

Request for Submission of R & D Contribution(s) Commemorating 175 Years of Existence of the Institute

1.0 Preamble

The institute has made stellar contributions in research and development in its long history of 175 years. During each stage of its evolution from Thomson College of Civil Engineering (1854), University of Roorkee (1949) and Indian Institute of Technology Roorkee (2001), it has contributed significantly in the development of national infrastructure and improving the standard of living.

The civil engineers graduated from Thomson College of Civil Engineering during pre-independence era helped in the construction of historical infrastructure like Ganga Canal, Railways in Hills and Plane area of the country. University of Roorkee, as the first Indian Technical University post-independence, reoriented its vision and focussed on research and development in core engineering fields besides providing engineers needed for nation building. The transition from University of Roorkee to Indian Institute of Technology further widened the scope, opportunities, activities, out-reach and collaboration which in turn resulted in increased contributions from the faculty and students both in basic and applied research leading to development of many products, infrastructure, processes and materials for different sections of the society.

The Institute is going to complete 175 years of its glorious existence and it is therefore time to showcase our contributions and achievements in research and development of S & T, development of infrastructure, development of products, processes and materials, which led to improvement in productivity, safety, and security, sustainable development, standard of living, and welfare of society in general.

2.0 Purpose and Scope

It is therefore planned to recognise the significant contributions of the faculty and the students of the Institute across the domains of engineering, science, management, architecture and humanities in the form of a commemorative volume to be released as a part of the celebration of 175 years of our glorious existence.

Thus, faculty, scientists (both working & retired), students and alumni of TCCE/UOR/IITR are invited to submit articles highlighting significant contributions broadly in the following categories:

- A. Pioneer and historical contributions on development of science and technology in the various forms e.g. maximum citation, first patent, first paper in the most reputed journals
- B. R & D contributions from archives
- C. Specific contributions in historical national/international infrastructural / other technological projects like Dam, Canals, Railways etc.
- D. Contributions through fundamental and applied research in science and technology
- E. Contributions through innovation and development of infrastructure, products, processes, materials, methodologies, procedures, tools etc.

3.0 Submission of Contribution

The contribution may be sent (as a single editable version with supporting photographs, videos, schematics, if any) to ramesh.anbanandam@ms.iitr.ac.in by **September 30, 2021** in the following format:

- Personal info: Name, designation, affiliation, contact details (e-mail, phone etc.)
- Title of the contribution:
- Category of contribution:
- Details of contribution: Please include details of specific contribution of IITR in major national / international projects, Need/area addressed, methodology/approach used, outcome, impact of

the contribution towards S & T and society. You are requested to provide details of contribution in such a way that it is understandable by professionals, faculty member, administrators and students. The contributions should be well supported with suitable schematics/photographs/videos etc. as per availability

- Utility of contributions to S & T and society
- Justification for consideration of the work as a significant contribution

All the contributions to the commemorative volume will be acknowledged and appreciated.

4.0 Procedure

The received contributions against this call for inclusion/recognition in commemorative booklet/volume will be decided by a committee faculty member of the above domains. The contribution received/collected /compiled under category A to C will be examined by a relevant committee and take a decision for inclusion.

The contribution on research and development of S & T received under “category D” will be examined on the basis of the potential for improvement, development of breakthrough technologies, and outstanding peer recognitions, citations etc. while those received under “category E” will be examined on the basis of utility for society, technology transfer, patent and its output, resource generation etc. for improved economy, the standard of living, sustainable development, safety and security, productivity, and welfare of society in general.

5.0 Timeline

- Submission/ collection of the contribution: 30-09-2021
- Finalization of contributions: 30-11-2021
- Compilation, editing and printing (soft & hard) of booklet: 20-01-2022
- Launch of commemorative volume of contribution: 31-01-2022

6.0 Committees including conveners and coordinator

- **Committee for data collection, compilation and outreach (retired contributors and alumni)**
Prof. A Ramesh, DOMS, Convener (ramesh.anbanandam@ms.iitr.ac.in)
- **Committee for evaluation & finalisation of contributions for inclusion in the commemorative booklet**
Prof. B K Mishra, MIED, Convener (bhanu.mishra@me.iitr.ac.in)
- **Committee for editing & printing of the commemorative booklet**
Prof. M L Kansal, WRDM, Convener (mlk@wr.iitr.ac.in)
- **Coordinator for all activities/committees needed come up with a commemorative booklet of R & D contributions**
Prof. D. K. Dwivedi, MIED

Kindly feel free to contact for any further clarification: dwivedi@me.iitr.ac.in

(Team, Commemorating 175 years of Existence of Institute)