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MEMORANDUM OF UNDERSTANDING

BETWEEN



**SEMI-CONDUCTOR LABORATORY
DEPARTMENT OF SPACE, GOVT. OF INDIA
S.A.S. NAGAR**

AND



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH
CHANDIGARH**

FOR

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

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5/7.2.2018

MEMORANDUM OF UNDERSTANDING

In furtherance of their mutual interest in the fields of education and research and as a contribution towards increasing national co-operation, Semi-conductor Laboratory, Department Space, Government of India, Sector 72, S.A.S. Nagar – 160071, Punjab, India (hereinafter referred to as SCL) and National Institute of Technical Teachers Training & Research, Sector 26, Chandigarh, Union Territory, India (hereinafter referred to as NITTTR Chandigarh) have entered into this Memorandum of Understanding (MOU) in the month of February 2018 as set forth below:

ARTICLE I

The MOU involves collaboration between SCL and NITTTR Chandigarh (both also referred to as institution) in related disciplines.

The two institutions shall seek to promote:

1. Exchange of Staff and Students (Faculty & Research Scholars; Under Graduate, Post Graduate & Doctoral Students and Research Project Employees) regarding Academics and Research for the mutual benefit of both institutions.
2. Exchange of Students for pursuing Courses, Studies and Academic Programmes for mutual benefit of both institutions.
3. Collaboration in Teaching, Research & Development and Consultancy Activities.
4. Exchange of Academic and Research Material and Publications/IPs.
5. Cooperation in Projects and Research Activities of mutual interest.
6. Provision of Cultural and Intellectual enrichment opportunities for the Staff and Students of both institutions.
7. Collaboration in Research & Development in the areas of (i) Advanced VLSI Device Fabrication, (ii) MEMS Fabrication, (iii) VLSI/MEMS Device Characterization, (iv) VLSI/CMOS-RF Circuit Design and (v) VLSI Device Modeling at both NITTTR Chandigarh and SCL. This also includes collaboration in setting-up and upkeep of the relevant infrastructure in both the institutions.
8. Publication of Research Papers in International Scientific Journals and in the Conferences.
9. Exchange of Students for Summer/Winter Internships
10. Publication of Intellectual Properties (IPs) developed jointly through Project/Research Collaboration. Such IPs would acknowledge joint inventorship of Personnel/Students belonging to both the institutions, as applicable.
11. Writing Books/Booklets jointly in the areas of mutual interest.

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ARTICLE II

The activities under this MOU will include:

1. Staff Exchange:

Staff Exchange activities cover visits to either institution for any of the following purposes:

- (i) Undertaking Joint Research
- (ii) Attachment of Staff for purposes of Curriculum Development & Review, Attendance in Courses and Upgrading of Teaching & Research Skills
- (iii) Participation in Seminars, Colloquia and other types of academic discussions
- (iv) Contributions to Teaching Programmes including short term training.
- (v) Co-supervision of Post Graduate and Doctoral Students
- (vi) Conduct Study Tours
- (vii) Joint Consultancy and Research Work
- (viii) Facilitation for pursuing Academic Courses (Post Graduate & Doctoral) for Department of Space / SCL Employees at NITTTR Chandigarh

2. Student Exchange:


Student Exchange activities (for Under Graduate, Post Graduate & Doctoral Students) cover visits to either institution for any of the following purposes:

- (i) Participation in Research
- (ii) Internships for NITTTR Chandigarh Students at SCL

3. Exchange of Academic Materials:

Exchange of relevant Academic Materials will be carried-out subject to the mutual agreement of both institutions.

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ARTICLE III

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 the 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, unless otherwise the same information already exists in the public domain

ARTICLE V

Ownership of findings of any joint research shall be vested in both institutions under this MOU and any publications regarding the same shall only be possible after prior approval from both institutions.

ARTICLE VI


The MOU shall remain in force for a period of 10 (ten) years commencing from the date of signing and may be reviewed by mutual consent by serving 3 (three) months written notice to the other institution. Upon renewal, both institutions shall select either to proceed with the existing or new terms of understanding.

ARTICLE VII

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

ARTICLE VIII

Participating 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.


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ARTICLE IX

SCL and NITTTR Chandigarh welcome establishment of this MOU for cooperation and jointly agree to the provisions as set-out above. There are two copies of this MOU equally valid, one for each institution, effective from the date of its signing by authorized signatories.

Semi-Conductor Laboratory



**Surinder Singh
Director**

सुरिन्दर सिंह / Surinder Singh
निदेशक / Director
सेमी-कंडक्टर लेबोरेटरी
Semi-Conductor Laboratory
अंतरिक्ष विभाग, भारत सरकार
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Sector-72, S.A.S. Nagar-160071, Punjab, INDIA

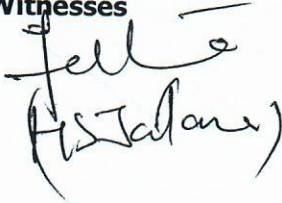
**National Institute of Technical Teachers
Training & Research Chandigarh**



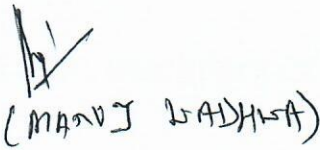
**Prof. (Dr.) S. S. Pattnaik
Director**

DIRECTOR
NATIONAL INSTITUTE OF TECHNICAL
TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH-160 019

Witnesses




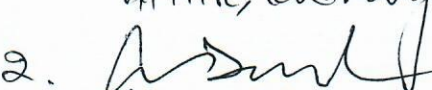
(H. S. Talwar)



(MANOJ WADHWA)

Date: 07-02-2018

Witnesses

- 
(Prof. S. S. Pattnaik)
Dean, Academic & Administrative Affairs
NITTTR, Chandigarh
- 
(JAY K DUGGA)
Head, Information Management & Co-ordinating

Date: Feb, 7, 2018