



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥
Dr. Vitthalrao Vikhe Patil Foundation's

Dr. Vitthalrao Vikhe Patil College of Engineering Ahmednagar



DTE College Code: EN-5161

Department of Mechanical Engineering

Report on Industrial Visit to Paithan Hydro Power Station, Jayakwadi Dam

Objective of Industrial Visit:

The main objective behind this industrial visit was to know the procedure of power generation through Hydro Power. Moreover, it gives exposure from academic point of view. Main aim of industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about the turbines.

Details of Industrial Visit are as below:

Name: Paithan Hydro Power Station, Jayakwadi Dam

Address:- Jayakwadi Dam, Paithan, Auranagabad

Contact Person: Executive Engineer, 02431-224699

Date of Visit: 17th, 18th & 19th September 2018

Faculty Name: Prof. P.A.Narwade, Prof. S.G.Kotkar, Prof.K.S.Kadam

Outcome of Visit: Students learned the process of power generation from Hydro power plant.

HOD

Department of Mechanical Engg.

Dr. V.V.P. College of Engg.
Ahmednagar-431111

Principal

Dr. Vitthalrao Vikhe Patil college of Engg.

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College of Engineering
Ahmednagar



Description of the Visit:


An Industrial Visit to Paithan Hydro Power Station was organized for T.E. Mechanical engineering students. A hydroelectric power plant of 12 MW capacity is installed on the right bank of the river. With minor external modifications to the exiting reversible hydro turbine unit, most of the dead storage water can be put to use during the drought years by using the hydro power plant for pumping water into the nearby right canal. Water would be released downstream into the tail pond over the spillway. The water used for power generation is pumped back to the main reservoir from the tail pond using reversible hydro turbine. Vertical axis Francis Turbine is used to generate power. Through this industrial visit students got awareness about power plant.

Executive Engineer conducted a seminar session about 1 hour which cover the following details.

- 1) Concept of Vertical axis Francis Turbine
- 2) Concept of Generator
- 3) Capacity of Power plant

The students of T.E. Mechanical and staff members have enjoyed the technical session at the Power plant. The company person appreciated our students after the technical session.

Students were well mannered and disciplined throughout the visit and no injury or anything unpleasant thing happened during industrial visit.


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Dept. of Mechanical Engineering
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॥ महि खानेन कदुशं पवित्रमिह विद्यते ॥



DR. VITHALRAO VIKHE PATIL FOUNDATION'S
**DR. VITHALRAO VIKHE PATIL
COLLEGE OF ENGINEERING**

Vedgaon Gupta, Vilad Ghat, Post - M.I.D.C., Ahmednagar - 414 111 (M.S.) INDIA.
Approved by A.I.C.T.E., New Delhi & Govt. of Maharashtra
Affiliated to University of Pune (ID. No. Pu/AN/Engg/027/(1983))



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The National Board of Accreditation (NBA), New Delhi has accredited U.G. Courses in Civil, Mechanical,
Electronics & Telecommunication and Instrumentation & Control Engineering
Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Ref.No. CEA/Mech/Ind. visit/2018/ 2488

Date:- 21/09/2018

To,
The Executive Engineer,
Hydro Power Station, Jayakwadi Dam,
Paithan (02431 224699)
E-Mail:- paithanhydro@gmail.com

Sub.: Industrial visit of T.E. Mechanical students

Sir/Madam,

Dr. Vithalrao Vikhe Patil College of Engineering was established in 1983 and is approved by AICTE New Delhi, Govt. of Maharashtra and affiliated to University of Pune. The college provides 4 years Engineering degree course in five disciplines i.e. Civil, Mechanical, Electrical, Electronics & Telecomm. and Information Technology, in which industrial visit is a part of syllabus as per University curriculum.

We request you to grant permission for the power plant visit of 180 T.E. Mechanical Engg. students accompanied with 03 staff members. The visit may be scheduled for three days in three batches preferably on 17th, 18th and 19th Sept. 2018. It is assured that there will be no disturbance in your work schedule due to visit of our students. You are requested to grant permission on above dates for this visit.

Your cooperation in this matter will be highly appreciated.

Thanking you,

Yours sincerely

(Dr. P. Day P. Naik)
Principal

HOD & Professor
Dept. of Mechanical Engineering
Dr. V. P. College of Engineering
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8/23/2018

Gmail: Industrial Visit to Hydro Power Station



Prashant Narwade <narwadeprashant@gmail.com>

Industrial Visit to Hydro Power Station

Addl Executive Engineer Paithan Hydro Power Station <paithanhydro@gmail.com>
To: Prashant Narwade <narwadeprashant@gmail.com>

Thu, Aug 23, 2018 at 11:24 PM

With reference to above subject the permission for the technical visit of the students of your college, permission shall be granted subject to following procedure/conditions.

1. Date of visit 17.18 & 19.09.2018 at 14:30 hrs. (Reporting at 14:30 hrs sharply).
 2. You are instructed to pay fees of the amount (No. of students x Rs. 100/- plus GST @18% on total amount) i.e. Rs. 118 per student. This fees should be paid to the following account No. of SBI branch at Jintur, Dist Parbhani.
Account No. of Executive Engineer, MSPGCL, HPS, Yeldari.
Account No.62003512845 & IFSC code SBIN 0020019 through NEFT mode.
 3. All the students should be strictly come in uniform with I-cards.
 4. Students should deposit their bags/luggage/mobile at our security gate at their responsibility & will go through our security checking/scrutiny.
 5. Photography at Power station is strictly prohibited.
 6. Faculty member/s should control the students & ensure that students should not touch to any controls & auxiliaries of Power Station as there is LIVE ELECTRIC SUPPLY.
 7. The safety of all students is the only responsibility of the faculty members & they should Submit in writing on Rs. 100/- bond paper while coming to the visit.
- If any of the above condition is not fulfilled before coming to visit, your permission for the visit stands cancelled. Note that only 60 students per day are permitted.

(Quoted text hidden)

Addl. Executive Engineer,
Paithan Hydro Power Station,
12431 224699

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| | | |
|---------------------------|-----|-------------------------|
| Pethkar Saurav Ramkrishna | 120 | 120 Saurav |
| Sadhe Rishikesh Parmanu | 07 | 07 Sadhe |
| Seite Atul Vikas | 42 | 42 Seite |
| Jadhav saurabh Nanasaheb | 50 | 50 Jadhav |
| Kalkade Umesh Ramesh | 73 | 73 Kalkade |
| Kabade Balasaheb Ashok | 27 | 27 Kabade |
| Kakade Satish Kulkarni | 65 | 65 Kakade |
| Khairnar sandeep Nanaji | 76 | 76 Khairnar |
| Jadhav Tushar Vilas | 56 | 56 Jadhav |
| Goanji Suman Jyoti S. | 44 | 44 Goanji |
| Londe Suresh B. | 91 | 91 Londe |
| Karsajkar Sujit V. | 75 | 75 Karsajkar |
| Ghinge Ajit S. | 58 | 58 Ghinge |
| Ganesh Ganesh R. | 36 | 36 Ganesh |
| Gaiwad Kishor P. | 75 | 75 Gaiwad |
| Koli Akash Viharnappa | 88 | 88 Koli |
| Nande Mahesh A. | 45 | 45 Nande |
| Khemane Anurag L. | 86 | 86 Khemane |
| Shinde Rohit S. | 143 | 143 Shinde |
| Chaudhari Ganesha B. | 16 | 16 Chaudhari |
| Khedkar Mahesh S. | 83 | 83 Khedkar |
| Kale Akshay B. | 68 | 68 Kale |
| Katkar Shubham B. | 74 | 74 Katkar |
| Mamdhane Rohit B. | 101 | 101 Mamdhane |
| Mhase Rishikesh S. | 103 | 103 Mhase |
| Padak Saurabh G. | 110 | 110 Padak |
| Kharkar Pratik | 84 | 84 Kharkar |
| Anurag Amit S. | 04 | 04 Anurag |
| Mhase Akash N. | 104 | 104 Mhase |
| Bhosale Kunal A. | 12 | 12 Bhosale |

| Roll no | Name | Sign |
|---------|----------------------|----------------|
| 96 | Mahajan Vichwas V. | 96 |
| 27 | Dive Eknath K. | 27 |
| 37 | Gayake Gaurav G. | 37 |
| 25 | Bhamane Ratik P. | 25 |
| 31 | GABE Anurag N. | 31 |
| 80 | Khandod Aniket Purna | 80 |
| 09 | Bedse Jitendra S. | 09 |
| 01 | Aher Ganesh S. | 01 |
| 13 | Bobade Nandkishor M. | 13 |
| 28 | Dangare Jyoti H. | 28 |
| 113 | Palve Ganesh A. | 113 |
| 52 | Tadbur Krishna B. | 52 |
| 100 | Mamthare Vijay A. | 100 |
| 107 | Murkute Pravin A. | 107 |
| 49 | Jadhav Varbhav B. | 49 |
| 105 | Moin Sagarail N. | 105 |
| 78 | Khan Mahabubul Zakia | 78 |
| 77 | Khan Mohd. Anas F. | 77 |
| 116 | Pali Bhavesh | 116 |
| 118 | Chavanke Saurabh | 118 |
| 60 | Joshi Narendra J. | 60 |
| 14 | Baga Shubham S. | 14 |
| 102 | Nade Magesh Shiraji | 102 |
| 43 | Golekar Sandip M. | 43 |
| 48 | Hodgar Vaman R. | 48 |
| 40 | Girgung Sachin M. | 40 |
| 81 | Khandivad Mahendra | 81 |
| 85 | Khemkar Sachin | 85 |
| 05 | Athawale Kunal N. | 05 |
| 118 | Pawar Tejas R. | 118 |

- 134 Sayyed Atif MAWAZ
 82 Khairat vikas nanan
 164 Wondhakar Aniket.
 169 Vijay Chikane
 194 shakti Anil
 192 shakti Mujaffar.
 136 Shaikh Vasim A.
 1808 Gaikwad teishnar.
 185 Shetke Rajesh G.
 305 Sayyad Ajmat R.
 167 Zargad Yogesh A.
 174 Terabattin Omkar S.
 181 Baga Namrata M.
 159 Yaidya Pavan R.
 157 Thorat Sunil

- Salil
 Atif
 Zargad
 Shakti
 Mujaffar
 Shetke
 Sayyad
 Zargad
 Terabattin
 Namrata
 Yaidya
 Thorat



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|-----|--------------------------|-----------------------|
| 146 | Sonawane A. S. | Asst |
| 143 | Shirsath T. S. | Keshu |
| 156 | Thorat S. A. | Chhanna |
| 26 | Dige. Amkar. | Amkar Dige |
| 173 | Sawant. Chandrashekhara | Sawant |
| 124 | Pund Gannath K. | Pund |
| 176 | Waghmare Mahesh | Waghmare |
| 140 | Shelke Abhishek | Shelke |
| 128 | Sarkar. N. S. | Sarkar |
| 20 | Chintamani Gaurav | G. C. |
| 158 | Zavare. Dinesh | Dinesh |
| 172 | Shinde. Pravin | Shinde |
| 177 | Bhatkar Shubham Rajendra | Bhatkar |
| 159 | Todmal. Keshav A. | Todmal |
| 121 | Pund Shubham S. | Pund S. |
| 29 | Pund. Manoj S. | M. S. Pund |
| 149 | Sambre. Anoop M. | Sambre |
| 187 | Sathai. Krishna S. | Sathai |
| 130 | Sangale. Laxmi M. | Sangale |
| 185 | Patil. Krishna H. | Patil |
| 191 | Gore. Anish G. | Gore |
| 190 | Ganad. Ratnaw | Ganad |
| 03 | Audhale. Adinath | Audhale |
| 24 | Durkule. Pruthi. Raj | Durkule |
| 129 | Shelke. Anil K. | Shelke |
| 133 | Gadpate. Akshay | Gadpate |
| 182 | Pansare. Sagar M. | Pansare |
| 130 | Guge. Gaurav D. | Guge |
| | Patil. Babar Shrivijay | Patil |
| 123 | Wagh. Samarth | Wagh |

[Signature]

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