

To,
The Vice Chancellor,
Invertis University, Bareilly

Date: 02/11/2021

Subject: Regarding Approval of industrial visit & Official Duty permission on 11th November 2021.

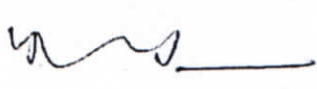
Respected Sir,

With due respect I would like to bring in your kind consideration that department of Civil Engineering (Diploma II, III Year & B.Tech II, III, IV year = 50 Students) & Mechanical Engineering (Diploma II, III Year & B.Tech II, III, IV year = 50 Students) wish to organise an industrial visit to Sharda Power House, Lohia Head Road, Khatima (Uttarakhand) on 11th November 2021.

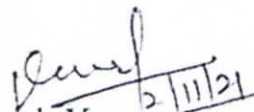
I am seeking your kind approval and Official Duty (OD) permission for the four faculties for the above industrial visit who will accompany with the students.

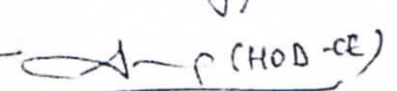
Name of the faculty members:


- 1) Mr. Kuldeep Kumar Soni
- 2) Mr. Ankit Kumar
- 3) Mr. Ajit Kumar Manoj Kumar
- 4) Mr. Amit Kumar

OD allowed.

2-11-21

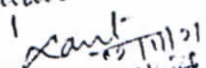
I will be highly obliged for this act of kindness of your's.


Thank You.
Kuldeep Kumar Soni
Assistant Professor
Department of Civil Engineering

forwarded to respected dean egg. Sir
kindly consider

(HOD-CE)
02/11/21

forwarded to Respected Dean Sir for kind
consideration.

2/11/21
(HOD, ME)


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Respected V.C. Sir,
Please consider it, as it is
a part of curriculum. From
& recommended.

2/11/21
Chief

Fwd: Regarding one day industrial visit on 11-11-2021 (Thursday)

Kuldeep Kumar Soni <kuldeep.k@invertis.org>

Thu 11/2/2023 4:32 PM

To: Arvind Kumar <arvind.k@invertis.org>

Sent from Outlook for Android

From: Kuldeep Kumar Soni <kuldeep.k@invertis.org>

Sent: Monday, November 1, 2021 3:13:15 PM

To: Anuj Kumar <anuj.k@invertis.org>; Amlt Kumar <amlt.k1@invertis.org>

Subject: Fwd: Regarding one day industrial visit on 11-11-2021 (Thursday)

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

From: General Manager, Ramganga & Sharda Valley <gmujvnl@gmail.com>

Date: Mon, Nov 1, 2021, 14:25

Subject: Re: Regarding one day industrial visit on 11-11-2021 (Thursday)

To: Mon Prakash Upadhyay <mon.u@invertis.org>

Cc: Kuldeep Kumar Soni <kuldeep.k@invertis.org>, rajendrasingh <rajendra.singh@ujvnl.com> ,

Mihir Pandey <mihir.pandey@ujvnl.com>, Executive Engineer Lohiahead

<eekhatima@gmail.com>, Deputy General Manager HGC Lohiahead Khatima

<dgmkhatima.ujvnl@gmail.com>

Dear Sir,

We, UJVNL would always like to build a good relationship with your esteemed organisation. You are permitted to visit Sharda Power House for students of Diploma (Civil) and B.Tech (Civil) along with the students of Mechanical Engineering on the conditions elaborated in our previous email dated October 13, 2021 exchanged with Shri Mon Prakash Upadhyay, HOD, Dept. of Electrical Engineering.

EE (M&G) and his team are informed for the necessary coordination.

Thanks & Regards,

(G.S. Budiya)

General Manager

Ramganga & Sharda Valley

UJVNL Limited

Sharda Power House Complex

Lohiahead, Khatima

Dist. Udham Singh Nagar

(Uttarakhand), India

Pin-262308

Cell: +91 9456590088

Whatsapp: +91 7505898200

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"AVOID WASTEFUL USE OF ELECTRICITY"

UJVNL-Generating for Generations

On Thu, Oct 28, 2021 at 5:01 PM Mon Prakash Upadhyay <mon.u@invertis.org> wrote:

Respected Sir

We are extremely sorry for our this act unknowingly but We met with Shri Bharat Sharma Sir. In the next activity we don't do the same. We are thankful to you for giving the opportunity to our students for this visit. Again we apologize for the same.

Thanks & regards:
Mon Prakash Upadhyay

On Thu, Oct 28, 2021 at 4:45 PM General Manager, Ramganga & Sharda Valley <gmujuvnl@gmail.com> wrote:

Dear Sir,

I would like to inform you that students of Electrical Engineering visited Sharda Power House yesterday but surprisingly no faculty met me. I called the control room with the intention to courtesy meeting but by the time Bus had left.

Thanks & Regards,

(G.S. Budiya)
General Manager
Ramganga & Sharda Valley
UJVN Limited
Sharda Power House Complex
Lohiahead, Khatima
Dist. Udham Singh Nagar
(Uttarakhand), India
Pin-262308

Cell. +91 9456590088

Whatsapp: +91 7505898200

"AVOID WASTEFUL USE OF ELECTRICITY"

UJVNL-Generating for Generations


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On Thu, Oct 28, 2021 at 4:26 PM Kuldeep Kumar Soni <kuldeep.k@invertis.org> wrote:

Respected Sir,

Most humbly and respectfully I want to make few following line for your kind consideration and favourable order that is I Assistant Professor of the department of Civil Engineering, Invertis University Bareilly (U.P.) wants for the visit of our students **Diploma (Civil Engineering) and B.Tech. (Civil Engineering) (50 students and 03 faculties)** Sharda Power House, Lohia Head Road, Khatima Uttarakhand for one day on the date **11-11-2021 (Thursday)**.

So it is my humble request kindly give permission for one day training. I will be highly obliged for this act of kindness.

Thanking You.

Your's Sincerely

Kuldeep Kumar Soni
Assistant Professor
Department of Civil Engineering
Invertis University Bareilly (U.P.) India
Mob- 7217011298
Email-kuldeep.k@invertis.org



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Industrial Visit Report
On
Sharda Power House
Lohiahead Khatima, Uttarakhand
11th Novemeber,2021



About the Visit:-

Department of Civil Engineering organized a industrial visit to Sharda Power House Lohia head Khatima (Uttarakhand) for Diploma & B.Tech (Civil Engineering) with 50 students on 11-Nov-2021 (Thursday).

Students learn the various concepts, planning, design and construction aspects of hydro electric power generation and the distribution of power in different areas. Students also learned about Kaplan Turbine's working and how it works.

Sri Johar Singh AE (Test) (Switchyard Structure's) , Sri Naval Joshi JE(Test) (Control room and Protection), Sri Tanuj Kumar AE(Mech) (Turbine Floor) and Sri Neeraj Joshi JE(Electrical) (Intake) are present the site to explain the concepts of planning and design of Sharda power house. Everyone has been explained very well about all the components of the power plant. And how what is the function and how it worked.

Assistant Professor Mr.Kuldeep Kumar Soni and Mr. Ankit Kumar accompanied the visit and presented token of thanks to Site officials and engineers for their valuable assistance.

About the Sharda Power House:-

Khatima Hydroelectric Project is erected in the Sharda River of Khatima village in the Udham Singh Nagar district of Uttarakhand in India. The power project is commissioned in 1956 with a total installed capacity of 41.4 MW. The hydroelectric basin, where the power plant is situated is Ganga Basin. The Type of Plant is like a Dam on a Canal and is having a Power Channel from Banbasa Barrage on Sharda River. The structure type of the power house in the plant is Barrage. The type of power house is Surface and the status of power house is Operational. The source of water for the generation of power in the plant is Sharda River. The Hydroelectric Region, where the power project is erected is in the Northern Hydroelectric Region of country.

The power project is owned by State Government and the operator of the power plant is Uttarakhand Jal Vidyut Nigam Limited (UJVNL). The beneficiary state of the power project is Uttarakhand. The power project is completed and started its generation of

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power in 1956. There are three turbines and each turbine has a capacity of 13.8 MW. The type of turbine used in the plant is Kaplan. The maker of both Turbine and Generator of Plant is by the English Electric UK Uttarakhand and ERM by BHEL. The Unit Sizes of the plant is 41.4 MW having three units of 13.8 MW each. There are three units in operation and all the three units are commissioned.

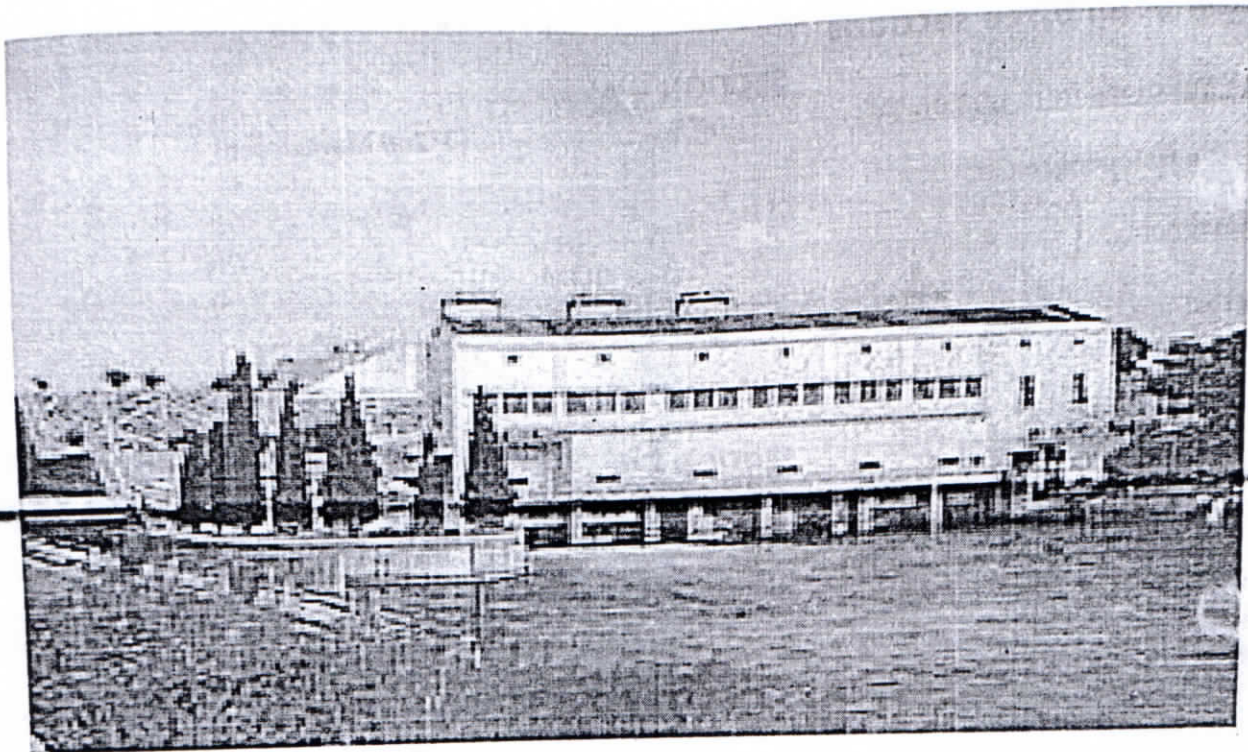


Fig:- Sharda Power Plant, Lohia Head, Uttarakhand


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SALIENT FEATRES

| | |
|-------------------------|---|
| Installed Capacity | 2x2 MW |
| Location | Near village Jaltala, Tehsil-Ukhimath, Dist-Rudraprayg |
| Commissioning Year | July 2020 |
| Size of Power house | 27m x 15.10m x 11.50m |
| Water Conducting System | Tunnel (399.5m) Power duct(93.5m) and Power channel(240.5m) |
| Power Channel Size | Rectangular Width 2.1m, Total Depth 3.05 m |
| Design Discharge | 3.45 cumecs |
| Design Head | 165.46 m |
| Turbine Type | Francis horizontal shaft |
| Turbine Output | 2000 KW |
| Generator Type | Synchronous salient pole type |
| Generator Output | 2000 KW, 3.3 KV, 1000 rpm, 0.8 pf |
| Main Transformer | 3MVA, 3.3 KV/ 33 KV |
| Switchyard | 33 KV |
| Design Energy | 26.18 MU |


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PROJECT DETAILS

- Hydroelectric Project Name – Khatima Hydroelectric Project
- Commission Date – 1956
- Approved Capacity in MW – 41.4 MW
- Installed Capacity in MW – 41.4 MW
- Hydroelectric Basin - Ganga Basin
- Type of Project – Major (greater than 25 MW)
- Type of Plant – Dam on a Canal, Power Channel from Banbasa Barrage on Sharda River
- Hydroelectric Development Type - Canal Drop
- Structure Type - Barrage
- Type of Powerhouse – Surface
- Status – Running
- Water Source – Sharda River
- Hydroelectric Region – Northern Hydroelectric Region.
- Owner – State Government
- Operating Company – Uttarakhand Jal Vidyut Nigam Limited (UJVNL)
- Address – Khatima, Udham Singh Nagar, Uttarakhand, India
- District - Udham Singh Nagar
- State – Uttarakhand
- Beneficiary States/ Union Territories – Uttarakhand and nearby States
- Completion of Power Project – 1956
- Number of Turbines – 3
- Capacity per Turbine – 13.8 MW


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Type of Turbine – Kaplan

- Turbine Manufacturer – English electric UK Uttarakhand, ERM by BHEL
- Generator Manufacturer – English Electric Company Limited UK
- Unit Sizes – 41.4 MW (3 units x 13.8 MW)
- Total Units – 3
- Units Commissioned – All the three units are commissioned in 1956.


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GLIPSMS OF VISIT



Bareilly, Uttar Pradesh, India

Pilibhit Bypass Rd, Mahanagar Colony, Bareilly, Uttar Pradesh 243122, India

Lat 28.38788°

Long 79.455269°

11/11/21 07:20 AM



Rithora, Uttar Pradesh, India

16km, Pilibhit Rd, Near, Rithora, Uttar Pradesh 249407, India

Lat 28.484211°

Long 79.520004°

11/11/21 07:27 AM

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OT



Khatima Range, Uttarakhand, India
W2CF+JHF, Khatima Range, Uttarakhand 262308, India
Lat 28.921185°
Long 80.023172°
11/11/21 12:57 PM



Khatima Range, Uttarakhand, India
W2CF+JHF, Khatima Range, Uttarakhand 262308, India
Lat 28.921338°
Long 80.023191°
11/11/21 01:02 PM

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Lohia Head, Uttarakhand, India
Lohia Head Road, Lohia Head, Uttarakhand 262308, India
Lat 28.922376°
Long 80.021713°
11/11/21 01:14 PM

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GPS Map Camera



Lohia Head, Uttarakhand, India
Lohia Head Road, Lohia Head, Uttarakhand 262308, India
Lat 28.92233°
Long 80.021681°
11/11/21 01:15 PM

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GPS Map Camera

Head
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