GLA UNIVERSITY MATHURA

IN SUPREMÆ DIGNITATIS 1343

MEMORANDUM OF UNDERSTANDING

BETWEEN

THE GLA UNIVERSITY, MATHURA, INDIA

AND

THE UNIVERSITY OF PISA, ITALY

The **GLA University**, hereinafter referred to as **GLAU**, a private higher education institution of foundational nature, located on NH-2, Mathura, UP 281406, INDIA, represented by its Registrar, Mr. Ashok Singh, and the **University of Pisa**, hereinafter referred to as **UNIPI**, located at Lungarno Pacinotti, 43, 56126 Pisa, Italy, VAT 00286820501, represented by its Rector, Professor Paolo Maria Mancarella, jointly hereinafter referred to as **Parties**, recognize the importance of promoting co-operation in areas of mutual interest, in the spirit of contributing to the development of science, knowledge and technology transfer and decide to establish this Memorandum of Understanding (MoU), which shall be governed by the following clauses:

Clause 1

Scope of collaborative activities

In accordance to the legislation of each country and own regulations of the institutions involved, the Parties will initiate, coordinate and cooperate in activities concerning:

- Student exchange programmes;
- Joint research and joint publication in international journals;
- Exchange of Faculty, Researchers and Staff;
- Agreements for the joint development / supervision of Ph.D. theses;
- Joint conferences, workshops, short courses or seminars;
- Other type of collaborations which may be considered opportune and of mutual interest for the Parties.

Clause 2

Addenda

The details and specifications for each of the aforementioned collaborations will be established through Addenda, proposed by either Party. These Addenda will take into consideration the financial framework for the specific cooperation and other details that might be considered important by the Parties.

Professor & Head
Department of Civil Engineering
Institute of Engineering & Technology
GLA University, Mathura-281

GLA UNIVERSITY MATHURA

IN SUPREMÆ DIGNITATIS 1343

Clause 3

Intellectual property

The Parties agree to respect each other's rights to intellectual property. Furthermore, the intellectual property rights that arise as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis in specific Addenda.

Clause 4

Institutional Coordinator

Each institution will appoint a contact person who will act as institutional coordinator of the activities to be developed.

Clause 5

Validity

The present MoU will become legally effective and enforceable as soon as it is signed by the Parties. It will be valid for a period of 3 (three) years and may be renewed for subsequent periods by mutual written agreement between the Parties.

Clause 6

Termination

Any Party may terminate this MoU by giving 6 (six) months' written notice to the other Party.

The legal representatives of the Parties will sign two originals of this MoU of identical content and form in English.

For the GLA University, Mathura

Mr. Ashok Kumar Singh
Registrar

For the University of Pisa, Pisa

Professor Paolo Maria Mancarella
Rector

UNIVERSITÀ DI PISA

25/03/2024

Professor & Head
Department of Engineering & Technology
Institute of Engineering & Technology
GLA University, Mathura-281406

MEMORANDUM OF UNDERSTANDING

BETWEEN

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

AND

GLA UNIVERSITY
MATHURA
Recognised by UGC Under Section 2(f)

Accredited with A Grade by NAAC

SEPTEMBER
2021

LUCKNOW
UP

DINESH SINGH RAGHAV
E-STAMP
UP14301904
M.9412286376
Tehsil Mat, Mathura

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Uttar Pradesh

e-Stamp

Certificate No.	:	**IN-UP04566308956590T**
Certificate Issued Date	:	12-Jul-2021 11:22 AM
Account Reference	:	NEWIMPACC (SV)/ up14301904/ MANT/ UP-MTH
Unique Doc. Reference	:	SUBIN-UPUP1430190497346071751127T
Purchased by	:	NATIONAL HIGHWAYS AUTHORITY OF INDIA
Description of Document	:	Article 19 Certificate or other Document
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	
First Party	:	NATIONAL HIGHWAYS AUTHORITY OF INDIA
Second Party	:	Not Applicable
Stamp Duty Paid By	:	NATIONAL HIGHWAYS AUTHORITY OF INDIA
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

Please write or type below this line

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as "MoU") entered into on this **11th day of September' 2021** by and between:

National Highways Authority of India (NHAI) which expression shall, unless repugnant to the context or meaning thereof be deemed to mean and include its successors and permitted assigns), of the First party;

AND

Ashok Kumar Singh
Registrar
GLA University
17 Km. Stone, NH-2, Mathura-Delhi Road
P.O.-Chaumuhan, Mathura (U.P.) INDIA

GLA UNIVERSITY, Mathura, UP (hereinafter called as GLAU which the expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and permitted assigns) of the Second Party.

WHEREAS,

Both GLAU and NHAI are desirous of working together with mutual cooperation for dissemination of respective expertise in civil/highway engineering field through the road infrastructure development.

NOW, THEREFORE, IT IS HEREBY AGREED BY THE PARTIES AS FOLLOWS:

1. INTENT:

National Highways Authority of India (NHAI) intends to associate the GLAU Mathura who shall voluntarily contribute its share of experience for betterment of the highway infrastructure.

2. SCOPE OF THE MoU

The primary scope of MOU inter alia includes the following:

(i) NHAI shall facilitate the faculty, researchers and students of the Institute to familiarize with the latest trends in the highway/transportation sector with a common objective of sharing the knowledge in their respective domain. This will, in one hand, facilitate to bridge the industry-institution gap and familiarize students with the latest trends in industry and on the other hand the research output could be suitably adopted in practice by NHAI.

(ii) The Institute shall adopt nearby stretches of NHs as specified in the **Appendix-1** as a voluntary initiative under ambit of Institutional Social Responsibility (**ISR**). The list of stretches may be modified by deletion/addition by mutual consent of NHAI and the Technical Institute.

(iii) The adopted stretch may be used as a field of study for faculty, researchers and students.

(iv) NHAI shall offer internship to 40 number of undergraduate/postgraduate students of the Institute periodically and also extend stipend.

(v) NHAI shall pay stipend @ Rs.8,000/- (Rupees Eight Thousand only) per month for undergraduate students and @ Rs.15,000/- (Rupees Fifteen Thousand only) per month to Postgraduate students. All other arrangements including stay shall be responsibility of the Institute. However, depending upon availability, NHAI may extend transportation facility to the interns within the project jurisdiction.

3. Roles and Responsibilities:

The scope of this MOU shall be carried out in a collaborative mode between NHAI and GLAU Mathura. The Roles & Responsibilities of NHAI and he Technical Institute in performing the defined objective shall be as follows:

NHAI

Ashok Kumar Singh
Registrar
GLA University
17 Km. Stone, NH-2, Mathura-Delhi Road
P.O.-Chaumuhan, Mathura (U.P.) INDIA

a. NHAI shall provide the list of potential candidate National Highway stretches for adopting by the Technical Institute.

b. NHAI shall facilitate availability of relevant data required with specific reference to the above stretches through its field office/consultant/concessionaire/contractor engaged in the project.

c. PD, PIU Agra, NHAI will nominate an officer as a point of contact for all correspondence in carrying out the defined objective.

d. NHAI shall facilitate the faculty, researchers and students of the Institute to give access to the site of the identified stretch being adopted by the Technical Institute, relevant documents for the purpose of activities to be carried by these intellectuals of the Institute.

e. NHAI through its field office/Consultant/Concessionaire/Contractor engaged in the project, as per reasonable requirement, will disseminate and familiarize the latest trends and know how in highway/transportation sector in general and the identified project in specific to the authorized faculty, researchers and students of the Institute.

f. NHAI may suitably adopt the research output and feedback received from the Technical Institute in practice for qualitative improvement as deemed fit at appropriate stage of implementation.

g. NHAI may support creation of Lab infrastructure in the Institute and can sponsor relevant research project that helps in using alternative resource material and improving quality of roads.

h. The NH stretch adopted can be co-branded with the associated technical institute by NHAI.

<u>GLA University Mathura</u>

a. GLAU shall adopt stretch(es) of NHs as specified in the **Appendix-1** as a voluntary initiative.

b. GLAU through its authorized faculty, researchers and students will carry out periodic investigation and give suitable suggestions for improving the efficiency of existing highway asset inter alia covering the following aspects:

(i) Improvements in safety provision by removing existing deficiencies.

(ii) Improvements in continual maintenance of the stretch using new technologies.

(iii) Localized solutions for removal of congestion points thereby increasing the average speed of traffic flow.

(iv) Improvements in the riding comfort through cost effective measures based on innovative technologies on practices applicable in the area.

(v) Viability of new way side amenities for road user based on the existing traffic pattern and user expectations.

(vi) Potential solutions to old recurring problems based on local experience etc.

Ashok Kumar Singh
Registrar
GLA University
17 Km. Stone, NH-2, Mathura-Delhi Road
P.O.-Chaumuhan, Mathura (U.P.) INDIA

c. GLAU may also associate with the Consultants/NHAI during conceptualization, design and project preparation of new projects and suggest the relevant parameters and innovations based on experience specific to the site climate, topography and resource potential for better socio economic outcome.

d. Mr. Ravi Kumar, Assistant Professor, Department of Civil Engineering, GLA University, Matura will be the coordinator as a point of contact for all correspondence in carrying out the defined objective as well as inform, from time to time.

4. EFFECTIVE DATE AND PERIOD OF MOU

This MoU shall come into effect for all its intents and purposes from the immediate effect and shall remain valid for a period of 5 years from the date of signing unless terminated earlier by mutual consent by either party by giving 60 days' notice in writing to the other party.

For National Highway Authority of India

(Signature _____ 11/9/21

Name & Designation: (Abdul Basit)
Regional officer-UP(West)

Witness:

1) Signature _____ 11/09/2021

Name: Sh. N P Singh

Designation DGM(Tech.)
RO-UP(West)

For GLA University

Signature _____

Name & Designation: (Ashok Kumar Singh)
Registrar
GLA University, Mathura

Ashok Kumar Singh
Registrar
GLA University
17 Km. Stone, NH-2, Mathura-Delhi Road
P.O.-Chaumuhan, Mathura (U.P.) INDIA

Witness:

1) Signature _____ 11/09/2021

Name: Dr. Dilip Kumar Sharma

Designation: Associate Dean
(Academic Collaboration)
GLA University, Mathura

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APPENDIX-1

The Institute shall adopt the following stretch(es) of NHs as a voluntary initiative under the ambit of Institutional Social Responsibility (ISR).

S.No	Details of the stretch (From Chainage to Chainage)	NH No	Length	Stage of implementation (completed/under construction/under maintenance/project preparation	Remarks
1	Agra to Aligarh National Highway	NH-93 (New No. NH-509)	79	2 lane with paved shoulder completed & 4 lane DPR in progress.	

Above list of stretches may be modified by deletion/addition by mutual consent of NHAI and the Technical Institute.

Ashok Kumar Singh
Registrar
GLA University
17 Km. Stone, NH-2, Mathura-Delhi Road
Chaumuhan, Mathura (U.P.) INDIA

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

उत्तर प्रदेश UTTAR PRADESH EX 082842

MoU FOR TRANSFER OF "JAI GOPAL VERMI CULTURE" TECHNOLOGY BETWEEN ICAR AND G.L.A. UNIVERSITY, MATURA

THIS LICENSE is made on _____ **2019**, BETWEEN **Indian Council of Agricultural Research** (herein after called 'ICAR') society under Department of Agricultural Research and Education, Ministry of Agriculture, Govt. of India engaged in invention and development of technology and know-how in India through its constituent research institutes one of which is **ICAR-Indian Veterinary Research Institute** (IVRI) Izatnagar, U.P. (hereinafter called the **'Research Institute'**) dealing within the meaning of and registered under the societies registration Act 1860 having its Registered Office at No. 1, Rajendra Prasad Road, Krishi Bhawan, New Delhi – 110001, India (hereinafter called 'LICENSOR' which expression shall include its successors-in-interest and assigns) of the ONE PART;

And

G.L.A. UNIVERSITY, MATURA, PIN-281 406 (UP), is intending to take the technology i.e. **"JAI GOPAL VERMI CULTURE TECHNOLOGY"**developed in the Institute for developing business enterprise (hereinafter called 'LICENSEE').

WHEREAS the LICENSOR is the owner of the KNOW-HOW pertaining to the PROCESSES together with KNOW-HOW and the PROCESSES, for the manufacture of the ARTICLE.

WHEREAS the LICENSEE, acknowledging and accepting such ownership of the LICENSOR in the KNOW-HOW, has approached the LICENSOR for the license to use,

क्र० 1053 दिनांक 17.7.2019
प्रेषित 1005 आ० नं०
जी. एल. ए. यूनिवर्सिटी - चौमुहाँ (मथुरा)

पूरनचन्द शर्मा अधिवक्ता मिकेला
सा०नं० [illegible] मथुरा (मथुरा)

कोषागार
मथुरा (उ.प्र.)
07 JUN 2018
मुख्य रोकड़िया.....

exploit and practice the KNOW-HOW and the PROCESSES of the manufacture of the ARTICLE and to sell and vend commercially ARTICLE(S) so manufactured.

NOW IT IS AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

LICENSING TERMS AND CONDITIONS:

Nature of License: Non-exclusive

Duration of the License: 10 years

Licensing Territory: India

License fee: Rs. 29,500.00 (Rs. 25,000.00 as Technology/License Fee + GST @ 18% Rs. 4500.00) to the LICENSOR at the time of signing MoU. No royalty is payable.

Training support: Up to 2 persons nominated by the license shall be trained for the period up to 3 days. The cost of training to be imparted by the institute is included in the license fee. The expenses for boarding and lodging and travel of the licensee personnel shall be borne by the licensee.

ICAR-IVRI grants non-exclusive and non-transferable rights to the licensee.

The **LICENSEE** shall not assign, transfer, encumber, mortgage, charge or sub-license or part with possession of, the KNOW-HOW and/or PROCESS, wholly or partially, without the prior written consent of the LICENSOR.

The **LICENSEE** shall not at any time hereafter claim any independent, exclusive or any other right to the KNOW-HOW and/or PROCESS, including the absolute property of the LICENSOR.

The Licensee shall at its own cost affix a label or inscribe, in a conspicuous manner upon application/product, the legend "technology/know-how developed at ICAR- IVRI". Similarly, every advertisement, publicity material etc., in respect of the application/product shall have/include the same legend in bold letters as aforesaid, in a conspicuous manner.

The Licensee shall communicate to ICAR-IVRI in all the matters related to this technology transfer. Any process modification or value addition to the technology by the licensee will not be allowed in any case without the prior written approval of ICAR-IVRI.

There is no buyback arrangement envisaged in the terms and conditions.

License can be **renewed with fresh terms and conditions** agreed upon as per mutual consensus of LICENSOR and LICENSEE after the expiry of the license period.

Others: All statutory compliances related to production, sales, transportation, storage and performance of the product in the field to be fulfilled by the licensee.

In witness whereof the parties hereto have signed this agreement on the day, month and year mentioned hereinbefore.

Parties

For and on behalf
Indian Council of Agricultural Research/
Indian Veterinary Research Institute

Signature: _____
Name: Dr R. K. Singh
Designation: Director
ICAR-IVRI, Izatnagar

Director
Indian Veterinary Research Institute
IZATNAGAR-243122, (U.P.) India

(Dr Ran Vir Singh)
Technology Leader

Witness: (Name and Address)

1. _____, PS&I/c ARIS cell, ICAR-IVRI, Izatnagar
2. _____, PS&I/c ITMU, ICAR-IVRI, Izatnagar

Date: _____

Organization

Signature: _____
Name: Dr Ashok Kumar Singh
Address: Registrar, GLA University
District: Mathura, Pin: 281406
Tel: 05662-250900 (extn. 906)

Ashok Kumar Singh
Registrar
GLA University, Mathura (U.P.)

Witness: (Name and Address)

1. _____
2. _____

Dr. A. K. Gupta
Director
Institute of Applied Sciences & Humanities
GLA University, Mathura (U.P.)

Dr. S.V. Singh
Professor & Head, Dept. of Biotechnology
GLA University, Mathura (U.P.), INDIA

Date: _____

SCHEDULE – I

Know - how for up-scaling and production of "JAI GOPAL VERMI CULTURE" developed by the research institute (Indian Veterinary Research Institute)

BRIEF KNOW-HOW DESCRIPTION

1. Licensor shall demonstrate the know-how at the Research Institute resulting in the production of **"JAI GOPAL VERMI CULTURE".**
2. Licensor will provide know-how documents pertaining to quality production and quality control of **"JAI GOPAL VERMI CULTURE".**
3. Licensor will provide "Seed material" for successful propagation of **"JAI GOPAL VERMI CULTURE"** as per the know-how provided by Institute.

Signature: 13/2/20
Name: Dr R. K. Singh
Designation: Director
ICAR-IVRI, Izatnagar

Signature:
Name: Dr Ashok Kumar Singh
Address: Registrar, GLA University
District: Mathura, Pin: 281406
Tel: 05662-250900 (extn. 906)

Ashok Kumar Singh
Registrar
GLA University, Mathura (U.P.)

(Dr Ran Vir Singh)
Technology Leader

MEMORANDUM OF UNDERSTANDING

BETWEEN

Mathura, UP 281406

AND

NATIONAL INSTITUE OF HYDROLOGY

ROORKEE

July 2018

PREMABLE

WHEREAS, National Institute of Hydrology hereinafter called as NIH, is a the premier Institute in the area of hydrology and water resources under the Ministry of Water Resources, River Development & Ganga Rejunvenation(MoWR, RD & GR). The Institute was established in 1978 with the main objective of undertaking, aiding, promoting and coordinating systematic and scientific work in all aspects of hydrology.

WHEREAS, GLA University hereinafter called as GLAU, is a renowned private university, which is approved and recognized by the All India Council of Technical Education (AICTE), University Grants Commission (UGC), National Council for Teacher Education (NCTE) and Pharmacy Council of India (PCI), is charged with responsibility of imparting education and technology in all areas of science & technology is committed to bring professional excellence in education and research. It has been accredited by the National Assessment and Accreditation Council (NAAC) with 'A' Grade.

WHEREAS, both NIH and GLAU, now

- Recognizing the importance of using and sharing the Remote Sensing and Geographic Information System (GIS) Technologies in Civil Engineering Department for Water Resource Engineering and Climate Change etc.
- Appreciating the need of collaboration for creation of large reservoir of highly qualified manpower in the area of Groundwater, Environmental Hydrology, Water Quality, Surface Water Hydrology for Water Resources Management.
- Desiring to club their efforts by pooling their expertise and resources.

NOW, THEREFORE, in consideration of the mutual promises made herein and good and valuable consideration, the receipt and sufficiency of which both NIH and GLAU acknowledge, NIH and GLAU hereby agree to sign a Memorandum of Understanding (MoU).

ARTICLE-I: SCOPE OF THE MoU

This MoU details with the modalities and general conditions regarding collaboration between NIH and GLAU for enhancing, within the country, the availability of highly qualified manpower in the area of hydrology and water resources without any prejudice to prevailing rules and regulations in NIH and GLAU and without any disregard to the mechanism evolved and approved by the competent authorities under Govt. of India in so far as such mechanism applies to NIH and GLAU. The areas of cooperation can be extended through mutual consent.

16/8

ARTICLE – II: SCOPE OF ACADEMIC INTERACTIONS

Both NIH and GLAU shall encourage interaction between the Scientists, Research Fellows, Research Scholars, Faculty members and Students of both the organizations through the following arrangements:

Guidance of student projects/thesis in NIH in the area of hydrology and water resources of national interest on mutually agreeable terms as listed below:

i. A Scientist at NIH may be appointed as a co-guide for a student Registered for a Masters or Doctoral degree at GLAU.
ii. The students may carry out a part of their Research work/ or project at NIH under the guidance of Scientists of NIH.
iii. There will be no restrictions on the contents of the project and on publications of results of the projects, subject to the condition that Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
iv. NIH will be free to independently carry out follow-up research on the projects work conducted under this scheme.

ARTICLE-III EFFECTIVE DATE AND DURATION OF MoU:

a. This MoU shall be effective from the date of its approval by competent authorities at both ends.
b. The duration of the MoU shall be for a period of 3 years from the effective date.
c. During its tenancy, the MoU may be extended or terminated by a prior notice of not less than six months by either party. However, termination of the MoU will not in any manner affect the interests of the students/faculty/scientists who have been admitted to pursue a programme under the MoU.
d. Any clause or article of the MoU may be modified or amended by mutual agreement of NIH and GLAU.

ARTICLE - IV: CONFIDENTIALITY

During the tenure of MoU both NIH and GLAU will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for purpose other than in accordance with this MoU.

ARTICLE-V: RESOLUTION OF DISPUTES

In the event of any dispute or difference arising in the implementation of MOU, such disputes shall be resolved amicably by mutual discussion by the Director, NIH and Director, GLAU.

1618

ARTICLE – VI: MISCELLANEOUS

a) The headings and sub-headings are inserted for convenience only and shall not affect the construction of this MOU.

b) After this MOU has been signed, all preceding understandings / negotiations and correspondence pertaining to it shall become null and void.

IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS MOU EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.

Director 16/8/18

NIH – National Institute of Hydrology,

Roorkee

Dated .....

डॉ शरद कुमार जैन/Dr. S. K. Jain
निदेशक/Director
राष्ट्रीय जलविज्ञान संस्थान
National Institute of Hydrology
रुड़की/Roorkee 247667

Diretor

GLAU- GLA University

Mathura

Dated .....31/7/18.....

Dr. A. K. Gup
Director
Institute of Applied Sci
& Humanities
GLA University, Mathura (U.P.)

Witness:

1. Dr. Sanjay K Jain, Scientist 'G', NIH

2. Dr Manoha Arora, Scientist D, NIH.

Witness:

1. Dr. SUDHIR GOYAL, HOD CE Dept, GLA Univ. Mathura

2. Mr. Vinod kumar (AP), DOCE, GLAU, Mathura

MEMORANDUM OF UNDERSTANDING

BETWEEN

GLA UNIVERSITY
ESTD 2010
ऋते ज्ञानान्न मुक्तिः

Mathura, UP 281406

AND

Bentley Institute

Spageo
ga geographic

This Memorandum of Understanding (MOU) is made on this day, the **28th Nov 2018** between **GLA University**, (here after referred as Group) located at 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura-281 406 (U.P.) INDIA and **BENTLEY Institute**, Benltey systems India pvt ltd along with **SPA GEO technologies pvt ltd** located at 8A, 3rd floor, Mahaluxmi metro tower C2 Sector 4 Vaishali Ghaziabad 201010

Whereas

Group GLA university, aims to realize its objective of enhancing youth empowerment through technical education. This institute caters to various engineering disciplines, focusing on learning, industry engagement of students, innovative and inclusive pedagogy, and ethics.

GLA University aims at effective transfer of knowledge, pursuit of truth and moulding the students to become ideal citizens of the country. Within a short span of time, the Institution has emerged to be one of the most preferred institutions for the engineering aspirants in Uttar Pradesh.

Bentley Institute is the global leader dedicated to providing architects, engineers, geospatial professionals, constructors, and owner-operators with comprehensive software solutions for sustaining infrastructure. Founded in 1984, Bentley has more than 5,000 colleagues in 50 countries, more than $800 million in annual revenues, and since 2005 has invested more than $1 billion in research, development, and acquisitions.

SPA GEO Technologies Pvt. Limited, is geospatial solutions and service provider and Bentley Institute Authorised Training programs for Engineering Institutes. SPAGEO has signed partnership agreement with Bentley Systems International Ltd. as Bentley Institute Academic Service Partner. We will be delivering Bentley Institute Academic Courses at GLA university premises in collaboration to the GLA students with the objective to develop technical skill among GLA students and bridge the technical gap of demand and supply of engineering discipline industry. Training Programs / Courses will be conducted on STAAD.Pro, Microstation, ContextCapture, LUMNRT, Open Road Design, Open Rail, Haested, WaterGEMS and SewerGEMS and 50 other products of Bentley in engineering design and complete project lifecycle and Design, Construction, Operation, Management ecosystem. We will also be SPAGEO will also be working on existing GLA facilities for the GLA internship program and industrial training on various engineering discipline.

Objective:

The pure motto of this MOU is to provide a platform for GLA University graduates, who are perusing their career in the discipline of Civil engineering, to get trained and acquire the desired skillset on the technologies in demand of the concerned field.

SPA GEO is the implementation partner on Bentley Solutions, is an authorized channel Partner for Bentley Systems.

Bentley System is a market leader in the mentioned domain of Architecture, Engineering and Construction(AEC) and looks forward to development of skilled hands, in association with GLA University, on its software product family.

Bentley Institute has an academic bundle of 50+ software for students and hopes to fulfill the gap of academia and skilled required by the industry through its fulfilling partnership with GLA University. Bentley also aim to accomplish the following -

a) To build Bentley Powered BIM Advancement lab at GLA University.

b) To Train the Faculties through virtual Faculty Development Program

c) To partner with GLA University for Events to improve Industry Institute collaboration.

d) To be a technology partner for GLA University for projects undertaken by GLA University which implements BIM and Bentley technologies.

e) To provide e- Learning facility for students

f) To Train the Civil Engineering Students on technology used by the industry.

g) To have Bentley Student & Faculty Ambassadors to represent the Institute.

h) To make Students ready to participate in Bentley Student Design Competitions.

Scope of Engagement of this MOU -->>GLA University – SPA GEO technologies pvt ltd - Bentley Institute

Scope of Engagement: GLA

- BIM Advancement Lab launch at GLA
- Integrating Bentley software with course curriculum
- To work in tandem with the Bentley's industrial and domain experts to design an elective for the course of GLA University for the concerned departments of Civil Engineering
- Submission of Roaster/Details of students participating in any activities to Bentley
- To provide approximately 150+ entries for Bentley's global design competition every year from GLA University.

- Nominating two faculty and student ambassadors from GLA University.
- Hosting annual regional faculty development program at GLA University
- Students can act as Bentley Student Ambassador to bridge the gap between academic learning and the technology skills needed by industry.

Scope of Engagement: SPA GEO technologies pvt ltd

- SPA GEO technologies shall be responsible for setting up Bentley BIM Advancement Lab in the civil department and installing / licensing Bentley Academic Subscriptions on the computers identified by the Institution for training purpose.
- SPA GEO technologies shall support the execution by helping in Setting up the laboratory, licensing support, Installation support and providing Basic training post the setting up of laboratory.
- Through Bentley STUDNETserver, SPA GEO technologies will provide Student home use licenses for all the students undertaking the training.
- SPA GEO technologies shall issue "Bentley course completion Certificate" to each of the students after completing the course successfully.
- Project based Training will also be provided at specified cost by SPA GEO.
- Bentley STUDNETserver home use licenses will be provided for students on the module that they have learnt.

Scope of Engagement: Bentley Institute

- Empowering GLA University with Bentley solutions for setting up BIM Advancement LAB on campus
- Bentley Institute will join hand with Faculty development program for GLA University - once a year
- Bentley Certificate to all the training participating students.
- Certificate of coordination to all the faculty and students Ambassadors
- Orientation sessions on campus premises - once in six months
- Virtual sessions and Webinars on topics of concern - once a quarter
- Engagement with Faculty Ambassador(FA) and Student Ambassador(SA) for learning and development of skillset on campus
- Bentley team will join hands with Faculty Ambassadors of GLA University to add our solutions into the Academic curriculum

- Bentley technology State level design competition at GLA University campus – once a year
- Recommendation Letter to every active Student Ambassador.
- The Bentley STUDENTserver provides students with a variety of academic resources and gain access to online training
- Bentley Student Design Competition gives students an opportunity to explore the crucial and rewarding work of designing, building, operating and sustaining the world's infrastructure.

MOU Effective Date

This MOU shall be in force for a period of **four academic years** from the date of signing and will be renewed / refreshed on mutually agreed terms and conditions. The agreement can be canceled from either sides, by giving written communication, two months in advance.

This Memorandum of Understanding shall be effective from the date of signing by all the parties.

This Memorandum of Understanding is made on this day 28th November 2018

Designated Representatives

GLA University

BENTLEY INSTITUTE

SPA GEO Technologies Pvt. Limited.

EXECUTION TERMS ARE MENTIONED HERE UNDER

Execution support shall be extended by SPA GEO technologies in the following areas:

1. Support in setting up the Bentley Laboratory by means of providing necessary IT Support and Technical expertise.
2. Providing necessary licenses and Installation of Bentley products in the Laboratory.
3. Through Bentley STUDENTserver, SPA GEO technologies will provide Student home use licensesfor all the students undertaking the training.

SPA GEO technologies shall also provide Paid Trainings if required on subsidized rates on BENTLEY Products at the above established laboratory. The details of the paid trainings are as below:

SR. NO.	COURSE TITLE	DURATION (HRS.)
1.	2D/ 3D Modeling using **Microstation**	**12 Hours**
2.	Structural Design & Analysis using **Bentley STAAD.Pro**	**18 Hours**
3.	Water Distribution design and Modeling using **WaterCAD /WaterGEMS**	**12 Hours**
4.	Sewer Design & Modeling using **SewerCAD/SewerGEMS**	**12 Hours**
5.	Road Design & Analysis using **Open Road Design/ Open Rail/MXROAD**	**18 Hours**
6.	Reality Mesh and 3d Modelling using **Contextcapture**	**12 Hours**
7.	Urban design and simulation using **LUMNRT**	**12 Hours**
8.	GIS maps preparation using **Bentley MAP**	**18 Hours**
9.	LIDAR Data processing	
10.	Digital Photogrammetry	
11.	***To be added for other software's***	

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

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PREAMBLE

WHEREAS, Raja Balwant Singh College, Agra hereinafter called as RBS, is a the premier institute, which is deeply involved in constant innovation, inclusive education, harnessing technology and invigorating pedagogical practice in teaching and research in the area of science and technology and is affiliated to Dr. B. R. Ambedkar University, Agra. It has been accredited by the National Assessment and Accreditation Council (NAAC) with 'A^{+}' Grade.

WHEREAS, GLA University hereinafter called as GLAU, is a renowned private university, which is approved and recognized by University Grants Commission (UGC) is charged with responsibility of imparting education and technology in all areas of science & technology, and is committed to bring professional excellence in education and research. It has been accredited by the National Assessment and Accreditation Council (NAAC) with 'A' Grade.

WHEREAS, both RBS and GLAU, now

- Recognizing the problems of raising successful crops on drylands;
- Appreciating the need of collaboration for evolving cropping system and to investigate the production potential of intensive crop sequences;
- Acknowledging the need to motivate the farmers to adopt indigenous and profitable methods and techniques of Organic Farming without the use of chemicals, pesticides, insecticides, & weedicides.
- Encouraging farmers to adopt scientific methods of farming including soil and seed testing and most importantly save the grain concept through biotechnology applications.
- Desiring to club their efforts by pooling their expertise and resources.

- Recognizing the need of research collaboration in the areas of biotechnology, pharmacy, computer applications and related engineering disciplines.

The two parties hereby intend to work towards sustainable development in science and technology at GLAU for promoting excellent quality manpower to help the farmers of Etah, Agra, Bharatpur, and Mathura in organic farming, soil and water conservation, and reclamation of Salt Affected Soil and use of Saline Water in Agriculture fields.

NOW, THEREFORE, in consideration of the mutual promises made herein and good and valuable consideration, the receipt and sufficiency of which both RBS and GLAU acknowledge, RBS and GLAU hereby agree to sign a Memorandum of Understanding (MoU).

ARTICLE-I: SCOPE OF THE MoU

This MoU details the modalities and general conditions regarding collaboration between RBS and GLAU for enhancing, within the country, the availability of highly qualified manpower in the area of hydrology and water resources without any prejudice to prevailing rules and regulations in RBS and GLAU and without any disregard to the mechanism evolved and approved by the competent authorities under Govt. of India in so far as such mechanism applies to RBS and GLAU. The areas of cooperation can be extended through mutual consent by adding appendix.

ARTICLE – II: SCOPE OF ACADEMIC INTERACTIONS

Both RBS and GLAU shall encourage interaction between the Professors, Scientists, Research Fellows, Research Scholars, Faculty members and Students of both the organizations through the following arrangements:

a. Guidance of students projects/thesis in RBS in the area of hydrology and water resources of national interest on mutually agreeable terms as listed below:
   i. A Research Scientist or professor at RBS may be appointed as a Research Guide for a student registered for a degree at GLAU.
   ii. The students will carry out their Research work/ or project at RBS under the guidance of scientists or professors of RBS.
   iii. There will be no restrictions on the contents of the project and on publications of results of the projects, subject to the condition that Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.

iv. RBS will be free to independently carry out follow-up research on the projects work conducted under this scheme.

v. If the outcome of a project related to product development, process, technology and design etc which involves matter of secrecy and concern with security of the State and Country the same will not be allowed for publication/printing in any form such as electronically / verbal etc. If the outcome of a project results into an intellectual property, for which rights can be secured, it will be decided on case to case basis. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc by the parties under the law will be decided on case to case basis after mutual consultation.

ARTICLE-III EFFECTIVE DATE AND DURATION OF MoU:

a. This MoU shall be effective from the date of its signing by competent authorities at both ends.
b. The duration of the MoU shall be for a period of 5 years from the effective date.
c. During its tenancy, the MoU may be extended or terminated by a prior notice of not less than six months by either party. However, termination of the MoU will not in any manner affect the interests of the students/faculty/scientists who have been admitted to pursue a programme under the MoU.
d. Any clause or article of the MoU may be modified or amended by mutual agreement of RBS and GLAU.

IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS MOU EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.

Principal 17/11/18	Registrar
RBS – Raja Balwant Singh College	GLAU- GLA University
Agra UP	Mathura UP
Dated	Dated 17/11/18
Witness:	Witness:
1. 17.11.18 Dr RS Chaudhary	1. 17/11/18 Dr Gupta HOD CE
2. Dr. Seema Bhadauria 17/11/2018	2. 17/11/2018 Dr Shoor Mishra