

Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S  $_{\odot}$ 

# SMT. KASHIBAI NAVALE COLLEGE OF ENGINEERING.

Approved by AICTE Vide F. No. 740-89-004 (NDEGAPR/ET/2000) & Affiliated to Savitribai Phule Pune University ID. No. PU/PN/ENGG/155/2001 Accrediated by NBA & NACC

Recognized by UGC under Section 2 (f) & 12 (B) of UGC Act 1956

S. No. 44/1, Vadgaon (Budruk), Off Sinhgad Road, Pune - 411041.

• Tel: +9120-24354938, 24100295/293 • Tele Fax: 020-24354938 • Email: principal.skncoe@sinhgad.edu • Website: www.sinhgad.edu

PROF. M. N. NAVALE	DR. (MRS.) SUNANDA M. NAVALE	DR. A. V. DESHPANDE
M.E. (Elect.), MIE, MBA,	B. A., M. P. M., Ph.D.	B. E., M. E. (Computer Engg.), Ph. I
FOUNDER - PRESIDENT	FOUNDER - SECRETARY	PRINCIPAL
1 ODINDER - I REGIDERT		

Date: 11/05/2022

To, The Director National Assessment and Accreditation Council (NAAC) P.O. Box No. 1075, Nagarbhavi, Bengaluru- 560 072

**Subject:** Proofs of Metric No. 7.1.4 **Reference:**Metric No. 7.1.4: Water conservation facilities available in the Institution:

Dear sir/Madam,

As per said subject kindly find below the index of File Descriptions/Documents for your valuable information.

Sr.No.	Water conservation facilities available in the Institution:	YES O	RNO
1	Waste water recycling	YES	
2	Borewell/Open well recharge	NO	×
3	Construction of tanks and bunds	NO	×
4	Maintenance of water bodies and distribution system in the campus	YES	
5	Rain water harvesting	YES	

Thanking You,



Principal (Dr. A. V. Deshpande)

Principal Smt. Kashibai Navala College of Engineering Vadgoan(Bk.), Pune - 41.

# Details of Supporting documents of Indexing is as follows:

Sr. No.	Description of Documents Available	Page No.
1	Waste water recycling&Maintenance of water bodies and distribution system in the campus	4-13
2	Rain water harvesting	13-23

Thanking You,



Principal

(Dr. A. V. Deshpande)

Principal Smt. Kashibai Navale College of Engineering Vadgoan(Bk.), Pune - 41.

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Sr.No.	Water conservation facilities available in the	YES OR NO		
1	Rain water harvesting	YES	٧	
2	Borewell/Open well recharge	NO	×	
3	Construction of tanks and bunds	NO	×	
4	Waste water recycling	YES	<u>۷</u>	
5	Maintenance of water bodies and distribution system in the campus	YES	٧	
6	Rain water harvesting	21-09-2019 to 23-09-2019	NSS unit of Smt. Kashibai Navale college of Engineering, Pune took an initiative and implemented idea of rainwater harvesting in STES (Sinhgad technical education society) campus near Shivneri boys hostel.	

In PRINCIPAL Smt. Kashibai Navale College of Engineering Vadgaon(Bk.), Pune-44.

nstitutes N. NAVALE CT.) MIE., MBA. R PRESIDENT P.O. No (17) M/s Saikrupa En Off Add Punkut Yerwada , Pune- Sub:- Rain Hi Ref;- Your qu Dear Sir, This has refer as per details S.No Desc 1 Trim 2 Prov 3 ¼" H 4 6" P 5 6" F 6 6" I 7 6" I 8 PC 9 Lat 10 Tra To	terprises Payatha 411006 arvesting Work at Boys Hostel totation No 801 dated 17/10/20J ence to your above- mentioned qu given below: - ription ax breaking Work iding crush sand Chadi VC pipe VC L Bend VC T Bend PVC T Bend PVC Socket	area – Ambegaon 1 : stes@sinhgad.edu 1 : s	2 (Pune) dl. 12/ d. Pune - 411 041 Nebsite : www.sin DR. (MRS.) Si B.A., MPM, Ph. FOUNDER SE	(8/93) Ingad edu UNANDA M. NAVALE D. ICRETARY 25/11/2019 Vmeri Hostel
N. NAVALE CT.) MIE., MBA. R PRESIDENT P.O. No (17/C) M/s Saikrupa Em Off Add Punkut Yerwada , Pune- Sub:- Rain H: Ref;- Your qu Dear Sir, This has refer as per details S.No Desc 1 Trim 2 Prov 3 ½" H 4 6" P 5 6" F 6 6" F 7 6" I 8 PC 9 Lah 10 Tra To (Rs Fifty T Terms and	terprises Payatha 411006 arvesting Work at Boys Hostel totation No 801 dated 17/10/20J ence to your above- mentioned qu given below: - ription ax breaking Work iding crush sand Chadi VC pipe VC L Bend VC T Bend PVC T Bend PVC Socket	19 uotation. We are ple Quantity 220 Sq Ft 1.5 Brass 01 Brass 70 Rft 06 Nos 03 Nos	B.A., MPM, Ph. FOUNDER SE campus- Shiv eased to place Rate(Rs) 50.00 3,300.00 3,300.00 110.00 350.00	D. ECRETARY 25/11/2019 <u>vneri Hostel</u> an order for the items <u>Amount(Rs.)</u> 11,000.00 4,950.00 3,300.00 7,700.00 2,100.00
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Ref;- Your queDear Sir, This has refer as per detailsS.NoDesc1Trim2Prov334" H46" P56" H76" H76" H76" H76" H76" T8PC9Lab10TraToToCRs Fifty T	notation No 801 dated 17/10/201 ence to your above- mentioned que given below: - ription ax breaking Work iding crush sand Chadi VC pipe VC L Bend VC T Bend 2VC T Bend 2VC Socket	19 uotation. We are ple Quantity 220 Sq Ft 1.5 Brass 01 Brass 70 Rft 06 Nos 03 Nos	Rate(Rs)        50.00        3,300.00        110.00        350.00	an order for the items        Amount(Rs.)        11,000.00      4,950.00        3,300.00      7,700.00        2,100.00      -
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1      Trim        2      Prov        3      ¼" H        4      6" P        5      6" H        6      6" H        7      6" H        8      PC        9      Lat        10      Tra        To      (Rs Fifty 7)        Terms and      Terms and	ax breaking Work iding crush sand Chadi VC pipe VC L Bend VC T Bend PVC Socket	220 Sq Ft 1.5 Brass 01 Brass 70 Rft 06 Nos 03 Nos	<sup>*</sup> 50.00 3,300.00 3,300.00 110.00 350.00	11,000.00 4,950.00 3,300.00 7,700.00 2,100.00
1      Trim        2      Prov        3      ¼" H        4      6" P        5      6" H        6      6" H        7      6" H        8      PC        9      Lat        10      Tra        To      (Rs Fifty 7)        Terms and      Terms and	ax breaking Work iding crush sand Chadi VC pipe VC L Bend VC T Bend PVC Socket	1.5 Brass        01 Brass        70 Rft        06 Nos        03 Nos	3,300.00 3,300.00 110.00 350.00	4,950.00 3,300.00 7,700.00 2,100.00
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5      6" F        6      6" I        7      6" I        8      PC        9      Lat        10      Tra        To      (Rs Fifty T)        Terms and	VC L Bend VC T Bend VC Socket	06 Nos 03 Nos	350.00	2,100.00
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North Contract Contractor	wo Thousand Eight Hundred F	orty only)		
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2.Payment	: Immediately after completio	n of work .		
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3.Billing				
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Page 4 of 23

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Date .- 03.01.2017

P.U.NO.158 10-17

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10. M's. Logan Hydrosystems Pvt. Ltd. 1/22. Sakalnagar, Sr. no. 82A/83A. Baner Road, Aundh, Pune-411 007.

Sab :- Revamping of 500 KLD STP for STES at Vadgaon, Pune.

you with the th

This has reference to your quotation No. LHPL/STP-22/006 dated 18.02.2016 and discussions you had with our Project Manager and we are pleased to place an order for the above-mentioned work as per details

given Sr.	here below. Description of Items	Unit	Qty.	Rate In (Rs.)	Amount In (Rs.)
No.		No.	1	15,000.00	15,000.00
1	Bar Screen	Nos.	1 2	39,000.00	78,000.00
2	Sewage Transfer Pump	Nos.	2	70,000.00	70,000.00
3	Air blower Repairing	Lot	17	2,10,000.00	2,10,000.00
4	Air Diffuser	Lot	1	80,000.00	80,000.00
5	UPVC GRID (Collection tank & Aeration tank)	Lot	1	1,50,000.00	1,50,000.00
6	Air Blower (MS Piping)	Lot	1	75,000.00	75,000.00
7	Sewage Transfer pump (MS Piping)	No.	+ 1	50,000.00	50,000.00
8	Control Panel Repairing				7,28,000.00
	Total Amount				36,400.00
	Less Discount 5%			+	6,91,600.00
1	Net Amount	1		I	

(Rupces Six lacs Ninety One Thousand Six Hundred Only.)

Terms and Conditions : Inclusive of all taxes except VAT 13.5% payable extra..

1. Price

2. Delivery

: Above price is inclusive of transportation, loading, unloading and 3. Transportation

: Immediate.

- Installation.
- : One year from the date of delivery or Installation, 4. Warrantee
- :100% advance with Purchase Order. Bill should be submitted immediately 5. Payment after completion of work.

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Vadgaon(Bk.)

Pune-41.

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Thanking you,

Yours faithfully 101

M.N. NAVALE PRESIDENT Encl : Appendix 'A'

Kushibai Navale llege of Engineering

dgaon(Bk.), Pune-41.

Page 5 of 23

#### 7.1.4

#### ~ APPENDIX . V

Technical details of new fanical equipments .

Location	A. Screen & Inlet Chamber
Application	Screening of floatable matter
Туре	Coarse & Fine
MOC	MSEP
Size of Bar	10mm, Inclination 45°C
Size of spacing	10mm &20mm
Make	Logan

#### 2.

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Sewage Lift Pump	Topli
Location	After Sewage Collection Tank
Application	To feed Sewage water to FAB Reactor
Type	Monoblock
Type Capacity	23m <sup>3</sup> /hr
Head	10m
MOC	CI
Motor HP	3HP
Make	Kirloskar/Equivalent

#### ~ .. 3.

La di Samera Collection Tank
In the Sewage Collection Tank
For providing air for mixing to the Sewage Collection
Tank
PVC Grid

## . 4. Air Blower Repairing- 2Nos.

## 5. Aeration Grid -1 Lot

Location	In Sewage Collection Tank & FAB Reactor
	For providing air in
Application	MEEDIGI/PVC
MOC	Complete with piping valves and other accessories
Accessories	Logan
Make	[130 <u>5</u>

## 6. Air Diffusers- 1 Lot

Air Diffusers- 1 Dot	In the FAB Reactor
Location	For providing air to the FAB Reactor
Application	For providing an to the Tree Att
	Fine Membrane
Type	1 Lot
Quantity	1000mm
Length MOC	EPDM

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Pune

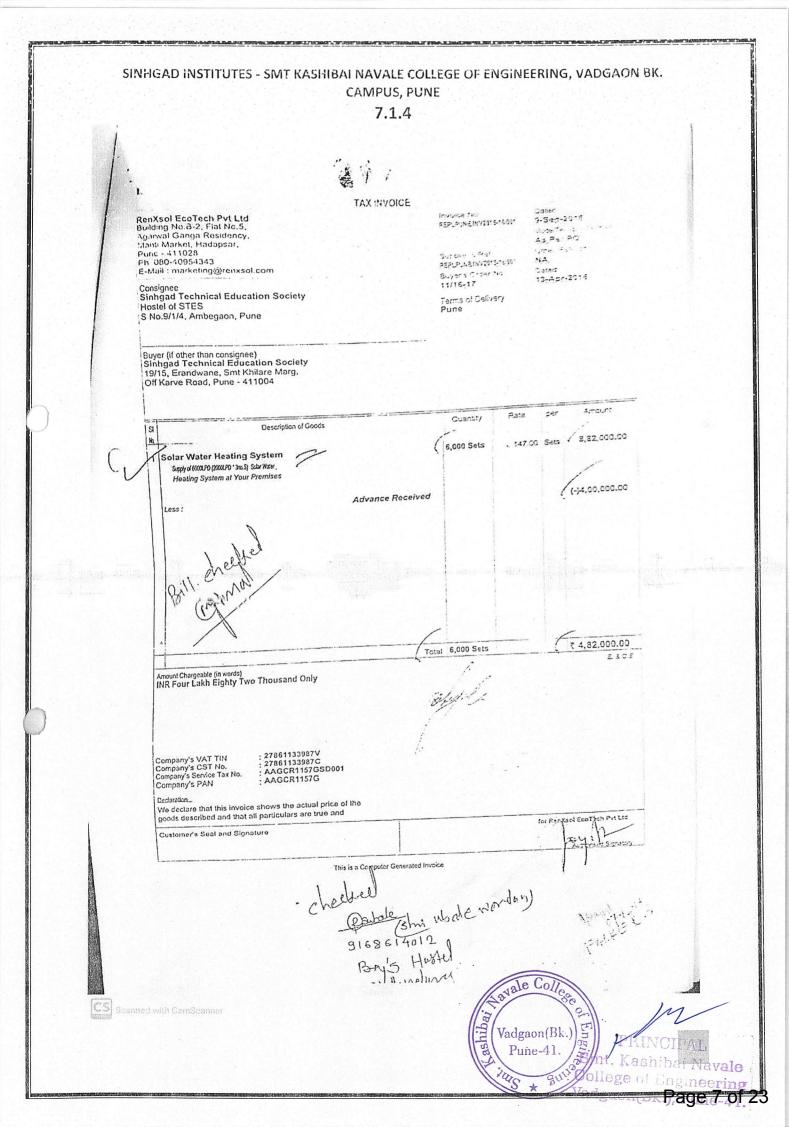
PRESIDENT MINIGAD TECHNICAL EDUCATION SOCIETY, FUNE - 411 041



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Engineering Pune-41.

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P.O.No. 01 121-22

Date :- 06.04.2020

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Vadgaon(Bk Pune-41

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To, M/s. RP Enterprises J/SEI-12/3, 'J' Block, Near Indrayani Nagar Corner, Opp. Mega fiber, MIDC, Bhosari, Pune- 411 026.

Sub :- Annual Maintenance Contract for Operation and Maintenance of 275 KLD Sewage Treatment Plant at STES Campus Vadgaon.

Thanking you,

Yours faithfully

M.N. NAVALE PRESIDENT Encl: Annexure - I

This has reference to your quotation no. RPE/2021/014 dated 05.04.2021 and subsequent discussion you had with our Project Manager and we have pleasure in placing the Work Order for the above mentioned works at the rates mentioned in Bill of Quantities- Annexure-I

The undersigned, agrees with the estimated cost of Rs. 42,000.00 (Rupees Forty Two. Thousand only.) as per Annexure - I enclosed. However, the payment shall be made as per the actual measurements jointly recorded and accepted.

Unit rate quoted is inclusive of all taxes and duties and no extra payment is allowable on account of any tax / duties.

Please return copy of this Work order with Annexure I duly signed in token of your acceptance.

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Annexure-1

#### **Bill of Quantities**

AMC Period - 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021

Name of work- Annual Maintenance Contract for Operation and Maintenance of 275 KLD Sewage Treatment Plant at STES Campus Vadgaon.

1. Scope:

a) Skilled Manpower shall be employed round clock i.e. for 24 hrs for 365 days to

operate the plant for required number of hrs.

- b) You shall take care of routine maintenance of the equipment which include and limited to oil replacement in the blower, greasing of pump, belt replacement excluding major maintenance.
- c) One of your Senior Engineer/Environmental Engineer shall visit the plant weekly to ensure proper maintenance and operation of the plant to ensure the efficiency to the same, he will be reporting to site engineer.
- d) Preparation of STP related documents i.e. Log Sheets, Chemical Consumption Record, Energy Meter and Water Meter records etc.
- e) Providing Safety gadgets such as Uniform, Safety shoes, Mask, Goggles, Hand Gloves etc. to the workmen.
- f) Providing Technical support during Audit and MPCB related Visits.
- g) Water test report to be submitted yearly twice.

#### 2. Outside the Scope :

a) Supply of Chemicals and Spares.

b) All spare required for replacement with normal wear and tear.

- c) Supply of Fresh water line, Uninterrupted power supply.
- d) Sludge Collection and disposal from the Sludge pump.

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#### :2:

3. <u>Price</u>: The price for Operation and Maintenance shall be Rs. 42,000.00 per month including

GST. C

4. <u>Payment</u>: Payment shall be made within 15 days on submission of bill duly certified by our Site

Engineer.

- 5. <u>Termination</u>: By giving one month notice in writing by either party.
- 6. <u>Compensation</u>: If the plant is not run the required number of hrs. on any day the compensation shall be recovered at the Rate of Rs. 1500/- per day.
- <u>General:</u>
  Any other condition can be finalized by mutual agreement.
  Daily record to be maintained in Register.

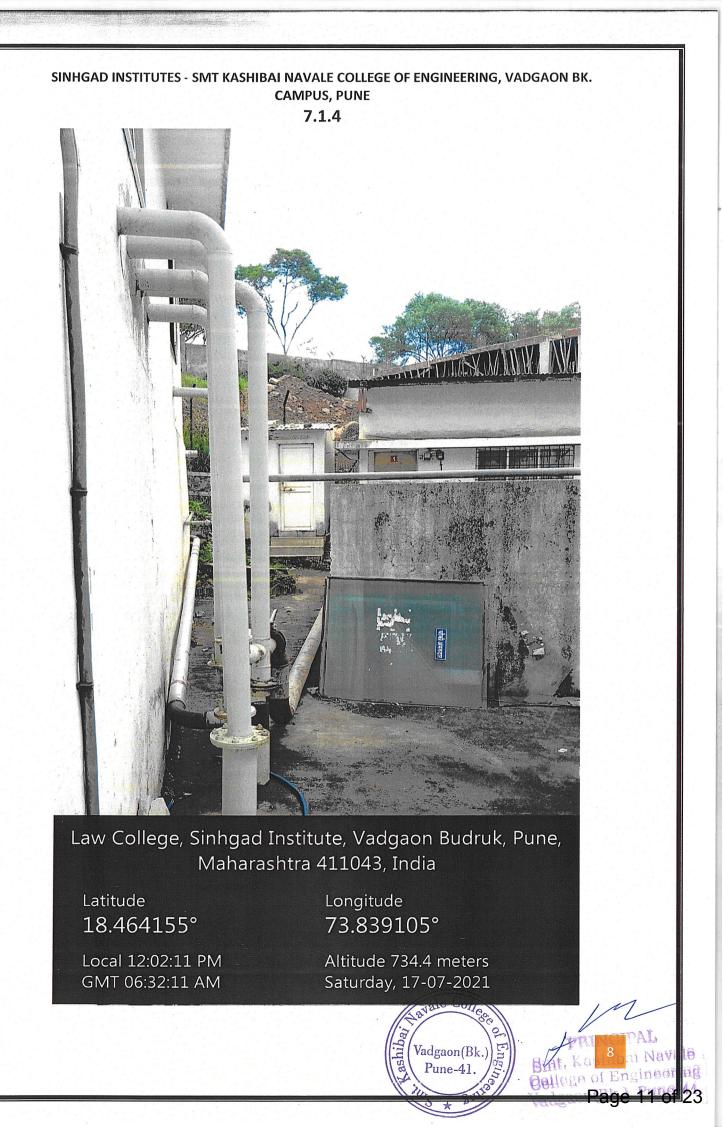
Note: If work not found satisfactory, P.O. will be cancelled.



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vale Col Vadgaon(Bk Pune-41

Contractor



7.1.4



Law College, Sinhgad Institute, Vadgaon Budruk, Pune, Maharashtra 411043, India

Latitude 18.46425°

Local 09:03:26 AM GMT 03:33:26 AM Longitude 73.838546666666666°

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Vadgaon(Bk Pune-41.

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Altitude 639 meters Friday, 16-07-2021



Smt. Kashibai Navale College of Engineering, Pune-41 National Service Scheme (NSS) 2019-2020

# **RAINWATER HARVESTING ACTIVITY**

Rainwater harvesting is the accumulation and storage of rainwater for reuse on-sites, rather than allowing it to run off. It can be collected from rivers or roofs and in many places, the water is redirected to a deep pit or a reservoir with a percolation.

With this thought NSS unit of Smt. Kashibai Navale college of Engineering, Pune took an initiative and implemented idea of rainwater harvesting in STES (Sinhgad technical education society) campus near Shivneri boys hostel. All the permissions needed for the activity were done by volunteers. On 21<sup>st</sup> September there was inauguration ceremony and vice-principal of SKNCOE Dr. K. R. Borole was the chief guest along with NSS program officer Mr. S. P. Pingat and other staff as well.

From 22<sup>nd</sup> September (day 2) the work started with full of enthusiasm. There were three slots of two hours each in all and the volunteers were divided in different slots from 9 am to 4pm. Dimensions of a dig was 14 feet in length, 7 feet width and 7 feet depth. All the equipment's were provided.



7.1.4



#### Volunteers doing Rainwater Harvesting Activity

This hard work based activity was more a plumbing job than a technical job, as all the outlets from the building, mess, terrace are connected through a pipe to an underground tank that stores water. The activity ended successfully on 23<sup>rd</sup> September (day 3) 35 volunteers were present on day 2 and 42 volunteers on day3. The fund needed for activity was given from STES. Estimated cost was Rs. 52.300/-. The chief guest appreciated NSS unit for their effective involvement. In this way under the guidance of NSS SKNCOE program officer Prof. S. P. Pingat Sir NSS SKNCOE achieved the motto 'NOT ME BUT YOU'. This harvested water can also be used as drinking water, long term storage and for the purpose such as groundwater recharge. Rainwater



7.1.4

harvesting is one of the simplest and oldest methods of self-supply of water for household usually financed by the user. Thus, the rainwater harvesting activity was great success and inspired others to serve the humanity.



Principal Sir, Prof. Pingat Sir and Prof. Ranware Sir doing Bhumi Pujan at the Rainwater Harvesting Site along with NSS Volunteers





Smt. Kashibai Navale College of Engineering, Pune-41 National Service Scheme (NSS) 2019-2020

## **RAINWATER HARVESTING ACTIVITY**

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#### Volunteers doing Rainwater Harvesting Activity

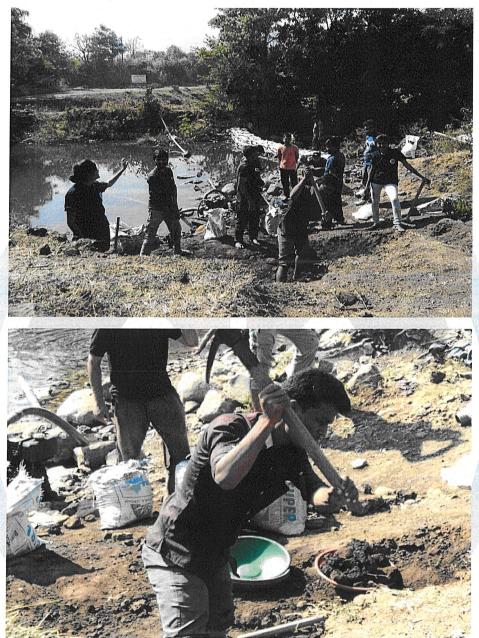
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Principal Sir, Prof. Pingat Sir and Prof. Ranware Sir doing Bhumi Pujan at the Rainwater Harvesting Site along with NSS Volunteers







The most important activity which was expected of us as NSS volunteers was "Shramdaan". We decided that it was most efficient to conduct in the wee hours of the day when we would be no hindrance and our efficiency would be at its best when it was one of the first activities of the day. So accordingly every morning was allotted for some sort of physical work which would in turn be useful to the village and also be a new experience for the students of the unit in terms of motor skills and endurance.

Thus we decided on three major activities for this purpose. The first was to build a "Bandhara", a small Dam structure over a nearby stream to stop the water flow to some extent so that it may help to raise the water table in the area. This was also done with this years NSS Resolution concerning water conservation. As this was the primary project decided, a majority of our time there was allocated to this work. We managed to build a structure which was around 2ft high, 2ft wide and 55 ft in length from bank to bank.



Page 19 of 23

STATE CHNICAL EDUCATION SOCIETY

Sinhgad Institutes

Sinhgad Technical Education Society's Smt. Kashibai Navale College of Engineering Department of Mechanical Engineering Vadgaon Bk. Pune 411041

# NOTICE

19.02.2020

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All Students of Mechanical Dept. of Smt. Kashibai Navale College of Engineering, Vadgaon Bk, Pune are hereby informed that, "Sinhgad Fort Cleanliness Drive" will be organized by Mechanical Dept. of SKNCOE Pune at on 23/02/2020. All NSS Mentors are hereby requested to be present at 8.00 am.

Venue- Sinhagad Fort

Prof. G. B. Firme Coordinator



Signed By

Dr. N. P. Sherje Head of Departmen Associate Professor & Head Dept. of Mechanical Engg. Smt. Kashibai Navale College of Engineering, Pune-41.

> PRINCIPAL Smt. Kashibai Navale College Page: 20 of 23 Vadgaon(Bk.), Pune-41.



### Sinhgad Institutes

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Sr. No	Particulars	Description
1	Institute – Department	SKNCOE-Mechanical Engg. Dept.
2	Academic Year	A.Y. 2019 – 2020
3	Batch or Participants	TE, BE Mechanical Engg Dept
4	Name of Event	Sinhgad Fort Cleanliness Drive
5	Date of Event	23.02.2020
6	Time of Event	10.00 AM
7	Venue	Sinhgad Fort Pune
8	Topic or Theme	NA
9	Faculty Coordinator	Prof. Firme Sir
10	Name & Profile of Guest	NA
11	Number of Participants	22

## Supporting Photographs of Guest or Participant



Prof. G. B. Firme Coordinator



**Dr. N.P. Sherje** Head of Department

Associate Professor & Head Dept. of Mechanical Engg. Smt. Kashibai Navale College of Engineering, Pune-41.



**Sinhgad Institutes** 

# NOTICE

18.09.2019

All Students of Mechanical Engg. Dept. of Smt. Kashibai Navale College of Engineering, Vadgaon Bk, Pune are hereby informed that, "**Rainwater Harvesting**" activity will be organized by NSS Team of SKNCOE from 21/09/2019 to 23/09/2019. All Coordinates are hereby requested to be present at 10.00 am.

Venue- Ghatghar

Prof. S. M. Jadhav Coordinator



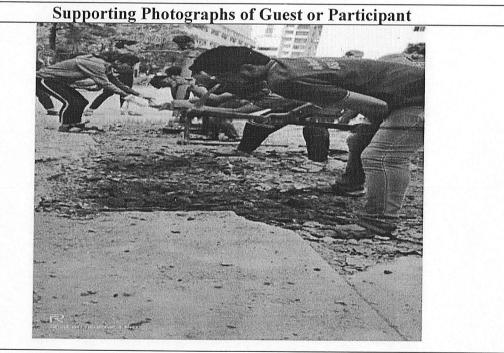
Signed By

Dr. N. P. Sherje Head of Department Associate Professor & Head Dept. of Mechanical Engg. Sm1. Kashibai Navale College of Engineering, Pune-41.



### **Sinhgad Institutes**

Sr. No	Particulars	Description
1	Institute – Department	SKNCOE-Mechanical Engg. Dept.
2	Academic Year	A.Y. 2019 – 2020
3	Batch or Participants	TE, BE Mechanical Engg Dept
4	Name of Event	Rainwater Harvesting
5	Date of Event	21.09.2019 to 23.09.2019
6	Time of Event	10.00 AM
7	Venue	Pune District
8	Topic or Theme	NA
9	Faculty Coordinator	NSS Team
10	Name & Profile of Guest	NA
11	Number of Participants	52



1142 Prof. G. B. Firme

Coordinator





Dr. N.P. Sherje Associate Pold Spathlead Dept of Mechanical Engg. Smt. Kashibai Navale College of Engineering, Pune-41.



Sinhgad Institutes

# NOTICE

14.08.2018

All Students of Mechanical Dept. of Smt. Kashibai Navale College of Engineering, Vadgaon Bk, Pune are hereby informed that, "Sinhgad Fort Cleanliness Drive" will be organized by Mechanical Dept. of SKNCOE Pune at on 19/08/2018. All NSS Mentors are hereby requested to be present at 8.00 am.

Venue- Sinhgad Fort

Prof. S. S. Waybase Coordinator



Signed By

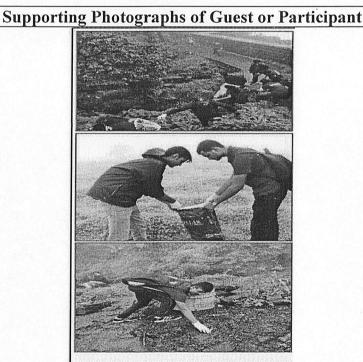
Dr. N. P. Sherje Head of Department

Associate Professor & Head Dept. of Mechanical Engg. Spt. Kashibai Navale College of Engineering, Pune-41.



### **Sinhgad Institutes**

Sr. No	Particulars	Description
1	Institute – Department	SKNCOE-Mechanical Engg. Dept.
2	Academic Year	A.Y. 2018 – 2019
3	Batch or Participants	TE, BE Mechanical Engg Dept
4	Name of Event	Sinhgad Fort Cleanliness Drive
5	Date of Event	19.08.2018
6	Time of Event	10.00 AM
7	Venue	Sinhgad Fort Pune
8	Topic or Theme	NA
9	Faculty Coordinator	Prof. Firme Sir
10	Name & Profile of Guest	NA
11	Number of Participants	76



Prof. S.S.waybase Coordinator



Dr. N.P. Sherje Head of Department Associate Professor & Head Dept. of Mechanical Engg. Smt. Kashibai Navale College of Engineering, Pune-41.