

From: registrar/juit
To: juit_all@juit.ac.in

Date: Sunday, July 31, 2022 11:40AM
Subject: VISIT OF MEMBER SECRETARY HPPCB SHRI APOORV DEVGAN TO JUIT - 04 AUGUST 2022

Dear All

Member Secretary HP Pollution Control Board shall visit JUIT on 04 August 2022 as per the attached program. Kindly note commitment of HODs, all faculty and students as per the program.

Regards

Major General Rakesh Bassi, SM (Retd)
Registrar and Dean of Students

Office 01792-239203
Mob 8626816777

Attachments:

FINAL PROGRAM MEMBER HPPCB.docx



VISIT PROGRAM OF MEMBER SECRETARY HPPCB
SHRI APOORV DEVGAN, IAS TO JUIT ON 04 AUGUST 2022

Time	Event	Remarks
10:30 A.M.	Arrival	Received by Vice Chancellor
10:30 - 11:05 A.M.	Briefing on JUIT and introduction of HODs	1. Board Room 2. HODS are requested to be seated by 10.20 a.m
11:05 A.M. - 12:00 Noon	Talk by Sh Apoorv Devgan to Faculty & Students followed by interaction:	JUIT Auditorium All faculty and students are required to be seated in auditorium by 10.55 a.m 1. Lamp Lighting 2. Bouquet Presentation 3. HOD CE is requested to detail faculty for introduction of speaker
12:00 - 12:40 P.M.	Visit STP	1. Briefing by Mr. Manoj Sharma at STP. 2. Scope of work and Time Lines on Notice Board.
12:45 - 1:30 P.M.	Lunch at SOR	Guests, VC, Registrar, Dean (A&R)
1:30 P.M.	Departure	

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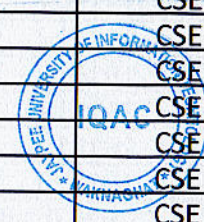


S. No.	ROLL NO.	STUDENT NAME	BRANCH
1	191901	SAUMYA PORWAL	BI
2	191902	SARTHAK SOOD	BI
3	191903	RAGHAV LUTHRA	BI
4	191904	PUSHPIT THAKUR	BI
5	191905	ARIN KAUSHAL	BI
6	191906	ARTHA SHUKLA	BI
7	191907	NADIRUN NISHA A	BI
8	191801	PALAK BHARDWAJ	BT
9	191802	HIMANSHU KUMAR	BT
10	191803	ISHIKA GARG	BT
11	191804	RIMJHIM SHARMA	BT
12	191805	RAGINI MISHRA	BT
13	191806	SHUBHANKAR SINGH	BT
14	191807	NANDINI AGARWAL	BT
15	191808	DARPAN MIGLANI	BT
16	191809	NIKUNJ SHARMA	BT
17	191810	SWETAM CHETRY	BT
18	191811	SHANZI CAESAR DSILVA	BT
19	191812	SHASHVAT SHARMA	BT
20	191813	NANDITA	BT
21	191814	CHIRAG ABROL	BT
22	191815	SHIKHU	BT
23	191816	ISHITA	BT
24	191817	ANCHAL GULERIA	BT
25	191818	AMRITA MISHRA	BT
26	191819	GAURAV PRASHAR	BT
27	191820	TANYA BANSAL	BT
28	191821	MANSHI PANDEY	BT
29	191822	SUMIT SAXENA	BT
32	191825	MUSKAAN	BT
33	191826	SAMEER VARSHNEY	BT
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35	191828	ANJALI MISHRA	BT
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37	191009	RONIT MAHAJAN	CE
38	191437	SHIVANKAR PARTAP SINGH	CE
39	191601	SHUBHAM SHARMA	CE
40	191602	AYUSH THAKUR	CE
41	191603	NISCHAY THAKUR	CE
42	191604	DEEPAK THAKUR	CE
43	191605	HARISH SINGH KANWAR	CE
44	191606	AVINASH	CE
45	191607	NAMAN BHARDWAJ	CE
46	191608	SUMIT CHAHAR	CE
47	191609	HARDIK DHILLON	CE
48	191610	RIJUL THAKUR	CE
49	191611	ISHAN SINGA	CE
50	191612	PARAS JASWAL	CE
51	191613	UJJWAL SHARMA	CE
52	191614	AKHIL JANAWA	CE
53	191615	MANAN SHARMA	CE
54	191616	ARJUN VERMA	CE
55	191617	ASTIK PRASHAR	CE

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56	191618	MANISH	CE
57	191620	LAKSHAY SHARMA	CE
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67	191631	YESHI JATSHO	CE
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88	191220	SAKSHAM CHATURVEDI	CSE
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106	191239	VARUN MISHRA	CSE
107	191240	PRERNA GUPTA	CSE
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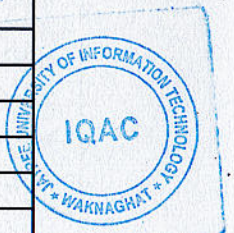
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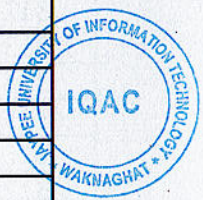
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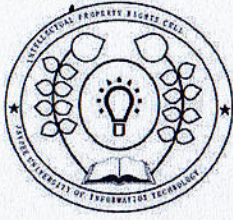
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325	191525	AJAY TYAGI	IT
326	191526	YASH KATARIA	IT



327	191527	UJJAWAL TOMAR	IT
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336	191538	PRADHYUM BHATI	IT

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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

(Established by H.P. State Legislature vide Act No. 14 of 2002)

An **Innovation, Research and Development (IRD) Competition** across various departments of JUIT was conducted in collaboration with IPR cell and TIEDC from Aug 16-Sep 05, 2022. Students of various departments have to submit innovative ideas.

The deadlines are :

- | | |
|-----------------------------|--------------------|
| i. Competition open date | August 16, 2022 |
| ii. Abstract submission: | August 25, 2022 |
| iii. Declaration of result: | September 05, 2022 |



In total 09 entries were received from various departments. A committee comprising Prof. Sudhir Kumar, Prof. Ashish Kumar, Prof. Shruti Jain, Dr. Saurabh Rawat, Dr. Nishant Jain, and Dr. Aman Sharma shortlisted the candidates based on the proposals submitted. All the entries were deliberately scrutinized. Later on Sep 5, 2022, an interaction was planned in

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TIED Cell where the students gave brief about their ideas. Dr. Deepak Gupta was the co-opted member.



Based on the interaction, the following students were selected:

Prize	Name	Title of innovation
1	Rahul Rana, Harshit Singh, Aryan Bharadwaj, Akhil Verma, Himanshi Sood	IoT-enabled drone crop sprayer
2	Ekal Sharma and Tushar Paul	HEAR MIND
3	Mukund Soni, Ayush Gulariya	Blind Assistance

Prize money of Rs 2000/, Rs 1500/ and Rs 1000/ were given to 1st, 2nd and 3rd winners.

The group that topped the event was given a chance for submitting a start-up proposal in TIEDC.





A WEBINAR ON LATEST TRENDS IN GREEN BUILDING DESIGN

Date of Event: September 14, 2022

Organizers: IGBC Student Chapter, JUIT

Introduction

Jaypee University of Information and Technology Student Chapter of Indian Green Building Council (IGBC) was inaugurated on May 13, 2021. On the occasion of Green Building Week 2022 (September 12–16, 2022), a Webinar on Latest Trends in Green Building Design was successfully organized on September 14, 2022, with a prime objective to create awareness about the journey of integrating IBM system technology in field of Green Buildings and Biophilic designs. The webinar witnessed registration of more than 550 participants. The Virtual Session was organized via Google Meet platform by JUIT Student Chapter. Invitations to the Session were emailed by the host, the JUIT IGBC Student Chapter Team, to their networks and students.

Latest Trends in Green Building Design

Green building design aspects refers to both a structure and the application of processes that are environmentally responsible and resource-efficient throughout a building's life-cycle: from planning to design, construction, operation, maintenance, renovation, and demolition. This requires close cooperation of the contractor, the architects, the engineers, and the client at all project stages. This program allows participants to know the importance of Green Building and how to use sustainable materials in old and new structures to make them effective.

Event Schedule

- **Mr. Jagjit Singh Majha**
Co-Chairman, IGBC Chandigarh Chapter -Welcome Remarks
- **Mr. Ashwini Bamba**
Director Accelerated Logic Control -Technical Session
- **Ar. Sukumar Jayarath**
Principal Architect, Studio by Design -Technical Session
- **Mr. Harshit Behl**
Director - Technical, Suntech AG
Principal Architect -Technical Session
- **Dr. (Prof.) Ashish Kumar**
Head of Department, Civil Engineering -Concluding Remarks
- **Dr. Tanmay Gupta**
Chairman, JUIT student Chapter of IGBC -Program Convener
- **Ajay Singh Thakur**
PhD Student -Student Coordinator

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Overview and Topic of Discussion

- **Dr Tanmay Gupta** hosted the session on Google Meet and Live on JUIT YouTube Channel at 10:45 AM (IST). More than 300 participants on Google Meet and 200+ participants were connected through YouTube for this Virtual Session. **Dr. Tanmay Gupta- Chairman, JUIT student Chapter of IGBC** welcomed all speakers, dignitaries and participants in this session.
- **Mr. Jagjit Singh Majha**, Co-Chairman, IGBC Chandigarh Chapter was unavailable due to a meeting which was informed by Mr. Nilesh Kr. Rana – IGBC and the webinar was proceeded with 1st Session of **Mr Ashwini Bamba - Director Accelerated Logic Control**, He talked about the latest trends and technology in integral building management system. He shared in-depth process of monitoring, customize control and integrating all the building system on a single platform which gives suggest automatic remedial steps in case of any system failure. Towards the end Q & A session were conducted through Google Meet chat and YouTube Comment Section.
- **Ar. Sukumar Jayarath Principal Architect, Studio by Design** was the Second speaker of the event discussing his perspective on aspects and verticals to be taken care in green building on which green building is analyzed and evaluated on the basis of which accreditation are granted. He also shared various cases of rules and regulation which need to be followed by local authorities and submitted in IGBC office.
- **Mr. Harshit Behl: Director - Technical, Suntech AG** was the final speaker of the event sharing session on green walls and Biophilic design sharing the importance to reduce stress due to 90% of indoor time, work related ill health issue by using Biophilic technology to enhance their cognitive abilities, focus, increase physical activities, creativity etc. He also discussed the key constructs of Biophilic design which introduce contact with nature, natural analogues and human spatial response.
- At last Q&A Session were conducted with a little light moment between speakers, moderator and participants.

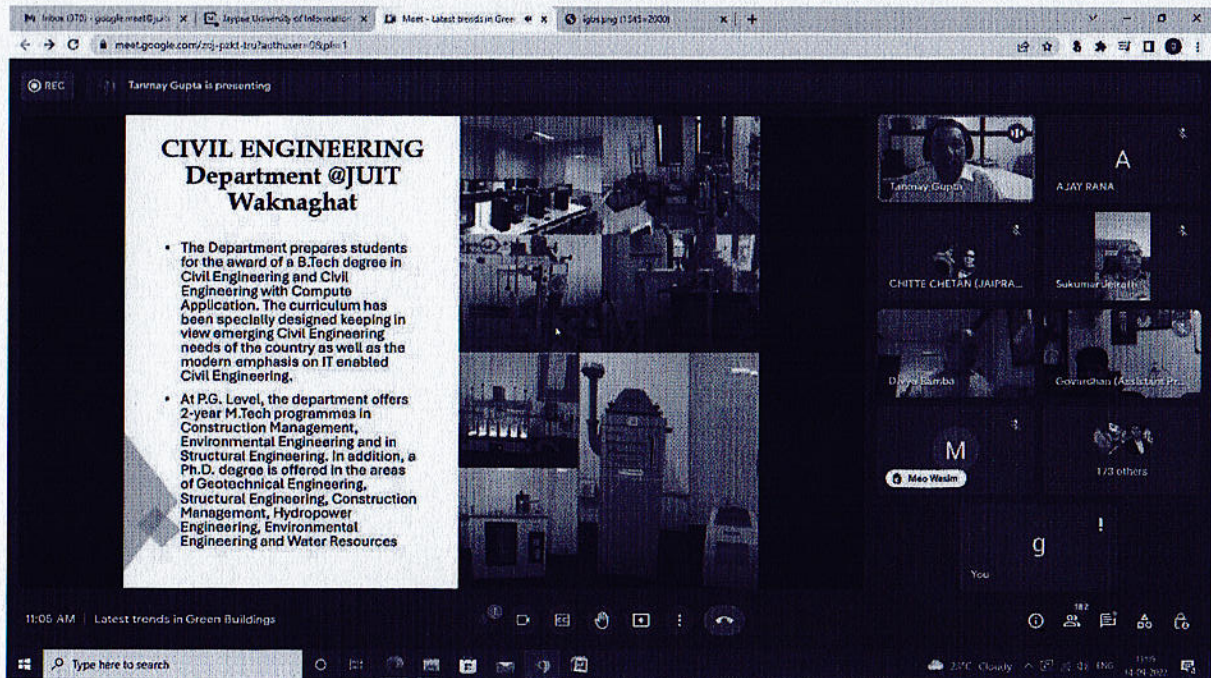
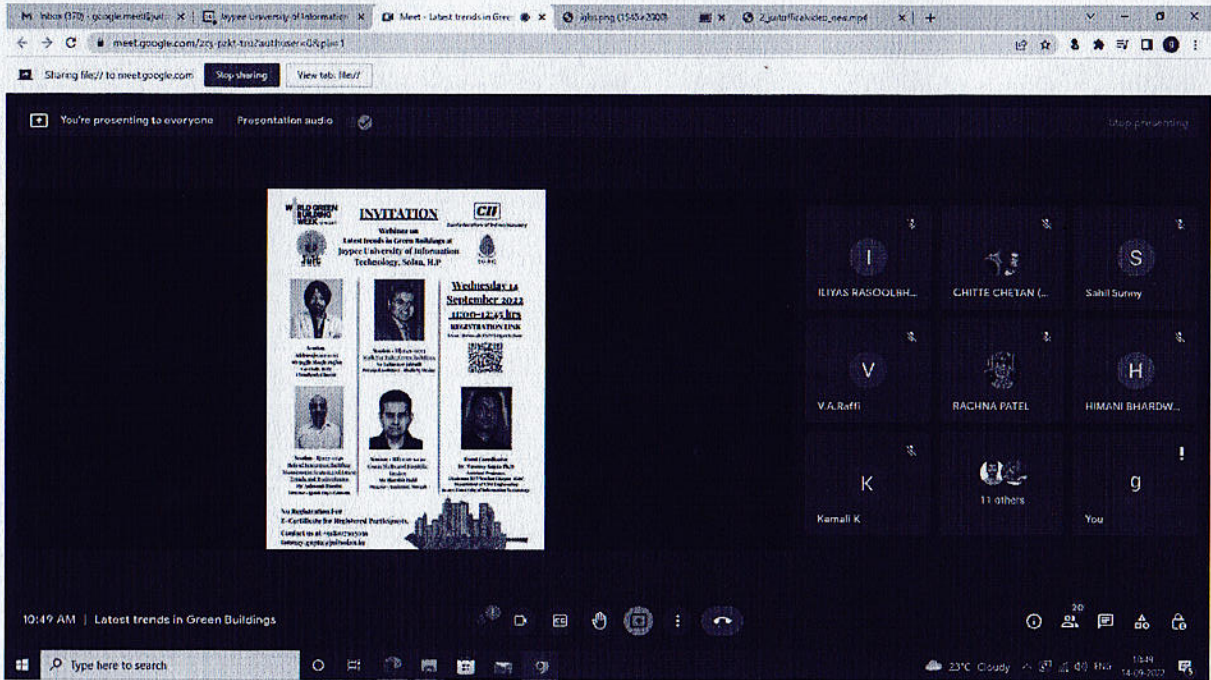
Feedback from Students: The feedback was conducted through a form circulated among the participants and the webinar was ranked Excellent.

Thank You Remarks: Dr. Tanmay Gupta concluded the Virtual Session by thanking all the Speakers, HOD and faculties of Civil Engineering Department, IGBC Members and Participants for making this event a memorable one.

Key Points from Registration View

- A total of 550+ registrations were received for this event.
- More than 500+ feedbacks were given by the participants.
- National as well as International Doctorate participant were present during the Virtual Session contributing 30% of the participation count.
- All the queries regarding meeting, forms, and certificate were successfully handled and resolved by Dr. Tanmay Gupta and Mr. Ajay Singh Thakur.

SCREENSHOTS OF THE SESSION



Shah

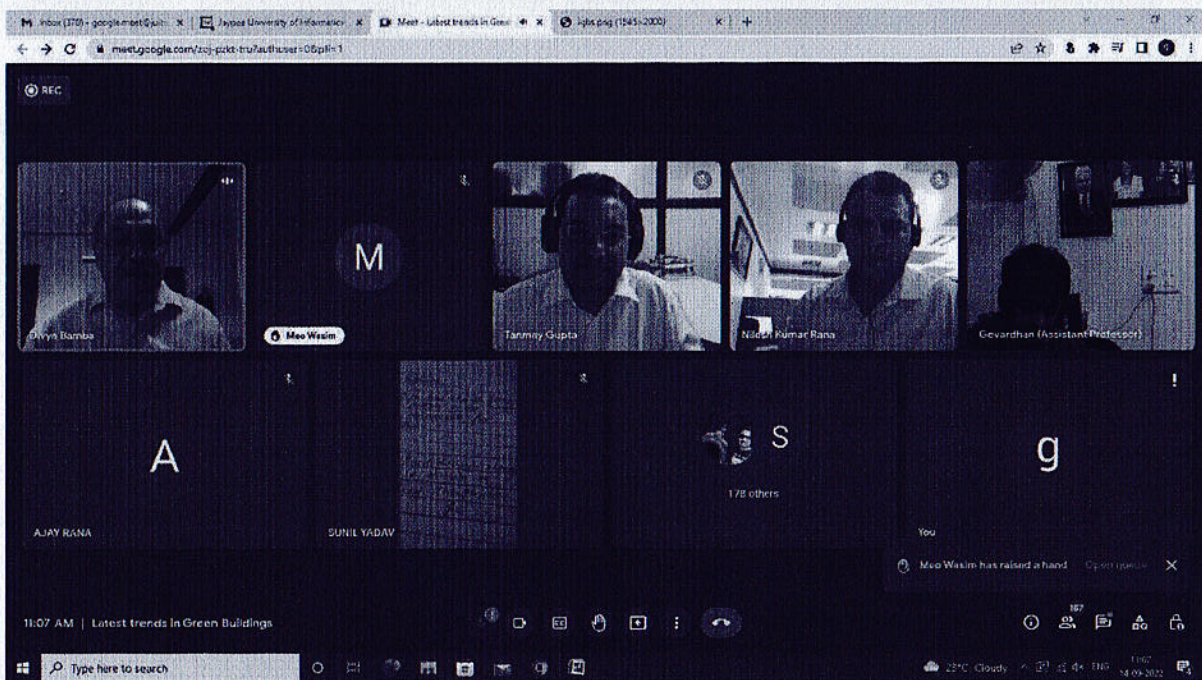
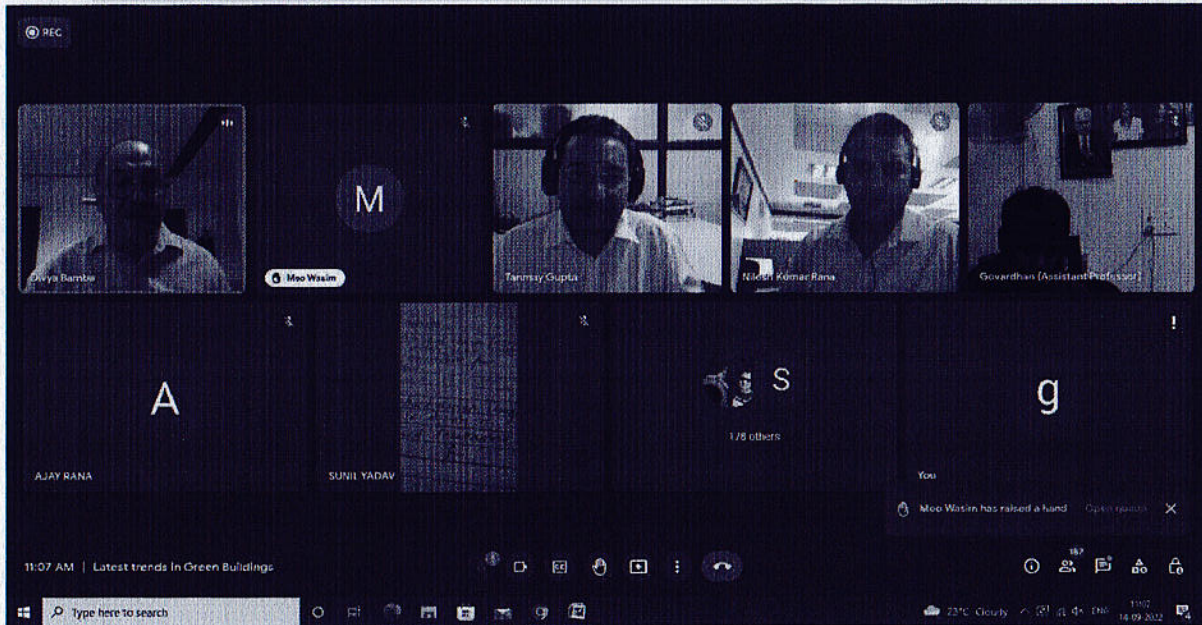




Indian Green Building Council



inbox (170) - googlemap@juit Jaypee University of Information Technology Meet - Latest trends in Green Buildings (1545-2000) meet.google.com/zcy-pkxt-tru?authuser=0&pli=1





Indian Green Building Council



meet.google.com/zo-pkkt-ru?authuser=0&pli=1

REC Divya Bamba is presenting

(IBMS)

Role of Integrated Building Management System

Latest Trends & Technologies

11:10 AM Latest trends in Green Buildings

Type here to search

25°C Cloudy 11:10 11/09/2022

meet.google.com/zo-pkkt-ru?authuser=0&pli=1

REC Divya Bamba is presenting

INTEGRATED BUILDING MANAGEMENT SYSTEMS

An overview of services that can be integrated through a comprehensive IBMS:

11:13 AM Latest trends in Green Buildings

Type here to search

11:13 11/09/2022

People

- meysurish mahida
- meenakshisudarshini NPR...
- Meenakurnari M
- Mishr Sakwari
- Mohammad Asim
- MOHAN KUMAR R
- Mohd. Bilal Khan
- Monika Chaudhan
- Mr. P. Muthu Pandian
- Mrs.Hemalatha 1625

Shah





Indian Green Building Council



meet.google.com/zqj-pzkt-tru?authuser=0&ip=1

REC Divya Bamba is presenting

TYPICAL APPROACH FOLLOWED

DESIGN - COMMISSIONING OF IBMS

A. PROJECT / OPPORTUNITY IS IDENTIFIED -
 ---Stake Holders , Consultants , BMS Products OEMs & Contractors

B. DETAILS OF THE TENDERS WORKED OUT , TENDERING & VENDOR SELECTION
 --- Scope of work, Equipment List (I/O Summary), Budgeting, Schedule of implementation

C. IMPLEMENTATION
 --- Detailed drawings / Shop drawings, c
 --- Coordination with third party vendors for coordination and provisioning
 --- Conduit & Cable laying, sensors installation, BMS Panel installation & terminations
 --- Programming, Integration & handing over.

Tommay Gupta

Divya Bamba

CHITTE CHETAN ...

Haris Haneef

2017 Navreen Mu...

AJAY RANA

Nilesh Kumar Ra...

229 others

People

Add people

- Jyoti Biddu
- K.Bhavya 122
- Kamali K
- Kanesh Abimannan
- Kaneshwari Balachandrar
- Kamlesh Damdoe
- kanchana naveen kumar
- Karthik KA
- Karthikyan Maragan
- KESHAB THAPA

11:19 AM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 14-09-2022

meet.google.com/zqj-pzkt-tru?authuser=0&ip=1

REC Divya Bamba is presenting

OBSERVATIONS & CHALLENGES

AVERAGE TIME FRAME FOR THE WHOLE PROCESS - 2 - 4 Years

• Stably managing the process for this duration itself is a big challenge.

Expected issues

- Coordination with various agencies
- Cost and time overruns and cash flow issues.
- Some hardware / software may become obsolete / require up gradation
- Manpower changes at site and at the BMS vendor end.

ALL THESE LEAD TO COMPROMISED COMMISSIONING & HANDING OVER OF

Tommay Gupta

Divya Bamba

CHITTE CHETAN ...

Haris Haneef

Mihir Balwani

AJAY RANA

Nilesh Kumar Ra...

241 others

People

Add people

- Jaiju K Kurian
- JITENDER VERMA 201612
- Jyoti Biddu
- K.Bhavya 122
- Kafezu Divya
- Kamali K
- Kanesh Abimannan
- Kaneshwari Balachandrar
- Kamlesh Damdoe
- kanchana naveen kumar

11:21 AM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 14-09-2022



REC | Divya Bamba is presenting

OTHER ISSUES LIMITING PROMOTION OF IBMS

1. Barring exceptions, IBMS is always considered for **New & Large buildings**.
 - Existing Building (retrofit cases) practically do not come in the picture.
 - No proposals for smaller building considered
2. Almost every detail needs to be planned at the initial design stage.
 - Changes at later stage are difficult to incorporate
 - Limited scope for technological up gradation (Implementation / Post phase)
3. Almost the entire budgetary provision needs to be done at the initial stage.
 - Mostly dropped or limited owing to the High one time investment

ALL THESE LIMIT THE REALIZATION OF THE POTENTIAL BENEFITS.

11:24 AM | Latest trends in Green Buildings

Type here to search

People

- Add people
- Jishu K Kurian
- JITENDER VERMA 201612
- Jyoti Biddu
- K.Bharya 122
- Kalopi Divya
- Kamal K
- Kamlesh Abhisaran
- Kamleshwari Balochand
- Kamlesh Damdo
- Kanav Sharma 201638

REC | Divya Bamba is presenting

New Trends & Technologies

SCHEMATIC OF THE SYSTEM

11:32 AM | Latest Trends in Green Buildings

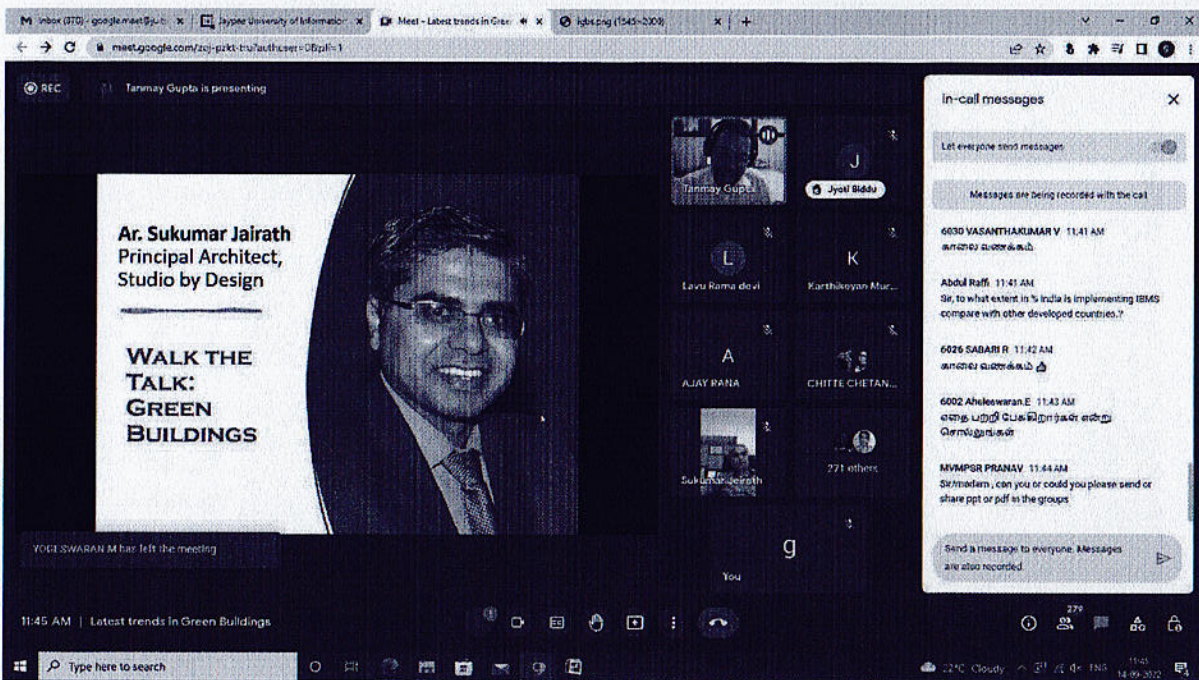
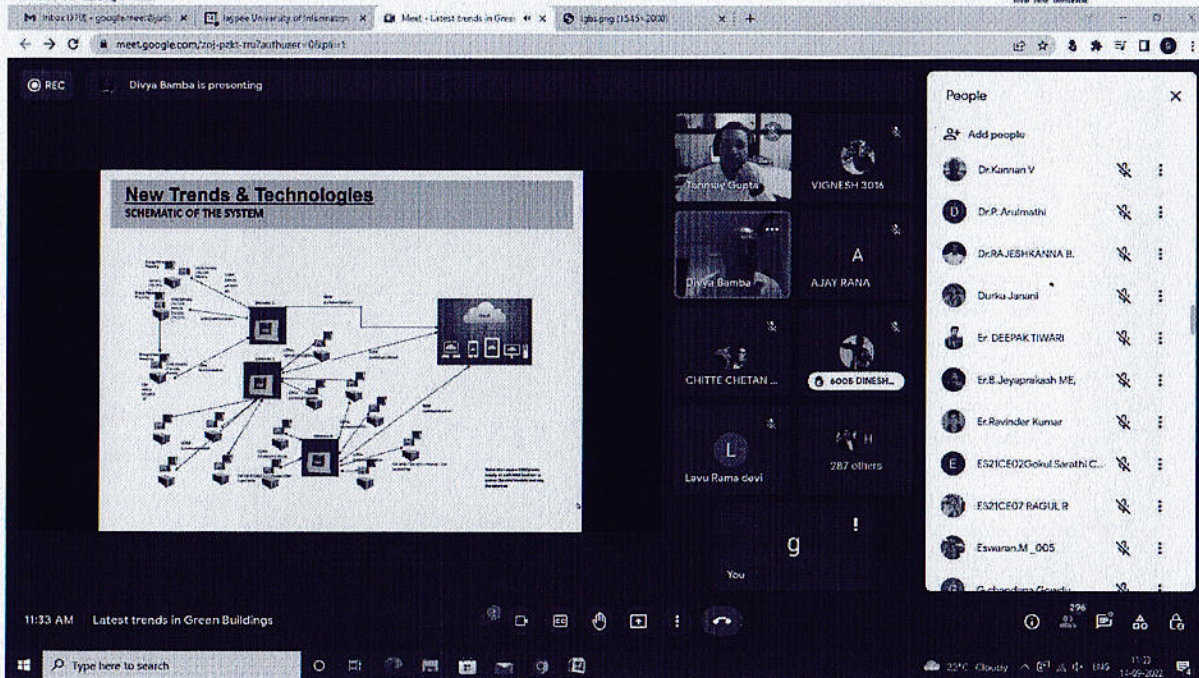
Type here to search

People

- Add people
- Dr.Kanvan V
- Dr.P. Anulmathi
- Dr.SAJESHKANNA B.
- Durka Janani
- Er. DEEPAKTWARI
- Er.B.Jayaprakash ME.
- Er.Ravinder Kumar
- ES2ICE02Gokul Sarathi C...
- ES2ICE07 RAGUL R
- Eswaran.M_005

Shah







Indian Green Building Council



meet.google.com/zot-pakt-tru?authuser=CS&pli=1

REC studiorworkshare 66 is presenting

In-call messages

Let everyone send messages

Messages are being recorded with the call

Qamir@bnu.edu

MUMPSR PRANAV 11:44 AM
Sir/madam, can you or could you please send or share ppt or pdf in the groups

CHITTE CHETAN (SAIPRAKASH) 11:49 AM
Very very informative session

Piyush Wade 11:49 AM
Thanks you sir

RACHNA PATEL 11:50 AM
Excellent session. Thank you very much Sir

Saurabh Mittal 11:50 AM
Excellent session.. thanks sir

Send a message to everyone. Messages are also recorded

11:51 AM Latest trends in Green Buildings

Type here to search

21°C Cloudy 14/09/2022

meet.google.com/zot-pakt-tru?authuser=CS&pli=1

REC studiorworkshare 66 is presenting

People

Add people

- ES2ICE07 RAGULR
- G Chandana Gowdu
- GOUGU NAGARAJA
- Gopal Dhanjode
- gopalakrishnan r
- Gopinath V
- Govardhan (Assistant Pro...
- gowthamipriya gandam
- Harshik Chechhan
- Haris Haneef
- Harsha vardhan Nalamilli

12:05 PM Latest trends in Green Buildings

Type here to search

21°C Cloudy 14/09/2022

Shah





REC | Tanmay Gupta is presenting

Mr. Harshit Bahl
Director – Technical,
Suntech AG

GREEN WALLS AND BIOPHILIC DESIGN

12:19 PM | Latest trends in Green Buildings

People

- Add people
- GODUGU NAGARAJA
- Gopal Dhanjode
- Gopinath V
- Govind Goutham R
- Harshik Chauhan
- Hari Balaji M 3302
- Hari Hameed
- Hirsh Anand Yadav
- Harsha vardhan Nallamilli
- harshit bahl
- HIMANSHU ARCRA

23°C Cloudy | 12:19 | 14-09-2022

REC | harshit bahl is presenting

BIOPHILIC DESIGN

12:22 PM | Latest trends in Green Buildings

In-call messages

Let everyone send messages

Messages are being recorded with the call

VIJAY SANKAR K sriet.ac.in 12:19 PM
Sir,

ILIJAS RASOOLBHAI 12:19 PM
Excellent session & informative...

VIJAY SANKAR K sriet.ac.in 12:20 PM
Sir, the session is very informative and excellent presentation sir, can you please send the attendance link.

NANDHINI sriet.ac.in 12:20 PM
very informative session sir

PREAM KUMAR G sriet.ac.in 12:21 PM
Excellent session sir. Thank you sir

Send a message to everyone. Messages are also recorded

23°C Cloudy | 12:22 | 14-09-2022



Indian Green Building Council



meet.google.com/zuj-pst1-tu/author=02qpl...1

REC harshit bahl is presenting

Typical business operating costs¹

A 10% variation applied equally to each cost has a far from equal impact.

10% Variation

- 1% Energy costs
- 9% Rental costs
- 90% Staff costs in salaries and benefits

+/- 0.1% Energy costs

+/- 0.9% Rental costs

+/- 9.0% Staff costs

harshit bahl

Abbaal Moh...

Karthikeyan Mur...

AJAY RANA

CHITTE CHETAN...

2017 Naveen...

213 others

In-call messages

Let everyone send messages

Messages are being recorded with the call

VIJAY SANKAR K sriet.ac.in 12:20 PM
Sir, the session is very informative and excellent presentation sir. can you please send the attendance link.

NANDHINI sriet.ac.in 12:20 PM
very informative session sir

PREAM KUMAR S sriet.ac.in 12:21 PM
Excellent session sir. Thank you sir

Rakshak Pandey 12:23 PM
Excellent session

Pranab Sharma 12:24 PM
Excellent session

Send a message to everyone. Messages are also recorded.

12:24 PM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 10:24 16-09-2022

meet.google.com/zuj-pst1-tu/author=02qpl...1

REC harshit bahl is presenting

airGROW NAAS- NATURE AS A SERVICE

Air handling

SUNTECH

Free Standing

Hybrid

Fully Integrated

CHITTE CHETAN (JAIPRA)

harshit bahl

Muthuraman T

Karthikeyan Murugan

Abbaal Mohammed Sh...

2017 Naveen Murali 17...

194 others

12:35 PM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 12:35 16-09-2022

Shah



REPORT ON THE WEBINAR

Date & Time: June 19, 2023 (Mon), 10:00 AM

Speaker: Associate Prof. Hemant Sood

Topic: “Trends and Prospects of plant Biotechnology”

Dr. Hemant Sood delivered a webinar on the topic “*Application Trends and Prospects of plant Biotechnology*” on 19-06-2023 (Monday) between 10:00 AM to 11:00 AM through the Google meet platform. The event was coordinated by Dr. Shikha Mittal, Assistant Professor, Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology (JUIT), Wanknaghat. Dr. Hemant Sood discussed about the Plant Biotechnology, Application of plant Biotechnology, Abiotic Stress Tolerance Plants, Biotic Stress Tolerance Plants, Genetically Modified Foods (GM foods), and Pharmaceuticals and their use in advancement of the agriculture yield and farming. The webinar was aimed towards understanding the Plant Biotechnology and its Application. The contribution of these subjects towards Agriculture, Farming, and Medicinal aspects was highlighted. The presentation was pictorial and interactive. At the end of the webinar, Dr. Shikha Mittal delivered the vote of thanks.

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
Established under H.P. Legislative Assembly Act No. 14 of 2002
and Approved by UGC under section 2(f)

JAIPRAKASH
SEWA SANSTHAN

Department of Biotechnology & Bioinformatics

Webinar on Scheduled Date:
19-06-2023 (Mon),
10:00 am

**“Trends and Prospects of Plant
Biotechnology”**

Registration link: <https://forms.gle/2gh85tSNE8S66d6M8>
Contact No. : 7876462493

Dr. Hemant Sood

Shikha



Transformation overview

10:24 AM | Webinar on Trends and Prospects of plant Biotechn...

Hydroponic Technology and Farming

10:57 AM | Webinar on Trends and Prospects of plant Biotechn...


Shah



meet.google.com/ksk-wsah-bhwo?authuser=08p1c1

somlata sharma is presenting

Entrepreneurs : Our Proud Alumni (Dr Shivan with Partner)



11:03 AM | Webinar on Trends and Prospects of plant Biotechn...

27°C, Mostly cloudy

11:03 AM (Tue, Aug 21)

meet.google.com/ksk-wsah-bhwo?authuser=08p1c1



11:08 AM | Webinar on Trends and Prospects of plant Biotechn...

27°C, Mostly cloudy

11:08 AM (Tue, Aug 21)

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends

Raja Kamari 9:55 AM
Good morning to everyone

Dr. Shrutu Jain 10:03 AM
yes ma'am

You 11:09 AM
Any Question?

Dulagna Halder 11:09 AM
Good morning madam


Dr. V.K. Singh 11:10 AM
informative

Dulagna Halder 11:10 AM
I have a question

Ms. Sumana Roy 11:10 AM
Nice explanation ma'am

Send a message

Shrutu



Report on Workshop

Five Days Hands on Workshop on "Next generation sequencing data analysis"

(20-24, March 2023)

The Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology, Wanknaghat, Solan (H.P.) has organized a five Day Hands on Workshop "Next generation sequencing data analysis" between 20th - 24th March 2023.

The Workshop was successfully completed under the auspices of

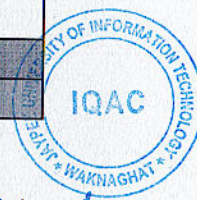
- Prof. Rajendra Kumar Sharma – Vice Chancellor, JUIT Wanknaghat and Patron of the organized Workshop.
- Prof. Ashok Kumar Gupta – Dean of Academics, JUIT Wanknaghat.
- Maj. General Rakesh Bassi (Retd.) - Registrar and Dean of Students, JUIT Wanknaghat
- Prof. Sudhir Kumar – HOD of Biotechnology & Bioinformatics Department, JUIT Wanknaghat
- Dr. Jata Shankar – Associate Professor in Department of Biotechnology and Bioinformatics, JUIT Wanknaghat and Program Convener of organized Workshop.
- Dr. Shikha Mittal – Assistant Professor in Department of Biotechnology and Bioinformatics, JUIT Wanknaghat and Program Convener of organized Workshop.

The Workshop on "Next generation sequencing data analysis" comprised mainly of invited and guest lecturers from eminent speakers of renowned institutes. Table 1 highlights the program schedule of the conducted Workshop including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

Table 1: Program schedule for 5-days hands on workshop on Next-generation data Analysis

PROGRAM SCHEDULE			
Time	Activity	Resource person	Title
DAY 1: Monday, 20.03.2023			
9:00 - 10:00	Arrival and Registration		
10:00 - 11:00	Inaugural Session		
11:00 - 11:30	High Tea		
11:30 - 13:00	Lecture Session-1	Dr. Amit Kumar Singh Senior Scientist, Division of Genomic Resources, ICAR-NBPGR, Pusa campus, New Delhi	Genomics Assisted Characterization of germplasm and trait mapping in crops
13:00 - 14:00	Lunch		
14:00 - 15:00	Practical Session-1	Dr. Raj Kumar, Dr. Shikha Mittal Assistant Professor, Department of Biotechnology and Bioinformatics, JUIT	Basics of Linux System & Installation, Basic Linux Commands, Handling of files/data with shell commands
15:00 - 16:00	Practical Session-1		
16:00 - 16:15	Tea break		
16:15 - 17:15	Practical Session-2		
DAY 2: Tuesday, 21.03.2023			
10:00 - 11:15	Lecture Session-1	Mr. Pawan Verma Senior Bioinformatics Engineer, Elucidata Data Consulting Pvt. Ltd	NGS Data Processing at Scale: Perspectives from Academia and Industry

11:15 – 11:45	High Tea		
11:45 – 13:00	Lecture Session -2	Mr. Sachin Kumar Gupta Senior Bioinformatics Scientist Elucidata Data Consulting Pvt. Ltd	NGS Data Processing at Scale: Perspectives from Academia and Industry
13:00 – 14:00	Lunch		
14:00 – 15:15	Practical Session -1	Dr. Shikha Mittal Assistant Professor, Department of Biotechnology and Bioinformatics, JUIT	Quality Check and trimming of NGS data
15:15 – 15:30	Tea break		
15:30 – 17:00	Practical Session -2		
DAY 3: Wednesday, 22.03.2023			
10:00 – 11:15	Lecture Session-1	Dr. Jata Shankar Associate Professor, Department of Biotechnology and Bioinformatics, JUIT	RNA-Seq data analysis of Aspergillosis in mice model
11:15 – 11:45	High Tea		
11:45 – 13:00	Lecture Session -2	Dr. Tiratha Raj Singh Associate Professor, Department of Biotechnology and Bioinformatics, JUIT	Computational genomics and fragment assembly
13:00 – 14:00	Lunch		
14:00 – 18:00	Trip to Shimla		
DAY 4: Thursday, 23.03.2023			
10:00-11:30	Practical session - 1	Dr. Shikha Mittal Assistant Professor, Department of Biotechnology and Bioinformatics, JUIT	denovo and reference based assembly
11:30 – 11:45	High Tea		
11:45 – 13:00	Lecture Session-1	Dr. Manoj Kumar Senior Principal Scientist and Head Virology Unit, Bioinformatics Centre CSIR-IMTECH, Chandigarh	Viral next-generation sequencing data analysis
13:00 – 14:00	Lunch		
14:00 – 15:15	Practical Session -2	Dr. Manoj Kumar Senior Principal Scientist and Head Virology Unit, Bioinformatics Centre CSIR-IMTECH, Chandigarh	Viral next-generation sequencing data analysis
15:15 – 15:30	Tea break		
15:30 – 17:00	Practical Session -3		
DAY 5: Friday, 24.03.2023			
10:00 – 11:15	Lecture Session-1	Dr. Jitendraa Vashistt Associate Professor, Department of Biotechnology & Bioinformatics, JUIT	Bacterial identities identification using Miseq technique
11:15 – 11:45	High Tea		
11:45 – 13:00	Practical Session -1	Dr. Shikha Mittal Assistant Professor, Department of Biotechnology and Bioinformatics, JUIT	Genome annotation and KEGG pathway analysis
13:00 – 14:00	Lunch		
14:00 – 15:30	Valedictory Session & High Tea		



This workshop was organized with the aim of providing in-depth knowledge about Next Generation Sequencing (NGS) techniques and data analysis. NGS methods are highly

parallelized enabling to sequence thousands to millions of molecules simultaneously. Due to its wide area of applications, it attracts students, researchers, and faculty from various prestigious institutes. This technology results into huge amount of data, which need to be analyzed to conclude valuable information. Analysis of NGS data unravels important clues in quest for the treatment of various life-threatening diseases; improved crop varieties and other related scientific problems related to human welfare.

Workshop was conducted in Offline Mode. All the lectures were delivered remotely by keynote speakers, whereas hands-on sessions were conducted by experts in the Lab. A total of 26 participants had registered for this workshop. A total of 26 students participated from various prestigious insitute such as AIIMS-New Delhi, IIT- Dhaward, HFRI-Shimla, Graphic Era University, Singhania University, DAV College- Chandigarh, IIIT-Noida, Sharda University-NOIDA, Chandigarh University, SHUATS-Prayagraj.

In the workshop, **26 participants** i.e., UG/PG (13 participants), Ph.D/Research fellows (09 participants), Faculty (4 participants) registered in the workshop.

Other Salient Features

- Presentation slides of all lectures by the speakers for the Workshop available with the organizing committee and has been distributed to participants
- Certificates of participation issued to all registered participants.
- Certificates of resource persons issued to all the listed speakers
- Feedback collected from participants for further improvement in conducting such future Workshops

Summary Statistics of Feedback received from Participants are summarized below in Table

Total number of participants feedback	25
Overall average feedback score	Excellent (80%); Very Good (16%); Good (4%) Based on a 5 point scale rating system (1- 5; [poor to excellent])

Shah



Sewage Treatment Plant Visit, Jaypee University, Wagnaghat

Date of Visit: 22nd September 2022

Venue: JUIT STP, Wagnaghat

Batch: B-Tech 5th Semester Students [29 Students]

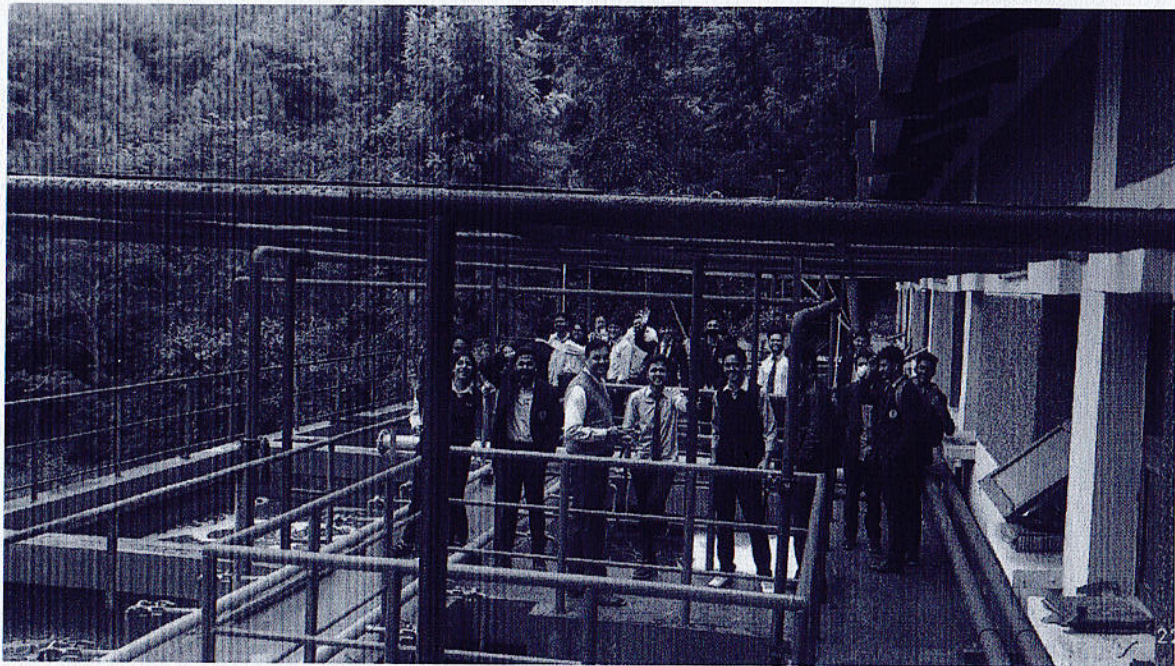
Faculty Coordinator: Prof. Ashish Kumar (HCED)

Organizer: Department of Civil Engineering, JUIT Wagnaghat

About the Visit:

B-Tech 3rd Year Students of Civil Engineering Department visited Sewage Treatment Plant which is located at Jaypee University of Information Technology, Wagnaghat on 22nd September 2022. The purpose of site visit is to make students understand and visualize the theory that is being taught in the class. Students explored about the treatment process at sewage treatment plant. Students visited the were accompanied by the engineer Sh. Manoj Sharma Ji, who explained about the treatment process at the treatment plant.

The full capacity of the STP is 500 KLD (Kilo litre per day) and was running at 300 KLD at the time of our visit. This plant is combination of Trickling Filter and extended aeration. Extended aeration has process screening, aeration, clarifier and chlorination. The preliminary treatment is very complex which are primary screening, secondary screening, grit chamber, oil and grease removal because of large tank. At the site, we need to abide the rules for our safety because it was very dangerous.



Shah

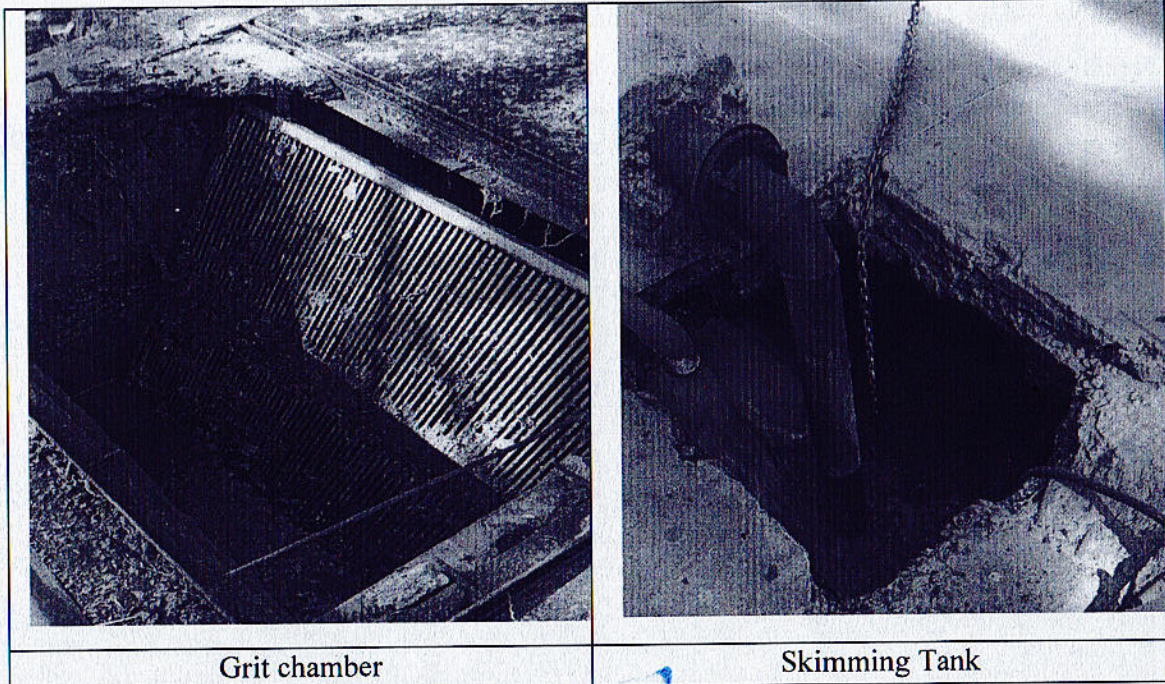


OBJECTIVES:

- To let students experience the actual working environment as Wastewater engineers who are involved in the conceptualizing, design, construction and operation and maintenance of system. This will help them to adapt easily once we start to do work as engineer in near future.
- To gain more knowledge in understanding what they learn in the class. They can also learn about the new things in real situation. They can increase the knowledge by observing the treatment process at the site.
- To broaden student's horizon with the latest and newest treatment system. They can learn the process step by step like from preliminary treatment to primary treatment, and then continue to secondary treatment until discharge the water to the land.

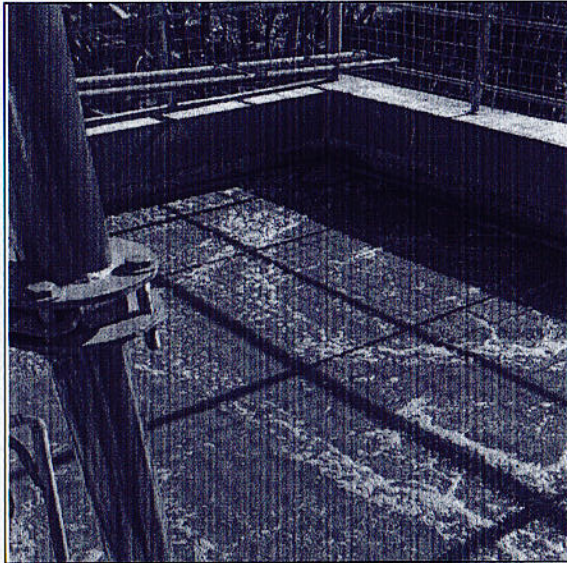
TECHNICAL OBSERVATION:

First process is primary treatment which happens at grease tank. In preliminary tank there was grit screen for protection against clogging and damaged. There was large rubbish for size around 25 to 50 mm like human excreta, plastics and others. Grit chamber use to remove some left garbage and rubbish. The rubbish at the grit then removed everyday at 8:00 A.M. in the morning and throw to dustbin. Skimming tank is used for oil and grease removal. It removed by floatation or skimming. After that, it will go to balancing tank for stabilize flow of water.

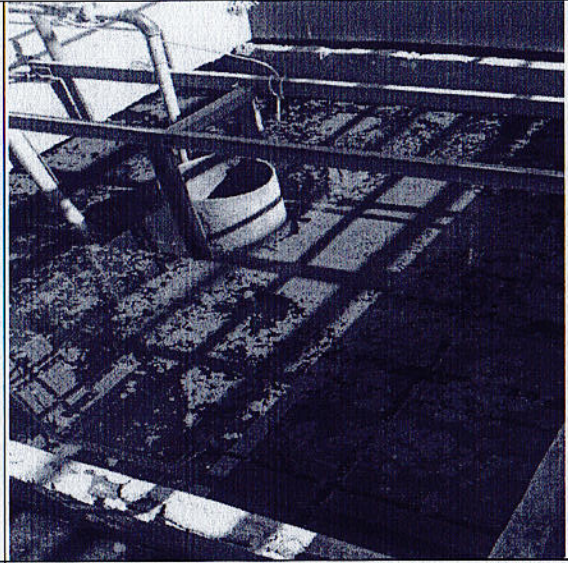


Shah



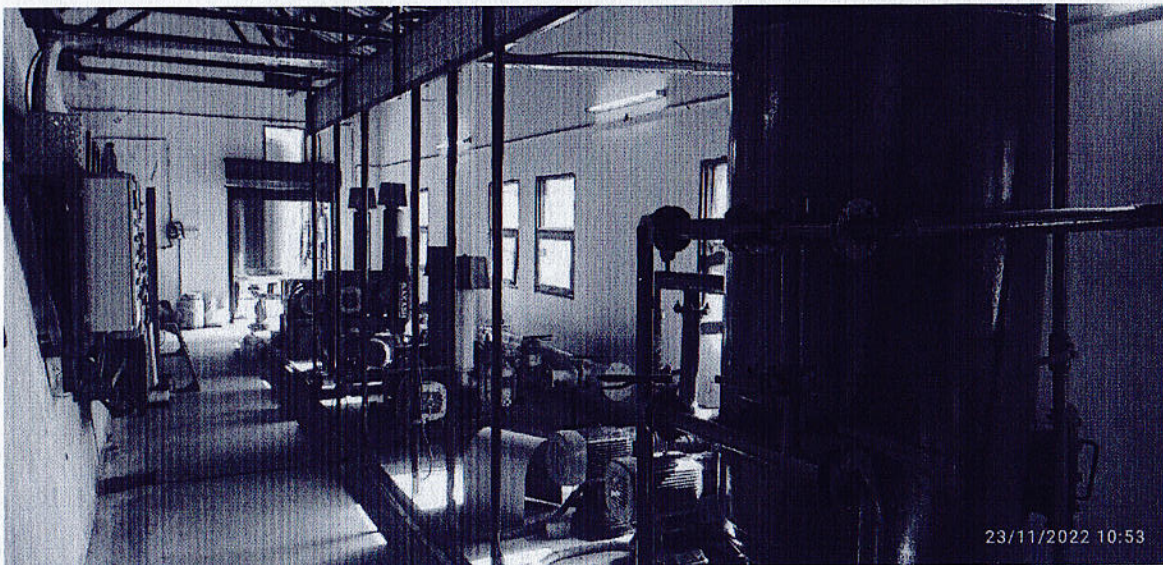


Aeration tank



Settling Tank

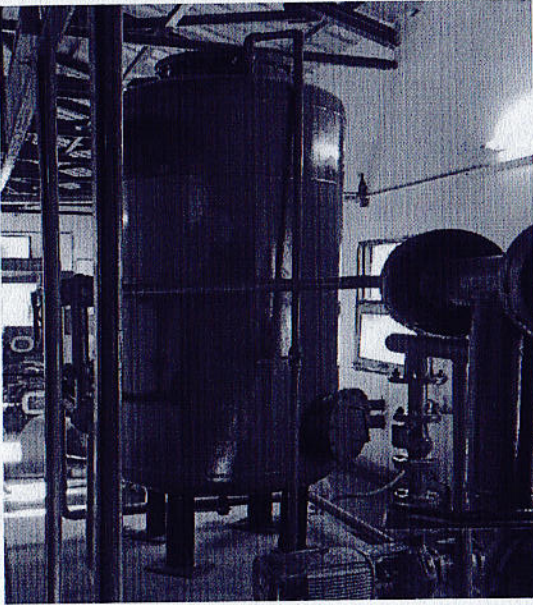
Secondary treatment is biological treatment that involved bacteria in process. Anoxic tank where anaerobic process happen where bacteria does not need oxygen to decompose the sludge. The tank controlled by dissolved oxygen meter around 2 to 4 mg all time. The oxygen given through diffuser provide around 150 meter cube per second. At anoxic tank also happen de-nitrification process. Aerobic tank located in demand tank. At this tank there also channel which conduct internal cycle for water that not finish de-nitrification process to finish de-nitrification process. Also in this channel it returns the young sludge because did not want to waste it yet. Next there was effluent channel which continue until chlorination tank. Chlorination tank also known as final effluent tank. There was building near tank which provides the chorine. But at Indah Water they never use chlorine in effluent water for 25 years because Syarikat Air Johor will treat all the pathogens. They just remove six parameters which are in their regulation. If the water has chlorine it will affect the river and land. For last process they pump the effluent to the sand bed by pump house.



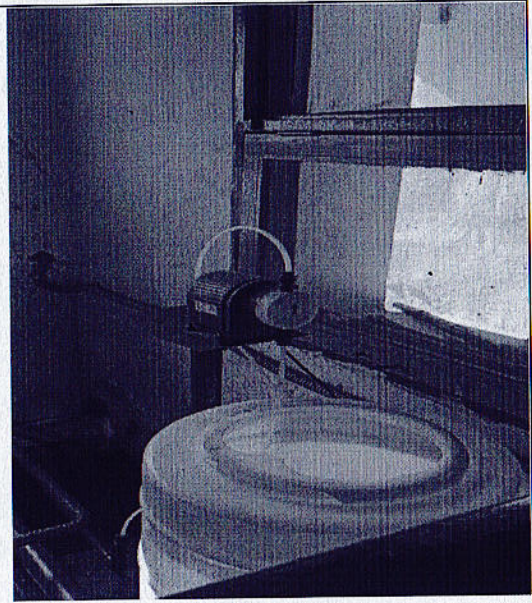
Pump House

Shah





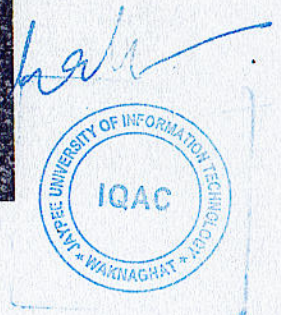
Trickling Filter



Chlorine Dosing Mechanism



Sludge Digestion



List of 3rd Year Students for STP Visit		
1	191611	Ishan Singa
2	201601	Paras Sharma
3	201602	Piyush Chauhan
4	201603	Karma Yoezer
5	201604	Phurpa Dorji
6	201605	Dechen Wangmo
7	201606	Sonam Pelzom
8	201609	Pradyumn Sharma
9	201612	Jitender Verma
10	201614	Shashwat Nandan Sharma
11	201615	Neeyati Gupta
12	201617	Pramod Kumar
13	201618	Astha Sharma
14	201619	Jatin Gupta
15	201620	Saurabh Kharyal
16	201621	Sharad Singh
17	201623	Chandan
18	201625	Arushi
19	201626	Prateek Sharma
20	201627	Pranjal Srivastava
21	201628	Ankit Ravi
22	201629	Avishya Jaswal
23	201631	Karan Sharma
24	201632	Utkarsh Singh
25	201634	Divyam Nagraik
26	201635	Somender
27	201637	Aditya Rana
28	201638	Kanav Sharma
29	201639	Sidharth Dogra
30	201642	Mohit Thakur

Shah



REPORT ON BAROT DAM AND SHANAN HYDEL PROJECT VISIT

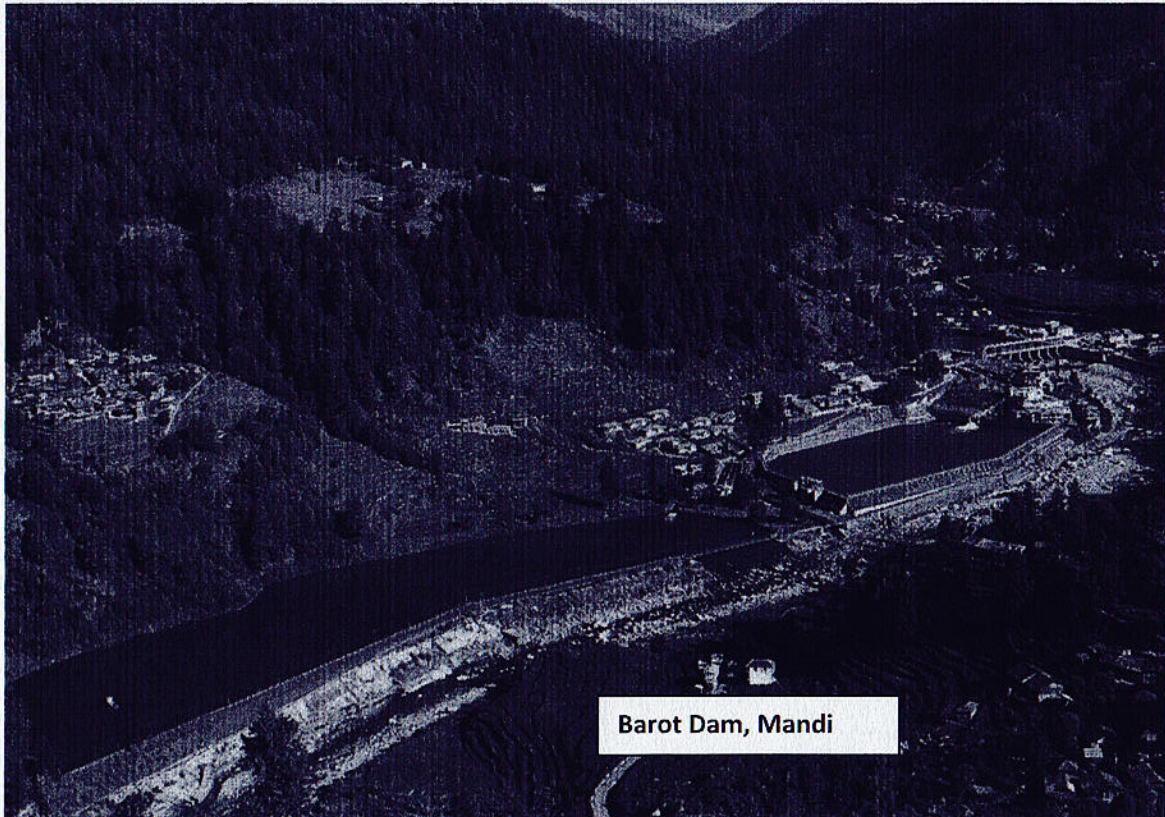
Date of Visit: 30th and 31st NOVEMBER 2022

Venue: Barot Dam and Shanan Power House, Joginder nagar, Mandi, Himachal Pradesh

Batch: B-Tech 5th, 7th and M.Tech (Structural Engg) 1st Semester Students [38 Students]

Faculty Coordinator: Dr. Amardeep and Sh. Amar Kumar (CED)

Organizer: Department of Civil Engineering, JUIT Wagnaghat



About the Visit:

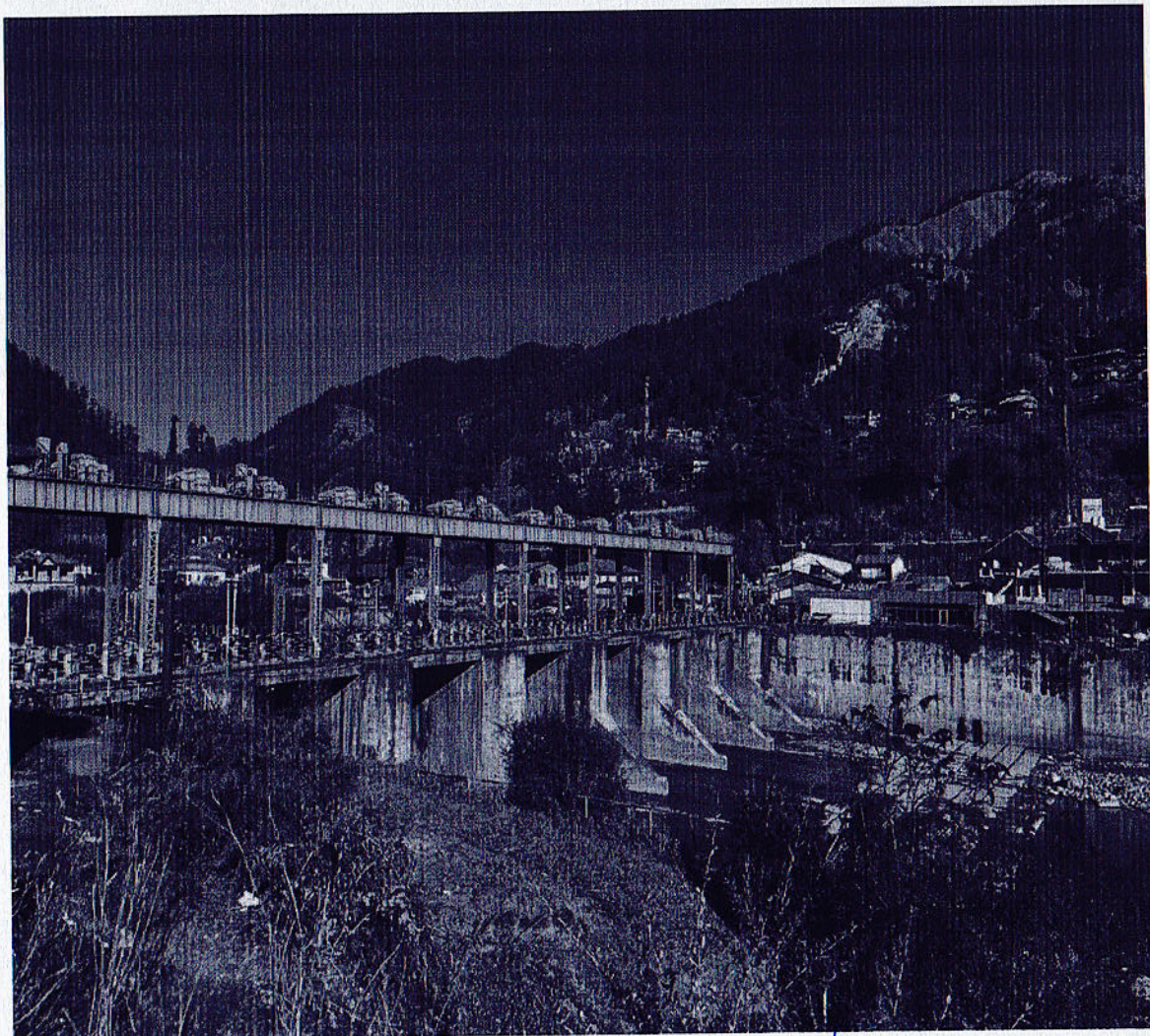
The Shanan Power plant and Barot dam was designed developed and constructed by British Engineer Colonel B.C. Batty and his group in collaboration with the ruler of Joginder Nagar area, Raja Karan Sen. Barot dam was built by British in 1925 on Ull river. To construct the dam a trolley system on rails was constructed from Joginder Nagar to Barot valley. It still exists and is a master piece of human engineering. Water from the Barot dam was taken through an underground tunnel to Shanan Hydel power project to move the turbines to generate electricity. When it was firstly brought up into use it uses to generate 40 MW. Most of the machinery used in the construction of the dam was directly imported from England, from a manufacturer named JBLAKE BOROUGH & SONS LTD.

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The machinery were used to brought through trolley and were assembled their itself on the site as the machinery were too heavy to be carried up to a height of 1829 m from sea level. Commissioned in 1936 throughout the British policy, the Shanan Hydro-electric powerhouse was built under a 99-year lease deed carried out between Joginder Sen, the raja of Mandi State, and British engineer colonel BC Batty in 1925. During the reorganization of states in November 1966, the Shanan Power House went to Punjab on a 99-year lease deed. Shanan Power House, Stage-I of $4 \times 12 = 48$ MW was upgraded to $4 \times 15 = 60$ MW in 1982. The up rated machines were ultimately commissioned in December 1982. A narrow-gauge train track was laid from Pathankot to Joginder Nagar to bring the heavy machinery transported from Britain. A Haulage-way system was laid from the site of Shanan Power House to Barot, where the reservoir was created on Uhl River.

The Shanan Power house is currently under the control of Punjab State Electricity Board and whole of the revenue goes to Punjab government. It is to be handed over to the Himachal Pradesh Government in 2024 after the completion of a 99-year lease.



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PURPOSE OF VISIT

1. Understanding the construction of a dam.
2. To learn about the working and functioning of the dam.
3. Challenges faced during the construction and operation of dam.
4. Recent development and new technologies implemented in dam.

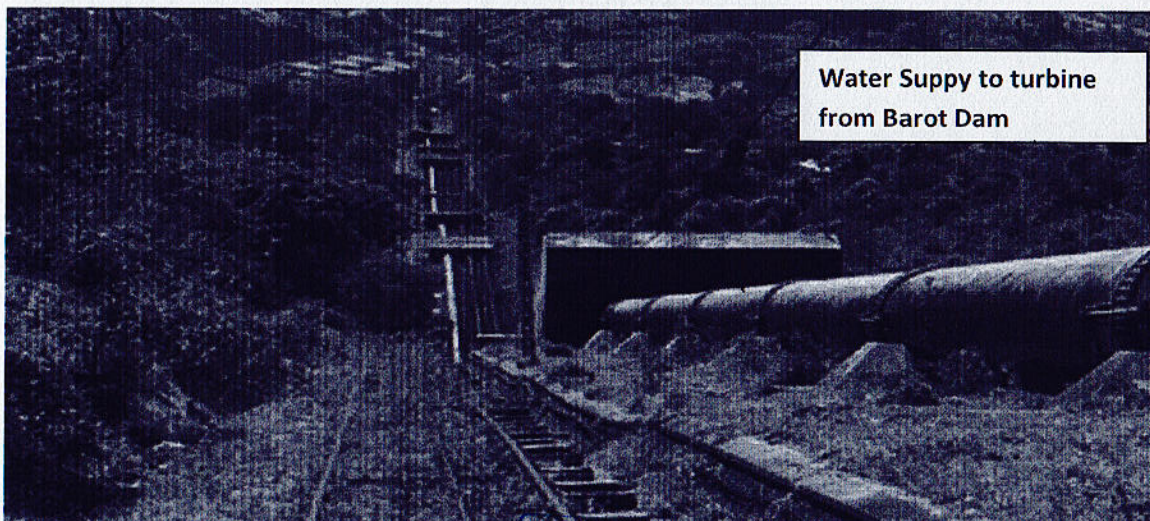
TECHNICAL OBSERVATION:

Design:

The project utilizes the hydroelectric potential between Uhl river at Barot and Jogindernagar that are separated by a crow fly distance of 7.3 km (4.5 miles) across a mountain range. Barot is at an elevation of 1829 m (6001 ft) while Shanon power house is at an elevation of 1283 m (4212 ft). The water conductor system consists of a diversion dam at Barot, a tunnel and penstocks. The three penstocks include the two original 1.397 m dia and the third added for increased capacity in 1982 which is 1.83 m dia. The water from the power house discharges into Neri Khad in the River Beas catchment area.

Construction:

British Engineer Colonel B.C. Batty wanted to construct five hydro-electric power stations by utilizing the water of Uhl river. To bring men and material for work to this place, a railway line was built from Pathankot to Joginder Nagar. To deliver construction material to the hill top for making a water reservoir at Barot, a funicular trolley way system was created there. The plan was to use the water for five power projects, but could not be completed due to the death of Mr. Batty, and it was stopped with only three power stations, the other being Bassi Power Station. A recently activated plant is Chullah power station having a reservoir at Machiyal. The original turbines were 4 x 12 MW. In March 1982, the Punjab Government upgraded the original turbines to 4 x 15 MW and added a 50 MW turbine for a total capacity of 110 MW. Turbines are from Ganz mavag, Hungary.



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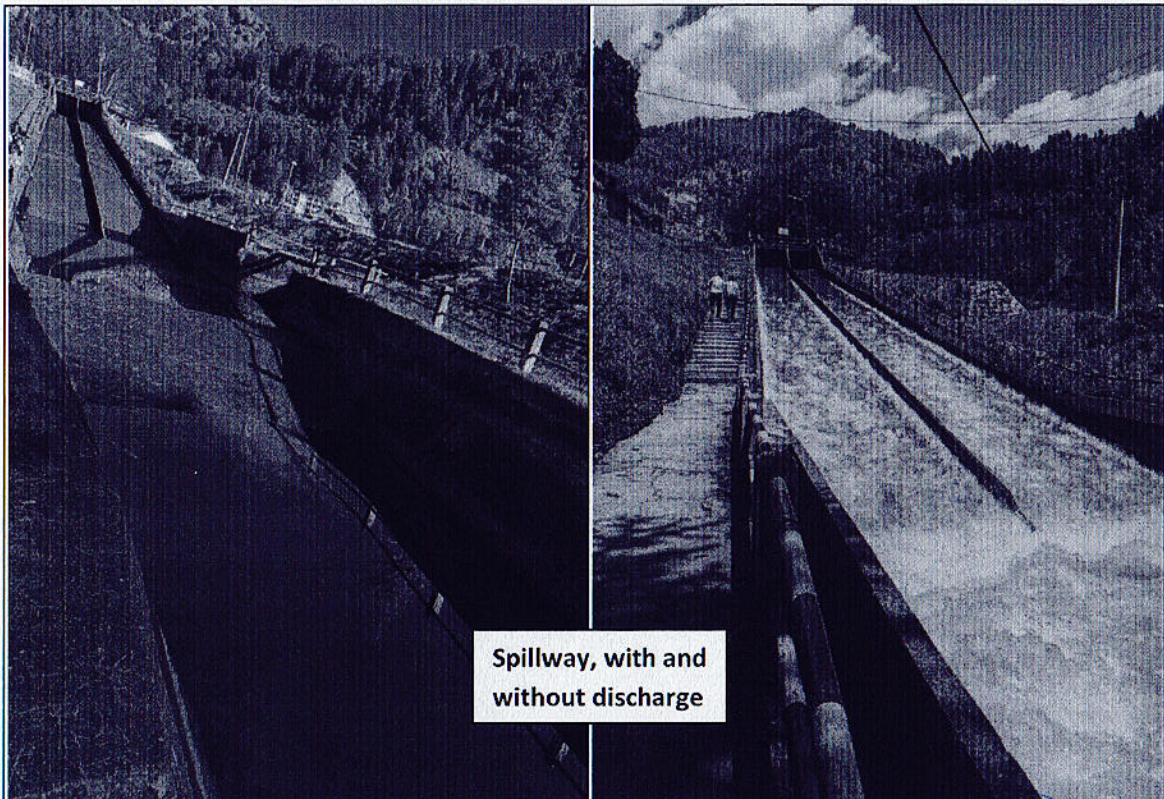
SALIENT FEATURES

1. A POWER CHANNEL OF TOTAL LENGTH 4111m
2. LENGTH OF OPEN CHANNEL 228m
3. LENGTH OF TUNNELS AND COVERED FLUME INCLUDING AQUEDUCTS AND SUPPER PASSAGES 3883 m
4. MAXIMUM DISCHARGE 900 CUSECS
5. TUNNEL SECTION 33.6 m

CONCLUSION:

The visit to the dam was a successful learning event for all of the 3rd, 4th and M.Tech 1st year students. They had a great experience of knowing how a dam works and also what are the dimensions involved in the running of dam and a hydroelectric power plant. Students were puzzled to know the mysterious nature of the place as it is still not much developed in spite of being a huge tourist spot, then how much difficult it would be for the people to construct in such an era when the technology was also not good as present time. Overall it has been a great learning experience to visit such historical place and I also see it forward to do the same in the upcoming semesters.

Glimpses of the Visit:



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WAKHAGHAT

List of Students for Barot Trip

1	191009	Ronit Mahajan	B.Tech 4th year
2	191437	Shivankar Partap Singh Guleria	B.Tech 4th year
3	191601	Shubham Sharma	B.Tech 4th year
4	191602	Ayush Thakur	B.Tech 4th year
5	191603	Nischay Thakur	B.Tech 4th year
6	191604	Deepak Thakur	B.Tech 4th year
7	191605	Harish Singh Kanw	B.Tech 4th year
8	191606	Avinash	B.Tech 4th year
9	191607	Naman Bhardwaj	B.Tech 4th year
10	191608	Sumit Chahar	B.Tech 4th year
11	191609	Hardik Dhillon	B.Tech 4th year
12	191610	Rijul Thakur	B.Tech 4th year
13	191612	Paras Jaswal	B.Tech 4th year
14	191614	Akhil Janawa	B.Tech 4th year
15	191616	Arjun Verma	B.Tech 4th year
16	191617	Astik Prashar	B.Tech 4th year
17	191618	Manish	B.Tech 4th year
18	191620	Lakshay Sharma	B.Tech 4th year
19	191622	Apoorav Bedi	B.Tech 4th year
20	191624	Devendra Ahlay	B.Tech 4th year
21	191625	Jeewan Biswa	B.Tech 4th year
22	191626	Karma Choden	B.Tech 4th year
23	191627	Pem Dorji	B.Tech 4th year
24	191628	Rada Wangmo	B.Tech 4th year
25	191629	Tenzin Wangchuk	B.Tech 4th year
26	191630	Ugyen Phuntsho	B.Tech 4th year
27	191631	Yeshi Jatsho	B.Tech 4th year
28	191632	Ujjwal Tyagi	B.Tech 4th year
29	201639	Sidharth Dogra	B.Tech 3rd year
30	201642	Mohit Thakur	B.Tech 3rd year
31	191633	Vardhan Khajuria	B.Tech 4th year
32	201601	Paras Sharma	B.Tech 3rd year
33	201602	Piyush Chauhan	B.Tech 3rd year
34	201603	Karma Yoezer	B.Tech 3rd year
35	201604	Phurpa Dorji	B.Tech 3rd year
36	201609	Pradyumn Sharma	B.Tech 3rd year
37	201612	Jitender Verma	B.Tech 3rd year
38	201614	Shashwat Nandan	B.Tech 3rd year
39	201615	Neevati Gupta	B.Tech 3rd year
40	201617	Pramod Kumar	B.Tech 3rd year
41	201618	Astha Sharma	B.Tech 3rd year
42	201619	Jatin Gupta	B.Tech 3rd year
43	201620	Saurabh Kharyal	B.Tech 3rd year
44	201621	Sharad Singh	B.Tech 3rd year
45	201623	Chandan	B.Tech 3rd year
46	201625	Arushi	B.Tech 3rd year
47	201626	Prateek Sharma	B.Tech 3rd year
48	201627	Pranjal Srivastava	B.Tech 3rd year
49	201628	Ankit Ravi	B.Tech 3rd year
50	201629	Avishya Jaswal	B.Tech 3rd year
51	212651	Ananay Sambyal	M.Tech 1st Yr.
52	212652	Ayush	M.Tech 1st Yr.
53	212653	Nikhil Gupta	M.Tech 1st Yr.
54	212654	Manish Kumar	M.Tech 1st Yr.
55	212655	Digvijay Singh Thal	M.Tech 1st Yr.

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