

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No.2024/10/CE-III/BR/Professor-of-Practice (E-3454464)

New Delhi, Dt. 05.03.2024

**General Manager,
All Zonal Railways**

Sub: Utilisation of Service of Professor of Practice at IITs/Engg Institution of repute.

Ref: 1. Railway Board letter no. 2017/Trans/01/Policy dated 27-11-2017

2. National Education Policy, 2020

National Education Policy, 2020 intends to strengthen industry- academia collaboration in Higher Education Institutes and have taken an initiative to create position of "**Professor of Practice**" in academic Institutions.

2.0 Zonal Railways may interact with such institutions where "**Professor of Practice**" has been engaged in the field of **Bridge Engineering** and take their assistance. A Memorandum of Understanding can be drawn with concerned IIT following the instructions already laid down vide Ref - 1 above, specifying the Scope of Work, Methodology of work, identifiable deliverables and time frame etc. along with other terms & conditions.

3.0 Certain areas have been identified where the railways can be benefitted by interacting with the "**Professor of Practice**" and the same are listed as **Annexure-I**. The list is suggestive and more areas can be explored as per need in due course of time.

**(Ravindra Kumar Goel)
Principal Executive Director(Bridge)
Railway Board**

DA: As above

Copy to: 1. DG/IRICEN, Pune- for kind information please.

2. PED/Infra-II, RDSO, Lucknow - for information.

3. PCEs/CAOs of all Zonal Railway

Suggested Role of "Professor of Practice" in Bridge Engineering working in IITs/Engg. Institutions

- 1 Peer review of Technical Feasibility Reports/Detailed Project Reports.
- 2 Technical scrutiny of GADs/TADs submitted by NHAI /State PWD / PSUs other Road authorities for feasibility and safety during execution and optimising requirement of traffic blocks.
- 3 Conducting field visits to specific site of works for safety audit and counselling to field staff.
- 4 Suggesting innovative methods of working for launching of girders for ROBs and Box pushing /Pulling techniques to optimise the block time required and suggest / review the protocol / method statement to be followed for ensuring safety during execution.
- 5 Arranging training to engineers of consultants/contractors on topics relevant to improve work efficiency and safety consciousness for satisfactory erection/ execution of bridge works / Road crossing works.
- 6 Arranging safety audit of FOBs/ROBs through competent consultant in the field of inspection of bridges and help in formulating rectification/strengthening schemes with for making good the deficiencies.
- 7 Arranging proof checking of Non-Standard Designs of NHAI / Road authorities through competent independent consultant/Institutions of repute.
- 8 Providing guidelines and checking adequacy of waterway at bridges where breaches or overflowing of flood water have been reported in past.
- 9 Providing guidance in examining adequacy of existing bridges for 25T loading and suggesting retrofitting schemes to make them fit for increased loading.
- 10 Formulating training programme in association with IIT/Technical Institutions for adoption of advanced techniques & methods of strengthening / retrofitting of bridges for higher axle loads & speed.
- 11 Providing technical guidance on bridges having speed restriction and to formulate rectification schemes and assisting railway in the implementation for relaxing speed restrictions.
- 12 Analysing limitation of existing bridges including the geometry in approaches and assisting in prepration of detailed project report with workable schemes to improve speed potential.
- 13 Providing technical guidance on any other issue which may be considered important by CBEs of Zonal Railways.
