

MEMORANDUM OF UNDERSTANDING

between



**SEMICONDUCTOR LABORATORY
DEPARTMENT OF SPACE, GOVERNMENT OF INDIA
SAS NAGAR**

&



**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR**

For

**COLLABORATION ON RESEARCH AND DEVELOPMENT,
FACULTY AND STUDENT EXCHANGE**

MEMORANDUM OF UNDERSTANDING

In furtherance of their mutual interest in the fields of education and research and as a contribution to increasing national cooperation, Semiconductor Laboratory, Department of Space, Government of India having its registered address at Sector 72, S.A.S. Nagar – 160071, Punjab, India (hereinafter referred to as SCL) and Indian Institute of Technology, Kharagpur having its registered address at Kharagpur - 721302, West Bengal, India (hereinafter referred to as IIT Kharagpur) have entered into this Memorandum of Understanding (MoU) on this day of March 2017 as set forth below.

ARTICLE - I

The MoU involves collaboration between SCL and IIT Kharagpur (both also referred to as institutions) in related disciplines.

The two institutions shall seek to promote:

1. Exchange of faculty, staff and students related to academics and research programmes for the mutual benefit of both the institutions.
2. Collaboration in teaching, research and development and consultancy activities.
3. Exchange of academic and research materials and publications.
4. Cooperation in project proposals, research activities of mutual interest
5. Provision of cultural and intellectual enrichment opportunities for the staff and students of both institutions.
6. Collaboration in silicon validation of Integrated Circuit (IC) and MEMS Devices through prototype test chip designed at IIT Kharagpur and implemented at SCL. This includes participation of SCL in design review, supporting the Electronics Design Automation (EDA) flow at IIT Kharagpur by providing Process Design Kit (PDK), fabricating the test chip in SCL process, packaging and measurement of the chip performance at SCL.
7. Joint publication of research papers in scientific journals and in conferences.
8. Exchange of students and staffs for summer/winter internships.
9. Securing Intellectual Property Rights (IPR) developed jointly through project/research collaboration. Such IPR would acknowledge joint inventor-ship of personnel/students belonging to both the institution, as applicable. Intellectual Properties (IPs) developed jointly shall be owned by IITKGP and SCL jointly.
10. Writing books/booklets jointly in areas of mutual interest.

ARTICLE - II

The activities under this MoU may include:

1. Faculty/Staff Exchange

Faculty/Staff exchange activities cover visits to either institution for any of the following purposes:



- (i) Undertaking joint research
- (ii) Participation of faculty/staff for purposes of curriculum development & review and upgrading of teaching and research skills
- (iii) Participation in seminars, colloquia, courses and other types of academic discussions
- (iv) Contribution to teaching programmes
- (v) Co-supervision of postgraduate students
- (vi) Conduct study tours, joint consultancy and research work
- (vii) Facilitation for pursuing academic courses (postgraduate, doctoral) for Department of Space and SCL employees at IIT Kharagpur, subject to the admission rules of IIT Kharagpur.

2. Student Activities

Student (e.g. undergraduate, postgraduate and doctoral students) of IIT Kharagpur may visit SCL for participation in research and development activities.

3. Exchange of Academic Materials

Exchange of relevant academic materials will be carried out subject to mutual agreement of the institutions.

ARTICLE - III

The implementation of cooperation based on this MoU shall be dealt with between the relevant faculties and divisions/departments of both institutions. Wherever necessary, a specific plan shall be worked out for each activity setting forth detailed arrangements for collaboration. Such plans shall be subject to the approval of the appropriate authorities of each institution. To facilitate development of such plans, each institution shall nominate a member of its staff to coordinate activities arising under this MoU.

ARTICLE - IV

Both institutions agree and undertake to keep confidential at all times any information and/or data that may be exchanged, acquired and/or shared in connection with the area of cooperation as mentioned above in ARTICLE - I (6) unless otherwise the same information already exists in the public domain.

ARTICLE - V

Ownership of any research findings through collaborative research shall be vested in both institutions and any publications regarding the same shall only be possible after prior approval from both institutions. A decision on approval, if sought, would be made within a month.



ARTICLE - VI

The MoU shall remain in force for a period of 05 (FIVE) years commencing from the date of signing and may be renewed by mutual consent. Upon renewal, both institutions shall select either to proceed with the existing or new terms of understanding.

ARTICLE - VII

Both SCL and IIT Kharagpur reserve the right to terminate this MoU by either institution giving 3 (Three) months written notice to the other. Where such termination occurs, provisions of this MoU shall continue to apply to ongoing activities until their completion.

ARTICLE - VIII

Participating faculty, staff and students involved in any activities under this MoU must adhere to the law of the country and rules & regulations of the host institutions.

ARTICLE - IX

SCL and IIT Kharagpur welcome establishment of this MoU for cooperation and jointly agree to the provisions as set out above. There will be four copies of this MoU equally valid, two for each institution, effective from the date of its signing.

Semiconductor Laboratory

Indian Institute of Technology Kharagpur



Surinder Singh
Director
Semiconductor Laboratory
SAS Nagar
Punjab, India.
सुरिन्दर सिंह / Surinder Singh
निदेशक / Director
अर्धचालक लेबोरेटरी
Semi-Conductor Laboratory
अंतरिक्ष विभाग, भारत सरकार
Department of Space, Govt. of India
सेक्टर-72, सा.अ.सि. नगर-160071, पंजाब, भारत
Sector-72, S.A.S. Nagar-160071, Punjab, INDIA

Prof. Pallab Dasgupta
Dean,
Sponsored Research & Industrial Consultancy
Indian Institute of Technology Kharagpur
West Bengal, India.
प्रो. पल्लव दासगुप्ता
Prof. Pallab Dasgupta
संकायाध्यक्ष / Dean

Date : March 15, 2017

Date : 15/3/2017
अनुदानित शोध एवं औद्योगिक सलाहकारिता
Sponsored Research & Industrial Consultancy
भा.प्रो.सं. खड़गपुर - ७२१३०२/I.I.T. Kharagpur-721302

Witness



Witness

Pradipto Mandal
15.3.2017