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**MEMORANDUM OF UNDERSTANDING**  
**BETWEEN**  
**MINISTRY OF HUMAN RESOURCE DEVELOPMENT (MHRD)**  
**GOVERNMENT OF INDIA**  
**AND**

**(NAME OF THE GOVERNMENT FUNDED / GOVERNMENT AIDED /**  
**CENTRALLY FUNDED INSTITUTION / PRIVATE UNAIDED INSTITUTION)**  
**FOR IMPLEMENTATION OF SCHEME ESTABLISHMENT OF CENTRES OF EXCELLENCE IN**  
**FRONTIER AREA OF SCIENCE AND TECHNOLOGY (FAST)**

*Nanoscience and Technology*

THIS MEMORANDUM OF UNDERSTANDING is made on this 26<sup>th</sup> day of February 2018 between MHRD the President of India acting through ~~Shri M. Anita Sharma~~ Education Secretary / Additional Secretary, Ministry of Human Resource Development (MHRD), Government of India (hereinafter called the 'THE FIRST PARTY') and (name of Government Funded / Government Aided/ Centrally Funded Institution/ Private unaided) through Prof S. Tuli, the Director / Chairman (BoG) IIT, Delhi (hereinafter called the 'THE SECOND PARTY').

WHEREAS it has been the concern of the Government of India to establish Centres of Excellence (CoEs) for training and research in frontier areas. Some of the centres will offer post graduate and doctoral programmes that combine a unique blend of basic sciences and engineering sciences allowing the integration of fundamental knowledge while developing proficiency in research.

AND WHEREAS in pursuance of this concern, the Project objectives are:

- Creating Centres of Excellence in new and emerging areas of Science and Technology in new and advanced (frontier) areas of Science & Technology.
- Advanced research and training of faculty.
- Path breaking technology to be developed.
- Increasing the number doctoral and post doctoral students in these critical areas of Science and Technology.
- Creating new faculty in the frontier areas so that students are exposed to new areas of science.
- Conduct workshops/Seminars/Conferences to attract foreign faculty and students for teaching and research purposes.

AND WHEREAS the comprehensive description and operating conditions for the Scheme are contained in the Expenditure Finance Committee Memorandum and its Minutes.

THE PARTIES AGREE AS FOLLOWS:

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## SECTION A:

As conditions for participation in 'THE SCHEME', 'THE SECOND PARTY' agrees to:

- the Centres would mainly be a capacity building mechanism with special emphasis on advanced research, training and education in frontier areas of science and technology.
- the Centres are not meant for undergraduate studies. Nor are they going to be merely a degree giving mechanism.
- the Centres are intended to conduct advanced research and training at the Doctoral and Post Doctoral levels.
- the Centres would also help produce outstanding faculty members for various institutes across the country. The Centres will collaborate with the existing premier institutes within and outside India.
- the main focus of these Centres would be mainly research, development and teaching associated with a research atmosphere.
- to conduct advanced courses (at post-graduate M.Tech / Ph.D / Post Doctoral Fellowship). These centres will be established primarily to support research and development in frontier areas. The Centres will also provide research and training at the Doctoral and post Doctoral levels.
- to organize seminars, Symposia, Workshops, Conferences as well as Short-term Training Programmes including summer Schools and Winter Schools.
- to conduct research at various levels.
- to provide opportunities for upgrading qualifications and attracting bright young postgraduates to the teaching profession.
- to enhance the competence level of faculty and postgraduate students.
- the Centres will be located in campuses of existing institution / Universities. They can be both Government Institutions or Private Institutions.
- each Centre will have a Head or Director, who will be leader in the profession. He / She will be an eminent person in the field.
- the Centre should work with full functional, financial and administrative autonomy within the framework of the existing institutions.
- achieve targets given in the Detailed Project Report (DPR).
- implement all academic and non-academic reforms as committed under the Scheme.
- comply with the terms and conditions for the release of first and subsequent Grants by 'THE FIRST PARTY' as described at Section C.
- submit to 'THE FIRST PARTY' all reports and documents relating to progress of the Scheme, Accounts, Audit, Procurement, Disbursement and Annual Work Plan, at the end of each year and / or at such frequency as may be required by 'THE FIRST PARTY'.
- maintain a separate Account and record of the Project Grant received from 'THE FIRST PARTY' and render annual Accounts and Utilization Certificates.
- furnish to 'THE FIRST PARTY' quarterly the Financial Monitoring Reports (FMRs) in the prescribed format in accordance with the procedures.

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- meet all necessary and incidental expenses for the performance of responsibilities like expenses for meetings, travel, professional fees, cost for pre-scheme activities etc. which will not be the liability of 'THE FIRST PARTY'.

## SECTION B:

'THE FIRST PARTY' agrees to:

- release the Grant as described at Section C.
- render or arrange to render such technical assistance and guidance as may be needed by 'THE SECOND PARTY', from time to time for an effective and efficient implementation of the Scheme.
- supervise the Scheme in the concerned Institutions.
- take corrective actions with regard to the non-performing institutions.
- review the findings of audits and maintain the policy reforms and conduct evaluation studies.

## SECTION C:

- 'THE FIRST PARTY' will release funds towards the approved scheme of the Institution in instalments on the basis of progress and performance against eligible activities. Disbursement of Grant to the Institution will be based on expenditure made and unspent balance lying with the institutions.
- 'THE FIRST PARTY' and 'THE SECOND PARTY' agree to accept the following Key Performance Indicators (KPIs):
  - Percentage of faculty with a Masters or a PhD degree
  - Number of Masters and PhD students enrolled
  - Percentage revenue from externally funded R&D projects and consultancies in total revenue
  - Increase in the number of publications in refereed journals
  - Transition rate for students from disadvantaged background and by gender
- Institutions found to be charging capitation fee or indulging in any other malpractice will face punitive action amounting to either their exclusion from the Scheme and recovery of Central funds provided to them till the date of their exclusion or curtailment of Project funding.

SECTION D:

The Project implementation schedule:

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- The Project became effective on 8 May 2013.
- The Project is expected to proceed at uniform rate over four years commencing in 8 May 2013 and is expected to be completed in 2017, extension and funding can be considered by the FIRST PARTY on the basis of outcome of the CoE.

SECTION E:

- By this Memorandum of Understanding both parties affirm their commitment to carry out the activities and achieve the objectives mutually agreed upon.
- Any dispute between the parties shall always be resolved by mutual consultation without any resort to arbitration or other form of legal remedy including resort to Court of Law.
- This Memorandum of Understanding will continue to be effective up to the closure of the Scheme.
- Adherence to the implementation of the MoU will be monitored Annually.
- Amendment to this MoU, if required, shall be carried out in writing duly authenticated and executed by both the parties.

Signed at New Delhi on 26<sup>th</sup> this day of February 2014.

FOR AND ON BEHALF OF  
Chairman /Director, Board of Governors  
(Name of the Institution)

FOR AND ON BEHALF OF  
The President of India

निदेशक भा.प्रौ.सं.दि. की ओर से  
For & on behalf of the Director, IIT, Delhi  
(Prof -----)

for (Shri शैलेंद्र कुमार / SHAILENDRA KUMAR)  
Education Secretary/Additional Secy.

Director  
Secretary

भारत सरकार / Govt. of India  
मा. सं. वि. मन्त्रालय / Min. of H. R. D.  
उच्चतर शिक्षा विभाग / D/o Higher Edn.  
Department of Higher Education

(Name of the Institution)  
**प्रो. सुनीत तुली**  
**PROF. SUNEET TULI**  
संकायाध्यक्ष, अनुसंधान एवं विकास  
Dean (Research & Development)  
भारतीय प्रौद्योगिकी संस्थान, दिल्ली  
Indian Institute of Technology, Delhi  
हौज़ खास, नई दिल्ली-110016  
Hauz Khas, New Delhi-110016

Ministry of Human Resource Development  
Government of India

Witness 1 \_\_\_\_\_  
Witness 2 \_\_\_\_\_

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Witness 2 \_\_\_\_\_