

**MEMORANDUM OF UNDERSTANDING
BETWEEN
HOMI BHABHA NATIONAL INSTITUTE
AND
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**

1. Preamble

The Indian Institute of Technology, Kharagpur (hereafter referred to as IITKGP) is a premier educational institution in science and technology and the Homi Bhabha National Institute (hereafter referred to as HBNI) is a Deemed to be University established under the aegis of the Department of Atomic Energy (hereafter referred to as DAE), Government of India. For the purpose of academic programmes, the following units of DAE are the Constituent Institutions (CIs)/Off Campus Centre (OCC) of HBNI:

1. Bhabha Atomic Research Centre (BARC), Mumbai
2. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam
3. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
4. Variable Energy Cyclotron Centre (VECC), Kolkata
5. Saha Institute of Nuclear Physics (SINP), Kolkata
6. Institute of Plasma Research (IPR), Gandhinagar
7. Institute of Physics (IOP), Bhubaneswar
8. Harish-Chandra Research Institute (HRI), Allahabad
9. Tata Memorial Centre (TMC), Mumbai
10. Institute of Mathematical Science (IMSc), Chennai
11. National Institute of Science Education and Research (NISER), Bhubaneswar (OCC)

RECOGNISING the long standing collaboration and cooperation between IITKGP and some of the CIs of HBNI through programmes such as collaborative research supported by extra-mural funding through the Board of Research in Nuclear Sciences (BRNS), a body under DAE, or directly through allocation under five year plans projects or other relevant MoUs pursuit of M.Tech. provided they fulfill eligibility criteria set by IITKGP under the DAE Graduate Fellowship Scheme (DGFS) wherein the candidates assigned for employment in some of the CIs of HBNI study in an IIT, including IITKGP, and carry out the projects under the joint supervision of the faculty from the IITs and the scientists from the CIs/OCC of HBNI; lectures by IITKGP faculty at DAE establishments and by CI/OCC scientists/faculty at IITKGP, and

RECOGNISING that certain collaborative programmes are ongoing because of individual initiative such as pursuit of research leading to Ph.D. by employees CI/OCC under the external registration programme of IITKGP and co-supervision of Ph.D. students at IITKGP by the scientists/faculty of CIs/OCC and the faculty of IITKGP, and

RECOGNISING that, in view of the establishment of HBNI, while continuing the existing programmes as of present, there is scope of further expansion of the existing collaboration and cooperation, IITKGP and HBNI, collectively referred to as "Partner Institutes"

HEREBY agree to create a long-term institutional partnership in education and research, according to the broad framework set forth in this Memorandum of Understanding (MoU).

2. Objective

To enhance collaborative research in the areas of mutual interest, both in extent and scope, by using the medium of research students enrolled in the partner Institutes.

3. Modalities of cooperation

- 3.1 A student registered under a supervisor for M.Tech./Ph.D. in one Partner Institute (hereafter referred to as Parent Institute) can have a co-supervisor from the other partner Institute. To that end, the Supervisor from the Parent Institute of the student will identify and seek concurrence of a faculty member from the Partner Institute to take up the responsibility of being a co-supervisor. The arrangement will come into effect after the supervisor and the co-supervisor obtain approval for the same from their respective institute.
- 3.2 The Ph.D. students in one Partner Institute may carry a part of the course work in the other Partner Institute with credit transfer. In particular,
- 1) The courses to be credited to the student for attending a course in the Partner Institute will be determined by the Parent Institute of the student.
 - 2) To facilitate the process of a student attending a course in the Partner Institute, the supervisor of the student in the Parent Institute will put up the proposal (in consultation with appropriate academic bodies of the Department) to the Dean PGS&R/Dean (HBNI) – as the case may be.
- 3.3 The Parent Institute shall be responsible for paying to the Partner Institute the tuition fee, if any, for participation of its students in the course work conducted at the Partner Institute.
- 3.4 The ongoing exchange of faculty for lectures and research for short periods shall be further strengthened.
- 3.5 IIT KGP will continue interactions with the CIs of HBNI towards identifying and pursuing research programmes that could lead to a degree from HBNI.
- 3.6 The issues related with the Intellectual Property Right (IPR) with regard to the outcome of the collaborative research and the outcome of thesis/projects work carried out under the joint supervision of the faculty from the Partner Institutes shall be governed through mutual agreement and within the framework of IPR policies of both the institutes.

4. Implementation

- 4.1 This MoU becomes effective from the date it is signed by the Partner Institutes and will be valid for an initial period of five years. The agreement may be extended by mutual consent. In case one Partner Institute wishes to cancel the MoU, written intent to that effect will have to be communicated by June of that year. The MoU in that event will cease to be operative from the end of the year i.e. from December 31 of the year in question. However, the commitments already made under this MoU before its lapse or termination will be fulfilled