

**VASANTDADA SUGAR INSTITUTE**  
**NOTICE**  
**MSc. Environmental Sciences (SEM -III)**

Date: 28/08/2019

Dear Students

This is to inform that Department of Environmental Sciences is arranging short term course on **"ETP Operation & Maintenance"**.

**Eligibility:** MSc Environmental Sciences -Semester I & II

**Course Fee:** Free of cost

**Duration:** 30 hours

Duration of course: 03<sup>rd</sup> September, 2019 to 03<sup>rd</sup> October 2019

The interested students can enroll their names to Mr. Deepali Nimbalkar, Course Co-coordinator up to -03<sup>rd</sup> October 2019.

After successful completion of course, the certificate will be awarded to the participants.

  
Dr. Deepali Nimbalkar  
Head

Department of Environmental Sciences  
**Vasantdada Sugar Institute**  
Manjari (Bk.), Pune - 412 307, India.



  
D. B. Ghule  
Principal

Principal  
**Vasantdada Sugar Institute**  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307

**VASANTDADA SUGAR INSTITUTE**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCES**  
**COURSE DESIGN**

**Title: ETP OPERATION AND MAINTENANCE**

<b>Title of Course</b>	<b>ETP Operation &amp; Maintenance</b>	<b>Course duration</b>	<b>30 Hours</b>
<b>Name of Co-coordinator</b>	Dr. Deepali Nimbalkar HOD (Department of Environmental Sciences)	<b>Contact No</b>	0202602343

**Objectives**

- Studying effluent characteristics and treatment in sugar, distillery, and co-generation
- To study the treatment methods of domestic effluent and operation maintenance of STP.
- To study the record keeping & Handling of regulatory authority.
- To develop employability skill & entrepreneurship among the students.

<b>Syllabus</b>	<b>No. of lectures/Hours</b>
<ul style="list-style-type: none"> <li>▪ Pollution sources and characteristics of effluent from sugar, and allied units.</li> <li>▪ Practices (pH, EC, &amp; BOD)</li> </ul>	4
<ul style="list-style-type: none"> <li>▪ Induction of wastewater treatment plants and its components- civil, mechanical, electrical and instrumentation.</li> <li>▪ Sources of domestic wastewater, and its characteristics and treatment technology available.</li> <li>▪ Anaerobic digestion &amp; composting of press mud and distillery spent wash.</li> <li>▪ Practices (TS, TSS, TDS, Oil &amp; Grease, Alkalinity &amp; MLSS)</li> <li>▪ Biological treatment and tertiary treatment and its type.</li> </ul>	12
<ul style="list-style-type: none"> <li>▪ Practices (COD, Chloride, Sulphate, &amp; Volatile Acids)</li> </ul>	2
<ul style="list-style-type: none"> <li>▪ Trouble shooting for sugar ETP and guidelines of Safety in operation.</li> </ul>	2
<ul style="list-style-type: none"> <li>▪ Demonstration of Air, Noise &amp; Soil sampling procedure and guidelines</li> </ul>	3
<ul style="list-style-type: none"> <li>▪ Operation of sugar and distillery CPU</li> </ul>	3
<ul style="list-style-type: none"> <li>▪ Changing environmental norms and implementation for future development in sugar and allied sector.</li> </ul>	2
<ul style="list-style-type: none"> <li>▪ Record keeping procedures and handling of regulatory authority.</li> </ul>	2
<b>Total hours: 30</b>	

**Outcome:**

After completing the short-term course on "ETP Operation and Maintenance," students will acquire knowledge about wastewater sources and characteristics from sugar and allied sectors, as well as the availability of treatment technologies. This information will be beneficial to students for the operation and maintenance of wastewater treatment plants, along with guidelines and practices prevalent in sugar and allied industries.

After successful completion of course, the certificate will be awarded to the participants.

**Course Coordinator**  
**Department of**  
**Environmental Sciences**  
**Vasantdada Sugar Institute**  
 Manjari (Bk.), Pune - 412 307, India.




**Principal**  
**Vasantdada Sugar Institute**  
 Manjari (Bk.), Tal. Haveli,  
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**VASANTDADA SUGAR INSTITUTE**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCES**  
**COURSE DESIGN**

**Title: ETP OPERATION AND MAINTENANCE**  
**Distribution of topics to the teachers**

Syllabus	Name of lecturer	No. of lectures	Date
<ul style="list-style-type: none"> <li>▪ Pollution sources and characteristics of effluent from sugar, and allied units.</li> <li>▪ Practices (pH, EC, &amp; BOD)</li> <li>▪ Sources of domestic wastewater, and its characteristics and treatment technology available.</li> </ul>	Dr. D S Nimbalkar & Dr. Amol Deshmane	4	03/09/2019 to 04/09/2019
<ul style="list-style-type: none"> <li>▪ Induction of wastewater treatment plants and its components- civil, mechanical, electrical and instrumentation.</li> <li>▪ Anaerobic digestion &amp; composting of press mud and distillery spent wash.</li> <li>▪ Practices (TS, TSS, TDS, Oil &amp; Grease, Alkalinity &amp; MLSS)</li> <li>▪ Biological treatment and tertiary treatment and its type.</li> </ul>	Dr. E P Alhat & Miss. Hemlata Hingane	12	16/09/2019 To 21/09/2019
<ul style="list-style-type: none"> <li>▪ Practices (COD, Chloride, Sulphate, &amp; Volatile Acids)</li> </ul>	Miss. A S Urdukha	2	23/09/2019
<ul style="list-style-type: none"> <li>▪ Trouble shooting for sugar ETP and guidelines of Safety in operation.</li> </ul>	Mr. Vivek Patil and Mr. Yougesh Katkar	2	24/09/2019
<ul style="list-style-type: none"> <li>▪ Demonstration of Air, Noise &amp; Soil sampling procedure and guidelines</li> </ul>	Mr. Vikram Deshmukh & Miss. Priyank Kad	3	25/09/2019 To 26/09/2019
<ul style="list-style-type: none"> <li>▪ Operation of sugar and distillery CPU</li> </ul>	Dr. E P Alhat	3	27/09/2019 & 30/09/2019
<ul style="list-style-type: none"> <li>▪ Changing environmental norms and implementation for future development in sugar and allied sector.</li> </ul>	Dr. Amol Deshmane	2	01/10/2019
<ul style="list-style-type: none"> <li>▪ Record keeping procedures and handling of regulatory authority.</li> </ul>	Dr. E P Alhat	2	03/11/2019
	<b>Total lectures</b>	<b>30</b>	

  
**Course coordinator**  
 Department of  
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**VASANTDADA SUGAR INSTITUTE**  
Manjari (Bk), Pune- 412307, Maharashtra

Name of Course: ETP Operation & Maintenance

Academic Year: 2019-20

Department Name: Environmental Sciences

Duration from to: 03<sup>rd</sup> September, 2019 to 03<sup>rd</sup> October 2019

Name of co-operator: Dr. Deepali Nimbalkar

Course duration: 30 Hours.

Sr. No	Roll Number	Name of Student	Class	Signature
1.	ES201801	NANGARE PRAVIN SHAMRAO	Second Year	Pawan
2.	ES201802	PAWAR NILESH DNYANOBA	Second Year	NPawar
3.	ES201803	MANE NIKHIL JITENDRA	Second Year	Mane
4.	ES201804	SABALE ROHIT ANIL	Second Year	Rohit
5.	ES201805	PAWAR SAMRUDDHI RAVINDRA	Second Year	Pawar
6.	ES201806	GAIKWAD SACHIN RAMESH	Second Year	SR
7.	ES201807	DEOKATE KIRAN ASHOK	Second Year	KR
8.	ES201808	GAIKWAD AMOL SHIVAJI	Second Year	Amol
9.	ES201809	KHANDGE PRATIKSHA BHARAT	Second Year	Pratiksha
10.	ES201810	PATIL DEVENDRA SATILAL	Second Year	Patil
11.	ES201811	RAJPURE ADESH BHANUDAS	Second Year	Adesh
12.	ES201812	GHADAGE NAVANATH SURESH	Second Year	Navanath
13.	ES201813	KURALE DIKSHA DATTATRAY	Second Year	KDD
14.	ES201814	BHAGAT KAJAL TANAJI	Second Year	K.T. Bhagat
15.	ES201815	KEDARI PRAMOD PRAKASH	Second Year	Kedari
16.	ES201816	SHERKAR PANKAJ ANANDA	Second Year	Sherkar
17.	ES201817	KARTIK SATYAWAN LILHARE	Second Year	Kartik
18.	ES201818	PAWAR SUHAS DATTATRAY	Second Year	Suhas
19.	ES201819	KUMBHAR SHUBHAM VIJAY	Second Year	Shubham
20.	ES201820	KADAM RUTUJA VIKAS	Second Year	KVK
21.	ES201821	MADAKE ABHIJIT SHAHAJI	Second Year	Abhi
22.	ES201822	HAGE AKSHAY VIJAYKUMAR	Second Year	Akshay
23.	ES202001	ADKINE DIVYA DIGAMBAR	Frist Year	Divya
24.	ES202002	AUTI ADITYA BHAUSAHEB	Frist Year	Auti
25.	ES202003	BABAR KARTIK INDRABHAN	Frist Year	Kartik
26.	ES202004	BHOSALE NIKHIL SARJERAO	Frist Year	Nikhil









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27.	ES202005	BOTHE PRACHI PRAMOD	Frist Year	
28.	ES202006	CHALWADI PARSHURAM NAGAPPA	Frist Year	
29.	ES202007	CHASKAR KAJAL GORAKSHANATH	Frist Year	<u>Pune</u>
30.	ES202008	DAHIPHALE MAHESH MOHAN	Frist Year	<u>Kajal</u>
31.	ES202009	DESHMUKH ADITYA PRAKASH	Frist Year	<u>Prachi</u>
32.	ES202010	GAIKWAD RANJEET ARUN	Frist Year	<u>(1)</u>
33.	ES202011	JAGTAP HARSHAL VILAS	Frist Year	<u>Ranjeet</u>
34.	ES202012	JAGTAP SONALI KRISHNA	Frist Year	<u>Harshal</u>
35.	ES202013	JARANDE SOURABH DATTATRAY	Frist Year	<u>(5) Sonu</u>
36.	ES202014	KHARADE DIGVIJAY GULABRAO	Frist Year	<u>Shilpa</u>
37.	ES202015	KOKARE NAMRATA BALASAHEB	Frist Year	<u>Khum</u>
38.	ES202016	KOR JAYASHRI BHATU	Frist Year	<u>NMD</u>
39.	ES202017	KUNDALKAR TEJASHREE DATTATRAY	Frist Year	<u>KJB</u>
40.	ES202018	MANKAR AKSHTA NARENDRA	Frist Year	<u>Teik</u>
41.	ES202019	MORE ADITI RAJENDRA	Frist Year	<u>MA</u>
42.	ES202020	PAWANE ABHINANDAN SANJAY	Frist Year	<u>MAPI</u>
43.	ES202021	SIDDIQUE AZARUDDIN KAMRUDDIN	Frist Year	<u>Abhinandan</u>
44.	ES202022	SAWARKAR ARPIT SANTOSHRAO	Frist Year	<u>ASR</u>
45.	ES202023	SHINDE SHUBHAM LAXMAN	Frist Year	<u>ASR</u>
46.	ES202024	ZENDE PRATIK NAVNATH	Frist Year	<u>Shinde</u>
			Frist Year	<u>Pave</u>

  
Dr. Deepali Nimbalkar  
Head (Department of Environmental Sciences)

Department of  
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Vasantdada Sugar Institute  
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## VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

### MSc Environmental Sciences (Semester second)

**Title of the short-term course: "ETP Operation & Maintenance".**

**Course duration: 30 Hours, 03<sup>rd</sup> September, 2019 to 03<sup>rd</sup> October 2019**

Department of Environmental Sciences has organized short term course on "ETP Operation & Maintenance" for the students of M. Sc. Environmental Sciences - Semester I & II. The duration of course was 30 hours, the course was conducted during 03<sup>rd</sup> September, 2019 to 03<sup>rd</sup> October 2019. The course was focused on various aspects of laboratory analysis and management.

The introduction of course was given by course coordinator Dr. Deepali Nimbalkar. They have highlighted the syllabus to be covered during course. Mr. D. B. Ghule, Principal has highlighted this new area of analysis and job opportunities in this area. During the course the students were get knowledge regarding basic principles and precaution to be taken during of course.

However, 46 students were enrolled for this course. The course was assessed by way of home assignment and oral. However, 38 students were successfully completed the course. The certificate of participation was distributed to the students who have successfully completed the course by the hand of Principal, VSI.

**Outcome of course:** Students gain the knowledge wastewater treatment plant and its operation. The students were getting hands on experience of operation and maintains of waste water treatment plant. The students were highly impressed by this activity.

Head,  
Department of  
Environmental Sciences  
**Vasantdada Sugar Institute**  
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Principal  
**Vasantdada Sugar Institute**  
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Dist. Pune - 412 307





VASANTDADA SUGAR INSTITUTE, PUNE

ATTENDANCE SHEET  
ETP Operation & Maintenance

03rd September, 2019 to 03rd October 2019

ROLL NO	NAME OF STUDENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
ES201801	NANGARE PRAVIN SHAMRAO	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava	Pava
ES201802	PAWAR NILESH DNYANOBA	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar	Pavar
ES201803	MANE NIKHIL JITENDRA	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
ES201804	SABALE ROHIT ANIL	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht	Roht
ES201805	PAWAR SAMRUDDHI RAVINDRA	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
ES201806	GAIKWAD SACHIN RAMESH	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin
ES201807	DEOKATE KIRAN ASHOK	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
ES201808	GAIKWAD AMOL SHIVAJI	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol
ES201809	KHANDGE PRATIKSHA BHARAT	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK	PBK
ES201810	PATIL DEVENDRA SATILAL	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
ES201811	RAIPURE ADESH BHANUDAS	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh





ROLL NO	NAME OF STUDENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
ES201812	GHADAGE NAVANATH SURESH	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>	<u>Name</u>
ES201813	KURALE DIKSHA DATTATRAY	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	F.D.P	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD	KDD
ES201814	BHAGAT KAJAL TANAI	KTBank	KTBank	A	A	KTBank	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ES201815	KEDARI PRAMOD PRAKASH	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar
ES201816	SHERKAR PANKAJ ANANDA	Shar	Shar	Shar	Shar	Shar	Shar	Shar	A	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar	Shar
ES201817	KARTIK SATYAWAN LILHARE	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	A	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik
ES201818	PAWAR SUHAS DATTATRAY	A	A											A	A										A	A			
ES201819	KUMBHAR SHUBHAM VIJAY	Shub	Shub	Shub	Shub	A	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	A	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub	Shub
ES201820	KADAM RUTUJA VIKAS	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	A	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK	RVK
ES201821	MADAKE ABHIJIT SHAHAI	A													A														
ES201822	HAGE AKSHAY VIJAYKUMAR	Shub	Shub	Shub	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ES202001	ADKINE DIYYA DIGAMBAR	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya	Diyya
ES202002	AUTI ADITYA BHAUSAHEB	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti	Auti





ROLL NO	NAME OF STUDENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
ES202003	BABAR KARTIK INDRABHAN	A	A	<del>Handwritten</del>	A	A	<del>Handwritten</del>	<del>Handwritten</del>	A	<del>Handwritten</del>	A	A	A	A	A	A													
ES202004	BHOSALE NIKHIL SARJERAO	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>		<del>Bank</del>	<del>Bank</del>	<del>Bank</del>		<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>		<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	<del>Bank</del>	
ES202005	BOTHE PRACHI PRAMOD	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202006	CHALWADI PARSHURAM NAGAPPA	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202007	CHASKAR KAJAL GORAKSHANATH	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202008	DAHIPHALE MAHESH MOHAN	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202009	DESHMUKH ADITYA PRAKASH	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202010	GAIKWAD RANJEET ARUN	A	A																										
ES202011	JAGTAP HARSHAL VILAS	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	<del>Handwritten</del>	
ES202012	JAGTAP SONALI KRISHNA	A	A																										
ES202013	JARANDE SOURABH DATATRAY	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202014	KHARADE DIGVIJAY GULABRAO	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	
ES202015	KOKARE NAMRATA BALASAHEB	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	<del>PRBP</del>	





ROLL NO	NAME OF STUDENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
ES202016	KOR JAYASHRI BHATU	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202017	KUNDALKAR TEJASHREE DATTATRAY	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202018	MANARKAR AKSHITA NARENDRA	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202019	MORE ADITI RAJENDRA	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202020	PAWANE ABHINANDAN SANJAY	A	A	A																									
ES202021	SIDDIQUE AZARUDDIN KAMRUDDIN	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202022	SAWARKAR ARPIT SANTOSHRAO	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
ES202023	SHINDE SHUBHAM LAXMAN	A	A	A	A	A	A	A																					
ES202024	ZENDE PRATIK NAVNATH	A	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb	dkb
Teacher's Signature		DSN	DSN	ABD	ABD	EPA	HNH	EPA	HNH	HNH	EPA	HNH	EPA	EPA	EPA	HNH	EPA	ASU	ASU	VPP	VPR	VSD	VSD	PRK	EPA	EPA	EPA	ABD	ABD

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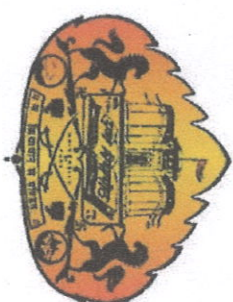




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Place: Manjari, Pune.

  
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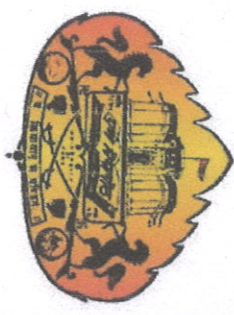
  
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This is to certify that Mr./Ms./Mrs. KURALE DIKSHA DATATRAY From VSI has actively participated and successfully completed with grade in the Add-on Course based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and **03/10/2019, (30 hours)** organized by **Department of Environmental Sciences** Manjari Bk. Tal. Haveli, Dist. Pune.

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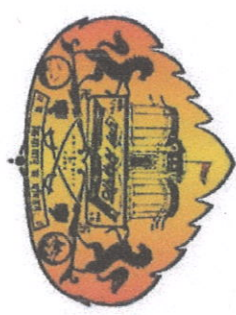
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Place: Manjari, Pune.

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Department of  
Environmental Sciences  
Vasantdada Sugar Institute

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Department of

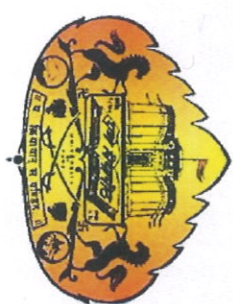


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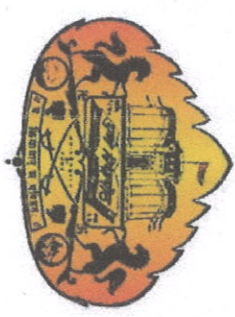
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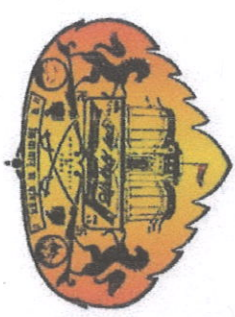
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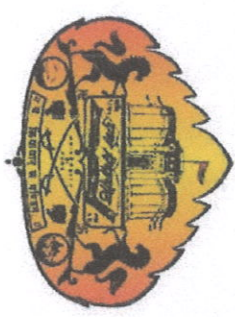


  
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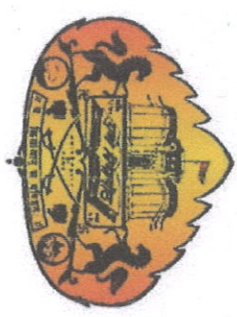
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has actively participated and successfully completed with grade in the Add-on Course  
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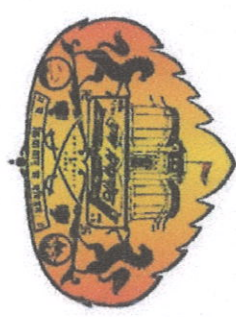


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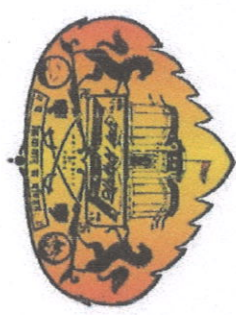
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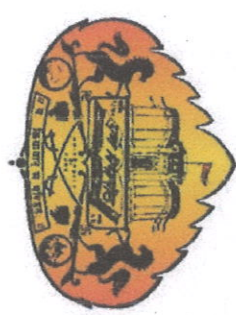


  
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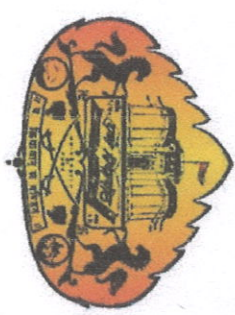




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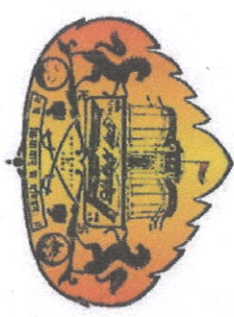




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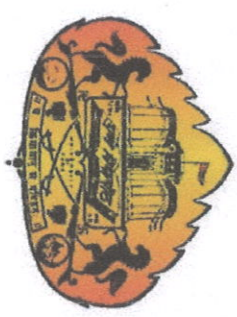
  
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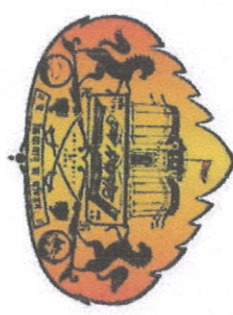
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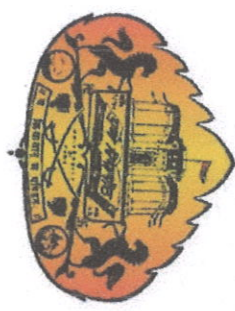
  
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Date: 03/10/2019

Place: Manjari, Pune.

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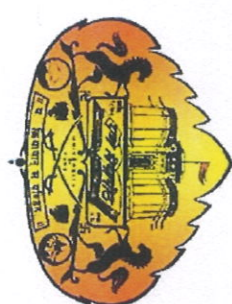
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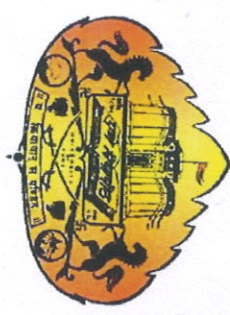
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Date: 03/10/2019

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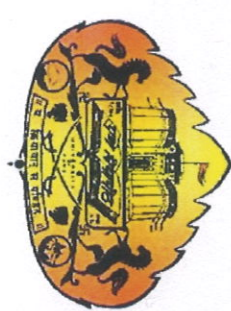




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Date: **03/10/2019**

Place: Manjari, Pune.

  
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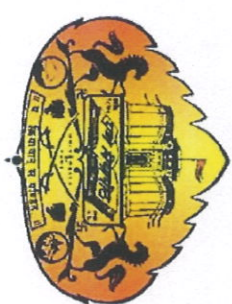
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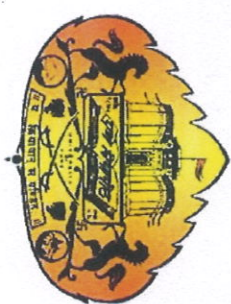
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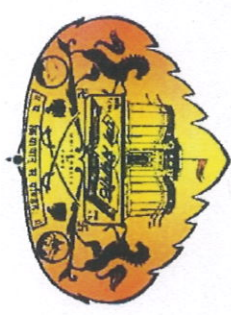
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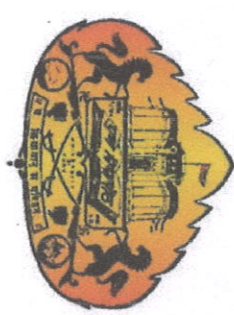
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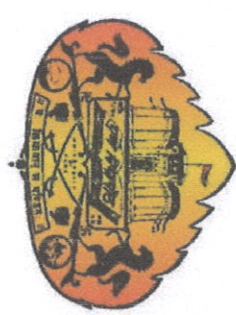
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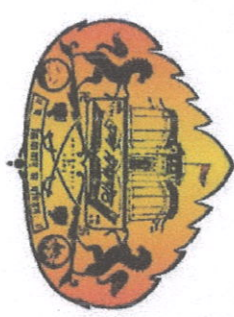
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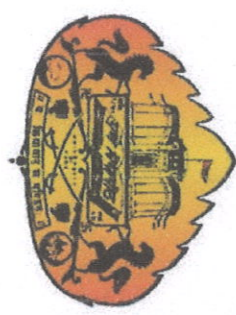
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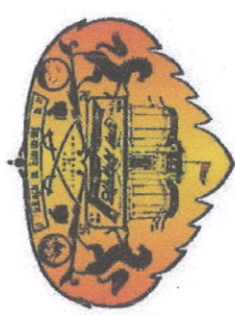
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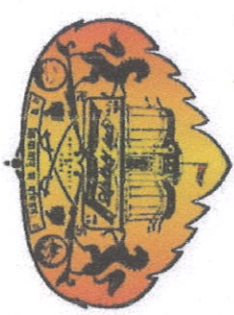
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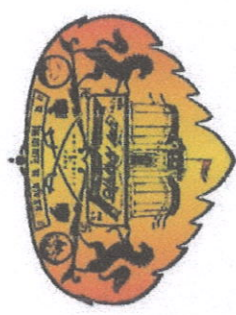




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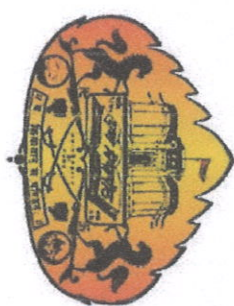
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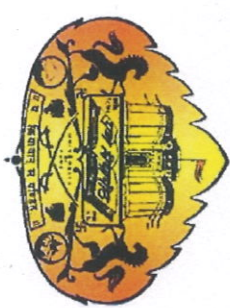
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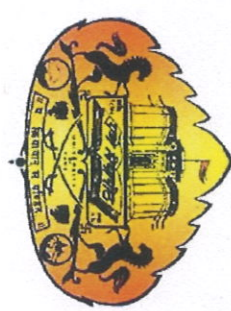
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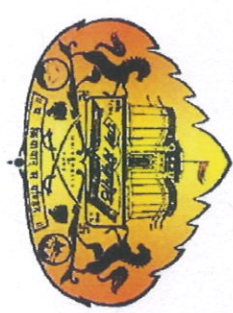
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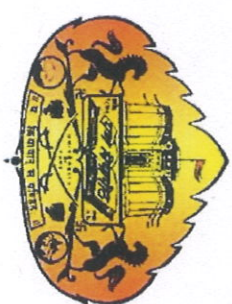


  
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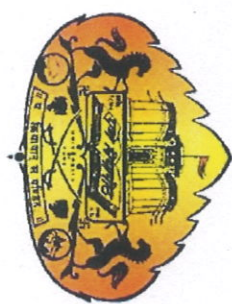


  
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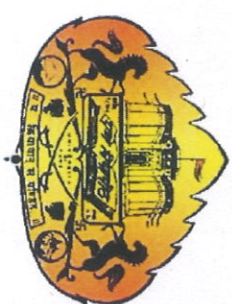
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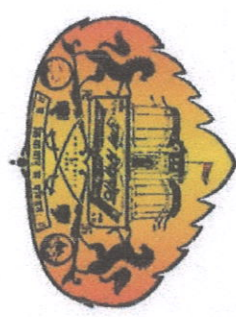
  
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Manjari (Bk.), Pune - 412 307, India.



  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307



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# Certificate

This is to certify that Mr./Ms./Mrs. KEDART PRAMOD PRAKASH From VSI has actively participated and successfully completed with grade in the Add-on Course based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and **03/10/2019, (30 hours)** organized by **Department of Environmental Sciences** Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

  
Head of Department  
Department of Environmental Sciences  
Vasantdada Sugar Institute

  
Head of Department  
Department of Environmental Sciences  
Vasantdada Sugar Institute

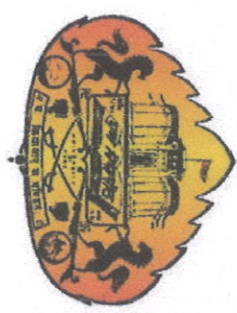


  
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# Certificate

This is to certify that Mr./Ms./Mrs. SHEKAR PANEAS ANANDA From VSI  
has actively participated and successfully completed with grade in the Add-on Course  
based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and  
**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
Manjari Bk. Tal. Haveli, Dist. Pune.


Date: 03/10/2019

Place: Manjari, Pune.

  
Head,  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute

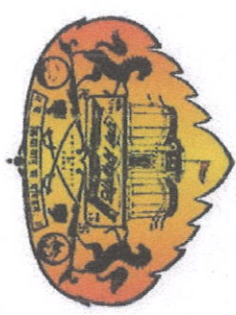
  
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# Certificate

This is to certify that Mr./Ms./Mrs. LILHARE KARTIK SATYAWAN From VSI  
has actively participated and successfully completed with grade in the Add-on Course  
based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and  
**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

  
Coordinator  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Pune - 412 307, India.

  
Head of  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307, India.

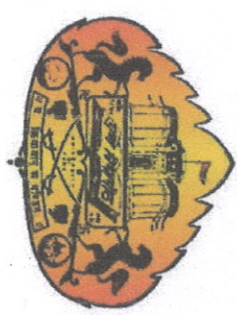


  
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# Certificate

This is to certify that Mr./Ms./Mrs. PAWAR SUHAS DATTATRAY From VSI  
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**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

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Environmental Sciences

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Head

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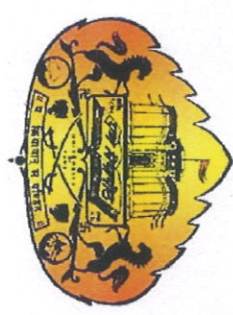


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This is to certify that Mr./Ms./Mrs. DEKATE KIRAN ASHOK From VSI  
has actively participated and successfully completed with grade in the Add-on Course  
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**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
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Head of  
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Environmental Sciences  
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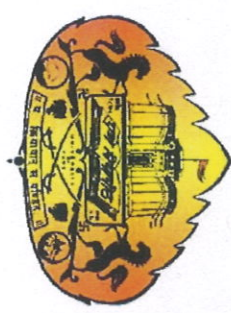


  
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This is to certify that Mr./Ms./Mrs. NANGARE PRAVIN SHAMRAO From VSI  
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based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and  
**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
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Date: 03/10/2019

Place: Manjari, Pune.

  
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Department of  
Environmental Sciences  
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Manjari Bk., Pune - 412 307, India.

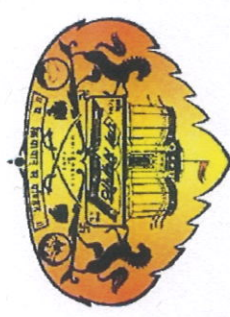
  
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Department of  
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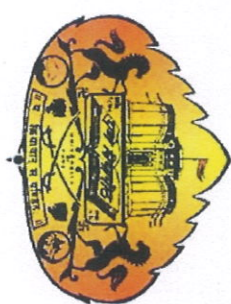




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This is to certify that Mr./Ms./Mrs. MANE NIKHI JITENDRA From VSI has actively participated and successfully completed with grade in the Add-on Course based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and **03/10/2019, (30 hours)** organized by **Department of Environmental Sciences** Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

  
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Environmental Sciences

  
Head of  
Department of  
Environmental Sciences

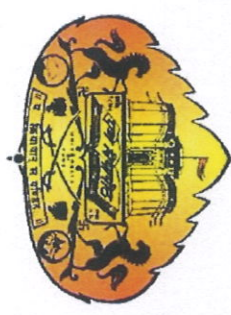


  
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This is to certify that Mr./Ms./Mrs. SABIE ROHIT ANIL From VSI  
has actively participated and successfully completed with grade in the Add-on Course  
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Date: 03/10/2019

Place: Manjari, Pune.

  
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Environmental Sciences

  
Head of  
Department of  
Environmental Sciences



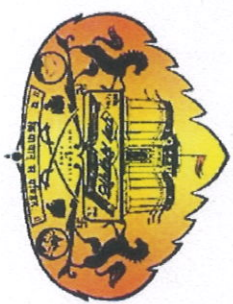
  
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This is to certify that Mr./Ms./Mrs. GAIKWAD SACHIN RAMESH From VSI has actively participated and successfully completed with grade in the Add-on Course based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and **03/10/2019, (30 hours)** organized by **Department of Environmental Sciences** Manjari Bk. Tal. Haveli, Dist. Pune.

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Head  
Department of  
Environmental Sciences



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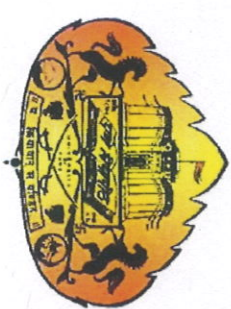
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has actively participated and successfully completed with grade in the Add-on Course  
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Place: Manjari, Pune.

  
Head of  
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Environmental Sciences  
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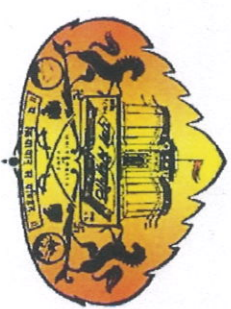
  
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based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and  
**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
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Date: 03/10/2019

Place: Manjari, Pune

  
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Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
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Head,  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Pune - 412 307



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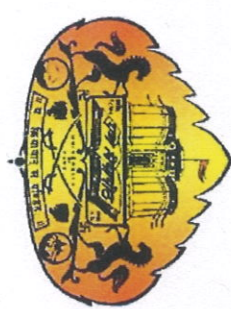
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Dist. Pune - 412 307



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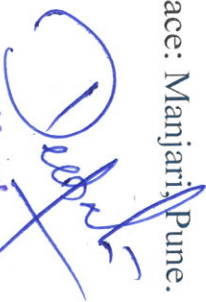


# Certificate

This is to certify that Mr./Ms./Mrs. PATIL DEVENDRA SATILAL From VSI  
has actively participated and successfully completed with grade in the Add-on Course  
based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and  
**03/10/2019, (30 hours)** organized by **Department of Environmental Sciences**  
Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

  
Coordinator  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Pune - 412 307, India.

  
Head of  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Pune - 412 307, India.

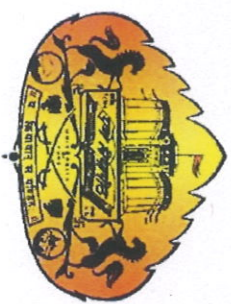


  
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# Certificate

This is to certify that Mr./Ms./Mrs. RAIPURE ADESH BHANUDAS From VSI has actively participated and successfully completed with grade in the Add-on Course based on ' **ETP Operation & Maintenance** ' held between **03/09/2019** and **03/10/2019, (30 hours)** organized by **Department of Environmental Sciences** Manjari Bk. Tal. Haveli, Dist. Pune.

Date: 03/10/2019

Place: Manjari, Pune.

**Coordinator**

Department of

Environmental Sciences

Vasantdada Sugar Institute

Manjari (Bk.), Pune - 412 307, India.

**Head**

Department of

Environmental Sciences

Vasantdada Sugar Institute

Manjari (Bk.), Pune - 412 307, India.



**Principal**

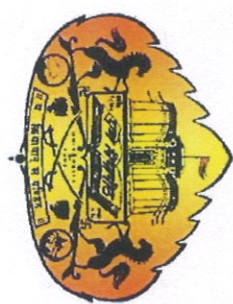
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Date: 03/10/2019

Place: Manjari, Pune.

  
H. Gadgaonkar  
Coordinator  
Department of  
Environmental Sciences  
Vasantdada Sugar Institute  
Manjari (Bk.), Pune - 412 307, India.

  
H. Gadgaonkar  
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