



**MEMORANDUM OF UNDERSTANDING
BETWEEN
CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE, BANGALORE
AND
ATRIA INSTITUTE OF TECHNOLOGY, BANGALORE**

This Memorandum of Understanding (hereinafter referred to as the “MoU”) is entered into this 22nd Day of May, 2019

BETWEEN

Central Manufacturing Technology Institute (hereinafter referred to as the “CMTI”) an autonomous R&D organization and registered as a society under Mysore Societies Act and under the administrative control of the Ministry of Heavy Industries & Public Enterprises, Department of Heavy Industry, Government of India, having its main office at Tumkur Road, Bangalore 560 022 and represented by its Director,

AND

Atria Institute of Technology, (hereinafter referred to as "AIT"), affiliated to Visvesveraya Technological University, Belgaum and having its main Campus at ASKB Campus, 1st main, AGS Colony, Anand Nagar, Bangalore – 560024 and represented by its Principal.

However, the parties are hereinafter referred to individually as “Party” and collectively as “Parties”. And whereas CMTI is a premier multidisciplinary R&D organization in the field of manufacturing technology having various activities and Centres of Excellence, amongst others, as under:

- Support and services to the industry in design & development, manufacturing engineering, maintenance engineering, rapid product development, testing, technical information & publication, Ultra-precision engineering, Metrology, CAD, software for manufacturing, training, etc.
- Nano Manufacturing Technology Centre (NMTC), dedicated to R&D, Product & Process Development, Industrial consultancy, etc. in the field of nano manufacturing technology with extensive networking with Academia, Industry and R&D Organisations.
- Sensor Technology Development Facility (STDF) focuses on micro systems packaging & sensor development, automated vision based inspection system and related thrust areas of technology for the benefit of the Industry and the Manufacturing Sector at large.
- Academy of Excellence for Advanced Manufacturing Technology (AEAMT), offering, independently and in collaboration with National and International Academia, Industry and R&D Organisations, highly vocational intensive programmes in the areas of Advanced Manufacturing, with a view to develop ‘Industry Ready Engineers’.

And whereas AIT is one of the well regarded institution for engineering education and research. Manufacturing Engineering Laboratories have been set up under Mechanical Engineering Department, AIT. Their core activities involve: Additive manufacturing, Digital Manufacturing, Nano Technology, Powder Metallurgical Engineering, Composite materials, Materials characterization and structure property correlations.

And whereas the Parties consider it expedient and in their mutual interest to collaborate with each other as strategic partners for undertaking collaborative R&D activities in Advanced Manufacturing, machine tools and related thrust areas of technology for the benefit of the student fraternity and Industry in particular and the Manufacturing Sector at large.

Through discussions and consultations between the Parties and subject to the terms and conditions set forth in this MoU, the Parties record their intentions and understanding as follows:

1. INTENT

CMTI and AIT have entered into this MoU to further their mutual intentions to jointly work on R&D in Design and Manufacturing Engineering and also in areas like Micromachining, Green Manufacturing, Smart Manufacturing, Industrial Ergonomics, Additive Manufacturing, Welding, Machining, Finishing, Metrology and other Advanced Manufacturing Technology areas.

Both the parties agree that they shall harness their complimentary resources (the resource persons/faculty, the Graduate/Doctoral student fraternity of AIT and the Scientists of CMTI would collaborate and leverage the facilities available at CMTI and AIT and expertise to work together to pursue co-operative research activities for the benefit of the manufacturing and machine tool sector at large.

Both the parties, in line with the recitals, will agree upon detailed plan and conditions of co-operative activities.

2. OBJECTIVES AND SCOPE:

The primary objectives of this MoU are:

- a. AIT and CMTI to recognize each other as Centres of Excellence for Academic and Research collaborations and to share their facilities and resources for research and other mutual benefits.
- b. To undertake collaborative research in
 - i. Design and Manufacturing Engineering
 - ii. Micro and Nano machining, Green Manufacturing, Smart Manufacturing, Industrial Ergonomics, Additive Manufacturing, Welding, Machining, Finishing Processes, Metrology, Sensors Development and other Advanced Manufacturing Technology areas.
 - iii. Any other areas of mutual interest to both CMTI and AIT.
- c. To design industry focused curriculum with a Vocational and Research orientation for select Engineering and Management streams of study and launch Certificate, Diploma, Degree and PG courses.

- d. To undertake joint research activities with National and International Funding support (for ex. GOI S&T agencies like DST, CSIR, SERC, etc.)
- e. AIT to extend its support to CMTI at its campus for offering short term training programmes, Industrial consultancy and related activities for the benefit of Industries and student community of the region.
- f. CMTI may sponsor their eligible employees for pursuing PhD programmes at AIT. The eligibility criteria will be as per the norms of VTU/AIT.
- g. CMTI to offer full semester industry relevant UG projects at CMTI to the eligible final year students of AIT, subject to their meeting CMTI's prescribed selection criteria and availability of projects & project guides.
- h. Jointly formulate the starting of a M.Tech programme at AIT, in the area of Nano-AM technology.

This list may be extended and/or amended with mutual agreement in writing based on emerging needs.

3. RESPONSIBILITIES OF CMTI & AIT

- a. To identify specific contextual research themes/projects in consultation with stake holders including industry, as appropriate.
- b. Form Research teams consisting of CMTI scientists and AIT faculty, on a project-to-project basis.
- c. Identify and establish a cost model for sourcing necessary materials, facilities/ equipment, consumables, etc. The facilities/resource persons can be sourced either from sponsor, CMTI or AIT, or others on a project-to-project basis.
- d. To formulate, design and offer co-branded, Industry focused programmes under Academy of Excellence for Advanced Manufacturing Technologies (AEAMT) under CMTI and AIT.

4. OUTCOMES / DELIVERABLES:

- a. Development of Job Ready man power for the Manufacturing Sector
- b. Technology Transfer & Knowledge Upgradation and Research Capability Enhancement of the AIT Faculty
- c. Opportunities for Qualification enhancement of CMTI employees
- d. Development of capabilities and institutionalized platforms to work on the futuristic requirements of the Manufacturing Sector.

5. CONFIDENTIALITY:

- a. Both AIT and CMTI acknowledge that certain Confidential information may be disclosed by one party to the other (the Party that owns and/or discloses the Confidential Information is hereinafter referred to as the "disclosing party" and the Party receiving or accessing such Confidential Information is referred to as "receiving party") during the tenure of this MoU or

performance of the respective obligations under the resultant definitive agreements hereunder. Confidential Information means all information identified as “Confidential”, including but not limited to information concerning the trade secrets, intellectual property rights, know-how, formulae, processes, inventions, data, network configurations, system architecture, designs, flow charts, drawings, proprietary information, data or materials related to business, services, products, customers, employees, finances or operational information of either party, and any other confidential or proprietary information the disclosure of which might harm or destroy a competitive advantage of the disclosing party. The receiving party shall not, directly or indirectly, disclose to any third party other than its employees, affiliated companies, and authorized agents any information concerning the disclosing party's business methods, products, customers or finances, or any other Confidential Information which is disclosed to it by the disclosing party, without the prior written permission of the disclosing party, unless such disclosure is specifically required in the course of the performance by the receiving party of its obligations hereunder or under the resultant definitive agreements. The obligations of receiving party under this Section shall not extend to any information which: (i) is or becomes a matter of public knowledge, not as a result of any action of the receiving party; (ii) is lawfully in the possession of the receiving party prior to a disclosure hereunder; (iii) is received from a third party who lawfully acquired such information without restriction, and without a breach hereof, by the receiving party; (iv) is disclosed by the receiving party with the disclosing party's prior written approval (v) the information is independently developed by the receiving party, without use of the disclosing party's Confidential Information; (vi) is disclosed by the receiving party under operation of law or regulation or legal process.

- b. The Parties acknowledge that this MoU contains confidential information that shall be considered proprietary by both Parties, and agree to limit distribution of or disclosure about the Confidential Information hereunder and/or this MoU to those individuals within their respective organizations with a legitimate need to know the contents of this MoU. Neither party shall publicize or make any public announcement concerning the terms or nature of the relationship or this MoU without the prior written consent of the other party.
- c. AIT and CMTI both acknowledge that any breach by them of their respective obligations under this Section may cause irreparable harm to the other party for which its remedies at law may be inadequate and that in the event of any such breach either party shall be entitled to seek equitable relief (including without limitation injunctive relief and specific performance) in addition to other remedies provided hereunder or available at law.
- d. Upon termination or dissolution of this MoU, or upon earlier demand thereof, each party shall at the other party's option, either destroy under written certification of such destruction or return to the other party all properties containing the other party's confidential information and copies thereof in its possession.

- e. The Confidentiality Obligations under this Section shall survive during the term of this MoU and 3 years thereafter.

6. INTELLECTUAL PROPERTY RIGHTS:

By entering into this MoU the Parties undertake:

1. To protect each other's intellectual property.
2. Not to use each other's intellectual property without the prior express written consent of the other.
3. Ensure the confidentiality of such intellectual property as provided in Section on Confidentiality and
4. Not to use each other's intellectual property should this MoU be dissolved or terminated at any time.
5. To render itself liable, in case of infringement, to all such damages, penalties, actions as available to the other party under the law.

The Parties agree that neither of them shall gain by virtue of this MoU any rights of ownership or any other interest, right or title of copyrights, patents, trade secrets, trade marks, or any other intellectual property rights owned by the other party, and nothing herein shall mean nor shall be construed to mean that they are at any time assigned, licensed or otherwise alienated to the other party, nor the other party shall be entitled to claim any right, title or interest therein, at any time. All new inventions, innovations or ideas developed in the course of providing services to a client shall belong to the party who develops them during the project/assignment. If the Parties undertake any joint development in the course of providing services to a client or under this MoU, any such joint development will be governed by a separate agreement to be negotiated in good faith by the Parties.

7. GOVERNING LAW & ARBITRATION.

In the event of any dispute or difference arising out of or in connection with this MoU shall be settled by the Parties by mutual negotiations. Any unsettled dispute or difference shall be referred to the arbitration of three arbitrators, of which one shall be appointed by CMTI and the other by AIT.

The two arbitrators shall then appoint a third arbitrator before entering upon the reference. The Arbitration proceedings shall be regulated by the provisions of the Arbitration and Conciliation Act 1996 and the venue of the arbitration shall be Bangalore, India. The language of Arbitration shall be English.

The arbitrators may from time to time with the written consent of Parties enlarge the time for making and publishing the award, which will be binding on the both Parties. The governing law for the purpose of this agreement shall be India. All the courts in Bangalore shall have jurisdiction to try the disputes under this agreement.

8. TERM OF MoU:

This MoU shall be effective from the date of execution hereof and shall remain in force for a period of 3 years or until terminated by either party as above or replaced by a definitive Strategic Alliance Agreement between the Parties whichever occurs first. The Parties may mutually agree to extend the period of this MoU.

9. TERMINATION OF MOU:

- a. Either party shall, upon written notice of sixty (60) days to the other, withdraw from or terminate negotiations or terminate this MoU at any time without cause, and no such withdrawal or termination, for whatever reason will be deemed to be in bad faith, or otherwise give rise to any liability to either party (other than any liability arising from such Party's breach of Confidentiality Obligations, Intellectual Property and liability to make payments to each other for any payment then due and payable as specified in and any other breach of the respective binding definitive contract between the Parties relating to their mutual engagement in projects) Provided that the projects already accepted for implementation will be completed by each party performing the activities and discharging the obligations assigned to it pursuant to the relevant definitive agreement and the Parties agree that all such activities and transactions will be governed by the relevant definitive agreement, notwithstanding the termination of the MoU. On the termination/expiry of this MoU each party will return all property belonging to the other party and hereby undertakes not to use the said proprietary or Confidential information of the other party in any manner whatsoever without seeking the prior written consent of the other party.
- b. Either party shall also be entitled to terminate this MoU for cause in the event of:
 - I. Breach by the other Party of the terms and conditions of this MoU and its failure to remedy such breach within a period of 30 days from date of receipt of a written notice in this regard from the non-breaching party.
 - II. The filing by or against the other party in any court of competent jurisdiction of a petition in bankruptcy or insolvency, or for a scheme of rearrangement (reorganization) with creditors, for the appointment of a receiver or trustees; or the making of an assignment for the benefit of creditors, and such petition is not discharged within 60 days of its filing.

10. AMENDMENT

This MoU may be amended or supplemented only by written document that makes specific reference to this MoU and which is signed by the party against which enforcement of any such amendment or supplement is sought.

11. WARRANTY

Each Party warrants to the other Party that to the best of its knowledge all materials, data, information and other assistance provided by it shall not infringe third party rights.

IN WITNESS WHEREOF, each party has caused its duly authorized representative to execute this MOU as of the date stated above.

**Signed for and on behalf of
AIT, Bangalore**

**Signed for and on behalf of
CMTI, Bangalore**

**Dr Narayanaswamy K V
Principal**

**Dr. Nagahanumaiah
Director**

Witness: