Memorandum of Understanding

Between

Ministry of Railway (MoR)

And

All India Council for Technical Education (AICTE)

Date: 13th January 2022
This Agreement is entered into and executed on this 13 Day of January, 2022 at New Delhi.

All Indian Council for Technical Education (hereinafter Called "AICTE"), a Statutory Body of Ministry of Education, Government of India, established under the All India Council for Technical Education Act, 1987 represented by its Member Secretary, having its office at Nelson Mandela Marg, Vasant Kunj, New Delhi 110070 (Which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the ONE PART

AND

Ministry of Railways (hereinafter Called 'MoR'), Government of India, (Which expression unless it be repugnant to the context or meaning thereof, shall be deemed to mean and include its executors, administrators and assigns) represented by Indian Railways Institute of Signal Engineering and Telecommunications (IRISET), Party of the SECOND PART

WHEREAS, the All India Council for Technical Education granting approval to technical institutions for conducting courses in Engineering Diploma, Undergraduate, Post Graduate level and has initiated a number of schemes, to enhance the employability of students passing out from technical institutes, such as:

- The Scheme to Employability Enhancement Training Program (EETP) to provide Competency based Employability Enhancements skills under the EETP;

WHEREAS, the All India Council for Technical Education (AICTE), the first party has the ability to reach nearly all engineering colleges, polytechnics and MBA colleges in India and is keen to enhance the employability of the students passing out from Technical Institutions and make them Job Ready;

WHEREAS, the MoR, the second party is keen to enhance the capability and capacity of a large number of private sector and in public sector contract agencies (hereinafter Called 'Organizations'), who are undertaking the work of design, development and deployment of Automatic Train Protection (ATP) System - 'Kavach' on Indian Railways; and upgrade the technical skills of students by facilitating knowledge in the area of Railway Signal Engineering & Technology;

WHEREAS, both the parties feel that real life work experience if provided and acquired by passing out students of Technical Institutions on their placement in Agencies for Internship shall be immensely beneficial to them and the units will also benefit by getting technical and other help by way of innovative inputs that may be received from such students. Thus, it will be for the benefit of both the students and agencies;

WHEREAS, the Second Party has the expertise in developing subject curriculum & pedagogy so as to effectively and expeditiously reach a large number of educational institutions across India for the purpose;

AND, WHEREAS, both the parties have held discussions and have agreed for collaboration for synergizing their mutual strengths in public interest and to deliver a larger good for the society at large;

NOW, THEREFORE, both the Parties hereby agree as follows.

Implement a collaboration framework as outlined in attached Annexure-I.

1. The AICTE and the MoR may develop and will facilitate in developing the required course module and training content that is industry specific as well as that which may be common to Railway Signaling & Telecommunication industries to make student trainees/interns Industry Ready, for working with the Organizations.
2. During the operation of this MoU, circumstances may arise which may call for alterations or modifications or amendments to this agreement. These alterations or modifications or amendments will be mutually discussed and agreed upon in writing. No amendment or change hereof or additions hereto shall be effective or binding on either of the parties hereto unless set forth in writing and executed by the respective duly authorized representative of each of the parties hereto.

3. If any dispute arises between the AICTE & the MoR on operation and execution of this agreement, efforts shall be made by the Senior Officers of both the parties to resolve the same amicably and if the dispute is not mutually settled, then it shall be referred to Government of India, as per the provisions contained in the Office Memorandum F. No. 4(1)/2013-DPE(GM)/FTS-1835 Dated: 22nd May, 2018 and DPE-GM-05/0003/2019-FTS-1 0937 Dated: 20th February, 2020 respectively notified by the Government of India, Ministry of Heavy industries & Public Enterprises, Department of Public Enterprises, New Delhi for resolution.

4. This agreement may be terminated by either party by giving a notice of three months to the other party without assigning any reason in this regard, subject to settlement of existing liabilities to be met on account of acts done under this MoU. Thereafter, neither party shall have any claim against the other party on account of termination of the agreement.

5. **Effective Date:** This agreement shall be effective from the date it is signed by both the parties and will be valid for a period of **five years** until determined, suspended or terminated earlier.

**IN WITNESS WHEREOF,** the parties hereto, each acting under due and proper authority, have executed this mutually binding Memorandum of Understanding as on the date first written above.

**For and on behalf of**

AICTE, New Delhi

[Signature]

Prof. Anil D Sahasrabudhe,

Chairman,

All India Council for Technical Education

Nelson Mandela Marg, Vasant Kunj,
New Delhi - 110070

**For and on behalf of**

Ministry of Railway

[Signature]

P. Venkata Ramana

(L/A) Director General

Indian Railways Institute of Signal Engineering and Telecommunications (IRISET)

Ministry of Railways, Govt. of India,

Secunderabad - 500017

**Witnesses:**

[Signature]

Nain Singh

Ministry of Railways

[Signature]

Railway Board

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Ministry of Railways

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Railway Board

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Both the Railway sector and academia have needs that can be addressed by establishing an efficient mechanism to promote collaboration between them in a mutually beneficial manner. The key needs of each segment are as follows:

**Engineering Graduates, Post Graduates, and Diploma holders:**

- Exposure to the course curriculum on 'Railway Signaling' and 'Automatic Train Protection (ATP) Systems' - Kavach as an elective course subjects.
- Providing 'internship' for hands-on experience in a lab environment at Indian Railways Institute of Signal Engineering and Telecommunication (IRISET) or any other suitable facility.
- On completing the curriculum and internship, the students shall be job ready thereby improving their chance for placement in Organizations.

**I. Objectives**

The objectives of this joint initiative will be as follows:

1. To prepare the students for potential employability in railway centric signaling projects and provide a ready catchment area for third parties.
2. Improving project timelines in design and deployment of Automatic Train Protection system on Indian Railways and improving quality of the work.

**II. Goals**

The specific goals will be:

1. To finalize a pilot project plan by 1st March, 2022
2. Launch the pilot project in next academic semester

**III. What AICTE will do**

The AICTE can help by way of leveraging existing schemes:

1. Validate and approve the elective subjects for the course curriculum - 'Railway Signaling' and Automatic Train Protection (ATP) System: 'Kavach and, in future, any other subject if needed for this purpose.
2. Motivate and train a reasonable percentage of B.Tech students to work with Organizations.
3. Subsequently extend this to diploma students.
4. Help identify certain students who have the aptitude and the desire to launch startups.
5. Increase the interaction of the academic community in order to:
   a. Benefit the Organizations to increase their effectiveness and thus to help create more jobs.
   b. Get the students to be job ready.
6. Develop relevant training material such as eLearning and real time use of the Internet infrastructure and deliver it to achieve quality, scale and speed.
7. Set up an assessment process wherein the local Ministry of Railways will evaluate the quality of assistance provided by the academic community.

IV. What Ministry of Railways will do

The Ministry of Railways will help in the following manner:

1. Provide training to the faculty of identified Engineering Colleges by the AICTE and to the visiting resource persons;
2. Provide curriculum on the subjects -(i) Railway Signaling (ii) Automatic Train Protection System (Kavach);
3. Provide access to the laboratory for hands-on practical training;
4. Provide access to the live worksites where deployment of ATP is in progress for project exposure;
5. Develop a system to sensitize the Organizations to work with the academic community (students, faculty and administration) for all round betterment; and
6. Work with the AICTE to develop a pilot project and a scaling plan to go beyond the pilot project.

V. Implementation process:

The AICTE and the MoR will identify their respective nodal officers to coordinate this initiative. As a part of the development of a pilot project, both parties will define a practical mechanism for monitoring and fine tuning the implementation process.

Ministry of Railways Training will consist of:

1. Development of relevant subjects and training of faculty of identified colleges or visiting resource persons;
2. Development of experimental sheets for conducting experiments and simulation; and
3. Hands-on training at laboratory and visit to the live worksites.

The goal of the pilot project is to engage with a minimum of 500 students from 100 academic institutions to get a good representation of types of industries within the country.

Feedback Process

In order to understand the effectiveness of the initiative in an accurate and timely manner, the AICTE will develop a mechanism for online feedback from the following stakeholders:

1. Students
2. Academic institutions faculty and administration
3. Organizations