

54

MEMORANDUM OF ACADEMIC SUPPORT

BETWEEN



**PUNJAB REMOTE SENSING CENTRE (PRSC)
P.A.U. CAMPUS, LUDHIANA – 141004**

AND

**SCHOOL OF ENVIRONMENT AND EARTH SCIENCES
CENTRAL UNIVERSITY OF PUNJAB, BATHINDA**



FOR

Research and Academic Collaboration for Application of Geospatial Technology

This Memorandum of Academic Support ("MoAS") is entered into on the 13th day of July, 2021.

BY AND BETWEEN

Punjab Remote Sensing Centre (PRSC), a Society registered under the Societies Registration Act (XXI of 1860), having its Registered Office at **Punjab Agricultural University Campus, Ludhiana, 141004** an autonomous organization under the Government of Punjab (hereafter referred to as PRSC) on the other part.

AND

School of Environment and Earth Sciences (SEES), Central University of Punjab, Bathinda. Central University of Punjab was established in 2009 by an Act of Parliament (No. 25 of 2009) having its campus at Badal Road, Ghudda, Bathinda-151401, hereafter referred to as CUPB

'PRSC' and 'CUPB' hereinafter also referred to as Institution or Institutions as per the context.

PREAMBLE

PRSC, an autonomous organization under the Government of Punjab, is the apex body in the State for all Remote Sensing (RS), Geographic Information System (GIS) and Global Positioning System (GPS) related works. It is designated as a Nodal Agency by the Govt. of Punjab for geospatial needs of the State and also acts as the centralized hub for the geo-spatial data to all the user departments.

CUPB is a premier organization that offers a wide range of instructional and research facilities across integrated and cross-disciplinary studies to uplift and upgrade the standards of teaching, learning and research to global levels of excellence.

NOW, THEREFORE, PRSC and CUPB agree as follows:

1. OBJECTIVES OF MoAS

The two institutions shall seek to promote:

- ☞ Exchange of Staff related to research in programme for the mutual benefit of both institutions.
- ☞ Collaboration in Research & Development and Consultancy activities.
- ☞ Development and validation of sensors for management of soil, water and environment resources.
- ☞ Using geospatial technology in natural resource management and other areas
- ☞ Exchange of Research Material & Publications / IPs.
- ☞ Cooperation in Projects and Research activities of mutual interest.

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- ☞ Collaboration in Research & Development in the areas of geospatial technologies (Remote Sensing, GIS, GPS, ICT), surveys and allied techniques based on expertise and resource availability in the respective institution. This also includes collaboration in setting-up and upkeep of the relevant Infrastructure in both the institutions.
- ☞ Publication of Research Papers in International Scientific Journals and Conferences.
- ☞ Publication of Intellectual Properties (IPs) developed jointly through Project / Research Collaboration. Such IPs would acknowledge joint inventor ship of Personnel belonging to both the institutions, as applicable.
- ☞ Writing Books/Booklets jointly in the areas listed above or in any other area of mutual interest.
- ☞ Exchange of staff from PRSC to CUPB to pursue Ph.D.'s from CUPB. However, for students enrolled in CUPB, they can opt for a Co-Supervisor from PRSC; the Supervisor shall be from CUPB. All such cases will be approved by Academic Council.
- ☞ PG-Diploma in Geoinformatics

- ☞ PG-Diploma in Geoinformatics will be started collaboratively by CUPB and PRSC from the academic session 2020-2021.
- ☞ Department of Environmental Science and Technology will be the nodal department for conducting the course from of CUPB side.
- ☞ The Post-Graduate Diploma in Geoinformatics will be awarded on successful completion of one-year study (first semester at CUPB and second semester at PRSC).
- ☞ Both CUPB and PRSC will be involved in curriculum development, conduct of lectures/practicals/ field work, examination and evaluation, project guidance and other aspects of the program in conformity with the rules and regulations of CUPB.
- ☞ The Department of Environmental Science and Technology will invite one member from PRSC in Board of Studies (BOS) as a special invitee, whenever there is an agenda item relating to this course.
- ☞ The sharing of Admission fees between CUPB and PRSC shall be in the ratio of 1:1 for both the semesters.
- ☞ The degree awarded by CUPB would prominently carry the name of PRSC also.

2. METHOD OF COLLABORATION UNDER THE MoAS

The activities under this MoAS will include:

- **Staff Exchange**

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

- ☞ Undertaking joint research

- ☞ Participation in Seminars, Colloquia and other types of discussions.
- ☞ Conduct joint Consultancy and Research Work

- **Exchange of Research Materials**

- ☞ Exchange of relevant Research Materials will be carried out subject to mutual agreement of the institutions; duly approved in Academic Council and Executive Council meeting of the University.

Implementation of cooperation based on this MOAS shall be dealt with between the relevant 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 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 agreement.

- **Lead Coordinating Scientists:**

Dr R.K. Setia will be the main coordinator (point of contact) for research and development from PRSC and Dr. Puneeta Pandey will be the coordinator (point of contact) for research and development from CUPB. Under the guidance of respective Head of Institutes, they will retain overall responsibilities of executing the scientific collaboration items and ensure coordination amongst all involved. Respective Head of Institutes, if required, may change the research coordinators.

3. INTELLECTUAL PROPERTY RIGHTS

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

4. CONFIDENTIALITY

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.

5. NOTICES

Any and all notices hereunder shall be served by any Institution to the other (i) by Registered Mail/Speed Post to the addresses herein stated below or (ii) by fax to the numbers here-in-stated below, or (iii) by email:

Handwritten signatures and initials, including a large signature on the left and initials 'IPSC' on the right.

<p><u>For PRSC</u></p> <p>Director, Punjab Remote Sensing Centre, PAU Campus, Ludhiana, Phone : (+91) - 161 - 2303484 Fax: 0161-2303483 Email: contact@prsc.gov.in</p>	<p><u>For CUPB</u></p> <p>Registrar, Central University of Punjab, Badal Road, Ghudda, Bathinda Email: registrar@cup.edu.in</p>
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6. AMENDMENTS TO THE MoAS

No amendment or modification of this MoAS shall be valid unless the same is made in writing by both the Institutions by their authorized representatives and specifically stating the same to be an amendment of this agreement. The modifications/changes shall be effective from the date on which they are made/executed, unless otherwise agreed to.

7. DISPUTE RESOLUTION

In the event of any dispute arising among the parties, the parties shall make possible efforts to resolve the same amicably, failing which the same shall be referred to the Head of the Institutions of the parties. In the interest of both the Institutions, all possible efforts may be made mutually to avoid legal hassles.

8. OBLIGATION

There shall be no financial liability on PRSC and CUPB during the period of MoAS. In the event of cessation of this agreement on its expiry or earlier with mutual agreement, both the Institutions shall be relieved of their obligations under this agreement except those provisions hereof that by their nature are intended to survive such terminations.

9. EFFECTIVE DATE

The MoAS shall remain in force for a period of **05 (FIVE) years initially**, 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.

Both PRSC and CUPB reserve the right to terminate this MoAS by either institution giving 3 (THREE) months written notice to the other. Where such termination occurs, provisions of this MoAS shall continue to apply to ongoing activities until their completion.

10. EXECUTION OF MoAS

PRSC and CUPB welcome establishment of this MoAS for cooperation and jointly agree to the provisions as set out above. There are two copies of this MoAS, equally valid and one for each institution, effective from the date of its signing.

DL *18/6/11*

In witness whereof the Institutions hereto have signed this MoAS the day, month and year mentioned hereinbefore.

For and on behalf of PRSC



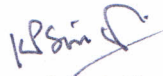
(Dr. Brijendra Pateriya)
Director

Punjab Remote Sensing Centre
(PRSC)

Ludhiana

Punjab Remote Sensing Centre
PAU Sector 15, Ludhiana 141004

For and on behalf of CUPB

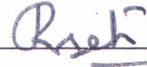



(Mr. Kanwal Pal Singh Mundra)
Registrar

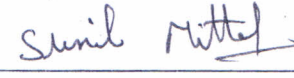
Central University of Punjab / Registrar
(CUPB) पंजाब केन्द्रीय विश्वविद्यालय, बठिंडा-151001
Bathinda Central University of Punjab, Bathinda-151001


SEAL

Witnesses:

1.  _____

2.  _____

1.  _____

2.  _____