

**Directorate of Innovation, Research and Development**  
(JIIT Noida, JUIT Waknaghat, JUET Guna & Jaypee University, Anoopshahr)

DRID/Projects/2022

Dated : 05 April 2022

To,

**Prof Ashok Kumar Gupta**  
(Dean A&R), JUIT

**SUB : SANCTION LETTER**

1. As already informed by email, Hon Chancellor has approved your project (w.e.f 1.4.2022) as per the following details.

- (a) Title : Intelligent Evaluation and Rehabilitation of Structures.
- (b) Deliverable for 1st year : (i) Lab prototype of Early landslide detection system and lab - scale model development of stonecrete blocks and helical soil nailed slope.  
(ii) Development of android based GUI for real time information and warning on potential landslide threats.  
(iii) Lab testing of the developed early landslide detection system and landslide protection technique for all weathers.
- (c) Coordinators : Prof Ashok Kumar Gupta (Dean A&R), JUIT
- (d) Co-Coordinators : Prof Vivek Sehgal (HoD, CSE), JUIT
- (e) Approved budget : Rs 35 Lakh (Equipment)  
Rs 3.0 L (Manpower & Contingency)
- (f) Equipments : (i) Accelerometers, gyroscopes, dopple sensors, acoustic sensors, moisture sensors, saturation sensors, ultrasonic sensors, temperature-humidity sensors, programmable development boards, etc.  
(ii) Plaxis 3D, HeliCap, CSI Bundle, MIDAS software, and cloud storage for data synchronization  
(iv) Actuator, LVDTs, strain gauges, pressure cells, deflectometers, water jet etc.  
(v) Stonecrete blocks, prototype helical soil nails.

*B.L.J.*



*B.S.*

Assistant Registrar (Academics)  
Jaypee University of Information Technology  
Waknaghat, Distt. Solan (H.P.)

Contd...2/-

2. You are requested to immediately take actions towards initiating research activities so that all the deliverable are achieved in time. The actions towards the purchase of equipment must be immediately started and the purchase should be finalized in the first 2 months. All the projects will be reviewed regularly (on completion of each 3 month period).
3. Coordinator are requested to ensure that only the equipment which is not available in the institute may only be purchased.
4. Coordinator may ensure that equipments purchased with these funds are also available for use to other faculty members.

*BR Mehta*

Prof BR Mehta  
Director, DRID

Copy to :-

1. Pro Chancellor
2. VC (JUIT)
3. CFO (JUIT)



*BR Mehta*

Assistant Registrar (Academics)  
Jaypee University of Information Technology  
Wagnaghat, Distt. Solan (H.P.)

Directorate of Innovation, Research and Development  
(JUIT Noida, JUIT Waknaghat, JUET Guna & Jaypee University, Anoopshahr)

DRID/Projects/2022

Dated : 05 April 2022

To,

**Prof Sudhir Kumar**  
Professor and Head of Dept  
Biotechnology and Bioinformatics, JUIT

**Prof Ashish Kumar**  
Professor and Head, Dept of Civil Engineering , JU

**SUB : SANCTION LETTER**

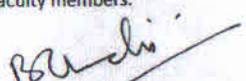
1. As already informed by email, Hon Chancellor has approved your project (w.e.f 1.4.2022) as per the following details.

- |     |                        |   |   |
|-----|------------------------|---|---|
| (a) | Title                  | : | Pine needles' conversion to biofuel for rural empowerment   |
| (b) | Deliverable for 1st Yr | : | Pinebriquettes formation and characterization of the samples  |
| (c) | Coordinator            | : | Prof Sudhir Kumar, Professor and Head of Dept Biotechnology and Bioinformatics, JUIT.   |
| (d) | Co-Coordinator         | : | Prof Ashish Kumar<br>Professor and Head, Dept of Civil Engineering , JU   |
| (d) | Approved budget        | : | Rs 4.50 Lakh (Equipment)<br>Rs 2.50 Lakh (Manpower & Contingency)   |
| (e) | Equipments             | : | (i) Microprocessor based Bomb calorimeter<br>(ii) Briquette machine, manually operated<br>(iii) 20-tonne hydraulic piston press |

2. You are requested to immediately take actions towards initiating research activities so that all the deliverable are achieved in time. The actions towards the purchase of equipment must be immediately started and the purchase should be finalized in the first 2 months. All the projects will be reviewed regularly (on completion of each 3 month period).

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4. Coordinator may ensure that equipments purchased with these funds are also available for use to other faculty members.

  
Prof BR Mehta  
Director, DRID

**Copy to :-**

1. Pro Chancellor
2. VC (JUIT)
3. CFO (JUIT)





Assistant Registrar (Academics)  
Jaypee University of Information Technology  
Waknaghat, Distt. Solan (H.P.)

Band



Indian-Non Judicial Stamp  
Haryana Government



Date : 25/11/2021

Certificate No. G0Y2021K379



Stamp Duty Paid ₹ 101

GRN No. 84459359



Penalty ₹ 0

Deponent

Name Mitsubishi Electric India pvt ltd  
H.No/Floor Na Sector/Ward Na Landmark Na  
City/Village Gurugram District Gurugram State Haryana  
Phone 98\*\*\*\*\*62



Purpose : AGREEMENT OR AFFIDAVIT to be submitted at Concerned office

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website <https://egrashry.nic.in>

AGREEMENT

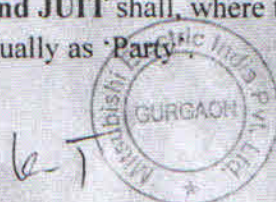
THIS AGREEMENT is made on \_\_\_\_\_, between

**Mitsubishi Electric India Private Limited**, a Company incorporated under companies act, 1956, having its Head Office at Global Gateway Tower A, 3rd Floor, MG Road, Near Guru Dronacharya Metro Station Gurgaon, Haryana, 122002 and Registered Office at B1/G3, 4<sup>th</sup> Floor, Mohan Cooperative Industrial Area, Mathura Road, New Delhi-110044.(hereinafter referred to as **MEI** which expression shall unless repugnant to the context and meaning thereof be deemed to mean and include its successors and assigns) of the one part.

AND

**Jaypee University of Information Technology** having its Office at P.O. - Wagnaghat Distt: Solan (H.P.) Pin - 173 234 and hereinafter referred to as "**JUIT**" (which expression unless repugnant to the context shall mean and include its successors and assigns) of the OTHER PART;

**MEI and JUIT** shall, where the context so requires, be referred to jointly as "Parties" or individually as "Party"



Wagnaghat, Distt. Solan (H.P.)

WHEREAS MEI has decided to initiate collaboration with educational institutes to spread awareness about automation amongst young Indian engineers and contribute to the Indian market through its products and technologies.

WHEREAS it is agreed between the parties that MEI will give Mitsubishi FA Training Equipment as per specifications and features given in **Annexure I** (hereinafter referred to as 'Equipment') to **JUIT** for demonstration, learning & training purposes under the following terms and conditions:

NOW THEREFORE THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. MEI will supply Equipment with all accessories/attachment amounting to Rs. **23,32,200.00** (Rs. Twenty Three Lacs Thirty Two Thousand Two Hundred only) without any consideration. The specification and scope of training equipment is given in **Annexure I**.

2. **MEI** will provide necessary programming software for simulation / programming of training equipment. It is agreed that the software will be strictly used only for student training, learning / demonstration within the premises of the **JUIT**. The institute is not allowed to make copy or circulate this software without written consent from **MEI**.

3. **Confidentiality**

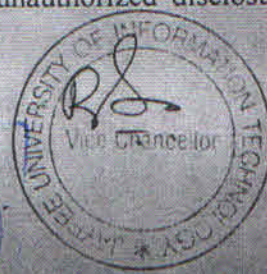
3.1 Any and all provisions of this AGREEMENT shall be treated by both parties as confidential and will be disclosed to students, **JUIT** designated staff and representatives of either party only on "need to know" basis and to the extent necessary for the performance of this AGREEMENT. **JUIT** shall not disclose any of the provisions of this AGREEMENT to any third party without the prior written consent of **MEI**.

3.2 **JUIT** shall maintain confidential any and all business and technical information furnished to **MEI** under this AGREEMENT (hereinafter referred to as "Confidential Information"). **JUIT** shall not, without the prior written consent of, in any manner whatsoever disclose or communicate to any third party any Confidential Information, and **MEI** shall exert its reasonable efforts to prevent the unauthorized disclosure, communication, or use of such Confidential Information.



Assistant Registrar / Examinations  
Jaypee University of Information Technology  
Waknaghat, Distt. Solan (H.P.)

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Waknaghat, Distt. Solan (H.P.)

3.3 In the event that the disclosure of Confidential Information is required by court order, **JUIT** shall promptly notify **MEI** of such court order in which disclosure is sought. In the event that it is unable to obtain a protective order, then **JUIT** shall disclose such portion of Confidential Information that is legally required to disclose, provided, however, that it shall use its best efforts to ensure that such Confidential Information will be treated as confidential.

3.4 **JUIT** shall use Confidential Information only for the purpose of this AGREEMENT. Upon the expiration of Term or termination of this AGREEMENT, or upon **MEI** request, whichever is sooner, **JUIT** shall immediately cease all use of Confidential Information and shall, within two (2) weeks thereafter, return to **MEI** or destroy all Confidential Information in its possession subject to **MEI** instruction.

4. **JUIT** will not make any payment to **MEI** for the training Equipment, it is understood that **MEI** has voluntarily come forward to place its Equipment at **JUIT** to facilitate the institute for conducting training to the students.

5. The Equipment will be placed at **JUIT** for duration mentioned in Cl. No. 16. The dedicated space / section for Equipment will be provided by the College and **MEI** contribution will be displayed at respective equipment /dedicated space.

6. The Equipment will be delivered, installed and commissioned at **JUIT** by **MEI**.

7. **MEI** will continue to retain full title to the equipment while it is at premises at **JUIT**

8. The operation, maintenance and upkeep of the equipment in good condition will be the responsibility of **JUIT**

9. **JUIT** will designate qualified staff to operate the equipment for training and demonstration purposes.

10. **JUIT** will be responsible for the proper and safe operation of the equipment



*[Handwritten signature]*

*[Handwritten text: 3rd Floor, Waknaghat, Dist. Sonapatna, Bihar]*

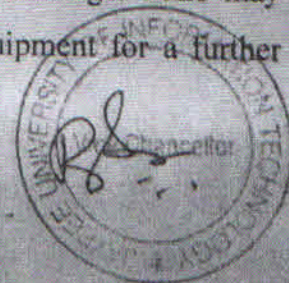


11. Any equipment failures/repairs/spare parts shall be set right or replaced free of cost, by MEI's Servicing Department. However if during servicing, it appears that such failure / damage occurred directly on account of wrong usage / mishandling by any Student / faculty member of **JUIT**. All cost shall be borne by **JUIT** **MEI shall report with reasons along with estimated cost to JUIT for further necessary instructions. The necessary parts / Equipment shall be provided by MEI only against payment of estimated cost from JUIT.** The College shall ensure that the equipment installed at the premises shall not be used for any unlawful or prohibited purpose.
12. **JUIT** shall take the comprehensive insurance coverage for the said equipment at its own costs to cover the accidental damage from fire, burglary, etc. if happened within the premises of **JUIT** and shall indemnify MEI the cost of such equipment's.
13. **JUIT** acknowledges that this Agreement does not grant any right or title of ownership to **JUIT** in MEI's intellectual property unless specifically provided in this Agreement. **JUIT** shall not use MEI's or its affiliates' or Group Companies' Corporate name, trade-marks, emblems, specification, designs, models or logo without MEI's prior written consent. All or any intellectual property rights in the Software, products, design and or campaign shall at all times remain the property of Mitsubishi Electric Group Companies and **JUIT** shall have no claims on the same under any circumstances whatsoever and vice a versa.
14. Logos of **MEI** will be included on all programs handouts / catalogues where in this equipment is directly / indirectly utilized, acknowledging **MEI's** sponsorship of the facility, by **JUIT** subject to **JUIT** shall before imprinting the Logo of MEI on any handouts / catalogues take prior approval, to comply with MEI corporate logo guidelines.
15. Contribution of the equipment will be acknowledged through display boards at the respective equipment by **JUIT**
16. This agreement is valid **From 1<sup>st</sup> Mar 2022 to 31<sup>st</sup> Mar 2023.** After completion of MoU duration or earlier termination of this agreement **JUIT** the equipment will be returned to **MEI** in good working condition considering the standard technical depreciation which may take place during the period due to usage. **MEI** may consider extending the period/replacing it with different equipment for a further period by mutual agreement



  
Assistant Registrar  
Jaypee University of Information Technology  
Waknaghat, Dist. Sonbhadra, U.P.

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Upon breach of any of the terms and conditions by the **JUIT** or misuse of any confidential information / **MEI** logo with any external or third party, **MEI** may terminate this MOU with immediate effect by giving notice without giving any reasons. However, upon termination or earlier termination of MOU, clause 3 of said agreement shall continue to survive for a period of One year from the date of termination and **JUIT** requires to comply with the same.

17. All disputes, controversies or differences arising out of or relating to or in connection with this Agreement, or the breach thereof, shall be finally settled by arbitration in accordance with Arbitration and Conciliation Act, 1996 or any subsequent amendment made thereon the rules made thereunder. The award shall be final and binding upon both the parties and the language of the arbitration shall be in English. The award rendered by the arbitrators shall be final and binding upon the parties hereto.
18. This Agreement shall be construed in accordance with the laws in India, and shall be subject to the exclusive jurisdiction of the courts at **Delhi** in respect of any dispute or differences arising out of or in connection with the subject matter of this Agreement.

#### 19. FORCE MAJEURE:

Neither **JUIT** nor **MEI** shall be liable for any damage or loss suffered by the other on account of the happening of any event which the said parties are unable to avoid and over which they have no control and which prevents the said parties from executing their contractual obligations, such events being, but not limited to war, civil commotions, strikes, natural catastrophes, embargo, Acts of God, etc.

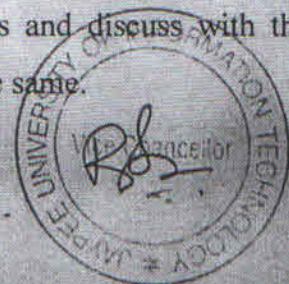
#### 20. Conflict of Interest

**JUIT** has not any relationship with any employee of Company or their family members or friend and not aware of any conflict of interest between its duties to the Company or between the **JUIT** and Company Interest. In the event that any conflict arises or in the event of any material change in the information, **JUIT** will notify in writing to the Company of such circumstances and discuss with the Company in the manner in which it proposes to address the same.



*Signature*


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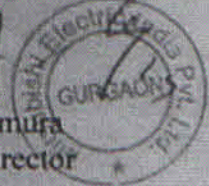





IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly executed the day and the year first above written.

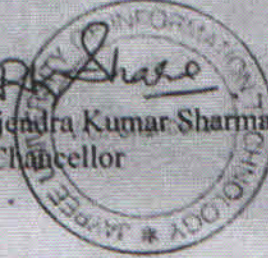
For  
Mitsubishi Electric India Pvt. Ltd.

  
Kazuhiko Tamura  
Managing Director



For  
Jaypee University of Information Technology

  
Dr. Rajendra Kumar Sharma  
Vice Chancellor



WITNESSES:

MEI Side

1.

JUIT Side

1.

  
Assistant Registrar (Academic)  
Jaypee University of Information Technology  
Wazirpur, Distt. Sonbhadra (U.P.)



**Annexure I** to the agreement between MEI and JUIT dated \_\_\_\_\_

**Specifications and features of iQ-R Training Setup:**

<b>A iQ-R Training Set up</b>				Set Price (INR)
No.	Product name	Model	Quantity /set	
1	Base rack - 8 slots	R38B	1	11,16,600.00
2	Power supply for PLC	R61P	1	
3	PLC CPU with 40K Steps memory	R04CPU	1	
4	2 GB memory card	NZ1MEM-2GBSD	1	
5	Simple Motion Module for 4 axis	RD77MS4	1	
6	Dual network module: Ethernet & CC-Link IE	RJ71EN71	1	
7	Digital input module with 32 I/P, sink /source and high speed	RX41C4	1	
8	Digital output module, Transistor output Source type, 32 points	RY41PTIP	1	
9	4 channel Analog Output Module	R60DA4	1	
10	4 channel Analog Input, Module	R60AD4	1	
11	Servo amplifier for three axis, 400W each	MR-J4W3-444B	1	
12	Encoder cable for servo motor	MR-J3ENCBL2M-A2-H	3	
13	Power cable for servo motor	MR-PWS1CBL2M-A2-H	3	
14	Battery Case	MR-BT6VCASE	1	
15	Battery for servo amplifier	MR-BAT6V1	2	
16	Battery Cable	MR-BT6V1CBL03M	1	
17	SSCNET cable	MR-J3BUS1M	1	
18	Servo motor 400 W	HG-KR43	3	
19	A800 series inverter 400W	FR-A820-0.4K-1	1	
20	CC-Link IE Field Card for Inverter	FR-A8NCE	1	
21	8.4" Screen HMI – GT200 series	GT2308-VTBA	1	
22	Connector	A6CON1	3	
23	I/O simulator and X-Y table setup & Induction Motor setup	I/O simulator	1	

**B Total Cost of Offering**

No.	Item	Model	Quantity	Set Price	Total (INR)
1	iQR Training Set up – Part A		2	11,16,600.00	22,33,200.00
2	iQ Works Programming Software	SWIDNDIND-IQWK-E	1	99,000.00	99,000.00
<b>Grand Total of Offering</b>					<b>23,32,200.00</b>

(In words Rs. Twenty Three Lacs Thirty Two Thousand Two Hundred only)

For  
Mitsubishi Electric India Pvt. Ltd.

Kazuhiko Tamura  
Managing Director

For  
Jaypee University of Information Technology

Dr. Rajendra Kumar Sharma  
Vice Chancellor





**AYURVET  
LIMITED**

Village Katha, P.O. Baddi-173 205,  
Tehsil Nalagarh, Distt. Solan, (H.P.), INDIA  
Tel. : 01795 - 247746, 247998  
Telefax : 01795-247690 ; www.ayurved.com

ISO 9001



I-I-11

**TO WHOM SO EVER IT MAY CONCERN**

This is to acknowledge that we have sponsored a project titled "Development of Technologies for bioconversion of lignocellulosic waste from herbal industries in to commercially viable products". Dr. Sudhir Kumar of Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology was the Principal Investigator of this project.

Dr. Sudhir Kumar and his team worked on development of suitable methods for bioconversion of herbal waste to value added products. Herbal waste could be used in production of biogas and optimization of parameters influencing the biogas generation are still ongoing in their campus and a prototype of biogas plant is also fabricated and installed in the Ayurved campus in Baddi.

Herbal waste was used for the production of commercial enzymes - cellulase and pectinase and a joint patent regarding this is in final stages of its draft. Research Scholar of the project also did studies on use of herbal waste for the production of bioethanol. Development of vermicompost using herbal waste was another aspect of the project and this technology was appreciated and published by a peer review international journal.

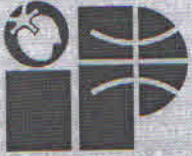
I wish success to the team of Dr. Sudhir Kumar for his future endeavors.

Regards,

(S. Prakash)  
Unit Head

Head, Biotechnology  
Jaypee University of Information Technology  
Waknagat, Distt. Dehra (H.P.)





INTELLECTUAL  
PROPERTY INDIA

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

क्रमांक : 011109975  
SL No :



पेटेंट सं. / Patent No. : 304824  
आवेदन सं. / Application No. : 139/DEL/2011  
फाइल करने की तारीख / Date of Filing : 20/01/2011  
पेटेंटी / Patentee : 1.DEPTT OF BIOTECHNOLOGY AND BIOINFORMATICS,  
JAYPEE UNIVERSITY OF INFORMATION  
TECHNOLOGY, WAKNAGHAT 2.AYURVET LIMITED

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित "PROCESS FOR PRODUCTION OF CELLULOSE AND PECTINASE FROM HERBAL INDUSTRY RESIDUE" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 20th day of January 2011 से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "PROCESS FOR PRODUCTION OF CELLULOSE AND PECTINASE FROM HERBAL INDUSTRY RESIDUE" as disclosed in the above mentioned application for the term of 20 years from the 20th day of January 2011 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 21/12/2018  
Date of Grant :

Assistant Registrar (Academic)  
Jaypee University of Information Technology  
Waknaghat Distt. Sonbhadra



OKSupte

पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 20th day of January 2013 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 20th day of January 2013 and on the same day in every year thereafter.