

Department: Mechanical Engineering & Electrical Engineering

Name of the Event: Report on Industrial visit at Uchi –Bassi Hydropower Station by Department of Mechanical Engineering and Department of Electrical Engineering, DAV University Jalandhar.

Date of the Event: 25th feb,2025

Name of the Resource Person (if applicable): SDO Rajinder Kumar and SDO Ravinder Singh

Teacher Coordinator: Er. Ved Raj Khullar, Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar

Dr. Ashutosh Bhadoria Assistant Professor, Department of Electrical Engineering, DAV University Jalandhar

Report:

Students of B Tech, Department of Mechanical Engineering, DAV University Jalandhar visit to Industrial visit at Uchi –Bassi Hydropower Station.

Department of Mechanical Engineering alongwith Electrical Engineering organized one-day Industrial Visit at HYDROPOWER STATION UCHI –BASSI on 25th February, 2025 for second and third year students to impart practical knowledge in the subject of Fluid Machinery as well as to have on the site experience of witnessing a hydro Power Station. More than 40 students were accompanied by two faculty members Dr. Ashutosh Bhadoria and Er. Ved Raj Khullar. UCHI-BASSI Hydropower station is one of the main Hydro Electric Station of Mukerian Hydel Project which generate the 58.5 MW power. Students observed that the power house is vertical salient pole umbrella types, has three number of KAPLAN turbine rotating in clockwise direction with 166.7 rpm (rating of each units is 19.5 MW), turbine output is 27300 HP, 06 numbers of blades. Discharge and head required for the maximum power generation is 3701 cusecs and 22.5 meters respectively. Also students were given detailed information about the power project i.e. it comprises of 4 Power Houses. Power House No. 1 & 2 have 6 Nos (3 at each Power House) machines of 15 MW capacity each whereas Power House No.3 & 4 have 6 Nos. (3 at each Power House) machines of 19.5 MW capacity each. The total generating capacity is 207 MW of all the 12 Nos. Machines. The Mukerian Hydel Project generates electrical energy at 11 KV and after stepping up to 132 KV, the same is transmitted to Grid system at 132 KV. Power House No. I, is connected with Power House No.II and Power House No.II with PH No. III and PH No. III with PH-IV through 132 KV double circuit lines carried on towers. There are four 132 KV circuit lines for evacuation of electric energy generated, two numbers at PH-II to Jalandhar (through 132 KV Bhogpur and 132 KV Tanda circuits) and other two at PH-IV through 132 KV Sri-Hargobindpur Circuit I&II. Students were also given exposure on operation of turbines and maintenance strategies to be followed.

A sincere thanks to SDO Rajinder Kumar and SDO Ravinder Singh, for their diligent efforts in training these young minds. Your commitment and expertise have significantly contributed to the success of this visit.

We look forward to continuing this fruitful collaboration in the future.

Geotagged Pictures of the event:


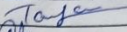

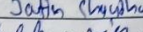
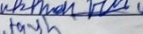

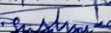
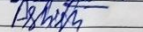

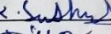

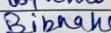
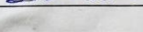




Attendance Sheet/completion letter of Students containing name of the event, department, type of the event, date on the top of the attendance sheet.

Industrial Visit at Hydropower Station, Uchi-Bandi Dated= 25/02/2025

S.No.	Student Name	Regd. No	Signature	Remarks
1	MRIDULA	12400025		
2	MANAV BHATIA	12400032	<i>Manav Bhatia</i>	
3	ROHIT	12400644		
4	SHIVA	12400659	<i>Shiva</i>	
5	GURNOOR SINGH	12401090		
6	SUKHMANPREET SINGH	12401548	<i>Sukhmanpreet Singh</i>	
7	MANVIK BANDHRAL	12401715		
8	GUNTAZPREET SINGH	12402061	<i>Guntazpreet Singh</i>	
9	GAGANPREET SINGH	12402209	<i>Gaganpreet Singh</i>	
10	NAVISH SINGH	12300550	<i>Navish</i>	
11	PREETSHAN SINGH	12301204		
12	HANSPREET SINGH SANDHU	12400255		
13	SAHIL PREET	12401565	<i>Sahil Preet</i>	
14	JASMEET SINGH	12200075	<i>Jasmeet Singh</i>	
15	SACHIN SHARMA	12200332	<i>Sachin Sharma</i>	
16	PARDEEP SINGH	12200446	<i>Pardeep Singh</i>	
17	AYUSH JAMWAL	12200491		
18	HIMANSHU	12200698		
19	PARDEEP KUMAR BHATIA	12201352		
20	JASMEET SINGH	12200075		
21	<i>Manoj Singh Flora</i>	<i>12401374</i>	<i>Manoj Singh</i>	
22	<i>Chirag Sharma</i>	<i>12401218</i>	<i>Chirag Sharma</i>	
23	<i>Shobhit Sharma</i>	<i>12401217</i>	<i>Shobhit Sharma</i>	
24				
25				

S.No.	Student Name	Regd. No	Signature
1.	Tanpa	12401865	
2	Tarun Saini	12401952	
3	Simranamdeep Kaur	12401270	
4	Jatin chauthary	12400374	
5	Subhmanprast vish	12300491	
6	Gautangh	12402513	
7	Jaspreet Singh	12300213	
8	K. Sushmita (66) 2nd	12300443	
9	Abhishek (Civil 6th Sem)	12200305	
ELECTRICAL			
01.	Shusmita K.	12300443	
02	Divya	12300331	
03	Diksha	12300876	
04	Bibhakar	12300270	

Learning Outcomes:

1. To learn about the Design and Development of Hydropower station
2. To learn about the principle and working of Kaplan Turbine.

Approval:

3/1/25, 9:16 AM

DAV University, Jalandhar Mail - Fwd: Approval



Mech. Engg. Coordinator <coordinator.me@davuniversity.org>

Fwd: Approval

1 message

Ved Raj <ved10189@davuniversity.org>
To: "Mech. Engg. Coordinator" <coordinator.me@davuniversity.org>

Sat, Feb 22, 2025 at 10:43 AM

----- Forwarded message -----

From: **Registrar** <registrar@davuniversity.org>

Date: Fri, 21 Feb 2025, 2:48 pm

Subject: Approval

To: Ved Raj <ved10189@davuniversity.org>

Cc: Ashutosh Bhadoria <ashutosh10039@davuniversity.org>, Transport Manager <transport@davuniversity.org>, <security@davuniversity.org>, <academicaffairs@davuniversity.org>, Dean Sciences & Technology <dean.scitech@davuniversity.org>, Accounts Department <accounts@davuniversity.org>

Dear Sir/Madam,

Reference to your request letter regarding organizing an Industrial Visit of Mechanical and Electrical Engineering Department Students and Mr. Ved Raj Khullar and Dr. Ashutosh Bhadoria at Hydropower Station Mukerian on 25.02.2025. This is to inform you that the Competent Authority has approved your request for the same.

Timings of the visit: 10:00 a.m to 03:30 p.m., No of Students: 40, Staff members: 2

Transport Incharge to provide transport facility for the above.

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With Regards

Prof (Dr) Sanjeev Kumar Arora
Registrar (Officiating)
DAV University, Jalandhar
(O) 0181-2708845