

**GENERAL REPORT ON ROAD RESEARCH WORK DONE IN INDIA –  
CALL FOR SUBMISSION OF REPORTS ON ROAD RESEARCH CARRIED OUT  
DURING THE YEAR 2020-21**

One of the objectives of the Indian Roads Congress is to disseminate and propagate technical knowledge and make Highway Engineers aware about National/ International research studies. To propagate importance of research and make available all research related information under single publication, IRC annually compiles research reports on Road & Bridge Research works being done in India, from various organisations like, MORTH, NHAI, CPWD, BRO, NRIDA, NHIDCL, PWDs, IITs, NITs, Engineering Colleges, Contractors, Consultants and Researchers. With the help of Central Road Research Institute, the compiled data is published by IRC as “General Report on Road Research Work Done in India” every year.

Organisations concerned with research and development, construction, monitoring and maintenance of Road & Bridge works, Traffic, Transportation and Geotechnical Engineering, etc are requested to report the findings of Research & Development Projects carried out during the year 2020-2021 (01 April, 2020 to 31 March, 2021) in the relevant proformae (available on IRC website : [www.irc.nic.in](http://www.irc.nic.in) ) which will prove beneficial to the members of the highway profession.

The Reports are to be prepared in Word format and to be submitted in duplicate by post to the Secretary General, Indian Roads Congress, IRC Bhavan, Kama Koti Marg, Sector 6, R.K. Puram, New Delhi – 110 022 and also through e-mail at: [irchrb@gmail.com](mailto:irchrb@gmail.com) latest by **25<sup>th</sup> October, 2021.**

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# IRC HIGHWAY RESEARCH BOARD

## GENERAL REPORT ON ROAD RESEARCH IN INDIA

### PROFORMA SHEET FOR REPORTING R&D WORK FOR THE GENERAL REPORT

- Please furnish the report in the specified proformae (specimen copies enclosed), using separate proforma for each Project, appropriate to the Project Status, viz.:  

Proforma A:	Projects Reported for the First Time & On-going Projects	<i>Annexure 1</i>
Proforma B:	Completed Projects	<i>Annexure 2</i>
Proforma C:	Research Projects Related to Thesis for Post Graduation/Ph.D.	<i>Annexure 3</i>
Proforma D:	R&D Activity Report by Consultancy Firms/Contractors/Concessionaires	<i>Annexure 4</i>
- Please furnish report, in Proforma A or B, only on those projects which have led to some significant conclusions, or are expected to make R&D contribution of overall general interest.
- Precise and concise information may be provided for EACH ITEM of the Proformae, in NOT MORE THAN 100 WORDS. Additional important information, if any, may be appended separately.
- The following codes may be used for indicating the Section and Sub-Section Codes on Each Project Proforma:

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Section	Section Code	Sub-Section	Sub-Section Code
<b>HIGHWAY PLANNING, DESIGN, MANAGEMENT, PERFORMANCE EVALUATION &amp; INSTRUMENTATION</b>			
Highway Planning, Design and Management	1100	Design	10
		Road Transportation Management	20
		Road Pavement Management	30
		Maintenance Management	31
		Construction Management	32
		Test Track Research	40
		Software Development	50
Pavement Evaluation	1200	Surface Characteristics	10
		Riding Quality	20
		Skid Resistance	30
		Structural Evaluation	40
Pavement Performance	1300	Pavement Performance	10
		Traffic Characteristics & Effects	20
		Material Characteristics	30
		Shoulders	40
Mechanization, Instrumentation & Micro-Processor Applications	1400	Instrumentation Development	10
		Micro-Processor/Applications	20
		Mechanization	30

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<b>Section</b>	<b>Section Code</b>	<b>Sub-Section</b>	<b>Sub-Section Code</b>
<b>PAVEMENT ENGG. &amp; PAVING MATERIALS</b>			
Soil Stabilization, Local Materials and Low Volume Roads	2100	Soil Stabilization Local Materials Low Volume Roads	10 20 30
Flexible Pavements	2200	Binders and Binder Improvement Materials and Mixes Pavement Design Construction Techniques Maintenance Aspects	10 20 30 40 50
Rigid Pavement	2300	Materials and Mixes Pavement Design Construction Techniques Maintenance Aspects	10 20 30 40
Composite Pavements	2400	Binders and Binder Improvement Materials and Mixes Pavement Design Construction Techniques Maintenance Aspects	10 20 30 40 50
New Material	2500	Pavements Bridges	10 20
<b>GEOTECHNICAL ENGINEERING</b>	3000	Landslides Ground Improvement Techniques Embankments and Slope Stability Roads and Embankments in Clay Areas Geo Synthetics & Geo Grids	10 20 30 40 50
<b>BRIDGE ENGINEERING</b>	4000	Structural Field Investigations Laboratory Investigations Foundation Investigations Innovative Accelerated Bridge Construction	10 20 30 40
<b>TUNNEL ENGINEERING</b>	5000	Structural Field Investigations Laboratory Investigations Foundation Investigations Innovative Accelerated Bridge Construction	10 20 30 40
<b>TRAFFIC &amp; TRANSPORTATION</b>			
Planning & Management	5100	Traffic Management Studies Travel Demand Forecasting Transportation Planning(Passenger & Freight) Transportation Economics Public Transport System Intelligent Transportation System/ Highway Traffic Management/ Toll Management System Traffic Engineering Studies	10 20 30 40 50 60 70
Safety & Environment	5200	Accidents and Safety Traffic Noise Air Pollution Carbon Foot Print	10 20 30 40

5. **PROJECT TITLE**
    - (i) In case of Proformae A and B, please indicate the same title as reported earlier.
    - (ii) In case of sponsored projects, please indicate the name of the sponsoring organisation and Research Scheme number (e.g., MORT&H Research Scheme R-19), immediately after the project title.
  6. **DATE OF START/DATE OF COMPLETION:** Please indicate month and year, e.g., May, 1988. In case of sponsored Research Scheme, only the Sponsoring Organisation should report completion of the project, and not the implementing Organisation(s).
  7. **LAST REPORT :** Indicate the year of the last General Report on Road Research in India (GRRRI) in which the project was reported, e.g., for GRRRI 1988-89, indicate 1988-89.
  8. **ORGANISATION (S) :** Please indicate the name of all involved organizations, in the case of multi-organisation project, using the following code to indicate the status of the organization with regard to the project:  
  
Reporting Organization (R); Sponsoring Organization (S); Coordinating Organization (C) & Implementing Organisation (I)  
  
If an organization has multiple status, the appropriate codes may be used together, e.g., (R,C), (R,S).
  9. **SCOPE AND OBJECTIVE:** Please give a concise statement. In case of multiple objective projects, indicate each objective separately.
  10. **PRESENT STATUS AND PROGRESS:** For Proforma A, if the project is on-going, please include a brief report on progress since the last report; for Proforma B, if the project is complete, please provide brief progress report for the project as a whole.
  11. **SUPPORTING DATA:** Please indicate selected important supporting data or illustrations of special interest. Any correlations or charts developed may specifically be included. Please list the items enclosed.
  12. **CONCLUSIONS:** Please indicate significant conclusions/interim conclusion.
  13. **SIGNIFICANCE / UTILISATION POTENTIAL:** Please highlight only special aspects. Under “Utilisation Potential”, also specifically indicate whenever the development(s) / conclusion(s) are regarded appropriate for consideration by the IRC.
  14. **LIMITATIONS OF CONCLUSIONS / RECOMMENDATIONS FOR FURTHER WORK / FURTHER PROPOSED WORK:** The limitations, if any, may be specifically indicated. Other aspects may be indicated wherever applicable.
  15. **REPORTS / PUBLICATIONS:** Only reports/publications since last reporting may be included, alongwith bibliographical details, in the following order:  
  
Author(s) (Surname, followed by initial, in all capitals). Title of Paper/Article/Report/Book, Nature of Report (e.g., M.E./Ph.D. Dissertation, Interim/Final Report), Journal or Periodical (alongwith Vol. and No.) / Conference or Seminar Proceedings (alongwith the place where held) / Publishing Organisation, Month and Year of Publication. The report may be provided in not more than 500-600 words.
  16. Copies of publications, if published through a source other than IRC, may please be enclosed.
  17. Wherever more than one sub-items are to be reported (e.g., in case of items No. 8, 9, 13, 15, etc. above), please number the sub-items 1, 2, 3, ..... and list them one below the other.
  18. In addition to 3 typed/computer print out copies, the report may also be supplied on CD/Pen Drive to enable expeditious editing and compiling. Cooperation in this regard will be specially appreciated. The Window MS Word Software may please be used for the purpose.
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**PROFORMA - A  
PROJECTS REPORTED FOR THE FIRST TIME & ON-GOING PROJECTS**

	Section Code				
REPORTING ORGANISATION:	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>				
	Sub-Section Code				
	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>				
1	Project Title				
1.1	Date of Start				
1.2	Date of Completion (Targeted/Actual)				
2	Organisation(s)*				
3	Scope and Objectives				
4	Methodology				
5	Interim Conclusions/Conclusions/Supporting Data				
5.1	Significance/Utilisation Potential				
5.2	Limitations of Conclusions/Recommendations for further work/further proposed work				
6	Reports/Publications				
7	Further information/Copy of report can be obtained from:				
7.1	Address				
7.2	Mobile _____ Phone _____ Fax _____				
7.3	e-mail ID: _____				

\* Please indicate the appropriate organization code – (R), (S), (C), (I), (R,S), (R,C), etc. after each organization.

**PROFORMA - B  
COMPLETED PROJECTS**

	Section Code				
REPORTING ORGANISATION:	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>				
	Sub-Section Code				
	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>				
1	Project Title				
1.1	Date of Start				
1.2	Date of Completion (Targeted/Actual)				
2	Present Status and Progress				
2.1	Status: Ongoing/Completed				
2.2	Year of Last Report				
2.3	Progress				
3	Further Findings/Conclusions/Supporting Data				
4	Limitations of Conclusions or Interim Conclusions				
5	Recommendations for further Work (if completed)				
6	Reports / Publications				
7	Recommendations for Dissemination/Revision of Codes/Specifications (if completed)				
8	Field Applications				
9	Further information/Copy of report can be obtained from:				
9.1	Address				
9.2	Mobile _____ Phone _____ Fax _____				
9.3	E-mail ID: _____				

(Presentation Material may be e-mailed to [secygen.irc@gov.in](mailto:secygen.irc@gov.in) / [irchrb@gmail.com](mailto:irchrb@gmail.com) )

**PROFORMA - C  
RESEARCH PROJECTS RELATED TO THESIS FOR POST – GRADUATION/Ph. D**

Section Code

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REPORTING ORGANISATION:

Sub-Section Code

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- 1 Project Title
  - 1.1 Date of Start and Duration
  - 1.2 Date of Completion
- 2 Institution\*
- 3 Scope and Objectives
- 4 Proposed Methodology (Type of Study, Laboratory/Field)
- 5 Salient-Findings and Conclusion(s)
- 6 Recommendations for Dissemination/Revision of Codes/Specifications (if completed)
- 7 Further information/Copy of the report can be obtained from:
  - 7.1 Address
  - 7.2 Mobile \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_
  - 7.3 E-mail ID \_\_\_\_\_

(Presentation Material may be e-mailed to [secygen.irc@gov.in](mailto:secygen.irc@gov.in) / [irchr@gmail.com](mailto:irchr@gmail.com) )

\* Please indicate the appropriate organization code – (R), (S), (C), (I), (R,S), (R,C), etc. after each organization.

**PROFORMA - D  
R&D ACTIVITY REPORT BY CONSULTANCY FIRMS/CONTRACTORS/CONCESSIONAIRES**

Section Code

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REPORTING ORGANISATION:

Sub-Section Code

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- 1 Project / Activity Title
  - 1.1 Date of Start and Duration
  - 1.2 Date of Completion (Actual/ Targeted)
- 2 Organisation(s)\*
- 3 Special Situations/ Problems faced During Investigations/ Constructions:
- 4 Methodology / Procedure adopted for solving the Problems:
- 5 Any New Materials/ New Technologies if Adopted:
- 6 Performance of such New Materials/ Technology:
- 7 Additional R&D / Work required in this area:
- 8 Further details can be obtained from:
  - 8.1 Address
  - 8.2 Mobile \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_
  - 8.3 e-mail ID: \_\_\_\_\_

\* Please indicate the appropriate organization code – (R), (S), (C), (I), (R,S), (R,C), etc. after each organization.