov.2017 .

