#### 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: 03rd September, 2019 to 03rd October 2019

The interested students can enroll their names to Mr. Deepali Nimbalkar, Course Cocoordinator up to -03rd October 2019.

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

Dr. Deepali Nimbalkar

Department of Environmental Sciences

**Vasan**tdada Sugar Insti**tute** 

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

D. B. Ghule Principal

Principal

Vasantdada Sugar Institute Manjari (Bk.), Tal. Havel,

Dist. Pune - 412 307

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

Title: ETP OPERATION AND MAINTENANCE

Title of Course	ETP Operation & Maintenance	Course duration	30 Hours
Name of Co- coordinator	Dr. Deepali Nimbalkar HOD (Department of Environmental	Contact No	0202602343
Coordinator	Sciences		

#### **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.

Syllabus	No. of lectures/Hours
<ul> <li>Pollution sources and characteristics of effluent from sugar,</li> </ul>	4
and allied units.	
■ Practices (pH, EC, & BOD)	
<ul> <li>Induction of wastewater treatment plants and its</li> </ul>	12
components- civil, mechanical, electrical and	
instrumentation.	
Sources of domestic wastewater, and its characteristics and	
treatment technology available.	
<ul> <li>Anaerobic digestion &amp; composting of press mud and</li> </ul>	
distillery spent wash.	
Practices (TS, TSS, TDS, Oil & Grease, Alkalinity & MLSS)	
Biological treatment and tertiary treatment and its type.	
<ul> <li>Practices (COD, Chloride, Sulphate, &amp; Volatile Acids)</li> </ul>	2
Trouble shooting for sugar ETP and guidelines of Safety in	2
operation.	
<ul> <li>Demonstration of Air, Noise &amp; Soil sampling procedure and</li> </ul>	3
guidelines	
<ul> <li>Operation of sugar and distillery CPU</li> </ul>	3
Changing environmental norms and implementation for	2
future development in sugar and allied sector.	
Record keeping procedures and handling of regulatory	2
authority.	255
	Total hours: 30

#### 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.

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 Distribution of topics to the teachers

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	Syllabus	Name of lecturer	No. of lectures	Date
:	Pollution sources and characteristics of effluent from sugar, and allied units. Practices (pH, EC, & BOD) Sources of domestic wastewater, and its characteristics and treatment technology available.	Dr. D S Nimbalkar & Dr. Amol Deshmane		03/09/2019 to 04/09/2019
	Induction of wastewater treatment plants and its components- civil, mechanical, electrical and instrumentation.  Anaerobic digestion & composting of press mud and distillery spent wash.  Practices (TS, TSS, TDS, Oil & Grease, Alkalinity & MLSS)  Biological treatment and tertiary treatment and its type.	Dr. E P Alhat & Miss. Hemlata Hingane	12	To 21/09/2019
•	Practices (COD, Chloride, Sulphate, & Volatile Acids)	Miss. A S Urdukha	2	23/09/2019
•	Trouble shooting for sugar ETP and guidelines of Safety in operation.	Mr. Vivek Patil and Mr. Yougesh Katkar	2	24/09/2019
	Demonstration of Air, Noise & Soil sampling procedure and guidelines	Mr. Vikram Deshmukh & Miss. Priyank Kad	3	25/09/2019 To 26/09/2019
•	Operation of sugar and distillery CPU	Dr. E P Alhat	3	27/09/2019 & 30/09/2019
•	Changing environmental norms and implementation for future development in sugar and allied sector.	Dr. Amol Deshmane	2	01/10/2019
-	Record keeping procedures and handling of regulatory authority.		2	03/11/2019
		Total lectures	30	

Course coordinator

Department of Environmental Sciences

Vasantdada Sugar Institute

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

Principal Principa

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



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.

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Manjari (Bk), Pune- 412307, Maharashtra

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Dr. Deepali Nimbalkar Head (Deptathyvironmental Sciences)

Department of

Environmental Sciences Vasantdada Sugar Institute

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

D. B. Ghule Principal

Princ.pal Vasantdada Sugar Institute Manjari (Bk.), Tal. Haveli,

Dist. Pure -412 307





Manjari (Bk), Pune- 412307, Maharashtra

MSc Environmental Sciences (Semester second)

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

Course duration: 30 Hours, 03rd September, 2019 to 03rd 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.

Department of Environmental Sciences Vasantdada Sugar Institute

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

Vasan**tdada S**ugar Institute Manjari (Bk.), Tal. Haveli,

Dist. Pune - 412 307

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# DEPARTMENTOFENVIRONMENTAL SCIENCES



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Participated and successfully completed with grade in the Add-on Course based on 'ETP Operation& Maintenance' held

Haveli, Dist. Pune. Between 03/09/2019 and 03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari Bk. Tal.

Place: Manjar Pune.

Department on Coordinator

ironmental Sciences





Manjari (Bk.) ial. Havell

Dist. Pune - 412 307

(8k.), Pune - 412 307, India.

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune.

Coordinator Department of

Environmental Sciences

Department of

Vasantdada Sugar Institute Principal

Manjari (Bingipal Maveli Dist. Pune - 412 997

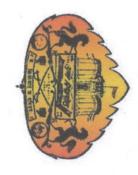
Marijari (8k.), Pune - 412 307, India

Vasantdada Sugar Insulute Meniad (8k.), Pune - 412 307, India Environmental Sciences



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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03/10/2019, (30 hours) organized by Department of Environmental Sciences based on' ETP Operation& Maintenance' held between 03/09/2019 has actively participated and successfully completed with gradein the Add-on Course Manjari Bk. Tal. Haveli, Dist.Pune This is to certify that Mr./Ms./Mrs.\_\_\_\_\_\_BHAGHAT KAJAL TANAJI

Date: 08/10/2019

Place: Manjahi, Pune

Environmental Sciences da Sugar Institute



Principal

Vasantdada Sugar institute

Manjarpunkonplat Mavel Dist. Pune - 412 307

65 Juli (8k.), Pune - 412 367, mais

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.





### Certificate

03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course This is to certify that Mr./Ms./Mrs. ZENDE PRATIK NANNATH From

Date: 03/10/2019 ,

Bk. Tal. Haveli, Dist.Pune

Place: Manjari, Pune

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Environmental Sciences



Department of Environmental Sciences

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Dist. Pune - 412 307

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



### Certificate

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

Date: 03/10/2019

Place: Manjari, Pune

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Repartment of Tal Sciences

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Vasantdada Sugar Institute Manjari (redipjeta). Mayeli Principa

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune

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Bepartment of

Environmental Science Bepartment et

Principa

Dist. Pune - 412 307

Pasantdada Sugar Inswello Priest (Pk.), Pune - 412 387, Inc.

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Rune

Environmental Science Bepartment of

/asantoada Sugar Institute Manjarringinatal Havel

Dist. Pune - 412 307

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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This is to certify that Mr./Ms./Mrs. Felt Shushikunt Achyutow From VSI

03/10/2019, (30 hours) organized by Department of Environmental Sciences based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course

Manjari Bk. Tal. Haveli, Dist.Pune

Date: 03/10/2019

Place: Manjari, Rune

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Bepartment of

Manjari (Sk.), Pune - 412 307, Inagameanna angar msalma Environmental Sciences









**Environmental Sciences** 

Menjari (Ek.), Pune - 412 307, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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This is to certify that Mr./Ms./Mrs. DUDHALE AMIT ARUN

From YSI

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

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

Manjari Bk. Tal. Haveli, Dist.Pune

Date: 03/10/2019

Place: Manjari, Rune.

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune

Environmental Scir Repartment of



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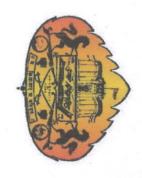
Vasantdada Sugar Institute Principa

Mapparidible), Tal. Mayell Dist. Pune - 412 307



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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has actively participated and successfully completed with gradein the Add-on Course This is to certify that Mr./Ms./Mrs. SYL YOURSH PANDURAN From VSI

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

Manjari Bk. Tal. Haveli, Dist.Pune.

Date: 03/10/2019

Place: Manjari, Pune

**Coordinator**Bepartment of

Environmental Sciences

Head, HOD Repartment of



Principal
Principal
Vasantdada Sugar Institute
Manjeri (Relipalial Maveli,

Dist. Pune - 412 307

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

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Leut Pune - 412 307, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



### Certificate

This is to certify that Mr./Ms./Mfs. THORAT SURAT GHANKAR From VSI

03/10/2019, (30 hours) organized by Department of Environmental Sciences based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course

Manjari Bk. Tal. Haveli, Dist.Pune

Date: 03/10/2019

Place: Manjari, Pune

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nvicenmental Sciences Repartment of



Vasantdada Sugar Institute Principal

ManjarPMkcipHt. Dist. Pune - 412 301

Department ex umental Sciences

ात (अ.), Pune - 412 307, India

Sugar Institute



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



This is to certify that Mr./Ms./Mrs. MATE PRASHANT NANASAHEB From VSI has actively participated and successfully completed with gradein the Add-on Course

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

Manjari Bk. Tal. Haveli, Dist.Pune

Date: 03/10/2019

Place: Manjari, Rune.

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wa sugar institute



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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This is to certify that Mr./Ms./Mrs. KHOT ANKUSH BABURAO

From VSI

03/10/2019, (30 hours) organized by Department of Environmental Sciences based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course

Manjari Bk. Tal. Haveli, Dist.Pune Date: 02/10/2019

Place: Manjari, Rune.

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Dist. Pune - 412 307

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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This is to certify that Mr./Ms./Mrs. DOLE POUTA NARAYAN

From VSI

03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari Bk. Tal. Haveli, Dist.Pune based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course

Date: 03/10/2019

Place: Manjari, Rune.

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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

Date: 03/10/2019

Place: Manjari, Pune.

Bepartment .

Sari (Bk.), Pune - 412 167 asanidada Sugar Institute Environmental Se

Department of

Vasantdana sugar insulus Proceedings of Publication A12 307, India.

Environmental Sciences

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Manjari (Phocipal Dist. Pune - 412 30/



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pun

BENTHTIENT B

Environmental Sciences

**Bepartment'o** 

Manjari (Bk.), Tal. Haveli Dist. Pune - 413 307 Principa

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India



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03/10/2019, (30 hours)organized by Department of Environmental Sciences Manjari Bk. Tal. Haveli, Dist.Pune, based on' ETP Operation& Maintenance' held between 03/09/2019 and This is to certify that Mr./Ms./Mrs.\_\_\_SIDDIQUE AZARUDDIN KAMRUDDINFrom\_ has actively participated and successfully completed with gradein the Add-on Course

Date: 03/10/2019

Place: Manjari, Pune.

Coerdinato

Environmental Sciences Department of

Department of



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Vasantdadin Spyller Institute Manjari (Bk.), Tal. Maveli

asantuada sugar institu Manjari (Bk.), Pune - 412 387, India

Vasantdada Sugar Institute

Manjari (8k.), Pune - 412 307, India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 08/20/2029

Place: Manjari, Pune.

Bepartment of Cobrdinato

Environmental Sciences

Department of

Principal Principal Vasantiada Sugar Institute Manjari (Bk.), Tal. Maveli

Dist. Pune - 412 307

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune.

Cobrelinato

Environmental Sciences Department of

Environmental Sciences Department of



Manjari (Bk.), Tal. Haveli

Manjari (Bk.), Pune - 412 387, India

Vasantdada Sugar Institut 19k.), Pune - 412 397, India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



based on' ETP Operation& Maintenance' held between 03/09/2019 and 03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari has actively participated and successfully completed with gradein the Add-on Course This is to certify that Mr./Ms./Mrs. KUNDALKAR TEJASHREE DATTATRAY From VSI

Bk. Tal. Haveli, Dist.Pune. Date: 03/10 | 2019

Place: Manjari, Punk

Ceperinate

Vasantdada Sugar Institu Environmental Sciences

Department of

Manjari (Bk.), Tal. Havel

Vasantdada Sugar Institute Environmental Sciences

Manjari (8k.), Pune - 412 307, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India



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

Date: 03/20/2019

Place: Manjari, Pune

Coordination

Environmental Science Bepartment el

Bepartment of

Manjari (Bk.), Tal. Mayeli

Dist. Pune - 412 30/

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Vasantdada Sugar Institute

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India



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

Date: 03/10/2019

Place: Manjari, Pune.

Coordinato

Bepartment of

Manjari (8k.), Pune - 412 307, India Environmental Sciences



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Vasarkunda Sugar Institute

Manjari (Bk.), Tal. Haveli 412 307

Vasantdada Sugar Institute Maniari (Bk.), Pune - 412 307 India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India



# DEPARTMENTOFENVIRONMENTAL SCIENCES

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

Date: 03/10/2019

Place: Manjari, Pune.

Coordinator

Bepartment a

Environmental Sciences

Department of



/asantdadac Spagar Institute Principa

Manjari (Bk.), Tal. Haveli Dist. Pune - 412 507

Manjari (8k.), Pune - 412 307, Indi\_

Vasantdada Sugar Institute Maniari (Rk.) Puna - 412 307



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India





### Certificate

03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course This is to certify that Mr./Ms:/Mrs. JARANDE SOURABH DATTATRAY From USI

Bk. Tal. Haveli, Dist.Pune

Date: 03/10/2019

Place: Manjari, Pune.

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Department of

Environmental Sciences

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Vasantindip Sugar Institute Manjari (Bk.), Tal. Maveli Dist. Pune - 412 307

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Manjari (8k.), Pune - 412 307, India antdada Sugar Institute



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



### Certificate

03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari based on' ETP Operation& Maintenance' held between 03/09/2019 and This is to certify that Mr./Ms./Mrs. JAGTAP HARSHAL has actively participated and successfully completed with gradein the Add-on Course VILAS From VSI

Bk. Tal. Haveli, Dist.Pune Date: 03/10/2019

Place: Manjari, Pune.

Fasantdada Sugar Insurm Environmental Sciences Bepartment of

Manjari (8k.), Pune - 412 307, Inclu-

Bepartment of

/asantd&da Spa Manjari (Bk.), Tal. Havel Dist Pune - 412 307

Vasantdada Sugar Institute Marteri (8k.), Pune - 412 307, India, Environmental Sciences



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune.

Coordinato

Bepartment of

Environmental Sciences and Sugar Institute

**Environmental Sciences Bepartment of** 

Vasapfidapja Sugar Institute Manjari (Bk.), Tal. Maveli Principal

Dist. Pune - 412 307

Manjari (8k.), Pune - 412 307, India,

Vasantdada Sugar Institute Mariani (Bk.), Pune - 412 307, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



#### Certificate

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

Date: 08/10/2019

Place: Manjari, Pure

Cookedinator

Separtment of

Environmental Scien

**Environmental Sciences** Department of

Principa

Vasantdada Sugar Institute Manjari (Bk.), Tal. Haveli,

Dist. Pune - 412 307

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 03/10/2019

Place: Manjari, Pune.

Coordinato

Department of

Manjari (8k.), Pune - 412 387, India Environmental Sciences

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Manjari (Bk.), Tal. Haveli

Manjari (8k.), Pune - 412 307, India:



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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03/10/2019, (30 hours) organized by Department of Environmental Sciences Manjari based on' ETP Operation& Maintenance' held between 03/09/2019 and has actively participated and successfully completed with gradein the Add-on Course This is to certify that Mr./Ms./Mrs. CHALWADI PARSHURAM NAGAPPA From USI

Bk. Tal. Haveli, Dist.Pune

Date: 03/19/2019

Place: Manjari, Pune.

Coordinator

Department of

Environmental Sciences

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Bepartment of

Bepartment of Environmental Sciences

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Principa Vasantdada Sugar Vasantdada Sugar Manjan (BK.), Tal.

Manjan (BK.), Tal. Haveli,
Dist. Pune - 412 307

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

Vasantdada Sugar Institute Manjari (Bk.), Pune - 412 307, India.





Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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

Date: 03/10/2019

Place: Manjari, Pune.

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Dist. Pune - 412 307

Manjari (8k.), Pune - 412 387, India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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

Date: 08/10/2019

Place: Manjari, Rune.

Beparenginator

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Manjari (Bk.), Tal. Maveli, Dist. Pune - 412 507

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



#### Certificate

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

Date: 03/20/2019

Place: Manjari, Rune.

Dep Coordinator

Environmental Sciences antdada Sugar Institute

Environmental Sciences Department 9

Manjari (Bk.), Tal. Maveli Dist. Pune - 412 307

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Vasantdada Sugar Institute Maniari (Bk.), Pune - 412 397, India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



#### Certificate

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

Date: 03/20/2019

Place: Manjari, Pur

Head

Vasantdada Sugar Institute **Environmental Sciences Equindinator** 

Department of

Vasantdada Sugar Institute **Environmental Sciences** 

Manjari (Bk.), Tal. Haveli nda chagair institute



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



#### Certificate

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

Date: 03/00/2019

Place: Manjari, Rune.

Environmental Sciences 30 (SK.), Pune - 412 307, India selada Sugar Institute Dep CARAIT MATO

Head,

Department of

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Manjari (Bk.), Tal. Mayeli

Manjari (8k.), Pune - 412 307, India.



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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Date: 03/10/2019

Place: Manjari, Pune.

Coordinator Bepartment of

Environmental Sciences

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Manjari (Bk.), Tal. Maveli, Dist. Pune - 412 307

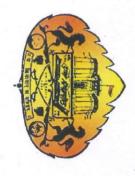
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Santidada Sugar Institute



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Date: 03/100/2019

Place: Manjari, Pune

Coordinator

scantdada Sugar institut **Environmental Sciences** 

Bepartment of



Vasantdada Sugar Institute Manjaf (BREID) 4 H.

Dist. Pune - 412 307

Manjari (8k.), Pune - 412 307, India

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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

Date: 08/10/2019

Place: Manjari, Mune.

Environmental Sciences in Sugar Institute



**Environmental Sciences** Department of

Vasantdada Sugar Institute Manjari (Bikn); ipal Mayeli Dist. Pune - 412 507

Manjari (8k.), Pune - 412 381, India

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Place: Manjari, Pune.

ocentdoda Sugar Institute Environmental Sciences

**Environmental Sciences** Department of

Vasantdada Sugar Institute Manjar Principali. Haveli Dist. Pune - 412 507

M 10 ( 10 ( 10 ta)), Pune - 412 307, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

# DEPARTMENTOFENVIRONMENTAL SCIENCES



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Date: 03/100/2019

Place: Manjari, Pune.

Coordinato

**Environmental Sciences** 



Santdada Sugar Institute Manjari (Bk.), Tal. Maveli, Principal

Dist. Pune - 412 307

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Date: 02/10/2019

Place: Manjari, Pune

Bepartment o

Environmental Sciences

**Environmental Sciences** Department of



Anda; Sugar Institute Bri (BK), Tal. Mayeli, Principa

Dist. Pune - 412 307

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Macjari (8k.), Pune - 412 307, India.



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Date: 03/10/120/9

Place: Manjari, Pune.

Anantaada Sugar Institute Environmental Sciences

Manjari (Bk.), Pune - 412 387, Inch.

Vasantoada Sugar Instibute Environmental Sciences Depart Head of



Vasantdada Sugar Institute Manjari (BK.), Pal Maveli, Dist. Pune - 412 507 Principal

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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Date: 03/10/12019

Place: Manjari Pune.

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Environmental Sciences

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Date: 02 | 20 | 20 | 9

Place: Manjari, Pune.

Manjari (Bk.), Pune - 412 387, India Environmental Sciences

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Vasantdada Sugar institute Manjarp Akcipal Mavel Dist. Pune - 412 507 Principal

Environmental Sciences

Margari (Bk.), Pune - 412 387, India



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Date: 03/10/2019

Place: Manjari, Pune.

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Environmental Sciences

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Dist. Pune - 412 507

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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Date: 03/10/2019

Place: Manjari, Pune.

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



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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Date: 03/10/2019

Place: Manjari, Pune

Environmental Sciences

vironmental Sciences Department of

Vasantdada Sugar Institute Principa

Manjarippipatal Mayel Dist. Pune - 412 307

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

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India

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

Date: 03/10/2019

Place: Manjari, Pule

Codrament Department

Environmental Sciences

Environmental Sciences Department of

/asantdada Sugar Institute Manjari Peknçinal Maveli rincipa

Dist. Pune - 412 307

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Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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Social ada Sugar I Environmental Sciences Date: 03/10/20/9 Place: Manjari, Pune Beo Consdinator muironmental Sciences .. (Bk.), Pune - 412 367, India.

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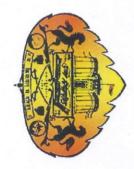


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Date: 03/10/20/9

Place: Manjari Pune.

Cearbinator

Bepartment of Environmental Sciences assintanda Sugar Instituto Manjari (8k.), Pune - 412 387, India.

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

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Dist Pune - 412 307



Manjari Bk. Tal. Haveli, Dist. Pune, Maharashtra, India.

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Date: 03/10/20/9

Place: Manjari, Rune.

Wanjari (8k.), Pune - 412 387, India-Environmental Sciences

Department of

Environmental Sciences

Vasantdada Sugar institute Manjari (Bk.), Tal. Haveli,

Dist. Pune - 412 307

Vasantdada Sugar Institut Manjari (Bk.), Pune - 412 307, India.



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Date: 03/10/2019

Place: Manjari, Pune.

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Vasantdada Sugar Institu Department of

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

Environmental Sciences Department of

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