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# ACADEMIC YEAR 2019-20

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

3.5.1: Number of functional MoUs/linkages with institutions/ industries in India and abroad for Internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

2019-20									
Sl. No.	Academic Year	Name of the MoU / Iinkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage ( Year)	List the actual activities under each MOU/ Linkage and web - links year-wise		
1	2019-20	MoU	Virasat Ready Mix.	13-Aug-2019	Industrial Training, Expert Session, Internship	2	Internship, Expert Session		
2	2019-20	MoU	Pipefit Engineers Pvt.Ltd	1-Feb-2020	Seminar, Internship, Industrial Visit	3	Internship, Expert Session		

### Memorandum of Understanding

This Memorandum of Understanding (MOU) is made and entered into on this day 13<sup>th</sup> August 2019 between S.P.B. Patel Engineering College, Ahmedabad-Mehsana Highway, Linch, Mehsana 384435 (Saffrony Institute of Technology - SIT) and Virasat Ready Mix. having its main office at HO 162, Shukan Mall, Science City Road, Sola, Ahmedabad.

Whereas both the parties hereto have shown their willingness to enter into an MOU with the following objectives, mainly to enhance the quality of industry-academic engagement:

#### 1. Objectives

- 1.1 Virasat Ready Mix. and SIT will on reciprocal basis provide guest lectures and training to their respective student on special topics of mutual interest.
- 1.2 To organize joint workshops, seminars, and programmes on subjects of contemporary interest in various fields of technology in various domains of engineering.
- 1.3 Based on research areas jointly identified, few interested students from the institute can take it as their research projects at UG level. The research projects could be carried out at SIT or at Virasat Ready Mix. locations in India.
- 1.4 Based on the themes / challenges / issues identified by Virasat Ready Mix., a lecture series may be organized by calling experts (in house and outside). Industry experts could also be invited by SIT with an aim to fill the gap between curriculum and industry practices.
- 1.5 SIT would support Virasat Ready Mix. in research relating to operations / troubleshooting.
- 1.6 SIT will provide intellectual support for any event organized/sponsored by Virasat Ready Mix. and also work as knowledge partner in areas of mutual interest subject to prior consent of both parties.
- 1.7 Virasat Ready Mix. to support training for SIT students at its various locations and group entities at mutually convenient time.
- 1.8 Virasat Ready Mix. would provide industrial training (also called Industry Defined Project) and assign short-term project work to SIT students of various disciplines/branches of engineering.
- 1.9 Virasat Ready Mix. would support and advise SIT in aligning the academic curriculum to match industry expectations.
- 1.10 Virasat Ready Mix. would give an opportunity to SIT students for On Campus Interview selection with respect to Virasat Ready Mix.'s manpower requirements for hiring Engineering graduates.

### 2. Obligations

2.1 This MOU between SIT and Virasat Ready Mix. shall not be exclusive to both parties and shall not disallow each party from having similar understanding with others.

2.2 Each party shall respect the other's intellectual property and shall not use any trade name, trade mark, symbol or designation belonging to the other, to the detriment of the other. No party shall hold out as an agent or representative of the other or create any liability for the other.

2.3 Both parties shall maintain confidentiality about any information, course material, plans, discussions, strategies, or any material, which shall be deemed to be confidential and marked accordingly. Any information, course material or the like in the public domain shall not be part of this commitment.

#### 3. Limitations & Warranties

- 3.1 Each party shall ensure that the other is not put to any liability for any act of the respective party.
- 3.2 Each party represents that they have the full power and authority to enter into this MOU in general.

### 4. Validity

This MOU will be in effect from  $13^{th}$  August 2019 to  $12^{th}$  August 2021. At least one month intimation be given to other party as goodwill gesture prior to revoking the MOU.

#### 5. General

Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.

By signing below the parties acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the date of signing of this MOU.

Date: 13108/2019

S.P.B. Patel Engineering College

Place: Mensanaii Gularat

Virasat Ready Mix.

Place: Ahmedabad, Gujarat

FOR, VIRASAT READY MIX

PARTNER



### **Expert Session Report: Different Types of RMC Plants and Advantages**

Date: 13th August 2019

Expert: Mr. Mitesh Patel

**Topic:** Different Types of RMC Plants and Advantages

Host: S.P.B. Patel Engineering College

**Company**: Virasat Ready Mix

Students participated: 23 from civil department

#### Introduction:

On August 13th, 2019, S.P.B. Patel Engineering College hosted an expert session on "Different Types of RMC Plants and Advantages," led by Mr. Mitesh Patel from Virasat Ready Mix. The session aimed to educate students about various types of Ready Mix Concrete (RMC) plants and their benefits in construction projects.

### **Key Discussion Points:**

- 1. Types of RMC Plants: Mr. Patel provided insights into different types of RMC plants, including central-mixed, transit-mixed, and shrink-mixed plants. He explained the distinct features and working principles of each type.
- 2. Advantages of RMC Plants: The session highlighted the advantages of using RMC in construction projects, such as improved quality control, reduced labor and equipment costs, faster construction timelines, and minimized environmental impact.
- 3. Case Studies: Mr. Patel presented case studies and real-world examples to illustrate the successful implementation of RMC plants in various construction projects, showcasing their efficiency and effectiveness.

#### **Interactive Learning:**

The session encouraged active participation from students, who engaged in discussions and asked questions to deepen their understanding of RMC plants and their advantages. Practical demonstrations further enhanced the learning experience.





#### **Conclusion:**

The expert session on Different Types of RMC Plants and Advantages, conducted by Mr. Mitesh Patel from Virasat Ready Mix, provided valuable insights to students at S.P.B. Patel Engineering College. The session equipped students with knowledge about the different types of RMC plants available and their benefits in construction, preparing them for future roles in the industry.

### Students list:

Student name	Enrolment
Arthania Hemaxi Dharmeshkumar	170390106001
Asodariya Neel Jagdishbhai	170390106002
Bhavsar Deep Pareshkumar	170390106003
Dedakia Bhargav Vinodbhai	170390106006
Parmar Kaushalkumar Babulal	170390106007
Patel Deep Hareshkumar	170390106008
Patel Deep Vipulkumar	170390106009
Patel Hiren Manilal	170390106011
Patel Jeetkumar Jayantilal	170390106013
Patel Nehang Hareshbhai	170390106014
Rabari Jigar Bhagavanbhai	170390106015
Rajput Dushyant Rajeshkumar	170390106016
Shah Cheet Alpeshbhai	170390106017
Suthar Shalin Hareshbhai	170390106018
Thakkar Dhavnil Vipulkumar	170390106019
Gala Harsh Mulchandmegji	170390106020
Gupta Kunal Rakeshbhai	190390106001
Kalavadiya Prince Pareshbhai	190390106002
Taviya Ravindrakumar Bharatbhai	190390106003
Mihir Modha	200390106501
Heenaba Nirubha Zala	200390106502
Morker Zeelkumar Ajaybhai	200390106503
Patel Prachiben Sanjaybhai	200390106504





This certificate is awarded to PANCHAL PRAGNESH LALJIBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Ready Mix. during 9 Sep 2019 to 19 Sep 2019.

PANCHAL PRAGNESH LALJIBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PANCHAL PRAGNESH LALJIBHAI will leverage this internship experience for a successful engineering career.

Powik

Issued Date: 19 Sep 2019



This certificate is awarded to JAYANT MEWARA from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Ready Mix. during 9 Sep 2019 to 19 Sep 2019.

JAYANT MEWARA was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that JAYANT MEWARA will leverage this internship experience for a successful engineering career.

Issued Date: 19 Sep 2019



This certificate is awarded to PRAJAPATI KRUNAL BHARATBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Ready Mix. during 9 Sep 2019 to 19 Sep 2019.

PRAJAPATI KRUNAL BHARATBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PRAJAPATI KRUNAL BHARATBHAI will leverage this internship experience for a successful engineering career.

Poctik Issued Date: 19 Sep 2019



This certificate is awarded to ZALA KULDIPSINH JIVUJI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Ready Mix. during 9 Sep 2019 to 19 Sep 2019.

ZALA KULDIPSINH JIVUJI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that ZALA KULDIPSINH JIVUJI will leverage this internship experience for a successful engineering career.

Issued Date: 19 Sep 2019



This certificate is awarded to VAGHASIYA BHAUTIKKUMAR MANOJBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Ready Mix. during 9 Sep 2019 to 19 Sep 2019.

VAGHASIYA BHAUTIKKUMAR MANOJBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that VAGHASIYA BHAUTIKKUMAR MANOJBHAI will leverage this internship experience for a successful engineering career.

Frativ Issued Date: 19 Sep 2019



This certificate is awarded to PATEL VIMALKUMAR JAYANTIBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Developers during 7 feb 2019 to 14 Feb 2019.

PATEL VIMALKUMAR JAYANTIBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PATEL VIMALKUMAR JAYANTIBHAI will leverage this internship experience for a successful engineering career.

Issued Date: 14 Feb 2019



This certificate is awarded to PATEL UJAVAL BHIKHABHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Developers during 7 feb 2019 to 14 Feb 2019.

PATEL UJAVAL BHIKHABHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PATEL UJAVAL BHIKHABHAI will leverage this internship experience for a successful engineering career.

Issued Date: 14 Feb 2019



This certificate is awarded to PATEL PRIYKANT PRAHLADBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Developers during 7 feb 2019 to 14 Feb 2019.

PATEL PRIYKANT PRAHLADBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PATEL PRIYKANT PRAHLADBHAI will leverage this internship experience for a successful engineering career.

Issued Date: 14 Feb 2019



This certificate is awarded to PATEL PAVAN HAREKRUSHNA from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Developers during 7 feb 2019 to 14 Feb 2019.

PATEL PAVAN HAREKRUSHNA was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PATEL PAVAN HAREKRUSHNA will leverage this internship experience for a successful engineering career.

Issued Date: 14 Feb 2019





This certificate is awarded to PATEL NIDHIBEN JITENDRAKUMAR from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Virasat Developers during 7 feb 2019 to 14 Feb 2019.

PATEL NIDHIBEN JITENDRAKUMAR was a valuable asset to the team and consistently demonstrated his/her technical skills. We are confident that PATEL NIDHIBEN JITENDRAKUMAR will leverage this internship experience for a successful engineering career.

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Issued Date: 14 Feb 2019



#### Memorandum of Understanding

This Memorandum of Understanding (MOU) is made and entered into on this day 01<sup>st</sup> February 2020 between S.P.B. Patel Engineering College, Ahmedabad-Mehsana Highway, Linch, Mehsana 384435 (Saffrony Institute of Technology - SIT) and Pipefit Engineers Pvt. Ltd. having its main office at 377, GIDC Estate, Makarpura, Vadodara-390004.

Whereas both the parties hereto have shown their willingness to enter into an MOU with the following objectives, mainly to enhance the quality of industry-academic engagement:

#### 1. Objectives

- 1.1 Pipefit Engineers Pvt. Ltd. and SIT will on reciprocal basis provide guest lectures and training to their respective student on special topics of mutual interest.
- 1.2 To organize joint workshops, seminars, and programmes on subjects of contemporary interest in various fields of technology in various domains of engineering.
- 1.3 Based on research areas jointly identified, few interested students from the institute can take it as their research projects at UG level. The research projects could be carried out at SIT or at Pipefit Engineers Pvt. Ltd. locations in India.
- 1.4 Based on the themes / challenges / issues identified by Pipefit Engineers Pvt. Ltd., a lecture series may be organized by calling experts (in house and outside). Industry experts could also be invited by SIT with an aim to fill the gap between curriculum and industry practices.
- 1.5 SIT would support Pipefit Engineers Pvt. Ltd. in research relating to operations / troubleshooting.
- SIT will provide intellectual support for any event organized/sponsored by Pipefit Engineers Pvt. Ltd. and also work as knowledge partner in areas of mutual interest subject to prior consent of both parties.
- 1.7 Pipefit Engineers Pvt. Ltd. to support training for SIT students at its various locations and group entities at mutually convenient time.
- 1.8 Pipefit Engineers Pvt. Ltd. would provide industrial training (also called Industry Defined Project) and assign short-term project work to SIT students of various disciplines/branches of engineering.
- 1.9 Pipefit Engineers Pvt. Ltd. would support and advise SIT in aligning the academic curriculum to match industry expectations.
- 1.10 Pipefit Engineers Pvt. Ltd. would give an opportunity to SIT students for On Campus Interview selection with respect to Pipefit Engineers Pvt. Ltd.'s manpower requirements for hiring Engineering graduates.

### 2. Obligations

2.1 This MOU between SIT and Pipefit Engineers Pvt. Ltd. shall not be exclusive to both parties and shall not disallow each party from having similar understanding with others.

- 2.2 Each party shall respect the other's intellectual property and shall not use any trade name, trade mark, symbol or designation belonging to the other, to the detriment of the other. No party shall hold out as an agent or representative of the other or create any liability for the other.
- 2.3 Both parties shall maintain confidentiality about any information, course material, plans, discussions, strategies, or any material, which shall be deemed to be confidential and marked accordingly. Any information, course material or the like in the public domain shall not be part of this commitment.

#### 3. Limitations & Warranties

- 3.1 Each party shall ensure that the other is not put to any liability for any act of the respective party.
- 3.2 Each party represents that they have the full power and authority to enter into this MOU in general.

#### 4. Validity

This MOU will be in effect from 01<sup>st</sup> February 2020 to 31<sup>st</sup> January 2023. At least one month intimation be given to other party as goodwill gesture prior to revoking the MOU.

#### 5. General

Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.

By signing below the parties acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the date of signing of this MOU.

Date: 01 02 2020

S.P.B. Patel Engineering College

Place: Mehsana, Gujarat

For PIPEFFRENCINEERS PVT.LTD.

Place: Vadodara, Gujarat

DIRECTOR



### **Expert Session Report: Hydraulic Systems and its Industrial Uses**

On the 1st of February 2017, S.P.B. Patel Engineering College hosted an expert session on "Hydraulic Systems and its Industrial Uses," facilitated by Mr. Dipak Dadiya from Pipefit Engineers Pvt. Ltd. The session, aimed at 25 mechanical engineering students, provided a comprehensive understanding of hydraulic systems and their applications in various industries.

Mr. Dipak Dadiya commenced the session by elucidating the fundamental principles of hydraulic systems, emphasizing the role of fluid mechanics and the functioning of key components such as pumps, valves, cylinders, and actuators. He underscored the significance of these components in facilitating the transfer of power and motion in hydraulic machinery.

Furthermore, Mr. Dadiya delved into the diverse industrial applications of hydraulic systems, ranging from heavy machinery and construction equipment to aerospace systems and automotive technology. Through real-world examples and case studies, students gained insights into the versatility and utility of hydraulic technology across different sectors.

Safety considerations were also emphasized during the session, with Mr. Dadiya highlighting the importance of adhering to safety protocols and implementing regular maintenance practices to ensure the reliability and safety of hydraulic systems in industrial environments.

The interactive nature of the session facilitated active participation from the students, who engaged in discussions, asked questions, and participated in practical demonstrations of hydraulic components and systems. This hands-on approach enhanced their understanding of hydraulic technology and its practical applications in engineering.

In conclusion, the expert session led by Mr. Dipak Dadiya provided invaluable insights into hydraulic systems and their industrial uses for the mechanical engineering students at S.P.B. Patel Engineering College. The collaboration with Pipefit Engineers Pvt. Ltd. enriched students' knowledge and prepared them for future endeavors in the field of mechanical engineering, equipped with essential skills and understanding of hydraulic technology.





### **Attendance sheet:**

Student Name	Enrolment		
Acharya Vimarsh Indrakumar	160390119001		
Makavana Nirmaldev Udaysinh	160390119003		
Makwana Kartik Prakashkumar	160390119004		
Mangukiya Abhay Umeshbhai	160390119005		
Patel Ketul Sanjaykumar	160390119006		
Pathan Irshadkhan Raizkhan	160390119009		
Pathan Mukhtarkhan Ishrarkhan	160390119010		
Prajapati Raj Kaushik	160390119011		
Roshan Ponnachen	160390119014		
Solanki Vijaysinh Khumansinh	160390119016		
Jadeja Mahipatsinh Babubha	170393119003		
Parmar Niravkumar Yogeshkumar	170393119004		
Patel Apoorva Navinchandra	170393119005		
Patel Jay Harshadbhai	170393119006		
Patel Kaushalkumar Hasmukhbhai	170393119007		
Patel Mayankkumar Vasudevbhai	170393119008		
Prajapati Chiragkumar Popatlal	170393119009		
Prajapati Dhavalkumar Shaileshbhai	170393119010		
Prajapati Preet Arvindbhai	170393119011		
Shah Yashkumar Himanshubhai	170393119012		
Solanki Ravibhai Baldevbhai	170393119013		
Solanki Virendrasinh Vikramsinh	170393119014		
Suthar Sahilkumar Arvindbhai	170393119015		
Tapodhan Kuldeep Dipinbhai	170393119016		
Dantani Ajaybhai Vinodbhai	170393119002		









### **Certificate of Internship**

This certificate is awarded to DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI will leverage this internship experience for a successful engineering career.

Pipefit Engineers Pyter d









# **Certificate of Internship**

This certificate is awarded to BHALGAMA DILIPBHAI LAVINGBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

BHALGAMA DILIPBHAI LAVINGBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that BHALGAMA DILIPBHAI LAVINGBHAI will leverage this internship experience for a successful engineering career.









# Certificate of Internship

This certificate is awarded to JADAV YASH PUNAMBHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

JADAV YASH PUNAMBHAI was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that JADAV YASH PUNAMBHAI will leverage this internship experience for a successful engineering career.

Issued Date: 28 Julio 2020 Pipefit Engineers Pvt. Ltd









# **Certificate of Internship**

This certificate is awarded to PARMAR KEVALYARAJ DEVENDRASINH from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

PARMAR KEVALYARAJ DEVENDRASINH was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that PARMAR KEVALYARAJ DEVENDRASINH will leverage this internship experience for a successful engineering career.

Pipefit Engineers Pvt. Ltd







## **Certificate of Internship**

This certificate is awarded to MODI VISHAL RAJENDRAKUMAR from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

MODI VISHAL RAJENDRAKUMAR was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that MODI VISHAL RAJENDRAKUMAR will leverage this internship experience for a successful engineering career.

Issued Date: 28

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### **Certificate of Internship**

This certificate is awarded to PARMAR SURESHBHAI BHIKHABHAI from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

PARMAR SURESHBHAI BHIKHABHAI was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that PARMAR SURESHBHAI BHIKHABHAI will leverage this internship experience for a successful engineering career.

Issued Date: 28 July 2020
Pipefit Engineers Pvi. td







# **Certificate of Internship**

This certificate is awarded to PRAJAPATI HIREN MAHESHKUMAR from S.P.B. Patel Engineering College in recognition of the successful completion of an internship in Pipefit Engineers Pvt.Ltd during 20th July 2020 to 28th July 2020.

PRAJAPATI HIREN MAHESHKUMAR was a valuable asset to the team and consistently demonstrated his/her technical skills.

We are confident that PRAJAPATI HIREN MAHESHKUMAR will leverage this internship experience for a successful engineering career.

Issued Date: 28 July 2020
Pipefit Engineers Pyt Ltd