



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding entered into on 23.08.2019 at Nidasoshi, Belagavi between the Hirasugar Institute of Technology, Nidasoshi, an Institution imparting and offering four year B.E degree courses in the discipline of i) Computer Science & Engineering ii) Mechanical Engineering iii) Electrical and Electronics Engineering iv) Electronics and Communication Engineering., under Visvesvaraya Technological University (VTU) Belagavi, Karnataka & is approved by AICTE New-Delhi, Hereinafter referred to as "**HIT Nidasoshi**" located at Nidasoshi - 591 236, in this MOU, represented by Dr. S. C. Kamate, Principal expression shall unless repugnant to the context means and include its successors and assignees of the **ONE PART**.

INFY SKY with registered no : **29AFRPY8015J1ZJ**, functioning at Belagavi since 2016 (year), currently focusing on IoT, Embedded, Web development, Android App designing and Home/Industrial Automation is represented herein by **Mr. Santosh K. Yadav (Proprietor)**, hereinafter referred to as **Infy SKY**, which expression shall unless repugnant to the context mean and intrude its successors and assignees of the **OTHER PART**.

WHEREAS

The **HIT Nidasoshi** has initiated to promote Industry Institute Interaction to conduct various Industries/Job oriented training programmes/placements to the students, Mutual sharing of resource persons and students for advanced/innovative/future technologies/research activities as well as industries technical related problems and to know industry work-culture/updates along with the regular academic work.

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.

Now this Memorandum of Understanding witnesses that:

The parties have following areas of consensus for mutual benefits.

- 1) **Human Resource Sharing:** Visiting HIT Nidasoshi sponsored course lectures/seminars/workshops/conferences related to new trends/updates in industry by INFY SKY representatives as a visiting faculty/participant and to suggest new ideas to reduce technological gap between INFY SKY and HIT Nidasoshi. Similarly attending INFY SKY organized training/workshop/conference by HIT Nidasoshi faculty/students to upgrade/understand the industrial requirements and to implement the same in the regular academic activities through conducting industry need based trainings/talks.
- 2) **Industry Visit:** Providing an opportunity to the HIT Nidasoshi student community to understand/monitor the live functioning of the INFY SKY to ignite/create new ideas in the HIT Nidasoshi students' minds' by demonstrating INFY SKY resource persons.
- 3) **Internship/Training:** Inclusion of HIT Nidasoshi student community in the internships/trainings conducted by INFY SKY on regular basis during HIT Nidasoshi students' vacation/holidays to get industry experience and to study the academic subjects/labs/projects in the style of industries requirements.
- 4) **Solving Industries Technical problems:** Identification and accounting of the INFY SKY technological problems by INFY SKY/HIT Nidasoshi faculty/students and providing solutions in stipulated time as a project work by HIT Nidasoshi faculty/student community.
- 5) **Recruitments:** Intimating vacancies with numbers required, eligibility criteria, designation and abilities required for the post by INFY SKY and facilitating best suitable candidates by HIT Nidasoshi to the interview/selection process by comprehensively preparing candidates according to the need of INFY SKY. The HIT Nidasoshi cordially invites INFY SKY for in campus selection process or make all arrangements to send HIT students INFY SKY said place for the selection process.



Responsibilities of the HIT Nidasoshi

- Conduct/host/sponsor workshops/seminars in the HIT Nidasoshi.
- Facilitate quality Faculty/students to the INFY SKY for above said process/events.
- Providing hospitality/logistics to the INFY SKY resource persons for workshops/seminars/recruitment process by HIT Nidasoshi.
- Taking all precautionary actions for industrial visit by the HIT Nidasoshi students.

Both parties here mutually understand the above said areas of consensus in the view of mutual benefits.

For Hirasugar Institute of Technology Nidasoshi

1) Sign with name & seal

Dr. S. C. Kamate

Principal

Hirasugar Institute of Technology
NIDASOSHI-591 236

For INFY SKY

1) Sign with name & seal

Mr. Santosh K Yadav

Proprietor





GOVERNMENT OF KARNATAKA
VISION GROUP ON SCIENCE AND TECHNOLOGY
Karnataka Science and Technology Promotion Society
Department of Electronics, Information Technology, Biotechnology and
Science & Technology

Application No. **VRN/000192/20-21**

A. GENERAL INFORMATION

1	Scheme Applied (CESEM, CISEE, K-FIST L1 & L2 and RGS/F)	K-FIST L1 : Karnataka Fund for Infrastructure Strengthening in Science & Technology (K-FIST L1)
2	About the project	
a)	Title of the project	Establishment of Virtual and Physical Industrial Automation Laboratory
b)	Subject area as per instruction (Please refer serial No.26 under Annexure-II)	Electrical and Electronics Engineering
	Subject category area	Industrial Automation

3	Details of Principal Investigator	
a)	Name	Dr. Basavaraj Madiggond
b)	Date of Birth & Gender (Age as on 30/10/2019)	01/06/1970 (Male)
c)	Qualification	Ph.D
d)	Designation	Professor & HoD
e)	Department	EEE
f)	Years of teaching/research experience	Teaching : 27.00 ; Research : 4.00
g)	Email ID	bvmadiggond.eee@hsit.ac.in
h)	Cell Number / Alternate Cell Number	9343454993 /
i)	Residential Address	C3, Professors' Quarters, HSIT Campus, Nidasoshi -591236
k)	Ph.D Degree holder	Yes
l)	Alternate Email ID	basavarajvma@gmail.com

4	Details of Co-Principal Investigator	
a)	Name	Onkar Heddurshetti
b)	Date of Birth & Gender (Age as on 30/10/2019)	03/03/1983 , Male
c)	Qualification	M.Tech
d)	Designation	Assistant Professor
e)	Department	Electrical and Electronics Engineering
f)	Years of teaching/research experience	Teaching : 14.00 ; Research : 0.00
g)	Email ID	obheddurshetti.eee@hsit.ac.in
h)	Cell Number / Alternate Cell No	9448420509 / 9480849340
i)	Residential Address	H.No.1559, Market Road, Hukkeri-591309, Dist:Belagavi, Karnataka
J)	Alternate Email ID	onkarheddurshetti@gmail.com



5	Details of the Head of the Department	
a)	Name of the Head of the Department	Dr. Basavaraj Madiggond
b)	Email ID	hod.eee@hsit.ac.in
c)	Cell Number	9343454993

6	Details of the Institution	
a)	Name of the College/Institution with address	HIRASUGAR INSTITUTE OF TECHNOLOGY Address : NIDAOSHI , NIDASOSHI , Hukeri , Belgaum - 591236
b)	Type of the Institution (as per the instruction in Sl.No.29)	Private Institution
c)	Accredited year by NAAC/NBA	2019
d)	Name of the Head of the Institution	Dr. S. C. Kamate
e)	Designation of the Head of the Institution	Principal
f)	Phone Number (Landline) and college website	08333278887 Website : www.hsit.ac.in
g)	Cell Number	9480849331
h)	Email ID	principal@hsit.ac.in

i)	Student strength		
Sno.	Department	UG	PG
1	Electrical and Electronics Engineering	98	0
2	Electronics & Communication Engineering	150	0
3	Mechanical Engineering	160	3
4	Computer Science & Engineering	193	0
Total		601	3

	Whether the project involves collaboration with research institution / industry? If yes , please enclose a letter to this effect	Yes
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7	If your proposal is selected,	
a)	Cheque/DD to be written in favour of	The Principal, Hirasugar Institute of Technology


8	If, amount to be credited to your bank	
a)	Name of the Account holder	The Principal, Hirasugar Institute of Technology
b)	Name of the Bank	Union Bank of India
c)	IFS Code	UBIN0537578
d)	SB A/c Number	375701010032124
e)	Address of the Bank	Azad Road, Kulkarni Building, Sankeshwar



- a) We are aware of all instructions and directions indicated in Guidelines, Terms and Conditions (GTC) present in GRD – Book of VGST.
- b) We undertake to utilize the VGST grant by strictly adhering to the GTC of VGST.
- c) We undertake the responsibility of purchasing/procuring the equipment only within the VGST approved cost/price.
- d) If we purchase the equipment more than the VGST approved cost the college management will meet the extra cost.
- e) In case of transfer/ retirement/ deputation/ termination/ change of work place from this Grantee Institution, we shall obtain NOC from VGST office by suggesting another responsible & suitable faculty member as PI who belongs to the grantee Dept. of this College/ Institution.
- f) We will procure the equipment within the allowed cost as approved by VGST in the Budget Estimate (PART - A of GRD).
- g) We will not procure any equipment which is not approved by VGST. If such procurement of Equipment/Item is made without the VGST's approval, the College Management/ Grantee Institution will bear the cost of the equipment/Item.
- h) While procuring the equipment, Purchase Committee will follow the procurement procedure as per the KTPP Act 1999 & 2000.
- i) We will obtain the VGST approval of the Budget Estimate (both Non-recurring & Recurring) indicated in PART-A of GRD only once in a Financial Year (FY) & we will not submit for the revised Budget Estimate. We will submit to VGST all the necessary Purchase documents (PART-B) within the 4 months period from the date of issue of grant. We will submit quarterly progress report and consolidated report at the end of the project.



(Dr. Basavaraj
Madiggond)


Signature of the
Principal Investigator



(Onkar Heddurshetti)


Signature of Co-
Principal Investigator



Signature of Head of
the Department

Dr. B. V. Madiggond

Prof. & Head BE,ME,Ph.D.
Dept. of Electrical & Electronics Engg.
HIT NIDASOSHI-591 236



Signature of the Head
of the Institution
(with seal)

PRINCIPAL

Hirasugar Institute of Technology
NIDASOSHI-591 236

Attached documents

S No.	Document Name	File Name	Document Description
1	Others	Consent Letter.pdf	Willingness of our Institute for partial financial support
2	Duly Signed & Scanned Copy of Endorsement from the Head of the College/Institution	Endorsement.pdf	Endorsement by HoI
3	Others	List of Equipment.docx	List of Equipment required for I & II installment
4	Others	Methodology.docx	Block diagrams of methodology
5	Part-A	Part-A.pdf	Part-A: Budget Estimation, Justification
6	Others	Time Schedule and work plan.docx	Milestones with Time Schedule and Work plan
7	Duly Signed & Scanned Copy of Undertaking from Principal Investigator And Co-Principal Investigator	Undertaking from PI & Co PI.pdf	

B. DETAILS OF THE PROJECT PROPOSAL

1. Title of the Project Proposal	Establishment of Virtual and Physical Industrial Automation Laboratory
2. Project Keywords	PLC, SCADA, Virtual, Automation, Control
3. Objectives of the proposal (Not more than six points)	<ol style="list-style-type: none"> 1. To augment teaching, learning and research in the field of industrial automation. 2. To bridge the gap between industry needs and available set of skills through industrial automation oriented learning. 3. To train the students and industry professionals with the software and hardware of PLC and SCADA so that they can gain enough experiences to meet the demand of industrial automation. 4. To improve industry competitiveness globally by acquiring the practical skills sufficient to design and realize basic automation process. 5. To improve students' employability.
4. Background of the project	<p>The teaching-learning process in engineering programs requires a balanced combination of theory and practice since students should be able to, correctly, establish the relationship between theory concepts and its application in real time systems. Moreover, it must be valid for different sectors where the application of engineering is in demand. The programming of industrial automation systems is essential for many engineering programs. One of the main goals for the courses related to PLC programming consist on the learning of adequate control procedures applied to different engineering fields and real automation plants to be controlled and monitored using these industry-wide standard controller. The creation of automation plants for students' practice is a difficult task for institutes as it is very complex and requires heavy investment. The difficulty becomes even greater when the institutes offer on-line education programs, as it is not possible to, remotely, bring a real plant to the students connected from home or workplace. Given these conditions, a strategy that has been gaining acceptance is the development of virtual laboratories where the materials and equipment to be used are available to the students at any time. It is important to mention that apart from virtual laboratory, it is very much essential to establish physical laboratory for better understanding of industrial automation. A physical laboratory with physical facilities is the place where students develop their manual skills to build and test experiments, reinforcing the theory of the course. In some areas of engineering, physical laboratory is required since it is considered to be the only way to reproduce the experiment under study and provide the students real situations as they will face during their professional career.</p>



<p>5. Methodology (Graphs, designs, charts, may be attached as a separate file in the list of attachments by selecting Document Type 'Others')</p>	<p>The Automation Lab allows the students to understand the requirement and functioning of Programmable Logic Controllers (PLCs). This is the first step toward Internet of Things (IOT). Here the students learn how to Program Industrial PLCs, work with Industrial Human Machine Interface (HMI), Industrial SCADA (Supervisory Control & Distributed Acquisition) and PLC networking.</p> <p>The PLC laboratory will be setup to complement the topics studied in the automation theory course. The lab will be equipped with PLC automation trainer kits and modules to enable the study of components of automation system. The students perform experiments to study the components of PLC, programming PLC, interconnection of PLC with computer, SCADA programming and fault detection in automation system.</p> <p>The programmable logic controller (PLC) is a solid state electronic device designed to replace electromechanical relays, timers, counters and sequences, by using a programmable memory for the internal storage of user oriented instructions for implementing specific functions such as logic sequencing timing, counting and arithmetic control through digital or analog inputs and outputs, various types of machines or processes. The architecture of PLC is as shown in fig.1 (Refer attachment 1).</p> <p>The CPU of the PLC executes the user-program over and over again when it is in the RUN mode. The fig.2 shows the PLC scan cycle(Refer attachment 1).</p> <p>In the proposed laboratory, students perform the following experiments virtually and physically:</p> <ol style="list-style-type: none"> 1. Liquid level control system 2. Speed control of DC motor 3. Temperature control system 4. Start delta converter 5. Traffic signal control system 6. Bottle filling system <p>Please refer Attachment 1 for block diagrams of above experiments.</p>
<p>6. Milestones with time schedule & work plan</p>	<p>Please refer Attachment 2</p>
<p>7. List of equipment available in your Institute/College for the project implementation</p>	<p>Since, the proposed virtual and physical automation lab is new laboratory to be established in our institute, none of the major equipment present in our institute can be utilized for the proposed laboratory.</p>
<p>8. List of equipment required for 1st instalment & 2nd instalment for Project Implementation</p>	<p>Please Refer Attachment 3</p>
<p>9. Relevance, importance & application of the project</p>	<p>The laboratory work is a very important task for an industrial automation course, students need to be hands-on implementing automation tasks by applying different methodologies taught in the course. However, due to the wide variety of automation processes, devices, and manufacturers of equipment used in the industrial area, it is very difficult for an institution to provide all materials and equipment to students. Nowadays, the software modelling tools have reached a high level of precision and are capable of reproducing the behavior of a real automation plant. They allow to impact a large number of users with the advantage of high flexibility in modifications, providing additional opportunities for the exploration of different parameters or configurations in a short time with suitable software. Students using the virtual experiments earn a higher level of understanding of the processes and they do not have to waste time in installation, connection and start-up procedures. Moreover, the use of this strategy is not only valid to increase the skills in automation plant programming but also aligns with the current trend in industrial systems used by many companies in their production plants. The creation of new production plants by virtual modelling avoids the physical construction of experiments or prototypes which are expensive and time consuming to build. This is possible to be achieved by the proposed infrastructure in this work where industrial tools can be used (PLC programming software, SCADA systems, etc.) as if a real industry existed but the expenses associated to the physical construction are avoided. This technique achieves very good and reliable results in less time. However, we must not forget that the use of physical equipment is also recommended as it is the final goal of any industrial automation. These skills to students provides more real environment similar to those that they could find in their future work and thus, will be more appreciated.</p>



10. Novelty/Uniqueness of the project	<p>The teaching-learning process in an engineering degree program is not a simple task since the theoretical part should be complemented by a set of laboratory experiments to reinforce the skills taught in the theory classroom. Laboratory experiments are not always possible, especially for those courses requiring highly specialized equipment and materials. The situation is even worse when moving into online courses where traditional courses need to be adapted and the use of an industrial laboratory is not possible for students who do not have the possibility of attending to a physical laboratory.</p> <p>This project describes a flexible infrastructure where two types of teaching for an industrial automation laboratory can be done: virtual and physical. Using server as the basic data exchange tool, the instructor can use simulated or real data for an industrial plant and the student must use PLC programming to control the proposed automation system. The PLC in turn can also be real hardware or simulated but, in any case, the PLC programming is valid for both cases since it is transparent to it due to data exchange arisen from the server. Furthermore, a visualization interface for the industrial plant can also be created by standard tools linked to the server. This proposal allows students to work as in a real environment by using industry standard tools for programming and monitoring. It also allows more interaction and testing of extreme or unusual conditions in the industrial plant which are not easy to obtain if a real plant is used. Using these software tools favorably completes the development of skills for students and they become familiar with software tools widely used in industrial companies where its use is extensive. Also, with the development of physical laboratory, one can realize the simulated data practically for different applications.</p>
11. Whether this project leads to innovations and patents, if yes explain	<p>YES</p> <p>The industrial automation can significantly enhance the efficiency and flexibility of production processes and augment the value of products and services. The transition towards "smart" factories operating autonomously has already been recognized as an important challenge by industry. Likewise, the deployment of connected objects in transport (autonomous vehicles), energy (smart grids), cities, healthcare and agriculture profoundly changes the way these sectors are organized.</p> <p>The proposed virtual and physical automation lab enables the students and industry professionals to inculcate the knowledge and skill sets in the field of automation. This will motivate the professionals to invent, develop and propose new technologies for automation.</p>
12. Whether this project leads to a Startup, if yes explain	<p>YES.</p> <p>With the establishment of virtual and physical automation lab in the institute, the students acquire the skill sets required for automation in the field of industry, agriculture, etc. Research and Markets released a report titled, "Global Industrial and Factory Automation Market Analysis and Forecast," which laid out the growth for the automation industry through 2022. The report goes on to detail that by 2022 the industrial automation equipment and services market will grow at a compounded annual growth rate (CAGR) of more than 7%. Hence, there will be a huge opportunity for the budding engineers to establish their own startups and get involved in the production of automation modules required for residential, agricultural and industrial automation process.</p>



13. Whether this project leads to cost effective Technology, if yes explain	<p>YES.</p> <p>Since, the project involves mostly the establishment of virtual automation laboratory, the strategy of creating virtual laboratories is beneficial and its impact is greater than a physical or remote laboratory. Nowadays, the software modelling tools have reached a high level of precision and are capable of reproducing the behavior of a real automation plant. They allow to impact a large number of users with the advantage of high flexibility in modifications, providing additional opportunities for the exploration of different parameters or configurations in a short time with less economical cost. Students using the virtual experiments earn a higher level of understanding of the processes and they do not have to waste money in installation, connection and hardware testing procedures. The creation of new production plants by virtual modelling avoids the physical construction of experiments or prototypes which are expensive and time consuming to build. This is possible to be achieved by the proposed infrastructure in this project where industrial tools can be used (PLC programming software, SCADA systems, etc.) as if a real industry existed but the expenses associated to the physical construction are minimized. This technique achieves very good and reliable results in less time and low cost.</p>
14. Highlight reasons in FIVE sentences or less, what is special, unique or novel in your project that makes it an attractive proposition	<p>This project describes a flexible infrastructure where two types of teaching for an industrial automation laboratory can be done: virtual and physical. This proposal allows students to work as in a real environment by using industry standard tools for programming and monitoring. It also allows more interaction and testing of extreme or unusual conditions in the industrial plant which are not easy to obtain if a real plant is used. Using these software tools favorably completes the development of skills for students and they become familiar with software tools widely used in industrial companies where its use is extensive. Also, with the development of physical laboratory, one can realize the simulated data practically for different applications.</p>
15. Deliverables of the project (Precise and in bullet form)	<ol style="list-style-type: none"> 1. Establish a state-of-art infrastructure at Hirasugar Institute of Technology. 2. A complete learning solution that will build specific skill set and equip students with employable skills in automation and manufacturing. 3. Promote Industry-academia partnership. 4. Updated technical education curriculum that is more aligned with industry needs. 5. Improved employability which is mutually beneficial to the students proposed to be trained as well as the industry. 6. Vocational training for skill enhancement of the youth of the region. 7. Impart training to the faculty and students of Hirasugar Institute of Technology. 8. Impart training to the faculty and students of other engineering institutes and Polytechnics in the region.
16. Please state willingness of your Institute to give partial financial support to this proposal. If yes, state percentage of the total cost that will be supported by your Institute. Include a signed letter from the head of the institute assuring the said support	15% (Please refer attachment 4)
Information about Principal Investigator, Research track record, Innovation in the proposed work	
a) List of Publications (For the last 5 years) i) Journal Publications listed @ SCImago Journal Rank (Rating : Q1 OR Q2 OR Q3 OR Q4). Specify rating by referring the website: https://www.scimagojr.com/journalsearch.php	
	NIL
	NIL
	NIL
ii) Journal publications -Not listed in SCImago Journal rating rank	
	"Design and Implementation of Z-Source Based Multilevel Inverter" in Sambodhi, UGC Care journal, ISSN:2249-6661, Vol-43, No.-03 (III) November-December (2020)
	"Design Optimization for Low Voltage DC-DC Converter with Coupled Inductor Topology" in Asian Power Electronics Journal, Volume 9, Issue 1, December 2015.



	"Behavioral Analysis of Three stage Interleaved Synchronous DC-DC Converter for VRM Applications" in an international Journal of Emerging Technology in Computer Science and Electronics, Volume 14, Issue 2, April 2015, ISSN: 0976-1353.
iii) Conference Presentations	
	Presented a paper on "Design and Implementation of Z-Source Based Multilevel Inverter" in an international conference on 'Continuity, Consistency and Innovation in Applied Sciences and Humanities' on 13th and 14th august 2020 held at St. Martin's Engineering College, Secunderabad.
	Presented a paper on "Design and Simulation of Multiphase Synchronous DC-DC Converter" in an International Conference on Smart Electronics Systems 2016 at KLE Society's Dr.M.S.Sheshagiri College of Engineering and Technology, Belagavi.
	Presented a paper on "Behavioral Analysis of Three stage Interleaved Synchronous DC-DC Converter for VRM Applications" in an International Conference on Emerging Trends in Engineering 2015 at Jain College of Engineering, Belagavi.
iv) Google Impact factor of journal	1. Impact Factor: 2.8 2. Impact Factor: 3.96 3. Impact Factor: 4.780
b) Patent(s) filed/granted with details	NIL
c) Give details of commercialization status for the granted patents	NIL
d) Books published/chapter contributed with details	NIL
e) Industrial consultation (given/undertaken) provide details (past 5 years)	NIL
f) Other details if any You may state willingness of your Institute to financially support this proposal. If yes, what percentage of the cost will be supported by your institute. Include a signed letter from the head of the institute reflecting the same.	YES, 15% (Please refer Attachment 4)
g) Highlight reasons in FIVE sentences, why your project must be chosen over many other proposals received by VGST?	This project describes a flexible infrastructure where two types of teaching for an industrial automation laboratory can be done: virtual and physical. This proposal allows students to work as in a real environment by using industry standard tools for programming and monitoring. It also allows more interaction and testing of extreme or unusual conditions in the industrial plant which are not easy to obtain if a real plant is used. Using these software tools favorably completes the development of skills for students and they become familiar with software tools widely used in industrial companies where its use is extensive. Also, with the development of physical laboratory, one can realize the simulated data practically for different applications. Hence, with the establishment of virtual and physical automation lab will help our institute to conduct in house automation training program to enhance the employability and skill sets of the individuals.
h) Have you tested your concept/innovation? If yes indicate supporting results that makes you to believe in the succusses of the proposal	YES. Our institute has organized one month training program for 21 final year engineering students on "Industrial Automation" by prolofic Systems and Technologies Pvt. Ltd. Bengaluru during July 2019. Our students were trained with extensive, in-depth, hands-on practical training on diversified industrial automation platforms currently used in the industry and equipped with skill sets necessary to function effectively in technology intensive areas of industrial asset management, maintenance, projects, production, and international project consultancy. Industry's feedback revealed that our trained students were found to possess exact skill sets necessary to be successful in the segment of Industrial Automation across broad spectrum of industries. As a result, all 21 trained students got placed in reputed industries in the field of automation. Hence, if our proposal get sanctioned, it will help our institute to conduct in-house automation training program and to enhance employability.
Information about Co-Principal Investigator, Research track record, Innovation in the proposed work	
a) List of Publications (For the last 5 years) i) Journal Publications listed @ SCImago Journal Rank (Rating . Q1 OR Q2 OR Q3 OR Q4). Specify rating by referring the website: https://www.scimagojr.com/journalsearch.php	

	Nil
	Nil
	Nil
ii) Journal publications -Not listed in SCImago Journal rating rank	
	"Design and Implementation of Z-Source Based Multilevel Inverter" in Sambodhi, UGC Care journal, ISSN:2249-6661, Vol-43, No.-03 (III) November-December (2020)
	"Advanced Hybrid Electric Vehicle" in a Journal of Composition Theory, Volume 12, Issue 6, June 2019, UGC Approved & 5.7 Impact Factor, ISSN:0731-6755.
	"Design and Implementation of Trans Z-source Inverter" in Journal of Emerging Technologies and Innovative Research, volume 5, Issue 9, Sept-2018, UGC Approved & 5.87 Impact Factor, ISSN 2349-5162.
iii) Conference Presentations	
	Presented a paper on "Design and Implementation of Z-Source Based Multilevel Inverter" in an international conference on 'Continuity, Consistency and Innovation in Applied Sciences and Humanities' on 13th and 14th august 2020 held at St. Martin's Engineering College, Secunderabad.
	Presented a paper on "Advanced Hybrid Electric vehicle" in 2nd international conference on 'Recent Innovations in Science, Engineering and Technology' on 18th July 2019 held at HIT, Nidasoshi, Karnataka.
	Presented a paper on "Design and Implementation of Trans Z-Source Inverter" in an international conference on 'Recent Innovations in Science, Engineering and Technology' on 18th & 19th May 2018 held at HIT, Nidasoshi, Karnataka.
ii) Journal publications -Not listed in SCImago Journal rating rank	<p>1. "Design and Implementation of Z-Source Based Multilevel Inverter" in Sambodhi, UGC Care journal, ISSN:2249-6661, Vol-43, No.-03 (III) November-December (2020)</p> <p>2. "Advanced Hybrid Electric Vehicle" in a Journal of Composition Theory, Volume 12, Issue 6, June 2019, UGC Approved & 5.7 Impact Factor, ISSN:0731-6755.</p> <p>3. "Design and Implementation of Trans Z-source Inverter" in Journal of Emerging Technologies and Innovative Research, volume 5, Issue 9, Sept-2018, UGC Approved & 5.87 Impact Factor, ISSN 2349-5162.</p> <p>4. "Design and Implementation of smart automobile system" in Journal of Advances in Science and Technology, Volume 12, Issue 25, December 2016, ISSN 2230-9659.</p> <p>5. "Rural electrification with wind and solar hybrid generation system using MPPT" in Journal of Advances in Science and Technology, Volume 12, Issue 25, December 2016, ISSN 2230-9659.</p>
b) Patent(s) filed/granted with details	Nil
c) Give details of commercialization status for the granted patents	Nil
d) Books published/chapter contributed with details	Nil
e) Industrial consultation (given/undertaken) provide details (past 5 years)	Nil
Details Of Industrial Collaboration	
a) Name of the Industry	Infy SKY
b) Type of Industry	IT, Embedded and Industrial Automation
c) Postal Address of the Industry	R/O 471, 1st Floor, 2nd Main, 1st Cross, Sadashiv Nagar, Belagavi - 590001.
d) Industry Email ID	info@infysky.com
e) Website	www.infysky.com
f) Landline Number	Nil
g) Contact person (1)	
	Mr. Vilas M. Patil
	Technical Lead (Development ,R& D & Training)
	Industrial Automation, Control panel design
Contact person (2)	



	Miss.SunitaPatil
	Software Engineer
	IOT, Embedded
h) Financial Commitment if any	No
i) Role of the Industrial Collaboration in the programme/project	As the department of Electrical and Electronics Engineering of Hirasugar Institute of Technology has MoU with Infy SKY, Belagavi, the Infy SKY will provide technical training to the faculty and staff of Hirasugar Institute of Technology in the field of industrial automation to train the students.

Signature of PI and Co-PI

Signature from Industry/Collaborative
Institute

1)

Bo
17/2/21

2)

Bo
17/02/2021





सत्यमेव जयते

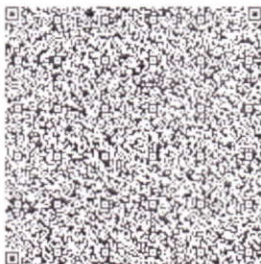
INDIA NON JUDICIAL

Government of Karnataka

Rs. 200

e-Stamp

Certificate No.	: IN-KA23133287703178Q
Certificate Issued Date	: 10-Aug-2018 04:04 PM
Account Reference	: NONACC (FI)/ kaksfcl08/ NIDASOSHI/ KA-BL
Unique Doc. Reference	: SUBIN-KAKAKSFCL0886097322266741Q
Purchased by	: HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI
Description of Document	: Article 12 Bond
Description	: MOU
Consideration Price (Rs.)	: 0 (Zero)
First Party	: HESCOM
Second Party	: HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI
Stamp Duty Paid By	: HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI
Stamp Duty Amount(Rs.)	: 200 (Two Hundred only)



Pachy
Shri Durdundeshwar Urban Credit
Souhard Sahakari Niyamit,
NIDASOSHI. 591236
Tal.Hukkeri Dist:Belagavi.

Please write or type below this line

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ('MOU') made at Nidasoshi, Dist.: Belagavi, Karnataka, India on this day 18th of September 2018 by and between:

The General Manager (Tech.) representing HESCOM, Hubballi, Karnataka, India and the Principal, SJPN Trust's Hirasugar Institute of Technology (VTU), Nidasoshi – 591236, witnesses as follows:

[Signature]
PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI-591236

Contd... Pg. 1/6
[Signature]
General Manager (Technical)
Corporate Office, HESCOM, Hubballi

Statutory Alert:

1. The authenticity of the Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

The Hubli Electricity Supply Company Limited, Hubballi, hereinafter refer to as HESCOM (which form shall mean and include unless repugnant to the context and meaning of the same to mean and include the assigns and successors) of the one part and SJPN Trust's Hirasugar Institute of Technology (VTU), Nidasoshi – 591236,

Herein after referred to as HSIT (which form shall mean and include unless repugnant to the context and meaning of the same to mean and include the assigns and successors) of the other part further witnesses as follows:

HESCOM:

The Government of Karnataka as part of reforms in power sector has unbundled the transmission and distribution activities in the state of Karnataka. As a result, the HESCOM Limited was incorporated on 30.04.2002 under the Companies Act, 1956 (No. 1 of 1956) and HESCOM started operation w.e.f. 01.06.2002. HESCOM came into existence with geographical jurisdiction of 7 Districts comprising of Dharwad, Belagavi, Gadag, Haveri, Uttar Kannada, Bagalkot & Vijayapur with an objective to carry on the business of distribution and supply of electricity more efficiently and economically. HESCOM today is functioning as a commercial entity in pursuance of power sector reforms undertaken by Government of Karnataka, duly represented by its Managing Director hereinafter referred to as "HESCOM" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns);

And WHEREAS

Hirasugar Institute of Technology (HSIT), Nidasoshi -591236.

The HSIT is established in the year 1996 affiliated to the Visvesvaraya Technological University (VTU), Belagavi and recognized by All India Council for Technical Education (AICTE), New Delhi. The institute is spread over 48.26 acres of land. The campus has all the basic amenities for the overall development of the students with spacious infrastructure. The Institute is having four under graduate programs namely Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechanical Engineering, post-graduation in Thermal Engineering and Research Centre at Mechanical Engg, Electrical and Electronics Engg, Electronics and Communication Engg and Chemistry Department.


PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI-591 236

Contd. Pg. 2/6

General Manager (Technical)
Corporate Office, HESCOM, Hubballi.

The annual intake is 318 and total student strength is 1009. We are successfully moving ahead in 22nd year of existence in providing quality and affordable technical education to the needy intellectuals of this region. For more details please visit www.hsit.ac.in.

Department Profile

The department of Electrical and Electronics Engineering is established in the year 1996 to cater to the needs of the power sector in India. A total of 188 students study the course during the academic year 2017-18. The laboratories are well equipped, namely, Electrical machines, relay and high voltage, power Electronics, Electronics, Operational Amplifiers, Control systems, Digital Signal processor & Microcontroller. Department is operating by qualified, committed faculty, skilled technical staff. Excellent support is offered from the management.

Both the parties are interested in having a MOU in Capacity Building/Training Initiatives of officers of HESCOM, Hubballi and R&D and DSM activities in HSIT for next 5 years from the above mentioned date.

Now, this Memorandum of Understanding witnesses as follows:

IT IS HEREBY MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

This collaboration between HSIT and HESCOM will create cooperation to initiate PACE (Program for Academic Connect and Engagement) in the HSIT and DSM (Demand side Management) activities of HESCOM. Further to provide a platform to build a strong and on-going relationship between the HESCOM and HSIT.

The goals of PACE are:

1. To develop and foster strategic linkages between the Department of Electrical and Electronics Engineering and the technical departments of the company To understand the needs and expectations of both the institute and the organization and to execute relevant identified activity required to meet the needs and expectations therein.
2. To understand the needs and expectations of both the institute and the organization and to execute relevant identified activity required to meet the needs and expectations therein.
3. Offering courses of mutual interest to the students and issuing the students certificates jointly, upon successful completion of the course.
4. Identify the area of research and development in Engineering of mutual interest and work on the identified proposals jointly on agreed terms.

Contd... Pg. 3/5


PRINCIPAL
Kirasagar Institute of Technology
NIDASOSHI-591 236


General Manager (Technical)
Corporate Office, HESCOM, Hubballi.

5. HESCOM will permit their Engineers and Experts to tender their expertise for the benefit of the students when they are requested for specially focused programs.
6. HESCOM will mentor our UG students for projects of mutual interest and convenience.
7. HESCOM will promote various activities for overall development of students with present trends.
8. HESCOM will advise institute for achieving program educational objectives and outcomes of our Department Electrical and Electronics Engineering.
9. Exploring and carrying out any other academic activity with mutual consent.
10. Provide exposure to students & faculty members to emerging technologies.
11. Help bridge the gap between academia and industry and contribute to education eco system.
12. Participate in enhancing knowledge of niche technologies and domain education by partnering.

The goal of Research & Development (R&D) of HESCOM is,

1. HSIT will design and implement the R&D Project with HESCOM.
2. HSIT will support in Research & Development activities and provide platform for students and HESCOM interaction.

HESCOM will make provision for funding the cost of R&D project activities and extend similar funding support in joint activities.

The goal of Demand Side Management (DSM) of HESCOM is,

1. HSIT, will design and implement the DSM Project with HESCOM
2. HSIT, will support and propagate Energy saving and safety awareness programs and activities in HESCOM geographical areas.

HESCOM will make provision for funding the entire cost of DSM activities and extend similar funding support in joint activities.

Participation in knowledge sharing at institute, department of Electrical & Electronics Engineering.

As per the PACE, HESCOM provides its speakers to participate and deliver technical presentations and talks on topics as shall be, jointly, decided by HSIT and HESCOM. Such lectures shall either be a part of the curriculum or a value-added knowledge for the students. Further Lecturers of HSIT shall deliver technical presentations to HESCOM engineers on topics jointly decided.


PRINCIPAL
 Hirasagar Institute of Technology
 NIDASOSHI-591 236

Contd... Pg. 4/6

General Manager (Technical)
 Corporate Office, HESCOM, Hubballi.

Internships to students:

In order to impart practical training under PACE, HESCOM shall identify, encourage and support in evolving technical competence in students by providing internships to students during their vacation period between successive semesters. HESCOM shall deploy such interns on specific technical works at their development centres. HESCOM shall evaluate the quality of the work carried out by the interns and award them with a certificate at the end of the internships. Industry-Institute coordinator of College shall co-ordinate with HESCOM throughout the process including initiation of the internship request at the appropriate time, selection of students for the internship, overseeing the technical work carried out by the interns and the evaluation of the work carried out by the interns as might be required by HESCOM.

Nurturing Exchange programs:

HESCOM shall foster the industry-institute exchange program with respect to the faculty and industry executives to serve in the organizations on an exchange basis. This shall provide the associates of HESCOM and Institute with cross-learning opportunities. Additionally, PACE will imbibe HESCOM culture amongst students and they will understand HESCOM practices.

Indemnity:

Neither Party will be liable to indemnify the other Party, and/or its employees from and against all costs, claims, demands, liabilities, expenses, damages or losses arising while executing the activities defined in this Agreement or about a Party's negligence or breach of the terms of this Agreement.

Confidentiality:

The Parties acknowledge that, in the course of their negotiations under this MoU, it may be necessary for one Party to provide documentation, technical and business information and/or intellectual property, in whatever form recorded (collectively, "Confidential Information"), to the other Party. All Confidential Information provided or disclosed by either Party hereunder shall remain the property of the furnishing party, and shall be held in strict confidence by the receiving Party, unless the furnishing Party otherwise consents in writing or unless disclosure of such Confidential Information is required by the applicable laws. Confidential Information furnished by any Party hereunder.


PRINCIPAL
Hirasagar Institute of Technology
NIDASOSHI-591 236

Contd... Pg. 5/6


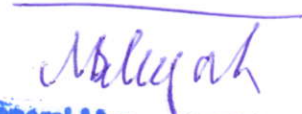
General Manager (Technical)
Corporate Office, HESCOM, Hubballi.

Governing Law:

This MoU shall be governed by laws of India and the parties submit themselves to the jurisdiction of the courts in Hubballi-Dharwad, Karnataka, India.

This MoU is entered into for a period of 5 years between HESCOM, Hubballi and HSIT, Nidasoshi. The period would thereafter be extendable on mutual consent. Further this MoU could be terminated with one month's prior notice by either party at any point of time without giving reasons.

In witness where of the following parties have signed the MoU on this the 18th September 2018 at Board Room of SJPN Trust's Hirasugar Institute of Technology (VTU), Nidasoshi – 591236 and the same would come into effect from the 18th September 2018.

SJPN Trust's Hirasugar Institute of Technology (VTU), Nidasoshi – 591236 (HSIT)	Hubli Electricity Supply Company Limited (HESCOM)
By signing this MOU, I also confirm that I am authorized to sign on behalf of SJPN Trust's Hirasugar Institute of Technology (VTU), Nidasoshi – 591236: Signature:  PRINCIPAL Hirasugar Institute of Technology NIDASOSHI-591 236	By signing this MOU, I also confirm that I am authorized to sign on behalf of HESCOM Ltd.: Signature:  General Manager (Technical) Corporate Office, HESCOM, Hubballi.
Name: Dr. S C Kamate	Name: Er. Jagadeesha L Belagali
Title: Principal	Title: General Manager (Technical)
Date: 18 th September 2018	Date: 18 th September 2018
Place: Nidasoshi	Place: Nidasoshi



S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity

Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.

E & E Engg Dept

IIIC

Internship

2017-18

Industrial/ Internship/summer training and post training assessment.

List of student's undergone internship 2017-18

Sl. No	Name of the students	USN	Date		Name of Industry
			To	From	
1	Vinayak Kumbar	2HN16EE416	16-7-18	28-7-18	HESCOM Hubballi
2	Halangouda Patil	2HN16EE404	16-7-18	28-7-18	HESCOM Hubballi
3	BhimashankarHugar	2HN15EE010	16-7-18	28-7-18	HESCOM Hubballi
4	ParashuramSavnur	2HN15EE027	16-7-18	28-7-18	HESCOM Hubballi
5	Chetan Biradar	2HN15EE012	16-7-18	28-7-18	HESCOM Hubballi
6	SurajkhanPinjar	2HN15EE048	11-7-18	25-7-18	HESCOM Hubballi
7	Prashant Khot	2HN15EE421	11-7-18	25-7-18	HESCOM Hubballi
8	Chetan Parit	2HN15EE013	11-7-18	25-7-18	HESCOM Hubballi
9	Avinash Karoshi	2HN15EE008	11-7-18	25-7-18	HESCOM Hubballi
10	Prakash Gudli	2HN14EE028	11-7-18	25-7-18	HESCOM Hubballi
11	Pooja Alagouda	2HN16EE409	11-7-18	25-7-18	HESCOM Hubballi
12	Pooja Naik	2HN15EE028	11-7-18	25-7-18	HESCOM Hubballi
13	Pooja Hiremath	2HN15EE030	9-7-18	23-7-18	HESCOM Hubballi
14	Pooja Khanai	2HN15EE032	9-7-18	23-7-18	HESCOM Hubballi
15	Prashantkumar B	2HN15EE034	11-7-18	25-7-18	HESCOM Hubballi

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.

Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

SELF ASSESSMENT REPORT OF ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

Cell: +91 9480883699

HUBLI ELECTRICITY SUPPLY COMPANY
LIMITED



(Wholly owned Govt. of Karnataka undertaking)

Corporate Office,
Navanagar, P.B.Road, Hubballi-580025

E-mail ID: eernd.hescom@gmail.com

Corporate Identity Number (CIN): U31401KA2002SGC030437

No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Vinayak I. Kumbar** (USN: 2HN16EE416) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **16th July 2018** to **28th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Halangouda C. Patil** (USN: 2HN16EE404) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **16th July 2018** to **28th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

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ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Bhimashankar D. Hugar** (USN: 2HN15EE010) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **16th July 2018** to **28th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

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ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Parashuram Savanur** (USN: 2HN15EE027) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **16th July 2018** to **28th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
ನಿಯಮಿತ
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ನಿಗಮ ಕಛೇರಿ,
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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Chetan Biradar** (USN: 2HN15EE012) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **16th July 2018** to **28th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
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ನಿಗಮ ಕಛೇರಿ,
ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Surajkhan Pinjar**
(USN: 2HN15EE048) student of E&E Branch from Hirasugar Institute of
Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018**
to **25th July 2018** in various departments/ Sections of HESCOM under the
guidance of R&D Cell.*

*Internship activity includes familiarization to various departments
of HESCOM and their technical operations and maintenance, official
management overview.*

*During the period of internship he was found punctual. He has
completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
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ನಿಗಮ ಕಛೇರಿ,
ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.
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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Prashant Khot** (USN: 2HN15EE421) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018** to **25th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
ನಿಯಮಿತ
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)
ನಿಗಮ ಕಛೇರಿ,
ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.
Cell: +91 9480883699



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No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Chetan Parit**
(USN: 2HN15EE013) student of E&E Branch from Hirasugar Institute of
Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018**
to **25th July 2018** in various departments/ Sections of HESCOM under the
guidance of R&D Cell.*

*Internship activity includes familiarization to various departments
of HESCOM and their technical operations and maintenance, official
management overview.*

*During the period of internship he was found punctual. He has
completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಇ.ಆಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Avinash Karoshi** (USN: 2HN15EE008) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018** to **25th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
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ನಿಗಮ ಕಛೇರಿ,
ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.
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Encl:

Date: 17.09.2018

INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Prakash Gudli**
(USN: 2HN14EE028) student of E&E Branch from Hirasugar Institute of
Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018**
to **25th July 2018** in various departments/ Sections of HESCOM under the
guidance of R&D Cell.*

*Internship activity includes familiarization to various departments
of HESCOM and their technical operations and maintenance, official
management overview.*

*During the period of internship he was found punctual. He has
completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

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Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE


*This is to certify that **Miss. Pooja Alagouda** (USN: 2HN16EE409) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018** to **25th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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ನಿಗಮ ಕಛೇರಿ,
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Date: 17.09.2018

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*This is to certify that **Miss. Pooja Naik**
(USN: 2HN15EE028) student of E&E Branch from Hirasugar Institute of
Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018**
to **25th July 2018** in various departments/ Sections of HESCOM under the
guidance of R&D Cell.*

*Internship activity includes familiarization to various departments
of HESCOM and their technical operations and maintenance, official
management overview.*

*During the period of internship she was found punctual. She has
completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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*This is to certify that **Miss. Pooja M. Hiremath** (USN: 2HN15EE030) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018** to **23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Poojakumari Khanai** (USN: 2HN15EE032) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018** to **23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Prashantkumar Bhajantri** (USN: 2HN15EE034) student of E&E Branch from Hirasugar Institute of Technology, Nidasoshi, has done internship in HESCOM from **11th July 2018** to **25th July 2018** in various departments/ Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**

Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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Date: 17.09.2018

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INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Shaheeddilawar A. Momin (USN: 2HN15EE041)** student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018** to **23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ
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ನಿಗಮ ಕಛೇರಿ,
ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.
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Date: 17.09.2018

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INTERNSHIP CERTIFICATE

*This is to certify that **Mr. Kasheem S. Mulla** (USN: 2HN15EE016) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018** to **23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship he was found punctual. He has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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Date: 17.09.2018

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INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Pradnya A. Ajare** (USN: 2HN15EE033) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018 to 23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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*This is to certify that **Miss. Navadeepa S. Sunagar** (USN: 2HN15EE024) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018** to **23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

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INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Nikita S. Kambar** (USN: 2HN15EE025) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018 to 23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Tanu S. Mukare**
(USN: 2HN15EE049) student of E&E Branch from Hirasugar
Istitute of Technology, has done internship in HESCOM from
9th July 2018 to **23rd July 2018** in various departments/
Sections of HESCOM under the guidance of R&D Cell.*

*Internship activity includes familiarization to various
departments of HESCOM and their technical operations and
maintenance, official management overview.*

*During the period of internship she was found punctual.
She has completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

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(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)
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*This is to certify that **Miss. Laxmi M. Karoshi**
(USN: 2HN15EE019) student of E&E Branch from Hirasugar
Institute of Technology, has done internship in HESCOM from
9th July 2018 to 23rd July 2018 in various departments/
Sections of HESCOM under the guidance of R&D Cell.*

*Internship activity includes familiarization to various
departments of HESCOM and their technical operations and
maintenance, official management overview.*

*During the period of internship she was found punctual.
She has completed the internship successfully.*

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

Cell: +91 9480883699

HUBLI ELECTRICITY SUPPLY COMPANY
LIMITED



(Wholly owned Govt. of Karnataka undertaking)

Corporate Office,

Navanagar, P.B.Road, Hubballi-580025

E-mail ID: eernd.hescom@gmail.com

Corporate Identity Number (CIN): U31401KA2002SGC030437

No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Akkamahadevi S. H.** (USN: 2HN15EE002) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018 to 23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Shruti S. Khilari** (USN: 2HN15EE044) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018 to 23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ

ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪಿ.ಬಿ.ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580 025.

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No. HESCOM/GM(T)/R&D/EE/AEE/F-18J/18-19/CYS-2331

Date: 17.09.2018

Encl:

INTERNSHIP CERTIFICATE

*This is to certify that **Miss. Sunita T. More** (USN: 2HN16EE415) student of E&E Branch from Hirasugar Institute of Technology, has done internship in HESCOM from **9th July 2018 to 23rd July 2018** in various departments/Sections of HESCOM under the guidance of R&D Cell.*

Internship activity includes familiarization to various departments of HESCOM and their technical operations and maintenance, official management overview.

During the period of internship she was found punctual. She has completed the internship successfully.

Place: **Hubballi**

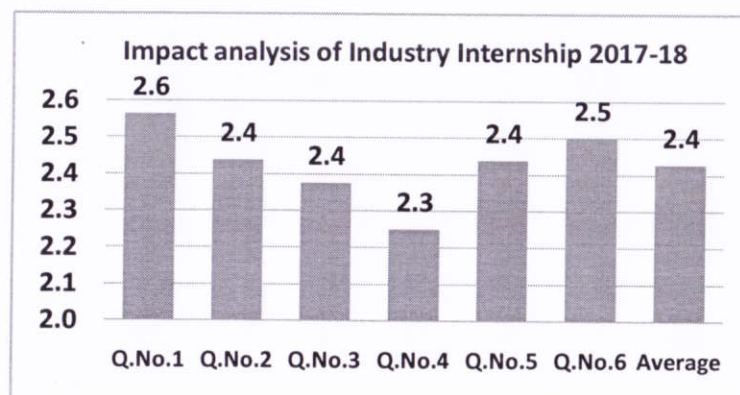
Date: **17.09.2018**


Executive Engineer (Ele.)
R&D Cell, HESCOM, Hubballi.

Title of Event: Industry Internship during 2017-2018

Number of Students: 16

Q. No.	Excelent(4)		Very good(3)		Good (2)		Satisfactory(1)		Poor(0)		Total score	% of attainment = (Total score/Total Students Attended)	Average Percentage attainment	Attainment Level	Mapped Pos	Mapped PSOs
Q.No.1	0	0	10	30	5	10	1	1	0	0	41	2.6	60.7	High = 2	1, 2, 5, 6, 8, 9, 10, 11, 12	1, 2
Q.No.2	0	0	8	24	7	14	1	1	0	0	39	2.4				
Q.No.3	0	0	6	18	10	20	0	0	0	0	38	2.4				
Q.No.4	0	0	7	21	6	12	3	3	0	0	36	2.3				
Q.No.5	0	0	8	24	7	14	1	1	0	0	39	2.4				
Q.No.6	0	0	8	24	8	16	0	0	0	0	40	2.5				
Average												2.4				



Impact Analysis: From the above Table, Industry Internship during AY 2017-18 attained to level 2 against mapped PO's 1, 2, 5, 6, 8, 9, 10, 11, 12 and PSO 1 & 2.

NOTE: Substantial or high = 3, Medium = 2 and Low = 1

IIIC Coordinator
(Prof. P.M. Murtaza)



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding entered into on 28/10/2014 at Nipani between the Hirasugar Institute of Technology, Nidasoshi, an Institution imparting and offering four year B.E degree courses in the discipline of i) Computer Science & Engineering ii) Mechanical Engineering iii) Electrical and Electronics Engineering iv) Electronics and Communication Engineering., under Visvesvaraya Technological University (VTU) Belgaum, Karnataka & is approved by AICTE New-Delhi, Hereinafter referred to as "**HIT Nidasoshi**" located at Nidasoshi - 591 236, in this MOU, represented by **Dr.N.C.Hiremath**, Principal and **Prof. S.B.Patil** H.O.D(E&EE) of the Institute which expression shall unless repugnant to the context means and include its successors and assignees of the **ONE PART**.

M/s. PATCO TRANSFORMER INDUSTRIES, with registered no:**290011105024**, functioning at Nippani, since 1996, currently focusing on **Design & Manufacture of Distribution and Power Transformers** is represented herein by **Shri.I.D.Patavegar**, proprietor, hereinafter referred to as **M/s. PATCO TRANSFORMER**, which expression shall unless repugnant to the context mean and intrude its successors and assignees of the **OTHER PART**.

WHEREAS

The **HIT Nidasoshi** has initiated to promote Industry Institute Interaction to conduct various Industries/Job oriented training programmes /placements to the students, Mutual sharing of resource persons and students for advanced/innovative/future technologies/research activities as well as industries technical related problems and to know industry work-culture/updates along with the regular academic work.

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.



Now this Memorandum of Understanding witnesses that:

The parties have following areas of consensus for mutual benefits.

- 1) **Human Resource Sharing:** Visiting HIT Nidasoshi sponsored course lectures/seminars/workshops/conferences related to new trends/updates in industry by **M/s. PATCO TRANSFORMER INDUSTRIES.** representatives as a visiting faculty/participant and to suggest new ideas to reduce technological gap between **M/s. PATCO TRANSFORMER INDUSTRIES** and HIT Nidasoshi. Similarly attending **M/s. PATCO TRANSFORMER INDUSTRIES.** organized training/workshop/conference by HIT Nidasoshi faculty/students to upgrade/understand the industrial requirements and to implement the same in the regular academic activities through conducting industry need based trainings/talks.
- 2) **Industry Visit:** Providing an opportunity to the HIT Nidasoshi student community to understand /monitor the live functioning of the **M/s. PATCO TRANSFORMER INDUSTRIES.** to ignite/create new ideas in the HIT Nidasoshi students' minds' by demonstrating **M/s. PATCO TRANSFORMER INDUSTRIES.** resource persons.
- 3) **Internship/Training:** Inclusion of HIT Nidasoshi student community in the internships/trainings conducted by **M/s. PATCO TRANSFORMER INDUSTRIES.** on regular basis during HIT Nidasoshi students' vacation/holidays to get industry experience and to study the academic subjects/labs/projects in the style of industries requirements.



Responsibilities of the HIT Nidasoshi

- Conduct/host/sponsor workshops/seminars in the HIT Nidasoshi.
- Facilitate quality Faculty/students to the **M/s. PATCO TRANSFORMER INDUSTRIES.** for above said process/events.
- Providing hospitality/logistics to the **M/s. PATCO TRANSFORMER INDUSTRIES.** resource persons for workshops/seminars/recruitment process by HIT Nidasoshi.
- Taking all precautionary actions for industrial visit by the HIT Nidasoshi students.

Both parties here mutually understand the above said areas of consensus in the view of mutual benefits.

For **Hirasugar Institute of Technology
Nidasoshi.**

For **M/s. PATCO TRANSFORMER INDUSTRIES.
Nippani.**

1) **Dr.N.C.Hiremath**

PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI 591 236

2) **Prof. S. B. Patil**
H. O. D.

Electrical & Electronic Engg.
Hirasugar Institute of Technology
NIDASOSHI-591236

Patco Transformer Industries

1) **Shri.I.D.Patavegar**

PATCO TRANSFORMER INDUSTRIES

MANUFACTURER AND REPAIRER OF POWER
AND DISTRIBUTION TRANSFORMERS

◆ OFFICE :

Azad Galli, Swami Mala,
NIPANI - 591 237
Dist. - Belgaum
(Karnataka State)
E-mail : patcotrans@yahoo.in

◆ FACTORY :

Plot No. 48-51, Industrial Area,
Jatrat Road, Shripewadi,
NIPANI - 591 237
Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Praveen V Janamatti**, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, he found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


Proprietor

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Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Gururaj P. Badiger**, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, he found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Malikrehan Darur**, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, he found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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Jatra Road, Shripwad

NIPANI - 591 237

Dist - Belgaum (Karnataka State)

Phone No. 08338 - 222412

Cell - 9448359825

CERTIFICATE

This is to certify that Mr. Abhijeet B. Devarushi, 7th semester
BE(EEE) student of Hirasagar Institute of Technology, Nidasoshi, dist.
Belgaum has completed training in our industry from 10/03/2021 to
10/04/2021. During training period he has taken experience regarding
repairs & manufacturing of distribution & power transformers, he found
sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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Jatrat Road, Shripewadi,
NIPANI - 591 237
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Phone No. 08338 - 222412
Cell - 9448339525

CERTIFICATE

This is to certify that Mr. Chetan Shivamoggimath , 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 09/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers. He found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


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INTERNSHIP CERTIFICATE

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Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Kalmesh Rendale**, 7th semester
BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist.
Belgavi has completed training in our industry from 10/03/2021 to
10/04/2021. During training period he has taken experience regarding
repairs & manufacturing of distribution & power transformers, He found
sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 11-04-2021

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Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Mahesh Pattar**, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, he found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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CERTIFICATE

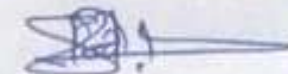
This is to certify that Miss Manisha S.Jugulkar, 7th semester
BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist.
Belgaum has completed training in our industry from 10/03/2021 to
10/04/2021. During training period she has taken experience regarding
repairs & manufacturing of distribution & power transformers, she found
sincere and hardworking.

We wish her all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


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Dist. - Belgaum (Karnataka State)
Phone No 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Miss Nadira Choudhari, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period she has taken experience regarding repairs & manufacturing of distribution & power transformers, she found sincere and hardworking.

We wish her all the success in his future.

Place: Nipani

Date: 12-04-2021

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Proprietor

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Cell - 9448339825

CERTIFICATE

This is to certify that Mr. **Sachin kallole**, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 10/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, he found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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NIPANI - 591 237

Dist. - Belgaum (Karnataka State)

Phone No. 08336 - 222412

Cell - 9448339825

CERTIFICATE

This is to certify that Mr. Suraj Sunil Patil, 7th semester BE(EEE) student of Hirasagar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 09/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers. He found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


J Proprietor

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Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Miss. **SHUSHMA Donawad** , 7th semester
BE(EEE) student of **Hirasugar Institute of Technology, Nidasoshi**, dist.
Belgaum has completed training in our industry from **10/03/2021** to
10/04/2021. During training period he has taken experience regarding
repairs & manufacturing of distribution & power transformers, he found
sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

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Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE


This is to certify that Miss Annapurna Guledavar, 7th semester
BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist.
Belgaum She completed training in our industry from 10/03/2021 to
09/04/2021. During training period she has taken experience regarding
repairs & manufacturing of distribution & power transformers, she found
sincere and hardworking.

We wish her all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


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Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. Janardhan Shingade, 7th semester BE(EEE) student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum has completed training in our industry from 10/03/2021 to 09/04/2021. During training period he has taken experience regarding repairs & manufacturing of distribution & power transformers, He found sincere and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries



Proprietor

INTERNSHIP CERTIFICATE

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Dist. - Belgaum
(Karnataka State)
E-mail : patcotrans@yahoo.in

♦ **FACTORY :**

Plot No. 48-51, Industrial Area,
Jatrat Road, Shripewadi,
NIPANI - 591 237
Dist. - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Miss . Pooja Keste, 7th semester BE(EEE)
student of Hirasugar Institute of Technology, Nidasoshi, dist. Belgaum
has completed training in our industry from 10/03/2021 to 09/04/2021.
During training period she has taken experience regarding repairs &
manufacturing of distribution & power transformers, She found sincere
and hardworking.

We wish her all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries


Proprietor

PATCO TRANSFORMER INDUSTRIES

MANUFACTURER AND REPAIRER OF POWER
AND DISTRIBUTION TRANSFORMERS

• OFFICE :

Azad Gali, Swam Mata
NIPANI - 591 237
Dist - Belgaum
(Karnataka State)
E-mail : patcotrans@yahoo.in

• FACTORY :

Plot No. 48-51 Industrial Area
Jalrai Road, Sripawad
NIPANI - 591 237
Dist - Belgaum (Karnataka State)
Phone No. 08338 - 222412
Cell - 9448338825

CERTIFICATE

This is to certify that Mr. Praveen Patil , 7th semester BE(EEE)
student of Hirasagar Institute of Technology, Nidasoshi, dist Belgaum
has completed training in our industry from 10/03/2021 to 10/04/2021
During training period he has taken experience regarding repairs &
manufacturing of distribution & power transformers, he found sincere
and hardworking

We wish him all the success in his future

Place, Nipani

Date: 12-04-2021

Patco Transformer Industries


Proprietor

PATCO TRANSFORMER INDUSTRIES

MANUFACTURER AND REPAIRER OF POWER
AND DISTRIBUTION TRANSFORMERS

• OFFICE :

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• FACTORY :

Plot No. 48-51, Industrial Area,
Jahat Road, Shreewad,
NIPANI - 591 237
Dist - Belgaum (Karnataka State)
Phone No 08338 - 222412
Cell - 9448339825

CERTIFICATE

This is to certify that Mr. Shridhar Patil , 7th semester BE(EEE)
student of Hirasagar Institute of Technology, Nidasoshi, dist. Belgaum
has completed training in our industry from 10/03/2021 to 09/04/2021.
During training period he has taken experience regarding repairs &
manufacturing of distribution & power transformers. He found sincere
and hardworking.

We wish him all the success in his future.

Place: Nipani

Date: 12-04-2021

Patco Transformer Industries



Proprietor